



Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Anti-Waste Limited

Buckden Effluent Treatment Plant
Station Farm
Brampton Road
Buckden
St Neots
Cambridgeshire
PE19 5UH

Variation application number

EPR/GP3431LF/V005

Permit number

EPR/GP3431LF

Buckden Effluent Treatment Plant

Permit number EPR/GP3431LF

Introductory note

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

The following gives notice of the variation and consolidation of this environmental permit. We have issued this variation to consolidate the original permit and subsequent variations and to update some of the conditions following a statutory review of permits in the landfill sector that includes standalone leachate treatment plants. We have also converted the permit into the current EPR permit format using modern conditions.

The Environment Agency has a duty, under the Environmental Permitting (England and Wales) Regulations 2016, regulation 34(1), to periodically review permits. As a result of that review we have identified a number of necessary changes we must make to the permit to reflect current legislation and best practice.

Schedule 1 to this notice summarises the changes we have made to this permit.

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

Status log of the permit		
Description	Date	Comments
Application EPR/GP3431LF/A001	Duly made 31/07/2006	
Permit EPR/GP3431LF determined	30/03/2017	Permit issued to Anti-Waste Limited
Environment Agency initiated variation EPR/GP3431LF/V002 determined	07/11/2013	Environment Agency initiated variation to implement the changes introduced by IED
Variation Application EPR/GP3431LF/V003	Duly made 02/03/2015	Application to vary maximum daily discharge volume from 200m ³ /day to 330m ³ /day
Variation EPR/GP3431LF/V003 determined	20/05/2015	Varied and consolidated permit issued to Anti-Waste Limited
Variation Application EPR/GP3431LF/V004	Duly made 18/08/2016	Variation application to remove a leachate storage tank and install two new tanks to increase the leachate storage limit to add a sand filter to the leachate treatment plant.
Variation EPR/GP3431LF/V004 determined PAS Billing Ref: AP3538DZ	02/09/2016	
Environment Agency Landfill Sector Review Permit reviewed Variation determined EPR/GP3431LF/V005 Permit EPR/GP3431LF Billing/PAS Ref: QP3130JF	13/03/2018	Varied and consolidated permit issued in modern condition format

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates

Permit number

EPR/GP3431LF

Issued to

Anti-Waste Limited (“the operator”)

whose registered office is

**Ground Floor West
900 Pavilion Drive
Northampton Business Park
Northampton
NN4 7RG**

company registration number **01569257**

to operate a regulated facility at

**Buckden Effluent Treatment Plant
Station Farm
Brampton Road
Buckden
St Neots
Cambridgeshire
PE19 5UH**

to the extent set out in the schedules.

The notice shall take effect from **13/03/2018**

Name	Date
Philip Lamb	13/03/2018

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation. The following table summarises the latest changes to the permit template, however your permit may contain more changes than this where your permit has not been varied to recent template conditions.

Condition	Description of change
2.4	Condition added to ensure that all plant, equipment and pipe work on site is installed to an appropriate standard, consistent with the requirements of a landfill permit with an associated leachate treatment plant
3.1.3	New condition added for all installations subject to the Industrial Emissions Directive (IED) requiring periodic monitoring of groundwater and soil.
4.2.2	Amended to ensure that information on 'annual production/ treatment' (Schedule 4, Table S4.2) is provided in February each year.
4.2.2(a)	Text expanded to clarify the details we require in a performance report.
4.3.1	Generic notifications condition added.
Schedules	
Table S4.3	Amended to include natural gas as an energy source for consistency with other sectors.
Schedule 6	Definitions added to clarify meaning of: Exceeded Hazardous substance Previous year

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/GP3431LF

This is the consolidated permit referred to in the variation and consolidation notice for application **EPR/GP3431LF/V005** authorising,

Anti-Waste Limited (“the operator”),

whose registered office is

**Ground Floor West
900 Pavilion Drive
Northampton Business Park
Northampton
NN4 7RG**

company registration number **01569257**

to operate an installation at

**Buckden Effluent Treatment Plant
Station Farm
Brampton Road
Buckden
St Neots
Cambridgeshire
PE19 5UH**

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

Name	Date
Philip Lamb	13/08/2018

Authorised on behalf of the Environment Agency

1. Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Energy efficiency

- 1.2.1 The operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) Review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) Implement any appropriate measures identified by a review.

1.3 Efficient use of raw materials

- 1.3.1 The operator shall:
- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
 - (b) maintain records of raw materials and water used in the activities;
 - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
 - (d) take any further appropriate measures identified by a review.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

- 1.4.1 The operator shall:
- (a) take appropriate measures to ensure that waste produced by the activities is avoided or reduced, or where waste is produced it is recovered wherever practicable or otherwise disposed of in a manner which minimises its impact on the environment;
 - (b) review and record at least every four years whether changes to those measures should be made; and
 - (c) take any further appropriate measures identified by a review.

2. Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1, table S1.1 (the “activities”).

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in red on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2, table S2.1 shall conform to the specifications set out in that table
- 2.3.4 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.

2.4 Engineering

- 2.4.1 No construction of infrastructure shall commence until the operator has submitted relevant construction proposals or a written request to use previous construction proposals to the Environment Agency and the Environment Agency has confirmed that it is satisfied with the construction proposals.
- 2.4.2 The construction of the infrastructure shall take place only in accordance with the approved construction proposals unless:
- (a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or
 - (b) a change has otherwise been agreed in writing by the Environment Agency.
- 2.4.3 The operator shall submit a CQA Validation Report within four weeks of the completion of the construction of the relevant infrastructure or other time period agreed in writing with the Environment Agency.

- 2.4.4 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.4.1 and 2.4.2 do not apply and the relevant infrastructure may be constructed, provided that the construction proposals are submitted to the Environment Agency as soon as practicable.
- 2.4.5 For the purposes of conditions 2.4.1 and 2.4.3 the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the relevant construction proposals or CQA Validation Report, either:
- (a) confirmed whether or not it is satisfied; or
 - (b) informed the operator that it requires further information.
- 2.4.6 Where the Environment Agency has required further information under condition 2.4.5(b), the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the further information, either:
- (a) confirmed whether or not it is satisfied; or
 - (b) informed the operator that it requires further information.

2.5 Waste acceptance

- 2.5.1 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2, table S2.2; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.

3. Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 The limits in schedule 3 shall not be exceeded.
- 3.1.2 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3, table S3.1 or S3.2.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on systematic appraisal of the risk of contamination

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring and any other actions specified in the following tables in schedule 3 to this permit:
 - (a) Point source emissions specified in table S3.1 and S3.2;
 - (b) Other surface water monitoring in table S3.3; and
 - (c) Process monitoring specified in table S3.4.
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3, tables S3.1, S3.2 and S3.3 unless otherwise agreed in writing by the Environment Agency.

4. Information

4.1 Records

- 4.1.1 All records required to be made by this permit shall:
- (a) be legible;
 - (b) be made as soon as reasonably practicable;
 - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
 - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

- 4.2.1 The operator shall send reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31st January each year or such other date as may be agreed in writing by the Agency, with the exception of 4.2.2(b) that must be provided by the end of February each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with this permit against the relevant assumptions, parameters and results in the risk assessments submitted in relation to this activity and any agreed amendments thereto. The review will include written descriptions of the improvements made to operational performance during the year, action plans developed and planned improvements for the coming year;
 - (b) the annual production/treatment set out in schedule 4, table S4.2;
 - (c) the energy consumed at the site, reported in the format set out in schedule 4, table S4.3
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4, table S4.1;
 - (b) using the forms specified in schedule 4, table S4.4 or other reporting format as agreed in writing with the Environment Agency; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 Within one month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.
- 4.2.5 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.3 Notifications

4.3.1 In the event:

- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
 - (i) inform the Environment Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident; and
 - (iii) take the measures necessary to prevent further possible incidents or accidents.
- (b) of a breach of any permit condition the operator must immediately—
 - (i) inform the Environment Agency; and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time.
- (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (c) the death of any of the named operators (where the operator consists of more than one named individual);
- (d) any change in the operator's name(s) or address(es); and
- (e) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.4 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made “immediately”, in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities				
Activity reference	WFD Annex I and II operations (where applicable)	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
A1	D8 – Biological treatment of waste	Section 5.4, Part A(1)(a)(i), Biological treatment of non-hazardous waste	Treatment of leachate and aqueous liquids in a facility with a capacity of >50 tonnes/ day – Aerobic treatment in Sequencing Batch Reactor (SBR). Tank 1	<p>Receipt of up to 165m³/day of leachate and other aqueous liquids of the types and quantities specified in table S2.2 for biological treatment.</p> <p>Settlement of raw leachate and other aqueous liquids, then discharge of settled effluent to sump PC2 in a time sequence.</p> <p>Maximum storage capacity 1000m³</p>
A2	D8 – Biological treatment of waste	Section 5.4, Part A(1)(a)(i), Biological treatment of non-hazardous waste	Treatment of leachate and aqueous liquids in a facility with a capacity of >50 tonnes/ day – Aerobic treatment in Sequencing Batch Reactor (SBR). Tank 2	<p>Receipt of up to 165m³/day of leachate and other aqueous liquids of the types and quantities specified in table S2.2 in: for biological treatment.</p> <p>Settlement of raw leachate and other aqueous liquids, then discharge of settled effluent to sump PC2 in a time sequence.</p> <p>Maximum storage capacity 1000m³</p>
A3	D8 – Biological treatment of waste	Section 5.4, Part A(1)(a)(i), Biological treatment of non-hazardous waste	Treatment of leachate and aqueous liquids in a facility with a capacity of >50 tonnes/ day – Biological treatment in Reed Bed 1.	<p>Receipt of up to 330m³/day of biologically treated effluent from the SBR tanks. Treated effluent is discharged to discharge chamber PC3.</p> <p>Maximum Storage capacity 1000m³</p>

Table S1.1 activities				
Activity reference	WFD Annex I and II operations (where applicable)	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
A4	D8 – Biological treatment of waste	Section 5.4, Part A(1)(a)(i), Biological treatment of non-hazardous waste	Treatment of leachate and aqueous liquids in a facility with a capacity of >50 tonnes/ day – Biological treatment in Reed Bed 2.	Treatment of effluent from the ozone plant (activity A5). Maximum Storage capacity 250m ³
A5	D9 – Physico-chemical treatment of waste	Section 5.4, Part A(1)(a)(ii), Physico-chemical treatment of non-hazardous waste	Treatment of leachate and aqueous liquids in a facility with a capacity of >50 tonnes/ day – Physico-chemical treatment via ozonation treatment	Treatment of treated leachate from Reed Bed No.1 in three 5m ³ contact tanks. Treated effluent is discharged to sump PC4.
Directly Associated Activities				
A6	N/A	-	Temporary storage of waste (leachate)	Storage of leachate and aqueous liquids consisting of the types and quantities specified in table S2.2 in: <ul style="list-style-type: none"> • Reception holding tank – limited to 50m³ at any one time. • Mixed leachate holding tank – limited to 50m³ at any one time.
A7	D6 – release to water body except seas/ oceans	-	Discharges of treated effluent to the River Great Ouse	Discharge of up to 330m ³ /day from point W1 'discharge point'.
A8	N/A	-	Storage of raw materials	Storage of Sodium Hydroxide, Phosphoric acid and anti-foaming agent
A9	N/A	-	Production of ozone in ozonation plant	Production of ozone for treating leachate in the three 5m ³ contact tanks
A10	D13 - Blending or mixing prior to submission to any of the operations numbered D1 to D12	-	Blending of non-hazardous waste prior to treatment	Blending wastes within the tanker reception holding tank of waste types listed in Table S2.2.

Table S1.1 activities				
Activity reference	WFD Annex I and II operations (where applicable)	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
A11	N/A	-	Pipe work between the leachate treatment plant and public sewerage system	From the point of discharge from the leachate treatment plant to the point where it leaves land under the control of the Operator.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/GP3431LF/A001	The response to section 2.1, excluding 2.1.3 and 2.1.5, 2.2, 2.3, 2.4 and 2.10 in section B of the Application form; and referenced supporting information.	31/07/06
Receipt of additional information to the application	<ul style="list-style-type: none"> • Drawing 604L033 • Groundwater Quality • Capacities for storage vessels and tanks • Details of hardstanding • Caustic soda tank bunding information • Confirmation of ISO14001 accreditation • Mercury free Sodium hydroxide used on site • Actual monthly suspended solids figures in discharge • Contaminant levels in raw leachate feed • Pre-acceptance procedures Confirmation of planning permission.	28/12/06
Receipt of additional information to the application	<ul style="list-style-type: none"> • The design drawing 20/80/SP • MAY Gurney designs for concrete foundations Integrity of the caustic soda tank.	10/01/07
Agreement under IC4	Secondary containment of the phosphoric acid storage containers.	03/08/07
Agreement under IC5	The inspection methodology and subsequent maintenance of all:	03/08/07

Table S1.2 Operating techniques		
Description	Parts	Date Received
	<ul style="list-style-type: none"> • Subsurface structures • Site Surfacing • Above ground tanks and storage vessels • All pipework and connections • Other site infrastructure requiring inspection and maintenance. 	
Agreement under IC6	Written procedures for the assessment of waste prior to acceptance on the site, including the process of accepting new leachate for treatment at the Installation.	17/08/07
Agreement under IC8	Operating procedures for the plant when operating under one Sequencing Batch Reactor.	17/08/07
Agreement under IC7	Accident management plan	29/08/07
Application EPR/GP3431LF/V003	Variation Supporting Document, Table 3: Technical standards – leachate treatment. Duly made response: item 8.	02/03/15
Application EPR/GP3431LF/V004	Part C2 and C3 of the application and referenced supporting documentation.	04/07/16
Application EPR/GP3431LF/V004 Further information	Email and attached documents confirming the specifications of the new tanks and associated bunding.	18/08/16

Schedule 2 – List of permitted wastes

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Sodium Hydroxide	Mercury Free

Table S2.2 Permitted waste types and quantities for biological treatment	
Maximum quantity	120,000 tonnes per annum Maximum storage on site at any one time 4000 m ³
Waste code	Description
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 10	aqueous liquid wastes destined for off-site treatment
16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01
16 10 04	aqueous concentrates other than those mentioned in 16 10 03
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION/INDUSTRIAL USE
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 03	premixed wastes composed only of non-hazardous wastes
19 06	wastes from anaerobic treatment of waste
19 06 03	liquor from anaerobic treatment of municipal waste
19 06 05	liquor from anaerobic treatment of animal and vegetable waste
19 07	landfill leachate
19 07 03	Landfill leachate other than those mentioned in 19 07 02
19 13	wastes from soil and groundwater remediation
19 13 08	aqueous liquid wastes and aqueous concentrates from groundwater remediation other than those mentioned in 19 13 07

Schedule 3 – Emissions and monitoring

Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
Ozonation Plant	Ozone	Ozone reaction tanks	-	Spot sample	6 monthly	-

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 Emission to River Great Ouse. Pump Chamber PC5	Effluent Treatment Plant	Total daily volume of discharge	330 m ³ /day	Integrated daily flow rate	Continuous	MCERTS self-monitoring of effluent flow scheme
W1 Emission to River Great Ouse. Pump Chamber PC5	Effluent Treatment Plant	pH	6 - 9	Instantaneous	Weekly	SCA blue book 14
W1 Emission to River Great Ouse. Pump Chamber PC5	Effluent Treatment Plant	Ammoniacal Nitrogen (Expressed as N)	4 mg/l	Spot sample	Monthly	SCA blue book 48
W1 Emission to River Great Ouse. Pump Chamber PC5	Effluent Treatment Plant	Suspended Solids	25 mg/l	Spot sample	Monthly	SCA blue book 105
W1 Emission to River Great Ouse. Pump Chamber PC5	Effluent Treatment Plant	BOD	20 mg/l	Spot sample	Monthly	BS EN 1899-1

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 Emission to River Great Ouse. Pump Chamber PC5	Effluent Treatment Plant	Total Phosphorous as P	No limit set	Spot sample	Monthly	BS ISO 15681-1
W1 Emission to River Great Ouse. Pump Chamber PC5	Effluent Treatment Plant	Iron	No limit set	Spot sample	Monthly	SCA blue book 163
W1 Emission to River Great Ouse. Pump Chamber PC5	Effluent Treatment Plant	Total Chloride	No limit set	Spot sample	Monthly	SCA blue book 51
W1 Emission to River Great Ouse. Pump Chamber PC5	Effluent Treatment Plant	Sulphate	No limit set	Spot sample	Monthly	SCA blue book 136
W1 Emission to River Great Ouse. Pump Chamber PC5	Effluent Treatment Plant	Zinc	No limit set	Spot sample	Monthly	SCA blue book 163
W1 Emission to River Great Ouse. Pump Chamber PC5	Effluent Treatment Plant	Manganese	No limit set	Spot sample	Monthly	SCA blue book 163
W1 Emission to River Great Ouse. Pump Chamber PC5	Effluent Treatment Plant	Lead	No limit set	Spot sample	Monthly	SCA blue book 163
W1 Emission to River Great Ouse. Pump Chamber PC5	Effluent Treatment Plant	Arsenic	No limit set	Spot sample	Monthly	BS EN 26595:1993
W1 Emission to River Great Ouse. Pump Chamber PC5	Effluent Treatment Plant	Copper	No limit set	Spot sample	Monthly	SCA blue book 163

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 Emission to River Great Ouse. Pump Chamber PC5	Effluent Treatment Plant	Isoproturon	No limit set	Spot sample	Monthly	Gas chromatography and mass spectrometry (UKAS accredited lab)
W1 Emission to River Great Ouse. Pump Chamber PC5	Effluent Treatment Plant	Mecoprop	No limit set	Spot sample	Monthly	
W1 Emission to River Great Ouse. Pump Chamber PC5	Effluent Treatment Plant	Mercury	No limit set	Spot sample	Monthly	SCA blue book 163
W1 Emission to River Great Ouse. Pump Chamber PC5	Effluent Treatment Plant	Cadmium	No limit set	Spot sample	Monthly	SCA blue book 163

Table S3.3 Surface water – other monitoring requirements				
Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
MP1 Upstream of final discharge point to River Great Ouse MP2 Downstream of final discharge point to River Great Ouse	Ammoniacal nitrogen Chloride Suspended solids Visual oil and grease pH Electrical conductivity	Monthly	Spot sample	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <u>risk assessments for your environmental permit (www.gov.uk)</u> or such other subsequent guidance as may be agreed in writing with the Environment Agency

Table S3.4 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Within Sequencing Batch Reactor (SBR) tanks	Ammoniacal Nitrogen (Expressed as N)	Daily	-	-
Within Sequencing Batch Reactor (SBR) tanks	pH	Continuous	-	-
Within Sequencing Batch Reactor (SBR) tanks	Temperature	Continuous	-	-
SBR effluent	Nitrate	Daily	-	-
SBR effluent	Nitrite	Daily	-	-
SBR effluent	Ammoniacal Nitrogen (Expressed as N)	Daily	-	-

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data		
Parameter	Reporting period	Period ends
Point source emission to air As specified by schedule 3, table S3.1	Every 6 months	31 March, 30 September
Point source emission to water (other than sewer) As specified by schedule 3, table S3.2	Every 3 months	31 March, 30 June, 30 September, 31 December
Other surface water monitoring As specified by schedule 3, table S3.3	Every 12 months	31 December
Process monitoring As specified by schedule 3, table S3.4	Every 3 months	31 March, 30 June, 30 September, 31 December

* - where the reporting period is 12 months, you may submit this information as part of the 'annual report' required by condition 4.2.2.

Table S4.2: Annual production/treatment	
Leachate: Disposed of off site; Recirculated into the waste mass. Accepted from offsite for treatment	Cubic metres/year

Table S4.3 Performance Parameters			
Parameter	Frequency of assessment	Annual total	Unit
Energy used	Annually		MWh of electricity or natural gas
Ammoniacal Nitrogen (Expressed as N) release to River Great Ouse per year	Annually		Kg/yr
Iron release to River Great Ouse per year	Annually		Kg/yr
Total Chloride release to River Great Ouse per year	Annually		Kg/yr
Sulphate release to River Great Ouse per year	Annually		Kg/yr
Zinc release to River Great Ouse per year	Annually		Kg/yr
Manganese release to River Great Ouse per year	Annually		Kg/yr
Lead release to River Great Ouse per year	Annually		Kg/yr
Arsenic release to River Great Ouse per year	Annually		Kg/yr
Copper release to River Great Ouse per year	Annually		Kg/yr
Isoproturan release to River Great Ouse per year	Annually		Kg/yr
Mecoprop release to River Great Ouse per year	Annually		Kg/yr

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Air	Form air 1 or other reporting format to be agreed in writing with the Environment Agency	30/03/07
Water	Form water 1 or other reporting format to be agreed in writing with the Environment Agency	30/03/07
Energy usage	Form energy 1 or other reporting format to be agreed in writing with the Environment Agency	30/03/07
Other performance indicators	Form performance 1 or other reporting format to be agreed in writing with the Environment Agency	30/03/07
Waste Return	E-waste Return Form	-

Schedule 5 – Notification

This page outlines the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any incident or accident which significantly affects or may significantly affect the environment	
To be notified within 24 hours of detection	
Date and Time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Measures taken, or intended to be taken, to stop the emission	

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

(c) Notification requirements in the event 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	
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 supplied as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“annually” means once every year.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

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

- the surface water outside the site and not attributable to the site.

“construction Proposals” means written information, at a level of detail appropriate to the complexity and pollution risk, on the design, specifications of materials selected, stability assessment (where relevant) and the construction quality assurance (CQA) programme in relation to the Infrastructure.

“CQA Validation Report” means the final “as built” construction and engineering details of the Infrastructure. It must provide a comprehensive record of the construction and must include, where relevant:

- The results of all testing required by the CQA programme - this must include the records of any failed tests with a written explanation, details of the remedial action taken, referenced to the appropriate secondary testing;
- Plans showing the location of all tests;
- “As-built” drawings of the works;
- Copies of the site engineer’s daily records;
- Records of any problems or non-compliances and the solution applied;
- Any other site specific information considered relevant to proving the integrity of the Infrastructure;
- Validation by a qualified person that all of the construction has been carried out in accordance with the Construction Proposals.

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

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

“exceeded” means that a value is above a permitted limit, or where a range of values or a minimum value is set as a permitted limit it means a value outside that range or below the minimum value, whichever is applicable.

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

“hazardous substances” as defined by the Environmental Permitting (England and Wales) Regulations 2016, SI 2016 No.1154, schedule 22.

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

“infrastructure” means any specified element of the leachate management system or associated pipe work within the site.

“liquids” means any liquid other than leachate within the engineered system.

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“no impact” means that the change made to the construction process will not affect the agreed design criteria, specification or performance in a way that has a negative effect.

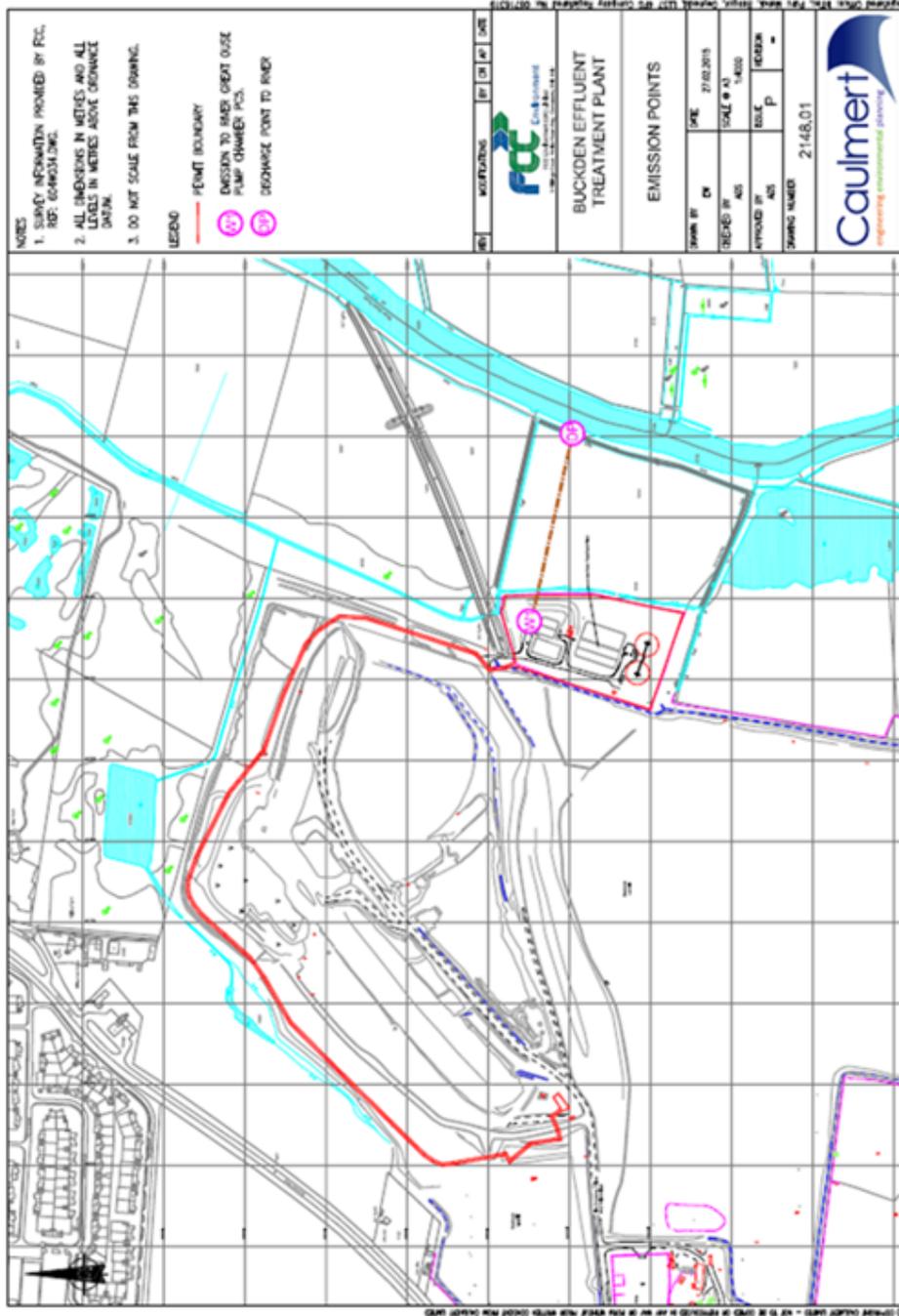
“Previous year” means the 12 month period preceding the month the annual report is submitted in.

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

“Waste code” – see ‘List of Wastes’

“WFD” means Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste [and repealing certain Directives] – the Waste Framework Directive.

Schedule 7 – Site plan



END OF PERMIT