

# Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

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Heineken UK Limited  
Bulmers Cider Mills  
The Cider Mills  
Plough Lane  
Hereford  
HR4 0LE

Variation application number  
EPR/BN3138IG/V006

Permit number EPR/BN3138IG

# **Bulmers Cider Mills**

## **Consolidated permit number EPR/BN3138IG**

### **Introductory note**

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

The following notice gives notice of the variation of environmental permits EPR/BN3138IG and EPR/MP3434ZZ referred to in the status logs below and the replacement of those permits with a consolidated environmental permit.

This variation is for an upgrade in production facilities including a new glass bottling plant, a new blending facility, and reconfiguration of bulk storage vessels. The combustion plant that was part of permit EPR/MP3434ZZ has been demolished and this listed activity no longer takes place at the installation, and the permit for this has been consolidated.

The schedules specify the changes made to the permit.

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

**Status log of permit A: EPR/BN3138IG**

<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application BN3138IG	Received 06/01/05	
Response to request for additional information	Request 31/03/05, 19/10/05, & 27/10/05	06/06/05, 14/07/05, 23/11/05 & 01/12/05
Permit determined EPR/BN3138IG/A001	19/12/05	
Notification of administrative changes (EPR/BN3138IG/V002)	Received 03/09/08	
Variation EPR/BN3138IG/V002 issued (PAS Ref YP3030GN)	16/9/08	
Variation EPR/BN3138IG/V003 issued	25/11/09	
Partial surrender application	24/12/10	
Partial surrender of permit EPR/BN3138IG/S004 (PAS Ref QP3433HY)	14/01/11	
Application EPR/BN3138IG/V005 (variation)	Duly made 23/08/12	Application to vary permit to include steam generating plant and extend installation boundary.
Additional Information Received	12/11/12	Additional modelling and confirmation of plant provider and BAT standards.
Variation determined EPR/BN3138IG/V005	12/12/12	Varied permit issued.
Application EPR/BN3138IG/V006 (variation & consolidation)	Duly made 27/01/15	Application to vary permit, new production facilities, and consolidate with permit EPR/MP3434ZZ
Variation and consolidation issued	24/04/15	

**Other Part A installation permits relating to installation A**

<b>Operator</b>	<b>Permit number</b>	<b>Date of issue</b>
Heineken UK Limited	EPR/MP3434ZZ	23/09/13

**Status log of permit B: EPR/MP3434ZZ**

<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application YP3733LE	Duly made 07/04/06	
Additional Information Received	25/07/06	Response date10/08/06
Permit determined	20/12/06	
Application EPR/MP3434ZZ/T001 (full transfer of permit EPR/ YP3733LE)	Duly made 17/09/13	Application to transfer the permit in full to Heineken UK Limited.
Transfer determined EPR/MP3434ZZ	23/09/13	Full transfer of permit complete.
Variation and consolidation application (EPR/MP3434ZZ/V002)	Duly made 27/01/15	
Variation and consolidation issued (EPR/BN3138IG)	24/04/15	

**Other Part A installation permits relating to installation B**

<b>Operator</b>	<b>Permit number</b>	<b>Date of issue</b>
Heineken UK Limited	EPR/BN3138IG	06/01/05

End of introductory note

## Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulations 18 and 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates environmental permits

**permit numbers**

**EPR/BN3138IG**

**EPR/MP3434ZZ**

**issued to**

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

whose registered office is

**3-4 Broadway Park**

**South Gyle Broadway**

**Edinburgh**

**EH12 9JZ**

company registration number SC065527

to operate a regulated facility at

**Bulmers Cider Mills**

**Plough Lane**

**Hereford**

**Herefordshire**

**HR4 0LE**

to the extent set out in the schedules.

The notice shall take effect from 24/04/15

**The number of the consolidated permit is EPR/BN3138IG**

Name	Date
<b>Anne Nightingale</b>	<b>24/04/2015</b>

Authorised on behalf of the Environment Agency

### **Schedule 1 – changes in the permit**

**Note:** The conditions numbers used in this schedule refer to those in the consolidated permit.

Only conditions (1.1.1, 1.4.1, 1.6.1, 2.1.1, 2.2.1.2, 2.2.2.3, 2.10.2, and 2.10.11) of permit EPR/BN3138IG have been varied by the consolidated permit as a result of the application made by the operator.

All conditions relating to permit EPR/MP3434ZZ have been varied by the consolidated permit as a result of the application made by the operator.

The following conditions have been varied as the result of an Environment Agency variation to implement the requirements of the Industrial Emissions Directive:

2.10.11, 5.1.1, 5.1.2, schedule 1

### **Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.

# Permit

The Environmental Permitting (England and Wales) Regulations 2010

**Permit number**  
**EPR/BN3138IG**

This is the consolidated permit referred to in the variation and consolidation notice for application EPRBN3138IG/V006 authorising,

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

whose registered office is  
**3-4 Broadway Park**  
**South Gyle Broadway**  
**Edinburgh**  
**EH12 9JZ**

company registration number SC065527

to operate a regulated facility at

**Bulmers Cider Mills**  
**Plough Lane**  
**Hereford**  
**Herefordshire**  
**HR4 0LE**

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

Name	Date
Anne Nightingale	24/04/2015

Authorised on behalf of the Environment Agency

# Conditions

## General

### 1.1 Permitted Activities

1.1.1 The Operator is authorised to carry out the activities and the associated activities specified in Table 1.1.1.

<b>Table 1.1.1</b>		
<b>Activity listed in Schedule 1 of the EP Regulations / Associated Activity</b>	<b>Description of specified activity</b>	<b>Limits of specified activity</b>
Section 6.8 (A)(1)(d)(ii)	Cider production	Fermentation from apple juice and concentrate, and processing including maturation, filtration, blending and pasteurisation. Packaging and despatch of finished product.
Directly associated activity	Waste handling and storage	From disposal of waste products to collection by registered waste contractor.
Burning natural gas or distillate fuel oil in a boiler with a rated thermal input of less than 20 megawatts	Operation of three package steam boilers for the purposes of steam generation.	Operation of three natural gas boilers 2 x 11MW and 1x 3-4MW boiler.

### 1.2 Site

1.2.1 The activities authorised under condition 1.1.1 shall not extend beyond the Site, being the land shown edged in green on the Site Plan at Schedule 5 to this Permit.

### 1.3 Overarching Management Condition

1.3.1 Without prejudice to the other conditions of this Permit, the Operator shall implement and maintain a management system, organisational structure and allocate resources that are sufficient to achieve compliance with the limits and conditions of this Permit.

### 1.4 Improvement Programme

1.4.1 The Operator shall complete the improvements specified in Table 1.4.1 by the date specified in that table, and shall send written notification of the date of completion of each requirement to the Agency within 14 days of the completion of each such requirement.



**Table 1.4.1: Improvement programme**

Reference	Requirement	Date
IC11	The Operator shall provide a programme in writing to the Agency detailing proposals for the continuation of groundwater monitoring in the location of the former Dalkia Combustion Plant. This shall include the re-installation of monitoring boreholes lost during or after the demolition of the combustion plant. The monitoring method, frequency of monitoring and analytical suite for the monitoring shall be agreed in writing with the Agency.	30/06/15

- 1.4.2 Where the Operator fails to comply with any requirement by the date specified in Table 1.4.1 the Operator shall send written notification of such failure to the Agency within 14 days of such date.

## 1.5 Minor Operational Changes

- 1.5.1 The Operator shall seek the Agency's written agreement to any minor operational changes under condition 2.1.1 of this Permit by sending to the Agency: written notice of the details of the proposed change including an assessment of its possible effects (including waste production) on risks to the environment from the Permitted Installation; any relevant supporting assessments and drawings; and the proposed implementation date.
- 1.5.2 Any such change shall not be implemented until agreed in writing by the Agency. As from the agreed implementation date, the Operator shall operate the Permitted Installation in accordance with that change, and relevant provisions in the Application shall be deemed to be amended.
- 1.5.3 When the qualification "unless otherwise agreed in writing" is used elsewhere in this Permit, the Operator shall seek such agreement by sending to the Agency written notice of the details of the proposed method(s) or techniques.
- 1.5.4 Any such method(s) or techniques shall not be implemented until agreed in writing by the Agency. As from the agreed implementation date, the Operator shall operate the Permitted Installation using that method or technique, and relevant provisions in the Application and the Site Protection and Monitoring Programme, as the case may be shall be deemed to be amended.

## 1.6 Pre-Operational Conditions

- 1.6.1 The operations specified in table S1.6 shall not commence until the measures specified in that table have been completed.

**Table S1.6 Pre-operational measures for future development**

Reference	Operation	Pre-operational measures
1	New Tank Farm	The operator shall submit a report demonstrating that all bulk liquid storage tanks, pipelines and secondary containment in the new Tank Farm have been leak-tested at least 4 weeks before the start of operations.

## **1.7 Off-site Conditions**

1.7.1 There are no off-site conditions.

## Operating conditions

### 2.1 In-Process Controls

2.1.1 The Permitted Installation shall, subject to the conditions of this Permit, be operated using the techniques and in the manner described in the documentation specified in Table 2.1.1, or as otherwise agreed in writing by the Agency in accordance with conditions 1.5.1 and 1.5.2 of this Permit.

**Table 2.1.1: Operating techniques**

Description	Parts	Date Received
Application	The response to questions 2.1 and 2.2 given in sections B2.1.1-2.1.18, B2.2.1, B2.2.13-2.2.15, B2.2.34, B2.2.44-B2.2.57 and Table B2.10.1.	04/03/05
Letter dated 05/08/05	Section 4, detailing chlorination plant operation.	05/08/05
Variation Application EPR/BN3138IG/V005	Section II and Section III	23/08/12
Response to Schedule 5	Response to Question 3 and Question 5	12/11/12
Application Variation EPR/BN3138IG/V006	The response to question 3a of application form C3. Section II:Proposed Changes	27/01/15

2.1.2 The Permitted Installation shall, subject to the other conditions of this Permit, be operated using the techniques and in the manner described in the Site Protection and Monitoring Programme submitted under condition 4.1.7 of this Permit (as amended from time to time under condition 4.1.7), or as otherwise agreed in writing by the Agency.

### 2.2 Emissions

#### 2.2.1 Emissions to Air, (including heat, but excluding Odour, Noise or Vibration) from Specified Points

2.2.1.1 This Part 2.2.1 of this Permit shall not apply to releases of odour, noise or vibration.

2.2.1.2 Emissions to air from the emission points in Table 2.2.1 shall only arise from the sources specified in that Table.

**Table 2.2.1 : Emission points to air**

Emission point reference or description	Source	Location of emission point
A4	Fermentation vent	A4, identified as release point "A22" in Application Figure 1.3c
A5	Carbon dioxide recovery plant de-oderisor regeneration outlet	A5, identified as release point "A23" in Application Figure 1.3c
A6	Individual or combined fermentation vessel vents	A6, identified as release point "A24" in Application Figure 1.3c
A7	Sodium metabisulphite bulk tank vent	A7, identified as release point "A39" in Application Figure 1.3c

**Table 2.2.1 : Emission points to air**

<b>Emission point reference or description</b>	<b>Source</b>	<b>Location of emission point</b>
A8	Vent from CO <sub>2</sub> scrubber	A8 referred to as "A15" within the application
A9	10 miscellaneous vents	A9 referred to as "A16" within the application
A10	Dehydrator vent	A10 referred to as "A21" within the application
A11	11 Vents	A11 referred to as "A28" within the application
A12	Vent/pressure relief – one sterile cider buffer tank	A12 referred to as "A29" within the application
A13	3 vents and pressure relief – 3 beer holding vessels	A13 referred to as "A34" within the application
A14	4 vents and pressure relief – 4 sterile cider buffer tanks	A14 referred to as "A37" within the application
A15	Vent/ pressure relief – one can line cider buffer tank	A15 referred to as "A39" within the application
A16	Ink jet coder vent	A16 referred to as "A41" within the application
A17	Can filler extraction vent	A17 referred to as "A43" within the application
A18	One tank vent- bulk tanker filling	A18 referred to as "A49" within the application
A19	Steam raising Boiler	A19 identified as "A19 on Plan Drawing in Schedule 5, Application V005
A20	Steam raising Boiler	A20 identified as "A20 on Plan Drawing in Schedule 5, Application V005
A21	Steam raising Boiler	A21 identified as "A21 on Plan Drawing in Schedule 5, Application V005

2.2.1.3 No condition applies.

2.2.1.4 No condition applies.

## **2.2.2 Emissions to water (other than groundwater), including heat, from specified points**

2.2.2.1 This Part 2.2.2 of this Permit shall not apply to releases of odour, noise or vibration or to releases to groundwater.

### **Emissions to Water (Other than to Sewer)**

2.2.2.2 Conditions 2.2.2.3 - 2.2.2.6 shall not apply to emissions to sewer.

2.2.2.3 Emissions to water from the emission point specified in Table 2.2.4 shall only arise from the source specified in that Table.

**Table 2.2.4: Emission point to water**

Emission Point Reference or description	Source	Receiving Water
W1 on Figure 1.3c Installation Layout showing principal release points	Cooling water originating from borehole water and uncontaminated surface water drainage	Widemarsh Brook
W2 to W12 on Figure 4 of Application V006	Surface run-off	Widemarsh and Yazor Brooks

2.2.2.4 The limits for the emissions to water for the parameters and emission points set out in Table 2.2.5 shall not be exceeded.

2.2.2.5 No condition applies.

**Table 2.2.5 : Emission limits to water and monitoring**

Emission point reference	Parameter	Limit (including Reference Period)	Monitoring frequency	Monitoring method
W1	Temperature	25°C	Monthly	Note 1

2.2.2.6 No condition applies.

## Emissions to sewer

2.2.2.7 Emissions to sewer from the specified emission points in Table 2.2.7 shall only arise from the sources specified in that Table.

**Table 2.2.7 Emission points to sewer**

Emission point reference or description	Source	Sewer
S1 – Plough Lane No 1	Cider production and packaging processes	Dŵr Cymru Welsh Water
S2 – Plough Lane No 2	Cider production and packaging processes	Dŵr Cymru Welsh Water
S3 – Whitecross Road No 1	Apple processing plant	Dŵr Cymru Welsh Water
S4 – Whitecross Road No 2	Apple processing plant	Dŵr Cymru Welsh Water

2.2.2.8 No condition applies.

2.2.2.9 No condition applies.

2.2.2.10 No condition applies.

## 2.2.3 Emissions to groundwater

2.2.3.1 No emission from the Permitted Installation shall give rise to the introduction into groundwater of any substance in List I (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)).

2.2.3.2 No emission from within the Permitted Installation shall give rise to the introduction into groundwater of any substance in List II (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)) so as to cause pollution (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)).

2.2.3.3 For substances other than those in List I or II (as defined in the Groundwater Regulations 1998 (SI 1998 No.2746)), the Operator shall use BAT to prevent or where that is not practicable to reduce emissions to groundwater from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application.

## **2.2.4 Fugitive emissions of substances to air**

2.2.4.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emissions of substances to air from the Permitted Installation in particular from:

- storage areas
- buildings
- pipes, valves and other transfer systems
- open surfaces

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

## **2.2.5 Fugitive emissions of substances to water and sewer**

2.2.5.1 Subject to condition 2.2.5.2 below, the Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emissions of substances to water (other than Groundwater) and sewer from the Permitted Installation in particular from:

- all structures under or over ground
- surfacing
- bunding
- storage areas

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.5.2 There shall be no release to water that would cause a breach of an EQS established by the UK Government to implement the Dangerous Substances Directive 76/464/EEC.

## **2.2.6 Odour**

2.2.6.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce odorous emissions from the Permitted Installation, in particular by:

- limiting the use of odorous materials
- restricting odorous activities
- controlling the storage conditions of odorous materials
- controlling processing parameters to minimise the generation of odour
- optimising the performance of abatement systems
- timely monitoring, inspection and maintenance
- employing, where appropriate, an approved odour management plan

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

## **2.2.7 Emissions to Land**

2.2.7.1 This Part 2.2.7 of this Permit shall not apply to emissions to groundwater.

2.2.7.2 No emission from the Permitted installation shall be made to land.

2.2.7.3 No condition applies.

## **2.2.8 Equivalent Parameters or Technical Measures**

2.2.8.1 No condition applies.

## **2.3 Management**

2.3.1 A copy of this Permit and those parts of the application referred to in this Permit shall be available, at all times, for reference by all staff carrying out work subject to the requirements of the Permit.

### ***Training***

2.3.2 The Permitted Installation shall be supervised by staff who are suitably trained and fully conversant with the requirements of this Permit.

2.3.3 All staff shall be fully conversant with those aspects of the Permit conditions which are relevant to their duties and shall be provided with adequate professional technical development and training and written operating instructions to enable them to carry out their duties.

2.3.4 The Operator shall maintain a record of the skills and training requirements for all staff whose tasks in relation to the Permitted Installation may have an impact on the environment and shall keep records of all relevant training.

### ***Maintenance***

2.3.5 All plant and equipment used in operating the Permitted Installation, the failure of which could lead to an adverse impact on the environment, shall be maintained in good operating condition.

2.3.6 The Operator shall maintain a record of relevant plant and equipment covered by condition 2.3.5 and for such plant and equipment:

2.3.6.1 a written or electronic maintenance programme; and

2.3.6.2 records of its maintenance.

### ***Incidents and Complaints***

2.3.7 The Operator shall maintain and implement written procedures for:

2.3.7.1 taking prompt remedial action, investigating and reporting actual or potential non-compliance with operating procedures or emission limits; and

2.3.7.2 investigating incidents, (including any malfunction, breakdown or failure of plant, equipment or techniques, down time, any short term and long term remedial measures and near misses) and prompt implementation of appropriate actions; and

2.3.7.3 ensuring that detailed records are made of all such actions and investigations.

2.3.8 The Operator shall record and investigate complaints concerning the Permitted Installation's effects or alleged effects on the environment. The record shall give the date and nature of complaint, time of complaint, name of complainant (if given), a summary of any investigation and the results of such investigation and any actions taken.

## **2.4 Efficient use of raw materials**

2.4.1 The Operator shall -

2.4.1.1 maintain the raw materials table or description submitted in Section 2.4 of the Application and in particular consider on a periodic basis whether there are suitable alternative materials to reduce environmental impact;

2.4.1.2 carry out periodic waste minimisation audits and water use efficiency audits. If such an audit has not been carried out in the 2 years prior to the issue of this Permit, then the first such audit shall take place within 2 years of its issue. The methodology used and an action plan for increasing the efficiency of the use of raw materials or water shall be submitted to the Agency within 2 months of completion of each such audit and a review of the audit and a description of progress made against the action plan shall be submitted to the Agency at least every 4 years thereafter; and

2.4.1.3 ensure that incoming water use is directly measured and recorded.

## **2.5 Waste Storage and Handling**

2.5.1 The Operator shall design, maintain and operate all facilities for the storage and handling of waste on the Permitted installation such that there are no releases to water or land during normal operation and that emissions to air and the risk of accidental release to water or land are minimised.

2.5.2 The Operator shall use BAT so as to prevent or where that is not practicable to reduce emissions of litter from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

## **2.6 Waste recovery or disposal**

2.6.1 Waste produced at the Permitted Installation shall be:

2.6.1.1 recovered to no lesser extent than described in the Application; and

2.6.1.2 where not recovered, disposed of while avoiding or reducing any impacts on the environment provided always that this is not done in any way that would have a greater effect on the environment than that described in the Application.

2.6.2 The Operator shall maintain the waste recovery or disposal table or description submitted in Section 2.6 of the Application and in particular review the available options for waste recovery and disposal for the purposes of complying with condition 2.6.1 above.

2.6.3 The Operator shall maintain and implement a system which ensures that a record is made of the quantity, composition, origin, destination (including whether this is a recovery or disposal operation) and where relevant removal date of any waste that is produced at the Permitted Installation.

## **2.7 Energy Efficiency**

2.7.1 The Operator shall produce a report on the energy consumed at the Permitted Installation over the previous calendar year, by 31 January each year, providing the information required by condition 4.1.2.



2.7.2 The Operator shall maintain and update annually an energy management system which shall include, in particular, the monitoring of energy flows and targeting of areas for improving energy efficiency.

2.7.3 The Operator shall design, maintain and operate the Permitted Installation so as to secure energy efficiency, taking into account relevant guidance including the Agency's Energy Efficiency Horizontal Guidance Note as from time to time amended. Energy efficiency shall be secured in particular by:

- ensuring that the appropriate operating and maintenance systems are in place;
- ensuring that all plant is adequately insulated to minimise energy loss or gain;
- ensuring that all appropriate containment methods, (e.g. seals and self-closing doors) are employed and maintained to minimise energy loss;
- employing appropriate basic controls, such as simple sensors and timers, to avoid unnecessary discharge of heated water or air;
- where building services constitute more than 5% of the total energy consumption of the installation, identifying and employing the appropriate energy efficiency techniques for building services, having regard in particular to the Building services part of the Agency's Energy Efficiency Horizontal Guidance Note H2; and

maintaining and implementing an energy efficiency plan which identifies energy saving techniques that are applicable to the activities and their associated environmental benefit and prioritises them, having regard to the appraisal method in the Agency's Energy Efficiency Horizontal Guidance Note H2.

## 2.8 Accident prevention and control

2.8.1 The Operator shall maintain and implement when necessary the accident management plan submitted or described in Section 2.8 of the Application. The plan shall be reviewed at least every 2 years or as soon as practicable after an accident, whichever is the earlier, and the Agency notified of the results of the review within 2 months of its completion.

## 2.9 Noise and Vibration

2.9.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce emissions of noise and vibration from the Permitted Installation, in particular by:

- equipment maintenance, eg. of fans, pumps, motors, conveyors and mobile plant;
- use and maintenance of appropriate attenuation, eg. silencers, barriers, enclosures;
- timing and location of noisy activities and vehicle movements;
- periodic checking of noise emissions, either qualitatively or quantitatively; and
- maintenance of building fabric,

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.9.2 No condition applies.

2.9.3 No condition applies.

## 2.10 On-site Monitoring

2.10.1 The Operator shall maintain and implement an emissions monitoring programme which ensures that emissions are monitored from the specified points, for the parameters listed in and to the frequencies and methods described in Tables 2.2.5 and 2.2.8, unless otherwise agreed in writing, and that the results of such monitoring are assessed. The programme shall ensure that monitoring is carried out under an appropriate range of operating conditions.

2.10.2 The Operator shall carry out environmental or other specified substance monitoring to the frequencies and methods described in Table 2.10.1.

**Table 2.10.1 : Other monitoring requirements**

<b>Emission point reference or source or description of point of measurement</b>	<b>Substance or parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring method</b>	<b>Other specifications</b>
W1	Flow rate	Continuous reported as a daily average	As agreed in IP1	To commence on completion of IP1

2.10.3 The Operator shall carry out monitoring of the process variables listed in Table 2.10.1 to the frequencies and methods described in that Table.

2.10.4 No condition applies.

2.10.5 The Operator shall notify the Agency at least 14 days in advance of undertaking monitoring and/ or spot sampling, where such notification has been requested in writing by the Agency.

2.10.6 The Operator shall maintain records of all monitoring taken or carried out (this includes 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.

2.10.7 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme in condition 2.10.1 of this Permit and the environmental or other monitoring specified in condition 2.10.2 shall have either MCERTS certification or MCERTS accreditation (as appropriate) unless otherwise agreed in writing.

2.10.8 There shall be provided:

2.10.8.1 safe and permanent means of access to enable sampling/monitoring to be carried out in relation to the emission points specified in Schedule 2 to this Permit, unless otherwise specified in that Schedule; and

2.10.8.2 safe means of access to other sampling/monitoring points when required by the Agency.

2.10.9 The Operator shall carry out the on-going monitoring identified in the Site Protection and Monitoring Programme submitted under condition 4.1.7, unless otherwise agreed in writing by the Agency.

2.10.10 The Operator shall, within 6 months of the issue of this Permit, in accordance with and using the format given in the Land Protection Guidance:

2.10.10.1 collect the site reference data identified in the Site Protection and Monitoring Programme submitted under condition 4.1.7, and

2.10.10.2 report that site reference data to the Agency,

- unless otherwise agreed in writing by the Agency.

- 2.10.11 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.

## **2.11 Closure and Decommissioning**

- 2.11.1 The Operator shall maintain and operate the Permitted Installation so as to prevent or minimise any pollution risk, including the generation of waste, on closure and decommissioning in particular by:-
- 2.11.1.1 attention to the design of new plant or equipment;
  - 2.11.1.2 the maintenance of a record of any events which have, or might have, impacted on the condition of the site along with any further investigation or remediation work carried out; and
  - 2.11.1.3 the maintenance of a site closure plan to demonstrate that the installation can be decommissioned avoiding any pollution risk and returning the site of operation to a satisfactory state.
- 2.11.2 Notwithstanding condition 2.11.1 of this Permit, the Operator shall carry out a full review of the Site Closure Plan at least every 4 years.
- 2.11.3 The site closure plan shall be implemented on final cessation or decommissioning of the Permitted activities or part thereof.
- 2.11.4 The Operator shall give at least 30 days written notice to the Agency before implementing the site closure plan.

## **2.12 Multiple Operator installations**

- 2.12.1 This is not a multi-Operator installation.

## **2.13 Transfer to effluent treatment plant**

- 2.13.1 No transfers to effluent treatment plant are controlled under this part of this Permit.
- 2.13.2 No condition applies.

## Records

- 3.1 The Operator shall ensure that all records required to be made by this Permit and any other records made by it in relation to the operation of the Permitted Installation shall:-
- 3.1.1 be made available for inspection by the Agency at any reasonable time;
  - 3.1.2 be supplied to the Agency on demand and without charge;
  - 3.1.3 be legible;
  - 3.1.4 be made as soon as reasonably practicable;
  - 3.1.5 indicate any amendments which have been made and shall include the original record wherever possible;
  - 3.1.6 be retained at the Permitted Installation, or other location agreed by the Agency in writing, for a minimum period of 4 years from the date when the records were made, unless otherwise agreed in writing; and
  - 3.1.7 where they concern the condition of the site of the Installation or are related to the implementation of the Site Protection and Monitoring Programme, be kept at the Permitted Installation, or other location agreed by the Agency in writing, until all parts of the Permit have been surrendered.

## Reporting

- 4.1.1 All reports and written and or oral notifications required by this Permit and notifications required by Regulation 16 of the PPC Regulations shall be made or sent to the Agency using the contact details notified in writing to the Operator by the Agency.
- 4.1.2 The Operator shall, unless otherwise agreed in writing, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:-
- 4.1.2.1 in respect of the parameters and emission points specified in Table S2 to Schedule 2;
  - 4.1.2.2 for the reporting periods specified in Table S2 to Schedule 2 and using the forms specified in Table S3 to Schedule 3;
  - 4.1.2.3 giving the information from such results and assessments as may be required by the forms specified in those Tables; and
  - 4.1.2.4 to the Agency within 28 days of the end of the reporting period.
- 4.1.3 The Operator shall submit to the Agency a report on the performance of the Permitted Installation over the previous year, by 31 January each year, providing the information listed in Tables S4.1 and S4.2 of Schedule 4, assessed at any frequency specified therein, and using the form specified in Table S3 to Schedule 3.
- 4.1.4 The Operator shall review fugitive emissions, having regard to the application of Best Available Techniques, on an annual basis, or such other period as shall be agreed in writing by the Agency, and a summary report on this review shall be sent to the Agency detailing such releases and the measures taken to reduce them within 3 months of the end of such period.
- 4.1.5 Where the Operator has a formal environmental management system applying to the Permitted Installation which encompasses annual improvement targets the Operator shall, not later than 31 January in each year, provide a summary report of the previous year's progress against such targets.
- 4.1.6 The Operator shall, within 6 months of receipt of written notice from the Agency, submit to the Agency a report assessing whether all appropriate preventive measures continue to be taken against pollution, in particular through the application of the best available techniques, at the installation. The report shall consider any relevant published technical guidance current at the time of the notice which is either supplied with or referred to in the notice, and shall assess the costs and benefits of applying techniques described in that guidance, or otherwise identified by the Operator, that may provide environmental improvement.
- 4.1.7 The Operator shall, within two months of the date of this permit, submit a detailed Site Protection and Monitoring Programme, in accordance with and using the appropriate template format given in the Land Protection Guidance. The Operator shall implement and maintain the Site Protection and Monitoring Programme (SPMP) submitted under this condition, and shall carry out regular reviews of it at a minimum frequency of every 2 years. The results of such reviews and any changes made to the SPMP shall be reported to the Agency within [1 month] of the review or change.
- 4.1.8 No condition applies.

## Notifications

5.1.1 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.

5.1.2 Any information provided under condition 5.1.1 (a)(i), or 5.1.1 (b)(i) shall be confirmed by sending the information listed in schedule 1 to this permit within the time period specified in that schedule.

5.1.3 The Operator shall give written notification as soon as practicable prior to any of the following:-

- 5.1.3.1 permanent cessation of the operation of part or all of the Permitted Installation;
- 5.1.3.2 cessation of operation of part or all of the Permitted Installation for a period likely to exceed 1 year; and
- 5.1.3.3 resumption of the operation of part or all of the Permitted Installation after a cessation notified under condition 5.1.3.2.

5.1.4 The Operator shall notify the Agency, as soon as reasonably practicable, of any information concerning the state of the Site which adds to that provided to the Agency as part of the Application or to that in the Site Protection and Monitoring Programme submitted under condition 4.1.7 of this Permit.

5.1.5 The Operator shall notify the following matters to the Agency in writing within 14 days of their occurrence:

- 5.1.5.1 where the Operator is a registered company:-
  - any change in the Operator's trading name, registered name or registered office address;
  - any change to particulars of the Operator's ultimate holding company (including details of an ultimate holding company where an Operator has become a subsidiary)
  - any steps taken with a view to the Operator going into administration, entering into a company voluntary arrangement or being wound up;
- 5.1.5.2 where the Operator is a corporate body other than a registered company:
  - any change in the Operator's name or address;
  - any steps taken with a view to the dissolution of the Operator.

- 5.1.5.3 In any other case: -
- the death of any of the named Operators (where the Operator consists of more than one named individual);
  - any change in the Operator's name(s) or address(es);
  - 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 them being in a partnership, dissolving the partnership;
- 5.1.6 Where the Operator has entered into a Climate Change Agreement with the Government, the Operator shall notify the Agency within one month of:-
- 5.1.6.1 a decision by the Secretary of State not to re-certify that Agreement.
- 5.1.6.2 a decision by either the Operator or the Secretary of State to terminate that agreement.
- 5.1.6.3 any subsequent decision by the Secretary of State to re-certify such an Agreement.
- 5.1.7 Where the Operator has entered into a Direct Participant Agreement in the Emissions Trading Scheme which covers emissions relating to the energy consumption of the activities, the Operator shall notify the Agency within one month of:-
- 5.1.7.1 a decision by the Operator to withdraw from or the Secretary of State to terminate that agreement.
- 5.1.7.2 a failure to comply with an annual target under that Agreement at the end of the trading compliance period.
- 5.1.8 The Operator shall notify the Agency in writing, of any known or planned introduction or material emission from the permitted installation to sewer, that may increase the concentration of any "dangerous substance", as defined in List I and List II of the Dangerous Substances Directive, 76/464/EEC, and its daughter directives.

## Interpretation

6.1.1 In this Permit, the following expressions shall have the following meanings:-

*"Annual"* for reporting/sampling means after/during each year and, when sampling, with at least 4 months between each sampling date.

*"Application"* means the application for this Permit, together with any response to a notice served under Schedule 4 to the PPC Regulations and any operational change agreed under the conditions of this Permit.

*"background concentration"* means such concentration of that substance as is present in:

- water supplied to the site; or
- where more than 50% of the water used at the site is directly abstracted from ground or surface water on site, the abstracted water; or
- where the Permitted Installation uses no significant amount of supplied or abstracted water, the precipitation on to the site.

*"BAT"* means best available techniques means the most effective and advanced stage of development of activities and their methods of operation which indicates the practical suitability of particular techniques to prevent and where that is not practicable to reduce emissions and the impact on the environment as a whole. For these purposes: "available techniques" means "those techniques which have been developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable conditions, taking into consideration the cost and advantages, whether or not the techniques are used or produced inside the United Kingdom, as long as they are reasonably accessible to the operator"; "best" means "in relation to techniques, the most effective in achieving a high general level of protection of the environment as a whole" and "techniques" "includes both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned". In addition, Schedule 2 of the PPC Regulations has effect in relation to the determination of BAT.

*"Compliance based on Mass Balance Calculation"* means that for the purposes of demonstrating compliance or non-compliance with a specified limit the release shall be calculated. Annual mass releases for Mercury and Cadmium shall be calculated from the maximum potential concentration of the metal present as contamination multiplied by the volume of the chemicals used on site during the Year. An allowance may be deducted for any proportion of the chemicals used that can be demonstrated not to have reached the emission point. The concentration of Mercury and Cadmium shall be calculated from the annual mass release and the volume of effluent discharged during the Year.

*"Daily"* means, for sampling purposes, a 24 hour period starting at 7.30 am.

*"Fugitive emission"* means an emission to air or water (including sewer) from the Permitted Installation which is not controlled by an emission or background concentration limit under conditions 2.2.1.3, 2.2.2.4, 2.2.2.5, 2.2.2.8 or 2.2.2.9 of this Permit.

*"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.

*"Land Protection Guidance"* means the version of the Agency guidance note "H7 - Guidance on the Protection of Land under the PPC Regime: Application Site Report and Site Protection and Monitoring Programme", including its appended templates for data reporting, which is current at the time of issue of the Permit.

*" $L_{Aeq,T}$ "* means the equivalent continuous A-weighted sound pressure level in dB determined over time period, T.

*" $L_{A90,T}$ "* means the A-weighted sound pressure level in dB exceeded for 90% of the time period, T.



" $L_{AFmax}$ " means the maximum A weighted sound level measurement in dB measured with a fast time weighting.

"*MCERTS*" means the Environment Agency's Monitoring Certification Scheme.

"*Monitoring*" includes the taking and analysis of samples, instrumental measurements (periodic and continual), calibrations, examinations, tests and surveys.

"*Permitted Installation*" means the activities and the limits to those activities described in Table 1.1.1 of this Permit.

"*EP Regulations*" means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

"*Quarterly*" for reporting/sampling means after/during each 3 month period, January to March; April to June; July to September and October to December and, when sampling, with at least 4 weeks between each sampling date.

"*Sewer*" means sewer within the meaning of section 219(1) of the Water Industry Act 1991.

"*Staff*" includes employees, directors or other officers of the Operator, and any other person under the Operator's direct or indirect control, including contractors.

"*Weekly*" means, for sampling purposes, a period of 7 days starting each Monday at 7.30am

"*Year*" means calendar year ending 31 December.

" $mg/m^3$ " means milligramme per cubic metre.

" $\mu g/l$ " means microgramme per litre.

" $mg/l$ " means milligramme per litre.

" $kg$ " means kilogramme.

" $g$ " means gramme

" $t$ " means tonne.

"*MWh*" means megawatt hour.

"*kWh*" means kilowatt hour

"*hl*" means hectalitre

- 6.1.2 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.
- 6.1.3 Unless otherwise stated, any references in this Permit to concentrations of substances in emissions into air means:-
- 6.1.3.1 in relation to gases 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
- 6.1.3.2 in relation to gases 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
- 6.1.4 Where any condition of this Permit refers to the whole or parts of different documents, in the event of any conflict between the wording of such documents, the wording of the document(s) with the most recent date shall prevail to the extent of such conflict.

## Schedule 1 - Notification of abnormal emissions

This page outlines the information that the Operator must provide to satisfy conditions 5.1.1 and 5.1.2 of this Permit.

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.

### Part A *To be notified within 24 hours of detection*

Permit Number	BN3138IG
Name of Operator	Heineken UK Limited
Location of Installation	The Cider Mills, Plough Lane, Hereford, Herefordshire, HR4 0LE
Location of the emission	
Time and date of the emission	

Substance(s) emitted	Media	Best estimate of the quantity or the rate of emission	Time during which the emission took place

Measures taken, or intended to be taken, to stop the emission	
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### 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 or harm which has been or may be caused by the emission	
The dates of any unauthorised emissions from the installation in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

\* authorised to sign on behalf of Heineken UK Limited

## Schedule 2 - Reporting of monitoring data

Parameters for which reports shall be made, in accordance with conditions 4.1.2 and 4.1.3 of this Permit, are listed below.

<b>Table S2: Reporting of monitoring data</b>			
<b>Parameter</b>	<b>Emission point</b>	<b>Reporting period</b>	<b>Period begins</b>
Temperature °C	W1	Quarterly	01/01/06
Borehole Water usage m <sup>3</sup> /year	Permitted Installation	Annual	01/01/06
Towns Water usage m <sup>3</sup> /year	Permitted Installation	Annual	01/01/06
Energy usage MWh	Permitted Installation	Annual	01/01/06
Waste disposal and/or recovery tonnes	Permitted Installation	Annual	01/01/06
R22 refrigerant consumption kg/year	Permitted Installation	Annual	01/01/06
Ammonia refrigerant consumption kg/year	Permitted Installation	Annual	01/01/06
Carbon dioxide consumed tonnes/year	Permitted Installation	Annual	01/01/06
Carbon dioxide recovered tonnes/year	Permitted Installation	Annual	01/01/06

### Schedule 3 - Forms to be used

<b>Table S3: Reporting Forms</b>		
<b>Media / parameter</b>	<b>Form Number</b>	<b>Date of Form</b>
Air	A1	01/01/06
Water (excluding sewer)	W1	01/01/06
Sewer	S1	01/01/06
Energy	E1	01/01/06
Waste return	R1	01/01/06
Water usage	WU1	01/01/06
Mass Release	MR1	01/01/06
Performance indicators	PI1	01/01/06

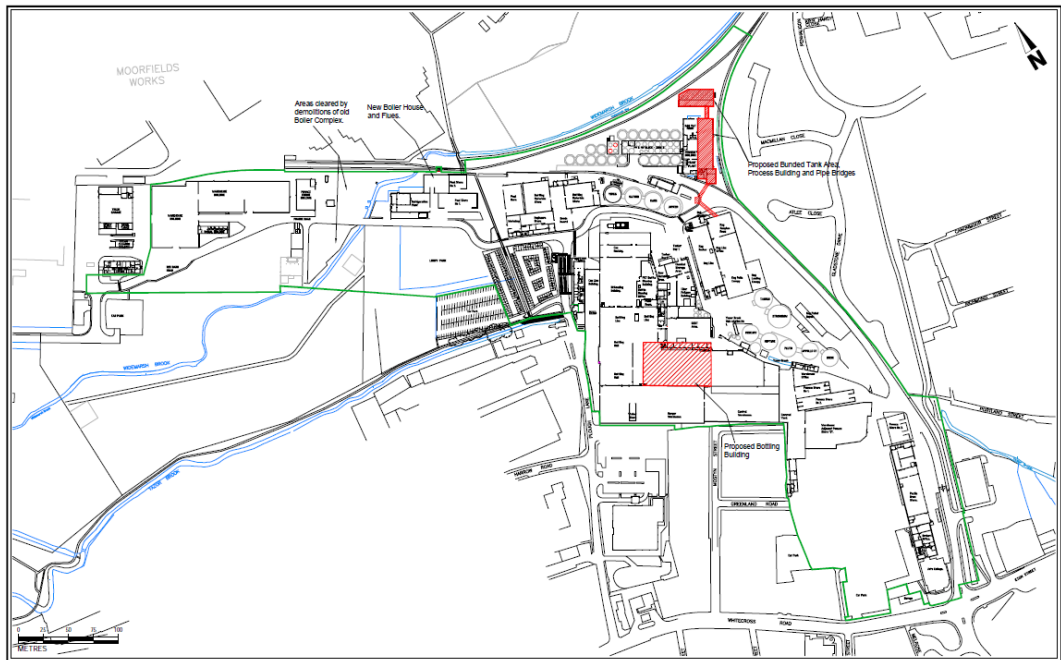
## Schedule 4 - Reporting of performance data

Data required to be recorded and reported by Condition 4.1.3. The data should be assessed at the frequency given and reported annually to the Agency.

<b>Table S4.1: Annual Production/Treatment</b>	
Production of cider	Tonnes (t)
Production of cider	Litres (l)
Production of cider	Hectalitres (hl)

<b>Table S4.2: Performance parameters</b>		
<b>Parameter</b>	<b>Frequency of assessment</b>	<b>Performance indicator</b>
Total water usage	Annual	l water / l product
Energy consumption	Annual	MWh energy / t product (excluding weight of packaging)
Effluent production	Annual	m <sup>3</sup> effluent / hl cider
Waste disposal	Annual	t waste / t product (excluding weight of packaging)
Product loss or wastage	Annual	% of total finished product

## Schedule 5 - Site Plan



END OF PERMIT