

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Britvic Soft Drinks Limited
Britvic Soft Drinks Norwich
Carrow Works
Kings Street
Norwich
Norfolk
NR1 2DD

Variation application number

EPR/TP3332PM/V003

Permit number

EPR/TP3332PM

Britvic Soft Drinks Norwich

Permit number EPR/TP3332PM

Introductory note

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

Under the Environmental Permitting (England & Wales) Regulations 2010 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made.

Only the variations specified in schedule 1 are subject to a right of appeal.

This variation includes the addition of Section 5.4 Part A(1)(a)(ii) activity for effluent treatment originally assessed and included in the EPR permit as part of directly associated activities. This activity change is as a result of the operators discharge consent being formerly reviewed by the sewage undertaker who will be enforcing new trade effluent discharge consent limits for pH, including reductions in consented limits for COD, Suspended Solids and Sulphates. To ensure the facility complies with these limits the temporary effluent treatment system consisting of a diesel pumped underground storage tank and 100m³ treatment tank has been replaced with a permanent gravity fed system designed to deliver a 50% energy efficiency and a reduction of 30% use in chemicals.

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 the permit		
Description	Date	Comments
Application TP3332PM (EPR/TP3332PM/A001)	Received 22/03/05 & 11/04/05	
Permit determined	04/11/05	
Variation Application EPR/TP3332PM/V002	Received 30/11/2009	
Further information request by email	18/02/10	Received 03/03/10
Further information request by email	08/03/10	Received 08/03/10
Site Plan provided electronically	09/03/10	
Variation issued	27/07/10	
Application EPR/TP3332PM/V003 (variation and consolidation)	Duly made 12/03/15	Application to vary the permit to upgrade existing effluent treatment plant and include effluent treatment as a Schedule 1 listed activity. The permit is additionally consolidated at the request of the operator and registered address amended.
Variation determined EPR/TP3332PM	03/06/15	Varied and consolidated permit issued.

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 regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

Permit number

EPR/TP3332PM

Issued to

Britvic Soft Drinks Limited (“the operator”)

whose registered office is

**Breakspear Park
Breakspear Way
Hemel Hempstead
Essex
HP2 4TZ**

company registration number 00517211

to operate a regulated facility at

**Britvic Soft Drinks Norwich
Carrow Works
Kings Street
Norwich
Norfolk
NR1 2DD**

to the extent set out in the schedules.

The notice shall take effect from 03/06/2015

Name	Date
S Paterson	03/06/2015

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions were varied as a result of an Environment Agency initiated variation to reflect the new requirements of the Environmental Permitting Regulations introduced by the Industrial Emissions Directive.

2.10.2 (IED Condition requirement)

5.1.1 (IED Condition requirement)

5.1.2 (IED Condition requirement)

6.1.1 (Add IED interpretation)

Schedule 1 (Updated reporting Form)

The following conditions were varied as a result of the application made by the operator:

Table 1.1.1 (Amend permitted activities table to include new Schedule 1 activity)

Table 1.4.1 (Amend Improvement Programme table to show completed and include IP8)

Table 2.1.1 (Amend Operating techniques to include variation)

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/TP3332PM

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/TP3332PM/V003 authorising,

Britvic Soft Drinks Limited ("the operator"),

whose registered office is

**Breakspear Park
Breakspear Way
Hemel Hempstead
Essex
HP2 4TZ**

company registration number 00717211

to operate an installation at

**Britvic Soft Drinks Norwich
Carrow Works
Kings Street
Norwich
Norfolk
NR1 2DD**

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

Name	Date
S Paterson	03/06/2015

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.

Table 1.1.1 Permitted activities

Activity listed in Schedule 1 of the PPC Regulations / Associated Activity	Description of specified activity	Limits of specified activity
Section 6.8 Part A (1) d(ii): Treating and processing materials intended for the production of food products from vegetable raw materials at plant with a finished product production capacity of more than 300 tonnes per day (average value on a quarterly basis)	Four lines processing raw materials to produce concentrated soft drinks. (Lines 11,12 ,13 & 14 producing Robinson's squash) Four lines processing raw materials to produce ready to drink soft drinks. (Lines 5,6,7 & 8 producing Fruit Shoots, H2o & Drench)	Use of raw materials to creation of finished product.
Section 5.4 Part A (1) (a) (ii) Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving physico-chemical treatment, and excluding activities covered by Council Directive 91/271/EEC concerning urban waste-water treatment	Primary effluent treatment D9 Physico-chemical treatment resulting in final compounds or mixtures which are discarded by any of the operations numbered D1 to D12	From the generation of effluent to disposal to sewer. 75m ³ /hr (45l/s) and 1200m ³ /day Max.
Associated activity	Storage and recipient of raw materials.	Recipient of raw materials to use within the listed activities.
Associated activity	Storage and dispatch of finished products.	Creation of finished product to dispatch.
Associated activity	Storage and handling of waste materials.	Creation of waste to removal from the installation.
Associated activity	Operation of boilers.	Operation of 1 duty gas fired 10.5 MW boiler and 1 standby gas fired 10.5 MW boiler for the generation of hot water and steam. From receipt of fuel to release of waste gases from chimney. There is a fuel oil backup.
Associated activity	Water treatment	Treatment of water

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 blue on the Site Plan at Schedule 5 to this Permit, which is within the area edged in pink on the Site Plan that represents the extent of the installation covered by 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
1	<p>The operator shall carry out a review the current method of monitoring used to determine effluent concentrations for the parameters listed in table 2.2.5 at release point W1 and W2. This review shall compare the current method against the minimum requirements for the self monitoring of effluent flow set out within Section 5 of the Agency Guidance Note M18: Monitoring of Discharges to Water and Sewer, Version 1, July 2004.</p> <p>A report detailing the findings of the review, recommendations to reach the minimum standards, and implementation timetable shall be submitted to the Agency for approval.</p>	Completed
2	<p>The Operator shall implement a formal, documented procedure for the inspection and subsequent maintenance of impervious surfaces and bunds with the purpose of preventing fugitive releases to surface water/ground water. The procedure will take into account the requirements of the Sector Guidance Note IPPC S6.10, August 2003. A written report summarising the findings shall be submitted to the Agency. A time-scale for implementation of any improvements shall be proposed in this report. Following written approval by the agency these improvements shall be implemented.</p>	Completed
3	<p>The Operator shall implement a formal, documented procedure for the inspection and subsequent maintenance of above ground and underground tanks, drains, pipes and collection pits with the purpose of preventing fugitive releases to ground. The procedure will take into account the requirements of the Sector Guidance Note IPPC S6.10, August 2003. A written report summarising the findings shall be submitted to the Agency. A time-scale for implementation of any improvements shall be proposed in this</p>	Completed

	report. Following written approval by the agency these improvements shall be implemented.	
4	The operator shall implement a noise management plan. The noise management plan shall have regard to Section 2.9 of Sector Guidance Note S6.10, August 2003 and shall propose methods to reduce the noise levels at the sensitive receptors to a level where complaints would not be expected. The operator shall submit a written report to the Agency providing a detailed action plan for improvements, and a timetable for the implementation of these improvements.	Completed
5	The Operator shall submit a written report to the Environment Agency that summarises a review of the provision of MCERTS accreditation for the monitoring equipment, personnel and organisations employed for the emissions monitoring program in condition 2.10.1. The report shall also propose a timetable for achieving this standard for any elements that are not MCERTS certified.	Completed
6	The Operator shall review the Site Closure Plan against the requirements of Section 2.11 of the Agency Guidance Note IPPC S6.10, August 2003 and address any shortfalls. Upon completion of the review and revision of the plan, if necessary, a summary of the document shall be submitted to the Agency in writing.	Completed
7	The operator shall carry out a review the current method of monitoring used to determine effluent flow at release point W1. This review shall compare the current method against the minimum requirements for the self monitoring of effluent flow set out within Section 5 of the Agency Guidance Note M18: Monitoring of Discharges to Water and Sewer, Version 1, July 2004. A report detailing the findings of the review, recommendations to reach the minimum standards, and implementation timetable shall be submitted to the Agency for approval.	completed
8	The operator shall undertake a review of techniques used for reducing product losses to the effluent treatment plant and submit a written report to the Environment Agency detailing effects on the resulting effluent quality/quantity including the use of raw materials used for treatment. The plan must contain dates for the implementation of individual measures for reduction of product loss where identified. The notification requirements of condition 1.4.1 will be deemed to have been complied with on submission of the plan. You must implement the plan as approved, and from the date stipulated by the Environment Agency.	08/01/16

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 There are no pre-operational conditions

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 the application from PCPC1 Part B	22/03/05 & 11/04/05
Variation Application	The responses given in Part C to questions 1b, 1c, 2a, 2b, 3, 4a of the application form.	30/11/2009
Variation Application EPR/T3332PM/V003	The response to questions in section 3, form EPC – Part C3 of the application form and Sections 1B, 1H, 1J, 1K of the application document.	28/10/2014

- 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 source(s) specified in that Table.

Table 2.2.1 : Emission points to air

Emission point reference or description	Source	Location of emission point
A1 [Point A1 on drawing reference Sites 11c]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Brick stack off Wellman Robey boilers
A2 [Point A2 on drawing reference Sites 09b]	Particulate matter	External surface filter on the vent for the sugar silo.
A3 [Point A3 on drawing reference Sites 09b]	Particulate matter	External surface filter on the vent for the citric silo

2.2.1.3 The limits for emissions to air for the parameter and emission points set out in Table 2.2.2 shall not be exceeded.

Table 2.2.2 : Emission limits to air and monitoring

Emission point reference	Parameter	Limit (including Reference Period)¹	Monitoring frequency	Monitoring method
A1	Oxides of Nitrogen	No limit set	Annual	Monitoring method in accordance with the Environment Agency's M2 technical guidance.
A2	Oxides of Nitrogen	No limit set	-	-
A3	Oxides of Nitrogen	No limit set	-	-

Note 1: See Section 6 for reference conditions

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.

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(s) specified in Table 2.2.4 shall only arise from the sources specified in that Table

Table 2.2.4: Emission point to water

Emission point reference or description	Source	Receiving water
W1 on drawing reference Sites25D	M1 Cooling water for CSD pasteurisers & M8 Cooling water from sugar dissolving process (on site plan)	River Wensum
W2 on drawing reference Sites25D	M2 Water from the cooling air handling units in CSD	River Wensum
W3 on drawing reference Sites25D	M3, M4 & M5 – Reject flow of reverse osmosis water plants 1-12	River Wensum
W4 on drawing reference Sites25D	M6 Cooling water for RTD pasteurisers	River Wensum
W5 on drawing reference Sites25D	M7 Spring Water	River Wensum
W6 on drawing reference Sites25D	Surface water runoff	River Wensum
W7 on drawing reference Sites25D	Surface water runoff	River Wensum
W8 on drawing reference Sites25D	Surface water runoff	River Wensum
W9 on drawing reference Sites25D	Surface water runoff	River Wensum
W10 on drawing reference Sites25D	Surface water runoff	River Wensum
W11 on drawing reference Sites25D	Surface water runoff	River Wensum
W12 on drawing reference Sites25D	Surface water runoff	River Wensum
W13 on drawing reference Sites25D	Surface water runoff	River Wensum
W14 on drawing reference Sites25D	Surface water runoff	River Wensum
W15 on drawing reference Sites25D	Surface water runoff	River Wensum

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 Where a substance is specified in Table 2.2.5 but no limit is set for it, the concentration of such substance in emissions to water from the relevant emission point shall be no greater than the background concentration

Table 2.2.5 : Emission limits to water and monitoring				
Emission point reference	Parameter	Limit (including reference period)	Monitoring frequency	Monitoring method
W1	Volume	7,200 m3 per 24 hour rolling average	Continuous	Monitoring methods in accordance with the Environment Agency's M18 technical guidance note Monitoring discharges to water and sewer, unless otherwise agreed in writing with the Environment Agency
W1	Volume	1,350,000 m3 per year	Continuous	
W1	Temperature	Less than 25 oC	Monthly	
W1	pH	6-9	Monthly	
W1	COD	No limit set	Monthly	
W1	Chloroform	12 ug/l	Annual	
W1	Perchloroethylene	10 ug/l	Annual	
W1	Trichlorethylene	10 ug/l	Annual	
W1	Mercury and its compounds (expressed as mercury)	0.05 ug/l	Annual	
W2	<i>Volume</i>	100 m3/day	<i>Continuous</i>	
W2	Temperature	Less than 25 oC	Monthly	
W2	pH	6-9	Monthly	
W2	COD	No limit set	Monthly	
W3	Volume	1800 m3/day	Continuous	

W3	Temperature	Less than 25 oC	Monthly
W3	pH	6-9	Monthly
W3	COD	No limit set	Monthly
W3	Chloroform	12 ug/l	Annual
W3	Perchloroethylene	10 ug/l	Annual
W3	Trichlorethylene	10 ug/l	Annual
W3	Mercury and its compounds (expressed as mercury)	0.05 ug/l	Annual
W4	Volume	900 m3/day	Continuous
W4	Temperature	Less than 25 oC	Monthly
W4	pH	6-9	Monthly
W4	COD	No limit set	Monthly
W5	Volume	80 m3/day	Continuous
W5	Temperature	Less than 25 oC	Monthly
W5	pH	6-9	Monthly
W5	COD	No limit set	Monthly

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 source specified in that Table.

Table 2.2.7 Emission points to sewer

Emission point reference or description	Source	Sewer
S1	Trade effluent and surface water combined sewer.	Anglian Water – King Street, Norwich

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.

2.2.6.2 No condition applies.

2.2.6.3 No condition applies.

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 condition applies.

2.2.7.3 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 1 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.

2.6.4 No condition applies.

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 30 October 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 Permitted 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 2.2.2 and 2.2.5, 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 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.

2.10.3 No condition applies.

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 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.

2.11 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 Permitted 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 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,

Notifications

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.

Interpretation

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

“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.

“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.

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

“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.

“*PPC Regulations*” means the Pollution, Prevention and Control (England and Wales) Regulations SI 2000 No.1973 (as amended) and words and expressions defined in the PPC Regulations shall have the same meanings when used in this Permit save to the extent they are specifically defined in this Permit.

“*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.

“*Year*” means calendar year ending 31 December.

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

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

“*Hourly average*” means the average value from continuous monitoring over each 60 minute period starting on the hour at 1.00, 2.00 etc.

“*24 hour rolling average*” means the average of the previous 24 hourly averages and is determined each hour at 1.00, 2.00 etc.

“*Daily average*” means the average of continuous monitoring with a data logging interval of 10 seconds over a day, 00.00 to 24.00.

“*mg/m³*” means milligramme per cubic metre.

“*mg/l*” means milligramme per litre.

“*kg*” means kilogramme.

- 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.

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 PPC 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 immediately	
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	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to	

be taken, to stop the emission	
--------------------------------	--

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

(c) 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 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.

Table S2: Reporting of monitoring data			
Parameter	Emission point	Reporting period	Period begins
Temperature	W1, W2, W3, W4 & W5	Quarterly	01/08/10 Unless otherwise agreed in writing with the Environment Agency.
pH	W1, W2, W3, W4 & W5	Quarterly	01/08/10 Unless otherwise agreed in writing with the Environment Agency.
COD	W1, W2, W3, W4 & W5	Quarterly	01/08/10 Unless otherwise agreed in writing with the Environment Agency.
Oxides of nitrogen	A1	Annual	01/08/10 Unless otherwise agreed in writing with the Environment Agency.
Chloroform	W1, W2, W3, W4 & W5	Annual	01/08/10 Unless otherwise agreed in writing with the Environment Agency.
Mercury	W1, W2, W3, W4 & W5	Annual	01/08/10 Unless otherwise agreed in writing with the Environment Agency.
Perchloroethylene	W1, W2, W3, W4 & W5	Annual	01/08/10 Unless otherwise agreed in writing with the Environment Agency.
Trichloroethylene	W1, W2, W3, W4 & W5	Annual	01/08/10 Unless otherwise agreed in writing with the Environment Agency.

Schedule 3 - Forms to be used

Table S3: Reporting Forms		
Media / parameter	Form number	Date of form
Air	A1	
Water (excluding sewer)	W1	
Performance indicators	PI1	

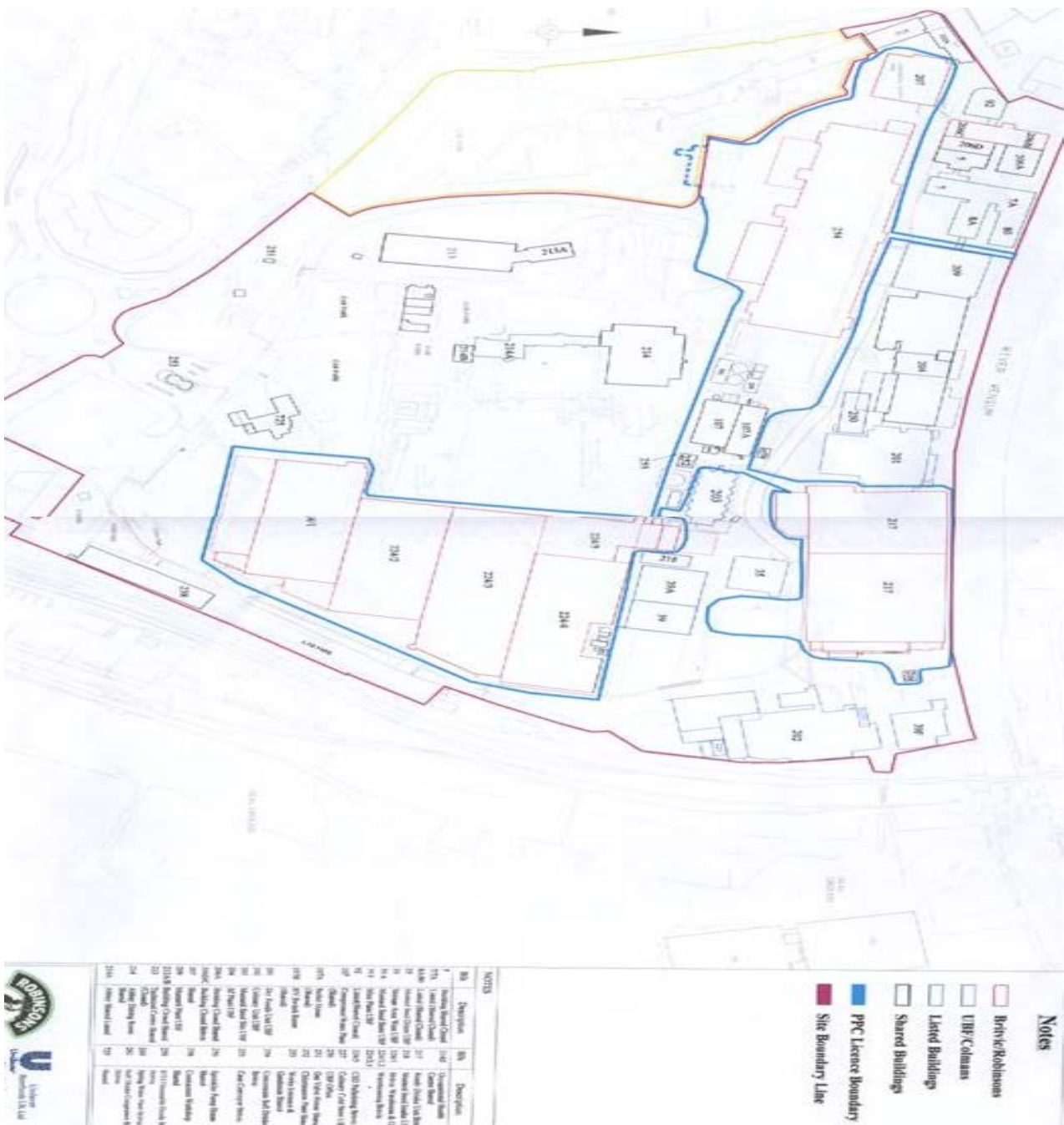
Schedule 4 - Reporting of performance data

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.

Table S4.1: Annual Production/Treatment	
Annual production of fruit shoot (tonnes)	
Annual production of fruit Spring (tonnes)	
Annual production of concentrated soft drinks (tonnes)	

Table S4.2: Performance parameters			
Parameter	Frequency assessment	of	Performance indicator
Potable water use	Annual		m ³
Non potable water use	Annual		m ³
Waste Hazard Score	<i>Quarterly</i>		
Waste Disposal Score	<i>Quarterly</i>		

Schedule 5 - Site plan



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