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# Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Severn Trent Water Limited

Scunthorpe Sewage Treatment Plant Scotter Road South Bottesford Scunthorpe DN17 2BU

### Variation application number

EPR/ZP3598EY/V004

### Permit number

EPR/ZP3598EY

# Scunthorpe Sewage Treatment Plant Permit number EPR/ZP3598EY

# Introductory note

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

Under the Environmental Permitting (England & Wales) Regulations 2016 (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. All the conditions of the permit have been varied and are subject to the right of appeal.

### Changes introduced by this variation notice/statutory review

The Industrial Emissions Directive (IED) came into force on 7 January 2014 with the requirement to implement all relevant Best Available Techniques (BAT) Conclusions as described in the Commission Implementing Decision. The schedule of waste management activities includes the recovery of non-hazardous waste with a capacity exceeding 75 tonnes per day (or 100 tonnes per day if the only waste treatment activity is anaerobic digestion) involving biological treatment, but excludes activities covered by the Urban Waste Water Treatment Regulations (UWWTR). However, UK environmental regulators concluded that the biological treatment of waste sewage sludge is not an activity covered by the UWWTR and is therefore within the scope of the IED.

Article 21(3) of the IED requires the Environment Agency to review conditions in permits that it has issued and to ensure that the permit delivers compliance with relevant standards, within four years of the publication of updated decisions on Best Available Techniques (BAT) Conclusions. The BAT Conclusions for Waste Treatment (the BREF) was published on 17 August 2018 following a European Union wide review of BAT, implementing decision (EU) 2018/1147 of 10 August 2018.

The scope of the permit review covers the assessment of:

- the bioaerosols monitoring and compliance with M9 bioaerosols monitoring requirements;
- the design and construction of secondary containment and storage lagoons;
- the available storage facilities and measures to reduce ammonia emissions from storage; and
- information on existing medium combustion plant and/or specified generators on site.

This variation has been issued following a statutory review of the permits in the industry sector for biowaste treatment and to bring the biological treatment of sewage sludge within the scope of IED. The opportunity has also been taken to consolidate the original permit and subsequent variations.

The schedules specify the changes made to the permit.

#### Brief description of the process

Waste is imported onto site where it undergoes one of three treatment processes:

#### Anaerobic digestion (AD)

Both indigenous Urban Waste Water Treatment Regulations (UWWTR) derived sludge from the waste water treatment works (WwTW) on site and imported waste can be accepted directly into an anaerobic digestion treatment process. This permit covers both waste streams and is regulated as an installation activity, Section 5.4 A(1)(b)(i) under the Environmental Permitting Regulations.

Following approval by the operator, liquid/sludge waste is discharged into a mixing/holding tank. Waste is transferred to one of two primary digesters (5,000 m³ total capacity) where it undergoes anaerobic treatment typically for 12 days. The biogas produced is captured and transferred to a gas storage bag.

Biogas is combusted in one 2.09 MW combined heat and power (CHP) engine. The CHP engine runs on biogas only. The heat and power produced is either used on site or is exported to the grid.

Two dual fuel boilers are also present on site and an auxiliary flare stack burns biogas which cannot be handled by the engines or boilers.

Following the primary digesters, the digestate is stored in one of six tanks where sludge remains for up to 14 days. The purpose of these secondary holding tanks is to ensure the required pathogen kill has been achieved. This secondary holding can be bypassed with the aforementioned pathogen elimination being achieved on the cake pad, after dewatering has taken place. Once the sludge is fully treated, it is sent to two buffer feed tanks before being mixed with a polymer coagulant and dewatered by one belt press and one centrifuge. The supernatant liquor is directed back to the head of the Scunthorpe WwTW for aerobic treatment. The sludge cake is transferred to a cake pad where it is conditioned to achieve pathogen kill.

Any liquid, site drainage or condensate produced is directed to the head of the WwTW.

### Aerobic treatment (Waste operation)

Waste is also discharged directly into the pipeline at the head of the WwTW. The waste will undergo aerobic treatment under the UWWTR. The biological treatment of this waste is not regulated by this permit, only its import. The final effluent released by the WwTW is regulated under a separate discharge consent.

### **Dewatering (Waste operation)**

Digested sludge can be imported for dewatering purposes. It shares the same facilities as the AD treatment process following the digestion of the waste.

The installation is located approximately 4 km to the south west of Scunthorpe. The site treats the sewage of domestic customers, trade waste and accepts waste from smaller, lower capacity sewage treatment works. Key sensitive receptors include nearby settlements, the closest residential dwellings approximately 600 metres from the northern boundary of the installation. There are no Air Quality Management Areas (AQMAs) within 2 km of the site. Bottesford Beck is situated approximately 0.1 km north of the site boundary, flowing into the River Trent approximately 5 km west of the site. The operator has an EMS to ISO 14001 (Certificate E4230).

As there are human sensitive receptors within 250 metres of the sludge cake storage area, bioaerosols monitoring is required.

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 received EPR/ZP3598EY	Duly made 27/03/2008	Formerly EAWML 100422	
Permit determined EPR/ZP3598EY	17/11/2008		
Received notification of change of company registered office address	29/09/2010		
Issue of updated permit pages to show change of company registered office address	14/10/2010		
Variation application received EPR/ZP3598EY/V002	Duly made 30/09/2014	Application to vary and update the permit to modern conditions.	
Additional information received	31/07/2017	H1 assessment comparing emissions from the new CHP engine with the old engine setup.	
Additional information received	14/08/2017	Information related to the emissions to air screening for the new CHP engine.	

Status log of the permit			
Description	Date	Comments	
Variation determined EPR/ZP3598EY	20/12/2017	Varied and consolidated permit issued in modern condition format.	
Regulation 61 Notice sent to Operator	01/04/2021	Regulation 61 Notice requiring information for statutory review of permit.	
Regulation 61 Notice response	30/06/2021	Response received from the operator.	
Additional information received	15/07/2024	Response to request for further information dated 17/06/2024.	
Additional information received	28/08/2024	Response to request for further information dated 16/08/2024.	
Application EPR/ZP3598EY/V003 (variation and consolidation)	Duly made 28/08/2024	Variation application to include both imported and indigenous sewage and similar wastes. Installation of two buffer tanks at the head of works inlet and extension of site boundary.	
Application EPR/ZP3598EY/V004 (variation and consolidation)	Environment Agency Initiated Variation	Statutory review of permit occasioned by Waste Treatment BAT Conclusions published on 17 August 2018.	
Additional information received	18/10/2024	Further information regarding daily treatment capacity and hydraulic retention time.	
Additional information received	13/12/2024	Updated waste acceptance procedures document.	
Environment Agency Water and Sewerage Companies Review Permit reviewed Variation determined	24/12/2024	Varied and consolidated permit issued EPR/ZP3598EY/V003 and EPR/ZP3598EY/V004 issued as one variation.	
EPR/ZP3598EY			

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/ZP3598EY

### Issued to

Severn Trent Water Limited ("the operator")

whose registered office is

Severn Trent Centre 2 St. John Street Coventry CV1 2LZ

company registration number 02366686

to operate a regulated facility at

Scunthorpe Sewage Treatment Plant Scotter Road South Bottesford Scunthorpe DN17 2BU

to the extent set out in the schedules.

The notice shall take effect from 24/12/2024.

Name	Date
Marcus Woodward	24/12/2024

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.

# Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

# **Permit**

# The Environmental Permitting (England and Wales) Regulations 2016

### Permit number

#### EPR/ZP3598EY

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/ZP3598EY/V004 authorising,

Severn Trent Water Limited ("the operator"),

whose registered office is

Severn Trent Centre 2 St. John Street Coventry CV1 2LZ

company registration number 02366686

to operate an installation and waste operations at

Scunthorpe Sewage Treatment Plant Scotter Road South Bottesford Scunthorpe DN17 2BU

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

Name	Date
Marcus Woodward	24/12/2024

Authorised on behalf of the Environment Agency.

# **Conditions**

# 1 Management

### 1.1 General management

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

### 1.2 Energy efficiency

- 1.2.1 For the following activities referenced in schedule 1, table S1.1 AR1 to AR10, the operator shall:
  - (a) take appropriate measures to ensure that energy is used efficiently in the activities;
  - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
  - (c) take any further appropriate measures identified by a review.

### 1.3 Efficient use of raw materials

- 1.3.1 For the following activities referenced in schedule 1, table S1.1 AR1 to AR10, the operator shall:
  - (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
  - (b) maintain records of raw materials and water used in the activities;
  - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
  - (d) take any further appropriate measures identified by a review.

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

- 1.4.1 The operator shall take appropriate measures to ensure that:
  - (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
  - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
  - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

# 2 Operations

### 2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the "activities").
- 2.1.2 For the following activities referenced in schedule 1, table S1.1 AR1 to AR10, the activities shall be undertaken in accordance with best available techniques.
- 2.1.3 All process plant and equipment shall be commissioned, operated and maintained and shall be fully documented and recorded in accordance with the manufacturer's recommendations.
- 2.1.4 For the following activities referenced in schedule 1, table S1.1 AR1 to AR10, waste authorised by this permit shall be clearly distinguished from any other waste on the site.

### 2.2 The site

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

### 2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 Waste shall only be accepted if:
  - (a) it is of a type and quantity listed in schedule 2 tables S2.2, S2.3 and S2.4; and
  - (b) it conforms to the description in the documentation supplied by the producer and holder.
  - (c) the facility has sufficient free capacity to store and treat the waste.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
  - (a) the nature of the process producing the waste;
  - (b) the composition of the waste;
  - (c) the handling requirements of the waste;
  - (d) the hazardous property associated with the waste, if applicable; and
  - (e) the waste code of the waste.

- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.
- 2.3.7 For the following activities referenced in schedule 1, table S1.1 AR1 to AR10, waste pre-acceptance and acceptance procedures shall be undertaken in accordance with best available techniques.
- 2.3.8 For the following activities referenced in schedule 1, table S1.1 AR4:
  - (a) each MCP must be operated in accordance with the manufacturer's instructions and records must be made and retained to demonstrate this.
  - (b) the operator must keep periods of start-up and shut-down of each MCP as short as possible.
  - (c) there must be no persistent emission of 'dark smoke' as defined in section 3(1) of the Clean Air Act 1993.

### 2.4 Improvement programme

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

### 2.5 Pre-operational conditions

2.5.1 The operations specified in schedule 1 table S1.4 shall not commence until the measures specified in that table have been completed.

# 3 Emissions and monitoring

# 3.1 Emissions to water, air or land

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

# 3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour, but including ammonia) 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 Subject to condition 3.2.4, below, all liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container have been agreed in writing with the Environment Agency.
- 3.2.4 Condition 3.2.3, above, shall apply unless the operator strictly complies in full with IC6 below.
- 3.2.5 Subject to condition 3.2.6, below, all liquid wastes in storage tanks and lagoons shall be fully enclosed, with emissions collected and directed to an appropriate abatement system, unless other appropriate measures to prevent or where that is not practicable, to minimise, emissions of waste gases from storage tanks and lagoons have been agreed in writing with the Environment Agency.
- 3.2.6 Condition 3.2.5, above, shall apply unless the operator strictly complies in full with IC7 and IC8 below.
- 3.2.7 Subject to condition 3.2.8, below, the anaerobic treatment of all wastes shall take place within fully enclosed vessels. Combustible biogas or biomethane produced during biological treatment shall be utilised as a fuel or stored for utilisation off site, unless other appropriate measures to prevent or where that is not practicable, to minimise, emissions of biogas or biomethane from treatment/storage vessels have been agreed in writing with the Environment Agency. There shall be no uncontrolled emissions of biogas to the environment. This excludes the venting of biogas in an emergency using pressure release valves.
- 3.2.8 Condition 3.2.7, above, shall apply unless the operator strictly complies in full with IC8 below.
- 3.2.9 Subject to condition 3.2.10, below, the operator shall use buffer storage to store waste water and digestate to prevent waste water or digestate being discharged off site during the receiving waste water treatment works storm overflow operating, unless other appropriate measures to prevent or where that is not practicable, to minimise, emissions during waste water treatment works storm overflow operation, have been agreed in writing with the Environment Agency.
- 3.2.10 Condition 3.2.9, above, shall apply unless the operator strictly complies in full with IC15 below.
- 3.2.11 The operator shall implement a leak detection and repair (LDAR) programme to detect and mitigate the release of volatile organic compounds, including methane from diffuse sources.

### 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.

### 3.4 Noise and vibration

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

### 3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
  - (a) point source emissions specified in tables S3.1, S3.2 and S3.5;
  - (b) process monitoring specified in table S3.3;
  - (c) bioaerosols monitoring specified in table \$3.4.
- 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 S3.5 unless otherwise agreed in writing by the Environment Agency.
- 3.5.5 For the following activities referenced in Schedule 1 Table S1.1 (AR4):
  - (a) For existing MCP, monitoring measurements shall be carried out before the relevant compliance date or within four months of the issue date of the permit whichever is the later.
  - (b) In the case of new medium combustion plant, the first monitoring measurements shall be carried out within four months of the issue date of the permit or the date when the MCP is first put into operation, whichever is later.
- 3.5.6 Monitoring of MCP shall not take place during periods of start up or shut down.

### 3.6 Bioaerosols

- 3.6.1 The operator shall take all appropriate measures, to prevent or where that is not practicable to minimise the release of bioaerosols. Emissions of bioaerosols from the operational activities shall not exceed the emission action levels specified in table S3.4.
- 3.6.2 The operator shall where the emission action levels are exceeded:
  - (a) notify the Environment Agency and investigate and take remedial action;
  - (b) submit to the Environment Agency for approval within the period specified, a bioaerosols management plan which identifies and minimises the risks of pollution from bioaerosols; and
  - (c) implement the bioaerosols management plan from the date of approval and revise the plan periodically, unless otherwise agreed in writing by the Environment Agency.

### 3.7 Pests

- 3.7.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.
- 3.7.2 The operator shall:
  - (a) only use approved products for pest control;
  - (b) treat pest infestations promptly;

- (c) reject pest-infected incoming waste;
- (d) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
- (e) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

# 3.8 Fire prevention

- 3.8.1 The operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.
- 3.8.2 The operator shall:
  - (a) if notified by the Environment Agency that the activities are giving rise to a risk of fire, submit to the Environment Agency for approval within the period specified, a fire prevention plan which prevents fires and minimises the risk of pollution from fires;
  - (b) implement the fire prevention plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.8.3 The operator shall undertake a DSEAR assessment and maintain an accident management plan.

### 4 Information

### 4.1 Records

- 4.1.1 All records required to be made by this permit shall:
  - (a) be legible:
  - (b) be made as soon as reasonably practicable;
  - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
  - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
    - (i) off-site environmental effects; and
    - (ii) matters which affect the condition of the land and groundwater.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.
- 4.1.3 The operator shall maintain a record of the type and quantity of fuel used and the total annual hours of operation of each MCP.

# 4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 For the following activities referenced in schedule 1, table S1.1 AR1 to AR10, a report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
- (b) the annual production/treatment data set out in schedule 4 table S4.2; and
- (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
  - (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
  - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
  - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 Within 1 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.
- 4.2.6 The operator shall keep records of non-waste materials leaving the site, including the type of material, the batch number, the date of export off-site and the tonnage exported on that date. These records shall be maintained for at least 2 years.
- 4.2.7 The operator shall submit an annual report detailing the efficiency of removal of non-digestible materials from feedstock prior to processing and the level of contamination in the final recovered digestate.

### 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 Following the detection of an issue listed in condition 4.3.1, the operator shall review and revise the management system and implement any changes as necessary to minimise the risk of re-occurrence of the issue.
- 4.3.4 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.5 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

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

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

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

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.
- 4.3.6 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
  - (a) the Environment Agency shall be notified at least 14 days before making the change; and
  - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.7 The Environment Agency shall be given at least 14 days' notice before implementation of any part of the site closure plan.
- 4.3.8 The operator shall notify the Environment Agency as soon as is practicable, in writing of any change of medium combustion plant.

# 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 a	ctivities		
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR1	S5.4 A(1)(b)(i) Recovery or a mix of recovery and disposal of non- hazardous waste with a capacity exceeding 75 tonnes per day (or 100 tonnes per day if the only waste treatment activity is anaerobic digestion) involving biological treatment	R3: Recycling/reclamation of organic substances which are not used as solvents	From receipt of waste through to digestion and recovery of by-products (waste treated by anaerobic digestion).  Anaerobic digestion of waste in two tanks followed by burning of biogas produced from the process.  Anaerobic digestion shall be limited to 625 tonnes per day.  Waste types suitable for acceptance are limited to those specified in Table S2.2.
Directly Ass	ociated Activity		
AR2	Storage of waste pending recovery or disposal	R13: Storage of waste pending the operations numbered R1 and R3 (excluding temporary storage, pending collection, on the site where it is produced)	From the receipt of permitted waste to pre-treatment and despatch for anaerobic digestion on site.  Storage of residual wastes from pre-treatment to despatch off-site for recovery.  Storage of waste in enclosed equipment and tanks fitted with appropriate odour abatement as implemented in line with IC7 and IC8 and on an impermeable surface with a sealed drainage system.  Waste types suitable for acceptance are limited to those specified in Table S2.2.
AR3	Physical treatment for the purpose of recycling	R3: Recycling/reclamation of organic substances which are not used as solvents	From the receipt of waste to despatch for anaerobic digestion or despatch off site for recovery.  Dilution of incoming wastes using final waste waters from the wastewater treatment works to aid pre-treatment and digestion only.  Pre-treatment of waste in enclosed equipment and tanks fitted with appropriate odour abatement and on an impermeable surface with a sealed drainage system, including shredding,

Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
			sorting, screening, compaction, baling, mixing and maceration.
			Post-treatment of digestate in enclosed equipment and tanks and on an impermeable surface with a sealed drainage system, including separation, screening to remove contraries, centrifuge or pressing and addition of thickening agents (polymers) or drying for use as a fertiliser or soil conditioner (drying for the purpose of use as a fuel is not permitted).
			Biogas cleaning by biological or physical (carbon filtration) or chemical scrubbing.
			Waste types suitable for acceptance are limited to those specified in Table S2.2.
AR4	Steam and electrical power supply	R1: Use principally as a fuel to generate energy	From the receipt of biogas produced at the on-site anaerobic digestion process to combustion with the release of combustion gases.
			Combustion of biogas in one combined heat and power (CHP) engine with a thermal input of 2.09 MW.
			Combustion of biogas in two auxiliary boilers with an aggregated thermal input of 1.6 MW.
AR5	Emergency flare operation	D10: Incineration on land	From the receipt of biogas produced at the on-site anaerobic digestion process to incineration with the release of combustion gases.
			There shall be no venting or flaring of gas for disposal.
			Use of one auxiliary flare required only during periods of breakdown or maintenance of the CHP engine and/or auxiliary boilers.
AR6	Raw material storage	Storage of raw materials including lubrication oil, antifreeze, ferric chloride, activated carbon, diesel.	From the receipt of raw materials to despatch for use within the facility.

Table S1.1 ac	ctivities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description o activity and W	/FD Annex	Limits of specified activity and waste types
AR7	Gas storage	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)		Storage of biogas produced from onsite anaerobic digestion of permitted waste in one gas holder and in roof space of digesters.  From the receipt of biogas produced at the on-site anaerobic digestion process to despatch for use within the facility.
				Emissions of unburnt biogas shall be minimised.
AR8	Digestate storage	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)		From the receipt of processed digestate produced from the on-site anaerobic digestion process to despatch for use off-site.
				Storage of processed liquid digestate in 6 storage tanks.
				Storage of processed solid digestate cake on an impermeable surface with sealed drainage system.
AR9	Surface water collection	Collection of uncontaminated roof and site surface water		From the collection of uncontaminated roof and site surface water from non-operational areas only to re-use within the facility or discharge off-site.
AR10	Air abatement	Collection and treatment of air from the buildings or plant using abatement plant as implemented in line with IC7 and 8, prior to release to atmosphere.		From the collection of air from site processes to treatment and release of treated air to atmosphere.
Activity reference	Description of activ	ities for waste	Limits of ac	ctivities
AR11	Head of Works			ceipt of waste sludges and waste liquids
Storage and blending of waste for discharge to	D13: Blending or mix submission to any of numbered D1 to D12	treatment. T the blending and any of the d D1 to D14 y storage, on the site treatment. T		t the head of the works for storage and reatment operations shall be limited to and mixing of waste.
the WwTW	D15: Storage pendin operations numbered (excluding temporary			d mixing shall not be undertaken to eaction or a dilution of contaminants.
	pending collection, o where the waste is p			ny other requirements of this permit I be stored for no longer than 1 year prior
				vaste in two enclosed tanks fitted with odour abatement as implemented in line

Table S1.1 ac	Table S1.1 activities				
Activity reference	so   Cobodulo 1 of the   '		of specified VFD Annex tions	Limits of specified activity and waste types	
				IC8, and on an impermeable surface d drainage system.	
			Waste types	s as specified in Table S2.3.	
AR12 Dewatering and storage of digestate	R3: Recycling/reclamorganic substances was used as solvents		tanker/tippe	ceipt of digested sludge /sludge cake via r lorry at the dewatering tanks for nd cake pad for storage.	
only	R13: Storage of waste operations numbered (excluding temporary pending collection, on where it is produced)	R1 to R12 storage,	Treatment of digestate in enclosed equipment at tanks fitted with appropriate odour abatement as implemented in line with IC7 and IC8, on an impermeable surface with sealed drainage system including mixing (digestates only), centrifuge or pressing and addition of thickening agents (polymers) or drying for use as a fertiliser or soil conditioner (drying for the purpose of use as a finot permitted).		
				um storage capacity of the site shall not 1000 tonnes at any one time.	
				d mixing shall not be undertaken to eaction or a dilution of contaminants.	
			Wastes shal	Il be stored for no longer than 6 months.	
				vaste shall take place on an e surface with a sealed drainage system.	
			Waste types	s as specified in Table S2.4.	

Table S1.2 Operating techniques			
Description	Parts	Date Received	
Application EPR/ZP3598EY (formerly EAWML 100422)	Working Plan	09/04/2008	
Application EPR/ZP3598EY/V002	Part C3 - Section 3a (technical standards). Part C3 - Section 3d, Table 6 (information of specific sectors)	30/09/2014	
Response to Regulation 61 Notice dated 01/04/2021 (EPR/ZP3598EY/V003)	Compliance and operating techniques identified in response to BAT Conclusions 1 to 8, 10 to 24 and 33 to 38 in the Waste Treatment BREF published on 17 August 2018.	30/06/2021	
Response to Request for additional information dated	Response to Questions 1 to 23.	15/07/2024	

Table S1.2 Operating techniques			
Description	Parts	Date Received	
Response to Request for additional information dated	Response to secondary containment for the reuse of proposed tanks for the head of works activity.	28/08/2024	
Additional information	Further information regarding daily treatment capacity and hydraulic retention time.	18/10/2024	
Additional information	Severn Trent Water's waste acceptance procedures document 'Standard Procedure, Business Services – Tankered Trade Waste (TTW)', SOP01 and SOP02 or subsequent variations as agreed in writing with the Environment Agency.	13/12/2024	

Reference	Requirement Requirements					
IC1 to IC5	Completed	Completed				
Improvement of	condition for secondary containment design					
IC6	The operator shall submit a written 'secondary containment implementation plan' and shall obtain the Environment Agency's written approval to it. The plan shall contain the finalised designs and an implementation schedule for a secondary containment system for all liquids that could cause pollution from tanks, sumps and containers. The finalised designs and specifications shall be produced by appropriate competent individuals (qualified civil or structural engineer), in accordance with BAT 19 of the Waste Treatment BREF and the risk assessment methodology detailed within CIRIA C736 (2014) guidance or an equivalent standard that will provide an equivalent level of environmental protection. The plan shall include but not be limited to the following components:  • An assessment of the suitability for providing containment when subjected to the dynamic and static loads caused by catastrophic tank failure.  • Finalised designs and specifications of the proposed secondary containment proposal completed by appropriate competent individuals.  • A program of works with timescales for the commissioning of the secondary containment systems to comply with CIRIA C736 (2014) guidance, or equivalent standard.  • An updated site and infrastructure plan.  • A preventative maintenance and inspection regime.  The plan shall be implemented in accordance with the Environment Agency's prior written approval.  (Note that approval of reports under this improvement condition does not preclude the need for permit variation applications to implement	31/03/2025  Implementation of all required and approved containment improvements must be completed by 31/03/2025.				

Reference	Requirement	Date
	the improvements identified in the report. Any variation may include the insertion of necessary emission limit values).	
Improvement digestion)	condition for enclosure of tanks storing (or treating) sewage sludge (	tanks pre-
IC7	The operator shall submit a written 'enclosure and abatement plan' and obtain the Environment Agency's written approval to it.	31/03/2025
	The plan shall contain the final designs and an implementation schedule for the installation of enclosures/covers and associated emission abatement systems in line with BAT 14 and BAT 53 for storage and treatment tanks pre-anaerobic digestion identified in Drawing B1958992-JAC-SCE-DR-0002 submitted on 15/07/2024.	Implementation of all required and approved containment improvements
	The plan shall include evidence that the tank enclosures/covers will be designed and installed in accordance with guidance, <u>Biological</u> waste treatment: appropriate measures for permitted facilities, and provide evidence to demonstrate why the emission abatement system will be effective and meet the requirements of BAT 14 and BAT 53.	must be completed by 31/03/2025.
	The plan shall be implemented in accordance with the Environment Agency's prior written approval.	
	(Note that approval of reports under this improvement condition does not preclude the need for permit variation applications to implement the improvements identified in the report. Any variation may include the insertion of necessary emission limit values).	
Improvement	conditions for enclosure of tanks storing (or treating) digestate	
IC8	The operator shall submit a written 'post anaerobic digestion vessel cover' plan and obtain the Environment Agency's written approval to it. The plan shall contain the final designs and an implementation schedule for the installation of covers for vessels storing and/or treating digestate in tanks identified as in Drawing B1958992-JAC-SCE-DR-0002 submitted on 15/07/2024. The plan shall also contain a detailed description of the proposed gas utilisation/abatement plant, gas storage infrastructure for the biogas produced during anaerobic digestion, pressure relief valves and gas pipework. The plan shall include but not be limited to the following components:	31/03/2025  Implementation of all required and approved containment improvements must be completed by 31/03/2025.
	<ul> <li>Evidence that the pollutants of the waste gas (including methane) produced in tanks identified in Drawing B1958992-JAC-SCE-DR-0002 submitted on 15/07/2024, will be controlled and/or abated either by the proposed gas utilisation plant or proposed abatement system.</li> <li>Evidence that the vessel covers, gas utilisation /abatement plant and ancillary equipment have been designed by appropriately qualified engineers.</li> </ul>	31/03/2023.
	Evidence that the vessel covers, and gas     utilisation/abatement plant will be designed and installed in     accordance with guidance, <u>Biological waste treatment:</u> appropriate measures for permitted facilities.	

Reference	erence Requirement	
	An updated Hazard and Operability Study (HAZOP) and DSEAR risk assessment.	
	An assessment of gas storage capacity and gas     utilisation/abatement capacity including proposals for     additional gas utilisation /abatement plant.	
	<ul> <li>A program of works with timescales for the commissioning of the vessel cover(s), gas utilisation/ abatement infrastructure and ancillary equipment.</li> </ul>	
	The plan shall be implemented in accordance with the Environment Agency's prior written approval.	
	(Note that approval of reports under this improvement condition does not preclude the need for permit variation applications to implement the improvements identified in the report. Any variation may include the insertion of necessary emission limit values).	
Improvement	conditions for primary containment tanks	
IC9	The operator shall submit a written 'primary containment plan' and shall obtain the Environment Agency's written approval to it. The plan shall contain the results of an inspection and program of works undertaken by an appropriately qualified engineer and shall assess the extent, design specification and condition of primary containment systems (including associated pipework) where polluting liquids and solids are being stored, treated, and/or handled.	23/12/2025 or such other date as agreed in writing with the Environment Agency.
	The plan shall include, but not be limited to:	
	<ul> <li>An assessment of the physical condition of all primary containment systems (storage and treatment vessels and associated pipework) using a Written Scheme of Examination and their suitability for providing primary containment when subjected to dynamic and static loads.</li> </ul>	
	<ul> <li>A program of works with timescales for the implementation of individual improvement measures necessary to demonstrate that the primary containment is fit for purpose or alternative appropriate measures to ensure all polluting materials will be contained on site.</li> </ul>	
	<ul> <li>A preventative maintenance and inspection regime.</li> <li>The plan shall be implemented in accordance with the Environment Agency's written approval.</li> </ul>	
-	conditions for establishing an inventory of liquid waste water discha	rged from
IC10a	The operator shall submit a sampling programme in relation to waste water streams and shall obtain the Environment Agency's written approval to it. The sampling programme shall be designed to fully characterise the waste waters discharged to Scunthorpe wastewater treatment works (WwTW) from emission points S1, S2 and S3 in table S3.2 of this permit.	23/02/2025 or such other date as agreed in writing with the Environment Agency
	The programme shall include but not be limited to a methodology for a minimum of one 24-hour flow proportional sample a month, for	

Reference	Requirement	Date
	each emission point, for a period of 12 months. The programme shall detail the sampling methods/standards used. Sampling methods shall be in accordance with BAT conclusion 20 of the Waste Treatment BREF. The programme shall include the National Grid Reference (NGR) of the sampling point(s) location(s).	
	The programme shall establish the characteristics of the liquid waste water streams and shall include as a minimum for each emission point:	
	<ul> <li>Average values and variability of flow, pH, temperature and conductivity.</li> <li>Average concentration and load values of all relevant substances and their variability.</li> <li>Data on bioeliminability.</li> </ul>	
	The programme shall sample for all relevant substances and must include:	
	<ul> <li>Hydrocarbon oil index (HOI) (mg/l)</li> <li>Free cyanide (CN<sup>-</sup>) (mg/l)</li> <li>Adsorbable organically bound halogens (AOX) (mg/l)</li> <li>Metals and metalloids; arsenic (expressed as As), cadmium (expressed as Cd), chromium (expressed as Cr), hexavalent chromium (expressed as Cr(VI)), copper (expressed as Cu), lead (expressed as Pb), nickel (expressed as Ni), mercury (expressed as Hg), zinc (expressed as Zn) (µg/l)</li> </ul>	
	The operator shall submit the collected monitoring data in writing to the Environment Agency according to agreed reporting periods.	
	The sampling programme shall be produced in accordance with Environment Agency guidance:	
	<ul> <li>Specific substances and priority hazardous substances –         Surface water pollution risk for your environmental permit         Surface water pollution risk assessment for your         environmental permit - GOV.UK (www.gov.uk).</li> <li>Monitoring discharges to water: guidance on selecting a         monitoring approach Monitoring discharges to water: guidance         on selecting a monitoring approach - GOV.UK (www.gov.uk)</li> </ul>	
	The monitoring programme shall be carried out and the monitoring data submitted in accordance with the Environment Agency's written approval.	
-	conditions for indirect discharges to water discharged from anaerobi	c digestion and
IC10b	The operator shall submit a report for approval by the Environment Agency, following completion of the sampling programme approved under IC10a. The report shall include but not be limited to; a summary of the sample results, a completed H1 risk assessment(s) and modelling outputs where appropriate.	Within 15 months of the Environment Agency's written approval of the sampling
	The operator shall provide conclusions on whether the waste waters discharged from S1, S2 and S3 will have any adverse impact on the	programme

Reference	Requirement	Date
	receiving waters once discharged from Scunthorpe WwTW. An assessment shall be made against the parameters specified in the relevant environmental standards as specified within Environment Agency guidance as follows:  • Specific substances and priority hazardous substances – Surface water pollution risk for your environmental permit Surface water pollution risk assessment for your environmental permit – GOV.UK (www.gov.uk).	submitted under IC10a or such other date as agreed in writing with the Environment Agency
	Sanitary substances – H1 annex D2: assessment of sanitary and other pollutants in surface water discharges 1076_14 H1 Annex D2 - Assessment of sanitary and other pollutants within Surface Water Discharges (publishing.service.gov.uk)	
	The report shall include any proposals and/or additional measures required to prevent or minimise any significant emissions from the installation along with timescales for implementation.	
IC10c	The operator shall implement any improvements identified within the report approved under IC10b in accordance with the Environment Agency's written approval and provide written confirmation to the Environment Agency that the improvements have been completed.  (Note, approval of reports under this improvement condition does not preclude the need for permit variation application(s) to operate the improvements identified in the report and/or include any necessary emission limit values).	Within 6 months of the report in relation to IC10b being approved by the Environment Agency or such other date as agreed in writing with the Environment Agency
Improvement	provement condition to address methane slip emissions from gas engines burning b	
IC11	The operator shall submit a written plan for approval by the Environment Agency which establishes the methane emissions in the exhaust gas from engines burning biogas and or biomethane and compare these to the manufacturer's specification and benchmark levels.  The plan shall develop proposals to assess the potential for methane slip and take corrective actions where emissions of methane above the manufacturer's specification are identified.	23/06/2025 or such other date as agreed in writing with the Environment Agency
	The operator shall establish methane emissions in the exhaust gas and methane slip using the following standards:  • EN ISO 25139	
	• EN ISO 25140	
<del></del>	condition for review of effectiveness of abatement plant	T
IC12	The operator shall carry out a review of the abatement plant on site, following completion of IC7 and IC8, to determine whether the measures have been effective and adequate to prevent, or where this is not possible to minimise, emissions released to air (including but	

Reference	Requirement Date			
	not limited to odour, ammonia, Hydrogen chloride (HCI), and TVOC (if applicable).	such other date as agreed in		
	The operator shall submit a written report to the Environment Agency following this review for assessment and approval.	writing with the Environment		
	The report shall include but not be limited to the following aspects:	Agency		
	<ul> <li>Full investigation and characterisation of the waste gas streams.</li> </ul>			
	<ul> <li>Evidence that the emission of pollutants in the waste gas stream is being prevented or where this is not possible minimised by the abatement plant.</li> </ul>			
	<ul> <li>Abatement stack monitoring results (including but not limited to odour, ammonia, Hydrogen chloride (HCl), and TVOC (if applicable).</li> </ul>			
	<ul> <li>Abatement process monitoring results (including but not limited to odour, ammonia, Hydrogen chloride (HCl), and TVOC (if applicable).</li> </ul>			
	<ul> <li>Details of air quality quantitative impact assessment including modelling and a proposal for site-specific "action levels" (including but not limited to odour concentration, hydrogen sulphide, ammonia, Hydrogen chloride (HCI), and TVOC (if applicable).</li> </ul>			
	<ul> <li>Odour monitoring results at the site boundary.</li> </ul>			
	Records of odour complaints and odour related incidents.			
	<ul> <li>Recommendations for improvement including the replacement or upgrading of the abatement plant.</li> </ul>			
	<ul> <li>Timescales for implementation of improvements to the abatement plant.</li> </ul>			
	The operator shall implement any improvements in line with the timescales as approved by the Environment Agency.			
	(Note that approval of reports under this improvement condition does not preclude the need for permit variation applications to implement the improvements identified in the report. Any variation may include the insertion of necessary emission limit values).			
-	condition for establishing an inventory of liquid waste water discharg s waste operation (AR11)	jed from the		
IC13a	The operator shall submit a sampling programme in relation to liquid/sludge waste streams that are to be discharged to emission point S4 and shall obtain the Environment Agency's written approval to it. The sampling programme shall be designed to fully characterise the liquid/sludge waste discharged to Scunthorpe wastewater treatment works (WwTW) from emission point S4 in table S3.2 of the permit.	Submission of sampling programme 23/03/2024 or such other date as may be agreed in writing.		
	The programme shall include but not be limited to a methodology for gathering a representative chemical pollutant suite of analysis of all incoming wastes that will be discharged to emission point S4 for a period of 12 months.	with the Environment Agency		
	A minimum of 12 spot samples from each waste producer shall be taken provided the liquid/sludge waste is appropriately mixed,	Quarterly sampling data results at three		

Table S1.3 Imp	provement programme requirements	1
Reference	Requirement	Date
	homogeneous, and is representative of the specific waste stream being discharged.	monthly intervals
	Where multiple waste streams are accepted to a holding tank prior to discharge to emission point S4, the programme shall include verification sampling at point S4 to confirm that the characteristics of the waste have not been significantly altered by the holding tank activity.	Quarter 1 Initial sampling data results submitted 3 months from the
	The programme shall detail the sampling methods/standards and limits of detection (LOD)/minimum reporting values (MRV) used. Waste Characterisation sampling methods shall be in accordance with guidance, Non-hazardous and inert waste: appropriate measures for permitted facilities and Biological waste treatment: appropriate measures for permitted facilities, and shall fully characterise the liquid/sludge waste streams, including as a minimum for each waste stream the:	date the Environment Agency approves the sampling programme, or other such date as may be
	<ul> <li>Maximum, minimum and average values and variability of flow, pH, temperature and conductivity. Flow rates shall be based upon the capacity of the discharging holding tanks and/or the capability of the discharging tanker, with clear evidence to demonstrate how this has been calculated.</li> </ul>	agreed in writing with the Environment Agency
	Chemical names, the units of measurement, maximum, minimum and average concentration and load values of all substances that have an environmental quality standard (EQS) or ecotoxic properties, and their variability.	Quarter 2 Sampling data results submitted 6
	Total and dissolved metals data	months from the
	Data on bioeliminability.	date the Environment
	Information on the liquid/sludge waste stream source	Agency
	National Grid Reference (NGR) of the sampling point.	approves the sampling
	The sampling programme shall be produced in accordance with the following Environment Agency guidance:	programme, or other such date
	<ul> <li>Section 3 (Waste pre-acceptance, acceptance and tracking)     of guidance 'Non-hazardous and inert waste: appropriate     measures for permitted facilities'</li> </ul>	as may be agreed in writing with the Environment
	Section 6 (Waste pre-acceptance, acceptance and tracking)     of guidance <u>Biological waste treatment: appropriate measures</u> <u>for permitted facilities</u>	Agency  Quarter 3
	Specific substances and priority hazardous substances –     Surface water pollution risk for your environmental permit     Surface water pollution risk assessment for your     environmental permit - GOV.UK (www.gov.uk).	Sampling data results submitted 9 months from the
	Monitoring discharges to water: guidance on selecting a monitoring approach Monitoring discharges to water: guidance on selecting a monitoring approach - GOV.UK (www.gov.uk)	date the Environment Agency approves the sampling

Reference	Requirement	Date
Reference	· ·	programme, or
	<ul> <li>Monitoring discharges to water: CEN and ISO monitoring methods Monitoring discharges to water: CEN and ISO monitoring methods - GOV.UK (www.gov.uk)</li> </ul>	other such date as may be agreed in writing
	The sampling programme shall be carried out as approved by the Environment Agency and the sampling data shall be submitted in accordance with the Environment Agency's written approval.	with the Environment Agency
		Quarter 4 Final sampling data results submitted 12 months from the date the Environment Agency approves the sampling programme, or other such date as may be agreed in writing with the Environment Agency
Improvement operation (AR	conditions for indirect discharges to water discharged from the Head	d of Works waste
IC13b	The operator shall submit a report for audit and approval by the Environment Agency, following completion of the sampling programme referred to in IC13a. The report shall include but shall not be limited to:	Within 6 months of the submission of the final sampling data
	the raw data used to undertake the screening,	results
	a summary of the sample results,	submitted under IC13a or such
	<ul> <li>a completed H1 risk assessment or equivalent risk assessments and</li> </ul>	other date as may be agreed
	modelling outputs where appropriate	in writing with the Environment
	in order to assess the impact from the liquid/sludge wastes stream discharged via the reception holding tank and/or tanker to point S4.	Agency
	The operator shall provide conclusions on whether the liquid/sludge wastes discharged to emission point S4 will have any adverse impact on the receiving waters once discharged from Scunthorpe WwTW. An assessment shall be made against the parameters identified in IC13a and against the relevant environmental quality standards (EQS – or Predicted No Effect Concentrations (PNECs) for substances that	

Reference	nce Requirement		
	have ecotoxic properties but no established EQS) as specified within Environment Agency guidance as follows:	Date	
	Specific substances and priority hazardous substances –     Surface water pollution risk for your environmental permit     Surface water pollution risk assessment for your     environmental permit - GOV.UK (www.gov.uk).		
	<ul> <li>Sanitary substances – H1 annex D2: assessment of sanitary and other pollutants in surface water discharges 1076_14 H1 Annex D2 - Assessment of sanitary and other pollutants within Surface Water Discharges (publishing.service.gov.uk).</li> </ul>		
	H1 risk assessment tool ADMLC <a href="https://admlc.com/h1-tool/">https://admlc.com/h1-tool/</a>		
	The report shall include proposals for any additional measures/abatement required to prevent or minimise any significant emissions from the waste operation.		
	The operator shall implement the proposals in the report in accordance with the timescales as approved in writing by the Environment Agency.		
IC13c	The operator shall submit a report that provides written confirmation to the Environment Agency that the proposed improvements identified within the report approved under IC13b have been implemented and completed in accordance with the Environment Agency's written approval.	Within 6 months of the report in relation to IC13b being submitted to the Environment	
	(Note, approval of reports under this improvement condition does not preclude the need for permit variation application(s) to operate the improvements identified in the report and/or include any necessary emission limit values).	Agency or such other date as may be agreed in writing with the Environment Agency	
Improvement	condition for monitoring digestate stability		
IC14	The operator shall submit a written report, with supporting evidence, on the stability of whole digestate, (i.e. prior to dewatering), and obtain the Environment Agency's written approval to it.	6 months of permit issue or such other date	
	The report shall assess whether biogas emissions from post digestion storage or treatment of digestate is likely to have been minimised. The report shall include but not be limited to:	as agreed in writing with the Environment Agency	
	<ul> <li>An assessment of residual biogas potential in accordance with the OFW004-005 [N6] methodology specified by BSI PAS 110: Producing Quality Anaerobic Digestate or an equivalent methodology for assessing residual biogas potential of the digestate.</li> </ul>	Agency	
Improvement	conditions for operational storage buffer capacity		
IC15	The operator shall submit a written "waste water and digestate buffer storage plan" and shall obtain the Environment Agency's written approval to it. The plan shall contain the results of a review of the current storage of waste water and digestate produced from site	31/03/2025	

Reference	Requirement	Date
	operations. The review shall propose and describe site contingency arrangements to provide appropriate storage capacity or other appropriate measures to prevent or minimise emissions of waste water or digestate being discharged off site during any occasions when the receiving wastewater treatment works is in storm overflow operating conditions.	Implementation of all required and approved containment improvements must be
	The storage plan shall include but not be limited to:	completed by
	<ul> <li>Proposals for additional storage capacity with secondary containment within the site boundary for wastewater and/or other digestate during any occasions when the receiving wastewater treatment works is in storm overflow operating conditions.</li> </ul>	31/03/2025.
	Procedures to cease discharges during these conditions.	
	<ul> <li>Calculation of a reasonable contingency capacity of waste water and/or other digestate during any occasions when the receiving wastewater treatment works is in storm overflow operating conditions.</li> </ul>	
	<ul> <li>A description and design specification of the buffer storage infrastructure and secondary containment measures. The design shall be completed by an appropriately qualified engineer and secondary containment shall be designed in line with CIRIA C736.</li> </ul>	
	<ul> <li>A program of works with timescales for the implementation and construction of the buffer storage.</li> </ul>	
	A preventative maintenance and inspection regime.	
	The plan shall be implemented in accordance with the Environment Agency's prior written approval.	

Table S1.4 I	Table S1.4 Pre-operational measures		
Reference	Operation	Pre-operational measures	
Pre-operational condition to submit an assessment of the fate and impact of new waste streams not previously accepted, and that change the risk of the waste stream to be discharged under existing waste codes as specified in Table S2.3			
PO1	AR11	Prior to accepting new waste streams under activity AR11 for existing permitted waste codes identified in table S2.3 for discharge into the head of works (emission point S4), the operator shall undertake an assessment of the fate and impact on the receiving waters by updating the environmental risk assessment established in IC13b, the additional measures/abatement implementation plan as approved under IC13b and in accordance with the sampling plan as approved under IC13a.	
		Acceptance of the new liquid/sludge waste streams under existing waste codes shall only commence following submission of the above risk assessment and any recommendations for additional measure/abatement considered to be required, written approval from the Environment Agency and the submission of written confirmation to the Environment Agency that any additional measures/abatement considered to be required have been implemented and completed as approved.	

# Schedule 2 – Waste types, raw materials and fuels

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

Table S2.2 Permitted waste types and quantities for anaerobic digestion (AR1-AR10)		
Maximum quantity	Annual throughput shall not exceed 865,869 tonnes	
Exclusions	<ul> <li>Wastes having any of the following characteristics shall not be accepted:</li> <li>Biodegradable wastes that is significantly contaminated with non-compostable or digestible contaminants, in particular plastic and litter shall be no more than 5% w/w and shall be as low as reasonably practicable by 31 December 2025.</li> <li>Wastes containing wood-preserving agents or other biocides and post-consumer wood.</li> <li>Wastes containing persistent organic pollutants.</li> <li>Wastes containing Japanese Knotweed or other invasive plant species listed in the Invasive Species (Amendment etc.) (EU Exit) Regulations 2019.</li> <li>Manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013.</li> <li>Pest infested waste.</li> </ul>	
Waste code	Description	
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use	
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)	
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05 (sewage sludge only)	
19 06	wastes from anaerobic treatment of waste	
19 06 06	dispetate from an explicate extraction of an invalid and the setable tracted	
19 00 00	digestate from anaerobic treatment of animal and vegetable waste (digested sewage sludge only)	
19 08		
	sewage sludge only)	
19 08	sewage sludge only) wastes from waste water treatment plants not otherwise specified	
<b>19 08</b> 19 08 05	sewage sludge only)  wastes from waste water treatment plants not otherwise specified  sludges from the treatment of urban waste water  Municipal wastes (household waste and similar commercial, industrial and	

(Head of Works) (Al	1	
Maximum quantity	Annual throughput shall not exceed 499,500 tonnes  Wastes having any of the following characteristics shall not be accepted:	
Exclusions	wastes having any of the following characteristics shall not be accepted.	
	<ul> <li>Wastes containing persistent organic pollutants.</li> <li>Wastes containing Japanese Knotweed or other invasive plant species listed in the Invasive Species (Amendment etc.) (EU Exit) Regulations 2019.</li> <li>Manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013.</li> <li>Pest infested waste.</li> <li>Hazardous waste.</li> <li>Solid wastes (only wastes of liquid free flowing form shall be accepted).</li> </ul>	
Waste code	Description	
01	Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals	
01 05	drilling muds and other drilling wastes	
01 05 04	freshwater drilling muds and wastes	
01 05 07	barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06	
01 05 08	chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06	
02	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing	
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing	
02 01 01	sludges from washing and cleaning	
02 01 02	animal-tissue waste	
02 01 03	plant-tissue waste	
02 01 06	animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site	
02 01 07	wastes from forestry	
02 01 99	residues from commercial mushroom cultivation	
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin	
02 02 01	sludges from washing and cleaning	
02 02 02	animal-tissue waste	
02 02 03	materials unsuitable for consumption or processing	
02 02 04	sludges from on-site effluent treatment	
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation	
02 03 01	sludges from washing, cleaning, peeling, centrifuging and separation	
02 03 02	wastes from preserving agents	
02 03 03	wastes from solvent extraction	

02 03 04	materials unsuitable for consumption or processing
02 03 05	sludges from on-site effluent treatment
02 04	wastes from sugar processing
02 04 01	soil from cleaning and washing beet
02 04 02	off-specification calcium carbonate
02 04 03	sludges from on-site effluent treatment
02 05	wastes from the dairy products industry
02 05 01	materials unsuitable for consumption or processing
02 05 02	sludges from on-site effluent treatment
02 06	wastes from the baking and confectionery industry
02 06 01	materials unsuitable for consumption or processing
02 06 02	wastes from preserving agents
02 06 03	sludges from on-site effluent treatment
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	wastes from spirits distillation
02 07 03	wastes from chemical treatment
02 07 04	materials unsuitable for consumption or processing
02 07 05	sludges from on-site effluent treatment
0.2	
03	Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard
03 03	wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard wastes from pulp, paper and cardboard production and processing
	pulp, paper and cardboard
03 03	pulp, paper and cardboard wastes from pulp, paper and cardboard production and processing
<b>03 03</b> 03 03 02	pulp, paper and cardboard  wastes from pulp, paper and cardboard production and processing  green liquor sludge (from recovery of cooking liquor)
<b>03 03</b> 03 03 02 03 03 05	pulp, paper and cardboard  wastes from pulp, paper and cardboard production and processing  green liquor sludge (from recovery of cooking liquor)  de-inking sludges from paper recycling
03 03 03 03 02 03 03 05 03 03 07	wastes from pulp, paper and cardboard production and processing green liquor sludge (from recovery of cooking liquor) de-inking sludges from paper recycling mechanically separated rejects from pulping of waste paper and cardboard
03 03 03 03 02 03 03 05 03 03 07 03 03 08	wastes from pulp, paper and cardboard production and processing green liquor sludge (from recovery of cooking liquor) de-inking sludges from paper recycling mechanically separated rejects from pulping of waste paper and cardboard wastes from sorting of paper and cardboard destined for recycling
03 03 03 03 02 03 03 05 03 03 07 03 03 08 03 03 10	wastes from pulp, paper and cardboard production and processing green liquor sludge (from recovery of cooking liquor) de-inking sludges from paper recycling mechanically separated rejects from pulping of waste paper and cardboard wastes from sorting of paper and cardboard destined for recycling fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
03 03 03 03 02 03 03 05 03 03 07 03 03 08 03 03 10 03 03 11	wastes from pulp, paper and cardboard production and processing green liquor sludge (from recovery of cooking liquor) de-inking sludges from paper recycling mechanically separated rejects from pulping of waste paper and cardboard wastes from sorting of paper and cardboard destined for recycling fibre rejects, fibre-, filler- and coating-sludges from mechanical separation sludges from on-site effluent treatment other than those mentioned in 03 03 10
03 03 03 03 02 03 03 05 03 03 07 03 03 08 03 03 10 03 03 11	wastes from pulp, paper and cardboard production and processing green liquor sludge (from recovery of cooking liquor) de-inking sludges from paper recycling mechanically separated rejects from pulping of waste paper and cardboard wastes from sorting of paper and cardboard destined for recycling fibre rejects, fibre-, filler- and coating-sludges from mechanical separation sludges from on-site effluent treatment other than those mentioned in 03 03 10 Wastes from the leather, fur and textile industries
03 03 03 03 02 03 03 05 03 03 07 03 03 08 03 03 10 03 03 11 04 04 01	wastes from pulp, paper and cardboard production and processing green liquor sludge (from recovery of cooking liquor) de-inking sludges from paper recycling mechanically separated rejects from pulping of waste paper and cardboard wastes from sorting of paper and cardboard destined for recycling fibre rejects, fibre-, filler- and coating-sludges from mechanical separation sludges from on-site effluent treatment other than those mentioned in 03 03 10 Wastes from the leather, fur and textile industries wastes from the leather and fur industry
03 03 03 03 02 03 03 05 03 03 07 03 03 08 03 03 10 03 03 11 04 04 01 04 01	wastes from pulp, paper and cardboard production and processing green liquor sludge (from recovery of cooking liquor) de-inking sludges from paper recycling mechanically separated rejects from pulping of waste paper and cardboard wastes from sorting of paper and cardboard destined for recycling fibre rejects, fibre-, filler- and coating-sludges from mechanical separation sludges from on-site effluent treatment other than those mentioned in 03 03 10 Wastes from the leather, fur and textile industries wastes from the leather and fur industry fleshings and lime split wastes
03 03 03 03 02 03 03 05 03 03 07 03 03 08 03 03 10 03 03 11 04 04 01 04 01 01 04 01 05	wastes from pulp, paper and cardboard production and processing green liquor sludge (from recovery of cooking liquor) de-inking sludges from paper recycling mechanically separated rejects from pulping of waste paper and cardboard wastes from sorting of paper and cardboard destined for recycling fibre rejects, fibre-, filler- and coating-sludges from mechanical separation sludges from on-site effluent treatment other than those mentioned in 03 03 10  Wastes from the leather, fur and textile industries wastes from the leather and fur industry fleshings and lime split wastes tanning liquor free of chromium
03 03 03 03 02 03 03 05 03 03 07 03 03 08 03 03 10 03 03 11 04 04 01 04 01 04 01 01 04 01 05 04 01 07	wastes from pulp, paper and cardboard production and processing green liquor sludge (from recovery of cooking liquor) de-inking sludges from paper recycling mechanically separated rejects from pulping of waste paper and cardboard wastes from sorting of paper and cardboard destined for recycling fibre rejects, fibre-, filler- and coating-sludges from mechanical separation sludges from on-site effluent treatment other than those mentioned in 03 03 10  Wastes from the leather, fur and textile industries wastes from the leather and fur industry fleshings and lime split wastes tanning liquor free of chromium sludges, in particular from on-site effluent treatment free of chromium
03 03 03 03 02 03 03 05 03 03 07 03 03 08 03 03 10 03 03 11 04 04 01 04 01 01 04 01 05 04 01 07 04 01 09	wastes from pulp, paper and cardboard production and processing green liquor sludge (from recovery of cooking liquor) de-inking sludges from paper recycling mechanically separated rejects from pulping of waste paper and cardboard wastes from sorting of paper and cardboard destined for recycling fibre rejects, fibre-, filler- and coating-sludges from mechanical separation sludges from on-site effluent treatment other than those mentioned in 03 03 10  Wastes from the leather, fur and textile industries  wastes from the leather and fur industry fleshings and lime split wastes tanning liquor free of chromium sludges, in particular from on-site effluent treatment free of chromium wastes from dressing and finishing
03 03 03 03 02 03 03 05 03 03 07 03 03 08 03 03 10 03 03 11 04 04 01 04 01 01 04 01 05 04 01 07 04 01 09 04 02	wastes from pulp, paper and cardboard production and processing green liquor sludge (from recovery of cooking liquor)  de-inking sludges from paper recycling mechanically separated rejects from pulping of waste paper and cardboard wastes from sorting of paper and cardboard destined for recycling fibre rejects, fibre-, filler- and coating-sludges from mechanical separation sludges from on-site effluent treatment other than those mentioned in 03 03 10  Wastes from the leather, fur and textile industries wastes from the leather and fur industry fleshings and lime split wastes tanning liquor free of chromium sludges, in particular from on-site effluent treatment free of chromium wastes from dressing and finishing wastes from the textile industry
03 03 03 03 02 03 03 05 03 03 07 03 03 08 03 03 10 03 03 11 04 04 01 04 01 01 04 01 05 04 01 07 04 01 09 04 02 04 02 09	wastes from pulp, paper and cardboard production and processing green liquor sludge (from recovery of cooking liquor)  de-inking sludges from paper recycling mechanically separated rejects from pulping of waste paper and cardboard wastes from sorting of paper and cardboard destined for recycling fibre rejects, fibre-, filler- and coating-sludges from mechanical separation sludges from on-site effluent treatment other than those mentioned in 03 03 10  Wastes from the leather, fur and textile industries wastes from the leather and fur industry fleshings and lime split wastes tanning liquor free of chromium sludges, in particular from on-site effluent treatment free of chromium wastes from the textile industry wastes from the textile industry wastes from composite materials (impregnated textile, elastomer, plastomer)
03 03 03 03 02 03 03 05 03 03 07 03 03 08 03 03 10 03 03 11 04 04 01 04 01 04 01 01 04 01 05 04 01 07 04 01 09 04 02 04 02 09 04 02 10	wastes from pulp, paper and cardboard production and processing green liquor sludge (from recovery of cooking liquor) de-inking sludges from paper recycling mechanically separated rejects from pulping of waste paper and cardboard wastes from sorting of paper and cardboard destined for recycling fibre rejects, fibre-, filler- and coating-sludges from mechanical separation sludges from on-site effluent treatment other than those mentioned in 03 03 10  Wastes from the leather, fur and textile industries wastes from the leather and fur industry fleshings and lime split wastes tanning liquor free of chromium sludges, in particular from on-site effluent treatment free of chromium wastes from the textile industry wastes from the textile industry wastes from composite materials (impregnated textile, elastomer, plastomer) organic matter from natural products (for example grease, wax)

04 02 22	westes from processed toytile fibres
	wastes from processed textile fibres  Wastes from petroleum refining, natural gas purification and pyrolytic
05	treatment of coal
05 01	wastes from petroleum refining
05 01 10	sludges from on-site effluent treatment other than those mentioned in 05 01 09
05 01 17	bitumen
05 07	wastes from natural gas purification and transportation
05 07 02	wastes containing sulphur
06	Wastes from inorganic chemical processes
06 03	wastes from the MFSU of salts and their solutions and metallic oxides
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
06 05	sludges from on-site effluent treatment
06 05 03	sludges from on-site effluent treatment other than those mentioned in 06 05 02
06 06	wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes
06 06 03	wastes containing sulphides other than those mentioned in 06 06 02
07	Wastes from organic chemical processes
07 01	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 12	sludges from on-site effluent treatment other than those mentioned in 07 01 11
07 02	wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 12	sludges from on-site effluent treatment other than those mentioned in 07 02 11
07 02 15	wastes from additives other than those mentioned in 07 02 14
07 02 17	waste containing silicones other than those mentionned in 07 02 16
07 03	wastes from the MFSU of organic dyes and pigments (except 06 11)
07 03 12	sludges from on-site effluent treatment other than those mentioned in 07 03 11
07 04	wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides
07 04 12	sludges from on-site effluent treatment other than those mentioned in 07 04 11
07 05	wastes from the MFSU of pharmaceuticals
07 05 12	sludges from on-site effluent treatment other than those mentioned in 07 05 11
07 06	wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 12	sludges from on-site effluent treatment other than those mentioned in 07 06 11
07 07	wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 12	sludges from on-site effluent treatment other than those mentioned in 07 07 11
08	Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks
08 01	wastes from MFSU and removal of paint and varnish
08 01 14	sludges from paint or varnish other than those mentioned in 08 01 13
08 01 16	aqueous sludges containing paint or varnish other than those mentioned in 08 01 15

08 01 18	wastes from paint or varnish removal other than those mentioned in 08 01 17
08 01 20	aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19
08 02	wastes from MFSU of other coatings (including ceramic materials)
08 02 01	waste coating powders
08 03	wastes from MFSU of printing inks
08 03 07	aqueous sludges containing ink
08 03 08	aqueous liquid waste containing ink
08 03 13	waste ink other than those mentioned in 08 03 12
08 03 15	ink sludges other than those mentioned in 08 03 14
08 04	wastes from MFSU of adhesives and sealants (including water proofing products)
08 04 14	aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13
08 04 16	aqueous liquid waste containing adhesives or sealants other than those mentioned in 08 04 15
10	Wastes from thermal processes
10 01	wastes from power stations and other combustion plants (except 19)
10 01 26	wastes from cooling-water treatment
10 02	wastes from the iron and steel industry
10 02 12	wastes from cooling-water treatment other than those mentioned in 10 02 11
10 08	wastes from other non-ferrous thermal metallurgy
10 08 20	wastes from cooling-water treatment other than those mentioned in 10 08 19
10 10	wastes from casting of non-ferrous pieces
10 10 14	waste binders other than those mentioned in 10 10 13
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 13	sludge from on-site effluent treatment
11	Wastes from chemical surface treatment and coating of metals and other materials; non-ferrous hydro-metallurgy
11 01	wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)
11 01 12	aqueous rinsing liquids other than those mentioned in 11 01 11
12	Wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01	wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 17	waste blasting material other than those mentioned in 12 01 16
12 01 21	spent grinding bodies and grinding materials other than those mentioned in 12 01 20
16	Wastes not otherwise specified in the list
16 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)

16 01 15	antifreeze fluids other than those mentioned in 16 01 14
16 03	off-specification batches and unused products
16 03 06	organic wastes other than those mentioned in 16 03 05
<b>16 05</b>	gases in pressure containers and discarded chemicals
16 05 05	gases in pressure containers other than those mentioned in 16 05 04
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
<b>16 10</b> 16 10 02	aqueous liquid wastes destined for off-site treatment
	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 the preparation of water intended for human consumption and water for industrial use
19 01	wastes from incineration or pyrolysis of waste
19 01 18	pyrolysis wastes other than those mentioned in 19 01 17
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 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 05	wastes from aerobic treatment of solid wastes
19 05 03	off-specification compost
19 05 03 19 06	
	off-specification compost
19 06	off-specification compost wastes from anaerobic treatment of waste
<b>19 06</b> 19 06 03	off-specification compost  wastes from anaerobic treatment of waste  liquor from anaerobic treatment of municipal waste
<b>19 06</b> 19 06 03 19 06 04	off-specification compost  wastes from anaerobic treatment of waste liquor from anaerobic treatment of municipal waste digestate from anaerobic treatment of municipal waste
19 06 19 06 03 19 06 04 19 06 05	off-specification compost  wastes from anaerobic treatment of waste  liquor from anaerobic treatment of municipal waste  digestate from anaerobic treatment of municipal waste  liquor from anaerobic treatment of animal and vegetable waste
19 06 19 06 03 19 06 04 19 06 05 19 06 06	off-specification compost  wastes from anaerobic treatment of waste  liquor from anaerobic treatment of municipal waste  digestate from anaerobic treatment of municipal waste  liquor from anaerobic treatment of animal and vegetable waste  digestate from anaerobic treatment of animal and vegetable waste
19 06 19 06 03 19 06 04 19 06 05 19 06 06 19 07	off-specification compost  wastes from anaerobic treatment of waste liquor from anaerobic treatment of municipal waste digestate from anaerobic treatment of municipal waste liquor from anaerobic treatment of animal and vegetable waste digestate from anaerobic treatment of animal and vegetable waste landfill leachate
19 06 19 06 03 19 06 04 19 06 05 19 06 06 19 07 19 07 03	off-specification compost  wastes from anaerobic treatment of waste liquor from anaerobic treatment of municipal waste digestate from anaerobic treatment of municipal waste liquor from anaerobic treatment of animal and vegetable waste digestate from anaerobic treatment of animal and vegetable waste landfill leachate landfill leachate other than those mentioned in 19 07 02
19 06 19 06 03 19 06 04 19 06 05 19 06 06 19 07 19 07 03 19 08	off-specification compost  wastes from anaerobic treatment of waste liquor from anaerobic treatment of municipal waste digestate from anaerobic treatment of municipal waste liquor from anaerobic treatment of animal and vegetable waste digestate from anaerobic treatment of animal and vegetable waste landfill leachate landfill leachate other than those mentioned in 19 07 02 wastes from waste water treatment plants not otherwise specified
19 06 19 06 03 19 06 04 19 06 05 19 06 06 19 07 19 07 03 19 08 19 08 01	off-specification compost  wastes from anaerobic treatment of waste  liquor from anaerobic treatment of municipal waste  digestate from anaerobic treatment of municipal waste  liquor from anaerobic treatment of animal and vegetable waste  digestate from anaerobic treatment of animal and vegetable waste  landfill leachate  landfill leachate other than those mentioned in 19 07 02  wastes from waste water treatment plants not otherwise specified  screenings
19 06 19 06 03 19 06 04 19 06 05 19 06 06 19 07 19 07 03 19 08 19 08 01 19 08 02	wastes from anaerobic treatment of waste liquor from anaerobic treatment of municipal waste digestate from anaerobic treatment of municipal waste liquor from anaerobic treatment of animal and vegetable waste digestate from anaerobic treatment of animal and vegetable waste landfill leachate landfill leachate landfill leachate other than those mentioned in 19 07 02 wastes from waste water treatment plants not otherwise specified screenings waste from desanding
19 06 19 06 03 19 06 04 19 06 05 19 06 06 19 07 19 07 03 19 08 19 08 01 19 08 02 19 08 05	off-specification compost  wastes from anaerobic treatment of waste liquor from anaerobic treatment of municipal waste digestate from anaerobic treatment of municipal waste liquor from anaerobic treatment of animal and vegetable waste digestate from anaerobic treatment of animal and vegetable waste landfill leachate landfill leachate landfill leachate other than those mentioned in 19 07 02  wastes from waste water treatment plants not otherwise specified screenings waste from desanding sludges from treatment of urban waste water
19 06  19 06 03  19 06 04  19 06 05  19 06 06  19 07  19 07 03  19 08  19 08 01  19 08 02  19 08 05  19 08 09	off-specification compost  wastes from anaerobic treatment of waste  liquor from anaerobic treatment of municipal waste  digestate from anaerobic treatment of municipal waste  liquor from anaerobic treatment of animal and vegetable waste  digestate from anaerobic treatment of animal and vegetable waste  landfill leachate  landfill leachate other than those mentioned in 19 07 02  wastes from waste water treatment plants not otherwise specified  screenings  waste from desanding  sludges from treatment of urban waste water  grease and oil mixture from oil/water separation containing only edible oil and fats  sludges from biological treatment of industrial waste water other than those
19 06  19 06 03  19 06 04  19 06 05  19 06 06  19 07  19 07 03  19 08  19 08 01  19 08 02  19 08 05  19 08 09  19 08 12	wastes from anaerobic treatment of waste liquor from anaerobic treatment of municipal waste digestate from anaerobic treatment of municipal waste liquor from anaerobic treatment of animal and vegetable waste digestate from anaerobic treatment of animal and vegetable waste landfill leachate landfill leachate landfill leachate other than those mentioned in 19 07 02 wastes from waste water treatment plants not otherwise specified screenings waste from desanding sludges from treatment of urban waste water grease and oil mixture from oil/water separation containing only edible oil and fats sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11 sludges from other treatment of industrial waste water other than those mentioned in
19 06  19 06 03  19 06 04  19 06 05  19 06 06  19 07  19 07 03  19 08  19 08 01  19 08 02  19 08 05  19 08 09  19 08 12	wastes from anaerobic treatment of waste liquor from anaerobic treatment of municipal waste digestate from anaerobic treatment of municipal waste liquor from anaerobic treatment of animal and vegetable waste digestate from anaerobic treatment of animal and vegetable waste landfill leachate landfill leachate landfill leachate other than those mentioned in 19 07 02 wastes from waste water treatment plants not otherwise specified screenings waste from desanding sludges from treatment of urban waste water grease and oil mixture from oil/water separation containing only edible oil and fats sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11 sludges from other treatment of industrial waste water other than those mentioned in 19 08 13 wastes from the preparation of water intended for human consumption or
19 06 19 06 03 19 06 04 19 06 05 19 06 06 19 07 19 07 03 19 08 19 08 01 19 08 02 19 08 05 19 08 09 19 08 12 19 08 14	wastes from anaerobic treatment of waste liquor from anaerobic treatment of municipal waste digestate from anaerobic treatment of municipal waste liquor from anaerobic treatment of animal and vegetable waste digestate from anaerobic treatment of animal and vegetable waste landfill leachate landfill leachate landfill leachate other than those mentioned in 19 07 02 wastes from waste water treatment plants not otherwise specified screenings waste from desanding sludges from treatment of urban waste water grease and oil mixture from oil/water separation containing only edible oil and fats sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11 sludges from other treatment of industrial waste water other than those mentioned in 19 08 13 wastes from the preparation of water intended for human consumption or water for industrial use

19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13	wastes from soil and groundwater remediation
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
19 13 06	sludges from groundwater remediation other than those mentioned in 19 13 05
19 13 08	aqueous liquid wastes and aqueous concentrates from groundwater remediation other than those mentioned in 19 13 07
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 08	biodegradable kitchen and canteen waste
20 01 25	edible oil and fat
20 01 30	detergents other than those mentioned in 20 01 29
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste
20 03	other municipal wastes
20 03 01	mixed municipal waste
20 03 02	waste from markets
20 03 03	street-cleaning residues
20 03 04	septic tank sludge
20 03 06	waste from sewage cleaning

Table S2.4 Permitte sludge cake (AR12)	d waste types and quantities for dewatering and temporary storage of digested
Maximum quantity	Annual throughput shall not exceed 55,000 tonnes
Exclusions	Wastes having any of the following characteristics shall not be accepted:
	<ul> <li>Wastes containing persistent organic pollutants.</li> <li>Wastes containing Japanese Knotweed or other invasive plant species listed in the Invasive Species (Amendment etc.) (EU Exit) Regulations 2019.</li> <li>Manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013.</li> <li>Pest infested waste.</li> <li>Hazardous waste.</li> </ul>
Waste code	Description
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
19 06	wastes from anaerobic treatment of waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste (digested sewage sludge only)

# Schedule 3 – Emissions and monitoring

Emission	Source	Parameter	Limit	Reference	Monitoring	Monitoring
point ref. & location			(including unit)	period	frequency	standard or method
Existing med	lium combustion pla	nt which are en	gines fuelled	d on biogas (	(1 MW to 5MV	V)
Point A1 on site plan in	CHP engine 1 stack	Oxides of Nitrogen	500 mg/m <sup>3</sup>	Average over	Annual	BS EN 14792
Schedule 7	[note 1]	(NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )		sample period		
		Sulphur dioxide	350 mg/m <sup>3</sup> [note 2]			BS EN 14791 or
		Sulphur dioxide	162 mg/m <sup>3</sup> [note 3]			CEN TS 17021
						or by calculation based on fuel sulphur
		Carbon monoxide	1400 mg/m <sup>3</sup>			BS EN 15058
		Total VOCs	No limit set			BS EN 12619
Existing med	lium combustion pla	nt other than er	ngines fuelle	d on biogas	(less than 1	MW)
Point A2 on site plan in schedule 7	Auxiliary Boiler 1					
Point A3 on site plan in schedule 7	Auxiliary Boiler 2					
Point A4 on site plan in schedule 7	Emergency flare stack [note 1]	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	150 mg/m <sup>3</sup>	Average over sample period	[note 4]	BS EN 14792
		Carbon monoxide	50 mg/m <sup>3</sup>			BS EN 15058
		Total VOCs	10 mg/m <sup>3</sup>			BS EN 12619
Point A5 on site plan in schedule 7	Oil/Fuel Storage tanks	No parameter set	No limit set			
Point A6 on site plan in schedule 7	Primary digester pressure relief valve	Biogas release and operational events	No limit set	Recorded duration and frequency	Daily inspection	
Point A7 on site plan in schedule 7	Primary digester pressure relief valve	Biogas release and operational events	No limit set	Recorded duration and frequency	Daily inspection	

Table S3.1 Po	oint source emission	s to air – emiss	sion limits an	d monitorin	g requiremen	ts
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
Point A8 on site plan in schedule 7	Gas holder pressure relief valve	Biogas release and operational events	No limit set	Recorded duration and frequency	Daily inspection	
Odour abatement plant (Proposed)	Channelled emissions such as odour abatement stack or vent(s) [note 5]	Hydrogen sulphide	No limit set	Average over sample period	Once every 6 months	CEN TS 13649 for sampling NIOSH 6013 for analysis
		Ammonia	20 mg/m <sup>3</sup>	Average over sample period	Once every 6 months	EN ISO 21877
		Odour concentration	1,000 ou <sub>E</sub> /m <sup>3</sup>	Average over sample period	Once every 6 months	BS EN 13725
Odour abatement plant (Proposed)	Channelled emissions to air from treatment of water-based liquid	Hydrogen chloride (HCI)	5 mg/m <sup>3</sup> [note 6]	Average over sample period	Once every 6 months	EN 1911
	waste	TVOC	20 mg/m <sup>3</sup> [note 6]	Average over sample period	Once every six months	EN 12619

Note 1 – These emission limits are based on normal operating conditions and load - temperature 0°C (273 K); pressure 101.3 kPa and oxygen 5% (for gas engines burning biogas) and oxygen 3% (for emergency flares and medium combustion plants other than engines and gas turbines burning biogas such as boilers).

Note 2 - This emission limit applies until 31 December 2029, unless the gas engine is replaced.

Note 3 – This emission limit applies from 1 January 2030, unless otherwise advised by the Environment Agency.

Note 4 – Following commissioning, monitoring to be undertaken in the event the emergency flare has been operational for more than 10 per cent of a year (876 hours). Record of operating hours to be submitted annually to the Environment Agency.

Note 5 – The monitoring of NH $_3$  and H $_2$ S can be used as an alternative to the monitoring of the odour concentration subject to the outcome of IC12.

Note 6 – Monitoring and limits only apply where the substance concerned is identified as relevant in the waste gas inventory IC12.

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter [Note 1]	Limit (incl. unit) [Note 1]	Reference Period	Monitoring frequency [Note 2]	Monitoring standard or method
S1, S2 and S3 on site plan in schedule 7	Site surface water/water from bunded areas/	Oil and grease	No visible oil or grease		Weekly	Visual assessment
emission to Bottesford	Treated waste waters	Benzene, toluene,		Spot sample or	Once every month	EN ISO 15680

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements

emission limit	s and monitoring r	equirements				
Emission point ref. & location	Source	Parameter [Note 1]	Limit (incl. unit) [Note 1]	Reference Period	Monitoring frequency [Note 2]	Monitoring standard or method
Brook /River Trent via Scunthorpe		ethylbenzene, xylene (BTEX)		flow- proportion al		
water treatment works		Hydrocarbon oil index (HOI)	10 mg/l	composite sample	Once every day	EN ISO 9377-2
		Free cyanide (CN <sup>-</sup> )	0.1 mg/l			EN ISO 14403-1 or EN ISO 14403-2
		Adsorbable organically bound halogens (AOX)	1 mg/l			EN ISO 9562
		Arsenic (As)	0.1 mg/l	Spot	Once every	EN ISO
		Cadmium (Cd)	0.1 mg/l	sample or flow-proportion		11885, EN ISO 17294-2 or EN ISO 15586
		Chromium (Cr)	0.3 mg/l	al composite		
		Copper (Cu)	0.5 mg/l	sample		
		Lead (Pb)	0.3 mg/l			
		Nickel (Ni)	1 mg/l			
		Zinc (Zn)	2 mg/l			
		Mercury (Hg)	10 μg/l	Spot sample or flow- proportion	ample or day operation day omposite	EN ISO 17852 or EN ISO 12846
		Manganese (Mn)		al composite sample		EN ISO 11885, EN ISO 17294-2 or EN ISO 15586
		Hexavalent chromium (Cr(VI))	0.1 mg/l			EN ISO 10304-3 or EN ISO 23913
		PFOA and PFOS			Once every six months	
S4 on site plan in schedule 7 emission to Bottesford Brook /River	Discharge of tankered waste waters to the head of works	[Note 3]	[Note 3]	[Note 3]	[Note 3]	[Note 3]

### Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter [Note 1]	Limit (incl. unit) [Note 1]	Reference Period	Monitoring frequency [Note 2]	Monitoring standard or method
Trent via Scunthorpe water treatment works						

Note 1 – Monitoring and limits only apply where the substance concerned is identified as relevant in the waste water inventory as determined by improvement condition IC10a and IC10b.

Note 3 – Emission limits and monitoring requirements to be set following completion of IC13a and IC13b.

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications	
Digester feed	pH	As described in	As described	Process	
(digestion process)	Alkalinity	site operating techniques	in site operating	monitoring to be recorded using a	
	Temperature		techniques	SCADA system where relevant.	
	Hydraulic loading rate			where relevant.	
	Organic loading rate				
	Volatile fatty acids concentration	-			
	Ammonia				
	Liquid /foam level				
Biogas in digester & biogas storage holder(s)	Flow	Continuous	In accordance with EU weights and measures Regulations	Process monitoring to be recorded using a SCADA system where relevant.	
	Methane	Continuous	None specified	Gas monitors to	
	CO <sub>2</sub>	Continuous	None specified	be calibrated every 6 months or in accordance	
	O <sub>2</sub>	Continuous	None specified	with the manufacturer's	
	Hydrogen sulphide	Daily	None specified	recommendations.	
	Pressure	Continuous	None specified		
Digestate batch	Volatile fatty acids concentration	One sample at the end of each	As described in site		
	Ammonia	batch (hydraulic			

Note 2 – Monitoring frequency as specified unless the Environment Agency has agreed in writing other alternative appropriate monitoring frequencies.

Table S3.3 Process mor	nitoring requirements	5		
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
		retention time) cycle.	operating techniques	
Digesters and storage tanks	Integrity checks	Weekly	Visual assessment	In accordance with design specification and tank integrity checks.
Digesters	Agitation /mixing	Continuous	Systems controls	Records maintained in daily operational records.
	Tank capacity and sediment assessment	Once every 5 years from date of commission	Non- destructive pressure testing integrity assessment every 5 years or as specified by manufacturers technical specification.	In accordance with design specification and tank integrity checks.
Waste reception building or area; Digesters and storage tanks	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary.
Diffuse emissions from all sources identified in the Leak Detection and Repair (LDAR) programme	VOCs including methane	Every 6 months or otherwise agreed in accordance with the LDAR programme	'Sniffing' and/or Optical Gas Imaging techniques in accordance with BS EN 15446 & BS EN 17628	Monitoring points as specified in a DSEAR risk assessment and LDAR programme.  Limit as agreed with the Environment Agency as a percentage of the overall gas production.
CHP engine stack	VOCs including methane	Annually	BS EN 12619	Total annual VOCs emissions from the CHP engine to be calculated and submitted to the Environment Agency.
	Exhaust gas temperature		Traceable to National Standards	

Emission point reference or source or description of point of	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
measurement	Exhaust gas		Traceable to	
	pressure		National Standards	
	Exhaust gas water vapour content		BS EN 14790- 1	Unless gas is dried before analysis of emissions.
	Exhaust gas oxygen		BS EN 14789	
	Exhaust gas flow		BS EN 16911- 1	
Meteorological conditions	Wind speed, air temperature, wind direction	Continuous	Method as specified in management system	Conditions to be recorded in operational diary and records.
				Equipment shall be calibrated on a 4 monthly basis, in accordance with manufacturer's recommendations or as agreed in writing by the Environment Agency.
Emergency flare	Operating hours	Continuous	Recorded duration and frequency. Recording using a	Date, time and duration of use of auxiliary flare shall be recorded.
	Quantity of gas sent to emergency flare		SCADA system or similar system	Quantity can be estimated from gas flow composition, heat content, ratio of assistance, velocity, purge gas flow rate, pollutant emissions.
Pressure relief valves and vacuum systems	Gas pressure	Continuous	Recording using a SCADA system	Continuous gas pressure shall be monitored.
	Re-seating	Weekly inspection	Visual	Operator must ensure that valves are re-seated after release in accordance with the

Table S3.3 Process monitoring requirements					
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications	
				manufacturer's design.	
	Inspection, maintenance, calibration, repair and validation	Following foaming or overtopping or at 3 yearly intervals whichever is sooner	Written scheme of examination in accordance with condition 1.1.1	After a foaming event or sticking, build-up of debris, obstructions or damage, operator must ensure that pressure relief valve function remains within designed gas pressure in accordance with the manufacturer's design by suitably trained and qualified personnel.	
	Inspection, calibration and validation report	In accordance with design and construction specifications or after over topping or foaming event	Written scheme of examination in accordance with condition 1.1.1	Operator must ensure that valves are re-seated after release, after a foaming event or sticking, build-up of debris, obstructions or damage.	
				Operator must ensure that PRV function remains within designed operation gas pressure in accordance with the manufacturer's design by suitably trained/qualified personnel.	
				Inspection, calibration and validation report. In accordance with industry Approved Code of Practice.	
Storage tanks	Volume	Daily	Visual or flow meter measurement	Records of volume must be maintained.	

Table S3.3 Process mor	nitoring requirements	·		ı
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Odour abatement plant	– as implemented in li	ne with improvemer	nt conditions 7	and 8
Open biofilters				
Biofilter	Surface condition (signs of vegetation and channelling)	Daily	Visual assessment	Odour abatement plant shall be regularly checked
	Gas temperature – inlet	Daily	Temperature probe / Traceable to national standards	and maintained to ensure appropriate temperature and moisture content.
	Biofilter media moisture	Daily	Moisture meter, Grab test, oven drying or recognised industry method	Odour abatement plant shall be managed in accordance with permit condition 3.3, the odour management plan
	Thatching /compaction	Weekly	Back pressure	and manufacturer's
	Gas flow rate – inlet	Continuous	Gas flow meter	recommendations. Equipment shall
	pH (biofilter drainage effluent)	Daily	pH metre or litmus paper	be calibrated on a 4 monthly basis,
	Efficiency assessment	Annual	Media health, air-flow distribution and emission removal efficiency (BS EN 13725 for odour removal)	or as agreed in writing by the Environment Agency.
	Hydrogen sulphide – inlet and outlet gas stream	Every 6 months or as agreed in writing by the Environment Agency.	As agreed in the odour management plan and approved by the Environment Agency	Action levels to be agreed on completion of IC12 as approved in writing by the Environment Agency. Action levels to be achieved in accordance with permit condition 3.2 and the odour management plan.
	Ammonia – inlet	Every 6 months or as agreed in writing by the	As agreed in the odour management	Action levels to be agreed on completion of

Emission point reference or source or	Parameter	Monitoring frequency	Monitoring standard or	Other specifications
description of point of measurement			method	
		Environment Agency.	plan and approved by the Environment Agency	IC12 as approved in writing by the Environment Agency.
				Action levels to be achieved in accordance with permit condition 3.2 and the odour management plan.
	Odour concentration – inlet and outlet gas stream	Every 6 months or as agreed in writing by the Environment Agency.	BS EN 13725	Action levels to be agreed on completion of IC12 as approved in writing by the Environment Agency.
				Action levels to be achieved in accordance with permit condition 3.2 and the odour management plan.
Closed biofilters	1			
Biofilter	Gas temperature – inlet and outlet	Daily	Temperature probe / Traceable to national standards	Odour abatement plant shall be regularly checked and maintained to ensure
	Biofilter media moisture	Daily	Moisture meter, Grab test, oven drying or recognised industry method	appropriate temperature and moisture content.  Odour abatement plant shall be managed in
	Thatching /compaction	Weekly	Back pressure	accordance with permit condition 3.3, the odour
	Gas flow rate – inlet and outlet	Continuous	Gas flow meter	management plan and
	pH (biofilter drainage effluent)	Daily	pH metre or litmus paper	manufacturer's recommendations.
	Efficiency assessment	Annual	Media health, air-flow	Equipment shall be calibrated on a

Table S3.3 Process mor	Table S3.3 Process monitoring requirements			
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
			distribution and emission removal efficiency (BS EN 13725 for odour removal)	4 monthly basis, or as agreed in writing by the Environment Agency.
	Hydrogen sulphide – inlet and outlet gas stream	Every 6 months or as agreed in writing by the Environment Agency.	CEN TS 13649 for sampling NIOSH 6013 for analysis	Action levels to be agreed on completion of IC12 as approved in writing by the Environment Agency.
				Action levels to be achieved in accordance with permit condition 3.2 and the odour management plan.
	Ammonia – inlet	Every 6 months or as agreed in writing by the Environment Agency.	EN ISO 21877	Action levels to be agreed on completion of IC12 as approved in writing by the Environment Agency.
				Action levels to be achieved in accordance with permit condition 3.2 and the odour management plan.
	Odour concentration  – inlet and outlet gas stream	Every 6 months or as agreed in writing by the Environment Agency.	BS EN 13725	Action levels to be agreed on completion of IC12 as approved in writing by the Environment Agency.
				Action levels to be achieved in accordance with permit condition 3.2 and the odour

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
				management plan.
Scrubbers (water/chem	ical/dry)			
Scrubber	Gas temperature – inlet and outlet	Continuous	Temperature probe / Traceable to national standards	Odour abatement plant shall be regularly checked and maintained to ensure
	Gas flow rate – inlet and outlet	Continuous	Gas flow meter	appropriate temperature and moisture content.
	Moisture content or humidity – inlet and outlet (for dry scrubbers only)	Daily	Moisture meter	Odour abatement plant shall be managed in
	Moisture content or humidity – outlet (for wet scrubbers if used before other abatement systems)	Daily	Moisture meter	managed in accordance with permit condition 3.3, the odour management plan and manufacturer's recommendations  Equipment shall be calibrated on a 4 monthly basis, or as agreed in writing by the Environment Agency.
	Back pressure	Weekly	Pressure differential using sensors	
	Efficiency assessment	Annual	Emission removal efficiency (BS EN 13725 for odour removal)	
	pH scrubber solution (pre-abatement)	Continuous	pH meter	
	pH scrubber solution (post-abatement)	Continuous	pH meter	
	Hydrogen sulphide – inlet and outlet gas stream	Every 6 months or as agreed in writing by the Environment Agency.	CEN TS 13649 for sampling NIOSH 6013 for analysis	Action levels to be agreed on completion of IC12 as approved in writing by the Environment Agency.
				Action levels to be achieved in accordance with permit condition 3.2 and the odour management plan.

Table S3.3 Process mor	nitoring requirements			
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
	Ammonia – inlet	Every 6 months or as agreed in writing by the Environment Agency.	EN ISO 21877	Action levels to be agreed on completion of IC12 as approved in writing by the Environment Agency.
				Action levels to be achieved in accordance with permit condition 3.2 and the odour management plan.
Carbon filters				
Carbon filter 1	Carbon bed temperature – inlet and outlet	Continuous	Temperature probe	Odour abatement plant shall be managed in
	Gas flow rate – inlet and outlet	Continuous	Gas flow meter	accordance with permit condition 3.3, the odour
	Moisture or humidity	Daily	Moisture meter	management plan and manufacturer's
	Back pressure	Weekly	Recognised industry method	recommendations.
	Efficiency assessment	Annual	Emission removal efficiency (BS EN 13725 for odour	Carbon filters to be replaced in accordance with manufacturer's recommendations.
			removal)	Equipment shall be calibrated on a 4 monthly basis, or as agreed in writing by the Environment Agency.
	Hydrogen sulphide – inlet and outlet gas stream	Every 6 months or as agreed in writing by the Environment Agency.	CEN TS 13649 for sampling NIOSH 6013 for analysis	Action levels to be agreed on completion of IC12 as approved in writing by the Environment Agency.
				Action levels to be achieved in

Table S3.3 Process more Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
				accordance with permit condition 3.2 and the odour management plan.
	Ammonia – inlet	Every 6 months or as agreed in writing by the Environment Agency.	EN ISO 21877	Action levels to be agreed on completion of IC12 as approved in writing by the Environment Agency.
				Action levels to be achieved in accordance with permit condition 3.2 and the odour management plan.
	Odour concentration  – inlet and outlet gas stream	Every 6 months or as agreed in writing by the Environment Agency.	BS EN 13725	Action levels to be agreed on completion of IC12 as approved in writing by the Environment Agency.
				Action levels to be achieved in accordance with permit condition 3.2 and the odour management plan.

Table S3.4 Bio	Table S3.4 Bioaerosols monitoring requirements – ambient monitoring				
Location or description of point of measurement	Parameter	Bioaerosols action levels (CFU m <sup>-3</sup> )	Monitoring frequency	Monitoring standard or method	Other specifications
Upwind of the operational area, as described in the Technical Guidance Note M9	Total bacteria	1000 Note 1	Quarterly for the first year of operation and twice a year thereafter, unless another frequency is agreed in writing by the	In accordance with Technical Guidance Note M9 – Environmental monitoring of bioaerosols at	As described in the Technical Guidance Note M9, including all the additional data
Downwind of the operational area, as described in the Technical Guidance Note M9	Aspergillus Fumigatus	500 Note 1	Environment Agency Note 2	regulated facilities.	requirements specified therein.

Note 1 – The bioaerosols action levels are only applicable at downwind sampling locations equivalent to the distance of the nearest sensitive receptor. Where these action levels are elevated, the operator must take action to mitigate the impact on sensitive receptors. Assessment of compliance will be based on risk and in line with guidance.

Note 2 – Where the bioaerosols action levels are exceeded, then monitoring remain quarterly until such time that it is demonstrated that the site has adequate mitigation for a 12-month period.

Table S3.5 Emissions to points	Table S3.5 Emissions to sewer, effluent treatment plant or other transfers off-site – Monitoring points				
Effluent(s) and discharge point(s)	Monitoring type	Monitoring point NGR	Monitoring point reference		
S1 on site plan in schedule 7 emission to Bottesford Brook /River Trent [Scunthorpe WwTW]	Effluent monitoring	SE 87371 05848	Point S1 [Discharge to WwTW] in Schedule 7		
S2 on site plan in schedule 7 emission to Bottesford Brook /River Trent [Scunthorpe WwTW]	Effluent monitoring	SE 87278 05844	Point S2 [Discharge to WwTW] in Schedule 7		
S3 on site plan in schedule 7 emission to Bottesford Brook /River Trent [Scunthorpe WwTW]	Effluent monitoring	SE 87473 05786	Point S3 [Discharge to WwTW] in Schedule 7		
S4 on site plan in schedule 7 emission to Bottesford Brook /River Trent [Scunthorpe WwTW]	Effluent monitoring	SE 87305 05875	Point S4 [Discharge to WwTW] in Schedule 7		

## 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	Table S4.1 Reporting of monitoring data				
Parameter	Emission or monitoring point/reference	Reporting period	Period begins		
Emissions to air from CHP engine Parameters as required by condition 3.5.1.	A1	Every 12 months	1 January		
Emissions to air from odour abatement plant Parameters as required by condition 3.5.1.	To be confirmed following completion of IC7 and IC8	Every 6 months	1 January, 1 July		
Emissions to sewer Parameters as required by condition 3.5.1	S1, S2, S3 and S4	Upon completion of IC10 and IC13	Upon completion of IC10 and IC13		
Process monitoring – digester tank integrity Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.3	Every 5 years from the date of commissioning or as per the manufacturer's recommendation, whichever is sooner	1 January		
Process monitoring – under and over pressure relief systems Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.3	Every 12 months Yearly summary report of over- pressure and under-pressure events detailing mass balance release	1 January		
Process monitoring – pressure relief systems - leak detection and repair (inspection, calibration and maintenance) Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.3	Every 3 years	1 January		
Process monitoring – leak detection and repair surveys Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.3	Every 12 months LDAR report to be submitted annually	1 January		
Process monitoring – use of emergency flare Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.3	Every 12 months	1 January		
Non-compostable contamination removal efficiency Parameters as required by conditions 2.3.4 and 2.3.7		Every 12 months Yearly report of detailing contamination removal efficiency and progress with	1 January		

Table S4.1 Reporting of monitoring data				
Parameter	Emission or monitoring point/reference	Reporting period	Period begins	
		plastic reduction contamination		
Total annual VOCs emissions from gas engines (calculated)	As specified in schedule 3 table S3.3	Every 12 months	1 January	
Bioaerosols monitoring Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.4	Every 3 months or as agreed in writing by the Environment Agency	1 January, 1 April, 1 July, 1 October	

Table S4.2 Annual production/treatment			
Parameter	Units		
Electricity generated	MWh		
Liquid digestate	m <sup>3</sup>		
Solid digestate	tonnes		
Recovered outputs	tonnes or m <sup>3</sup>		

Table S4.3 Performance parameters				
Parameter	Frequency of assessment	Units		
Water usage	Annually	tonnes or m <sup>3</sup>		
Energy usage	Annually	MWh		
Raw material usage	Annually	tonnes or m <sup>3</sup>		
Emergency flare operation	Annually	hours		
Electricity exported	Annually	MWh		
CHP engine usage	Annually	hours		
CHP engine efficiency	Annually	%		
Auxiliary boiler usage	Annually	hours		

Table S4.4 Reporting forms				
Media/parameter	Reporting format	Date of form		
Air	Form air 1 or other form as agreed in writing by the Environment Agency	V1, 08/03/2021		
Bioaerosols	As specified in the Technical Guidance Note M9 or other form as agreed in writing by the Environment Agency			
Process monitoring	Form process 1 or other form as agreed in writing by the Environment Agency	V1, 08/03/2021		
Sewer	Form sewer 1 or other form as agreed in writing by the Environment Agency	V1, 08/03/2021		

Table S4.4 Reporting forms			
Media/parameter	Reporting format	Date of form	
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	V1, 08/03/2021	
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	V1, 08/03/2021	
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	V1, 08/03/2021	
Waste returns	E-waste Return Form or other form as agreed in writing by the Environment Agency		

#### Schedule 5 - Notification

These pages outline the information that the operator must provide.

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

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

#### Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	
	any malfunction, breakdown or failure of equipment or techniques, ince not controlled by an emission limit which has caused, is pollution
To be notified within 24 hours of	detection
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	
(b) Notification requirements for	the breach of a limit
To be notified within 24 hours of	detection unless otherwise specified below
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	

Date and time of monitoring

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless othe	rwise specified below
Measures taken, or intended to be taken, to stop the emission	
Time periods for notification following detection of a bi	reach of a limit
Parameter	Notification period
(c) Notification requirements for the detection of any si	gnificant 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  Any more accurate information on the matters for	s practicable
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	

<sup>\*</sup> authorised to sign on behalf of the operator

### Schedule 6 - Interpretation

"accident" means an accident that may result in pollution.

"anaerobic digestion" means a process of controlled decomposition of biodegradable materials under managed conditions where free oxygen is absent, at temperatures suitable for naturally occurring mesophilic or thermophilic anaerobes and facultative anaerobe bacteria species, which convert the inputs to a methanerich biogas and whole digestate.

"animal waste" means any waste consisting of animal matter that has not been processed into food for human consumption.

"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.

"appropriate abatement system" means the appropriate treatment technique for channelled emissions to air defined in 6.6.1 'Channelled emissions to air' from the 'Best Available Techniques (BAT) Reference Document for Waste Treatment'.

"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.

"Best available techniques" means the most effective and advanced stage in the development of activities and their methods of operation which indicates the practical suitability of particular techniques for providing the basis for emission limit values and other permit conditions designed to prevent and, where that is not practicable, to reduce emissions and the impact on the environment as a whole:

- (a) 'techniques' includes both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned;
- (b) 'available techniques' means those developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable conditions, taking into consideration the costs and advantages, whether or not the techniques are used or produced inside the Member State in question, as long as they are reasonably accessible to the operator;
- (c) 'best' means most effective in achieving a high general level of protection of the environment as a whole.

"bioaerosols action levels" mean the acceptable bioaerosols concentrations at the nearest sensitive receptor, or at an equivalent distance downwind of the biowaste treatment operations, which are attributable to the biowaste treatment operations. The acceptable concentrations are respectively 1000 and 500 CFU m<sup>-3</sup> for total bacteria and Aspergillus fumigatus. Where these action levels are elevated, the operator must take action to mitigate the impact on sensitive receptors.

"Biodegradable" means a material is capable of undergoing biological anaerobic or aerobic degradation leading to the production of CO<sub>2</sub>, H<sub>2</sub>O, methane, biomass, and mineral salts, depending on the environmental conditions of the process.

"building" means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

"BREF" means Best Available Techniques (BAT) Reference Document.

"Capacity" means the potential capacity and not historical or actual production levels or throughput. This means that the designed capacity is the maximum rate at which the site can operate. Biological treatment of waste usually takes place over more than one day, so the physical daily capacity can be calculated by dividing the maximum quantity of waste that could be subject to biological treatment at any one time by the minimum residence time. For in-vessel composting, the residence time for sanitisation should be calculated separately and then aggregated to the complete composting time. Further guidance 'RGN2: Understanding the meaning of regulated facility Definition of regulated facility' is available.

"channelled emissions" means the emissions of pollutants into the environment through any kind of duct, pipe, stack, etc. This also includes emissions from open top biofilters.

"combined heat and power" (CHP) or Cogeneration means the simultaneous generation in one process of thermal energy and electrical or mechanical energy.

"competent persons and resources" means that a technically competent person accredited to a relevant scheme must attend site and record their attendance, and that all roles and responsibilities are clearly stated in the management systems along with records of operatives' training. See the guidance on the <u>level of competence and duration of attendance</u>

"compost" means solid particulate material that is the result of composting, which has been sanitised and stabilised, and which confers beneficial effects when added to soil, used as a component of growing media or used in another way in conjunction with plants.

"direct discharge" means discharge to a receiving water body.

"diffuse emissions" mean non-channelled emissions (e.g. of dust, organic compounds, odour) which can result in 'area' sources (e.g. tanks) or 'point' sources (e.g. pipe flanges). This also includes emissions from open-air windrow composting.

"digestate" means material resulting from an anaerobic digestion process.

"disposal" means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"DSEAR" means the Dangerous Substances and Explosive Atmospheres Regulations 2002.

"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.

"emissions to land" includes emissions to groundwater.

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

"existing medium combustion plant" means an MCP which was put into operation before 20 December 2018.

"generator" means any combustion plant which is used to generate electricity, excluding mobile, unless it is connected to the national grid.

"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.

"head of works" means the discharge location where imported wastes are discharged into the WwTW. The waste operations associated with the head of works is either via the direct discharge of tankered waste into the WwTW or the temporary storage of waste in a storage tank before discharge of waste into the WwTW. The waste water treatment works are operated under the requirements of the Urban Waste Water Treatment Directive.

"impermeable surface" means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface.

"Indirect discharge" means a discharge to a sewer or off-site waste water treatment plant.

"Industrial Emissions Directive" and/or "IED" means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

"Leak detection and repair (LDAR) programme" means a structured approach to reduce fugitive emissions of organic compounds by detection and subsequent repair or replacement of leaking components. Currently, sniffing (described by EN 15446) and optical gas imaging methods are available for the identification of leaks as set out in BAT 14 and section 6.6.2 of the Waste Treatment BAT Conclusions.

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

"medium combustion plant" or "MCP" means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW.

"Medium Combustion Plant Directive" or "MCPD" means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

"new medium combustion plant" means an MCP which was put into operation after 20 December 2018. This includes replacement MCP and Generators.

"operational area" means any part of a facility used for the handling, storing and treatment of waste.

"operator" means in relation to a regulated facility:

- (a) the person who has control over the operation of the regulated facility,
- (b) if the regulated facility has not yet been put into operation, the person who will have control over the regulated facility when it is put into operation, or
- (c) if a regulated facility authorised by an environmental permit ceases to be in operation, the person who holds the environmental permit

"pests" means Birds, Vermin and Insects.

"PFOA" means Perfluorooctanoic acid.

"PFOS" means Perfluorooctanesulphonic acid.

"pollution" means emissions as a result of human activity which may—

- (a) be harmful to human health or the quality of the environment,
- (b) cause offence to a human sense,
- (c) result in damage to material property, or
- (d) impair or interfere with amenities and other legitimate uses of the environment.

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

"recovery" means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"sanitisation" means the actively managed and intensive stage of composting, lasting for at least 5 days, characterised by high oxygen demand and temperatures of over 55°C, during which biological processes, together with conditions in the composting mass, eradicate human and animal pathogens or reduce them to acceptably low levels. The operator also needs to meet ABPR requirements.

"sealed drainage system" in relation to an impermeable surface, means a drainage system with impermeable components which does not leak and which will ensure that:

- · no liquids will run off the surface otherwise than via the system
- all liquids entering the system are collected in a sealed sump, except where liquids may be lawfully discharged to foul sewer.

"specified generator" means a group of generators other than excluded between 1 and 50 megawatts or less than 50 megawatts as defined in Schedule 25B(2) of SI 2018 No.110 of the EPR.

"stable" and/or "stabilised" means the degree of processing and biodegradation at which the rate of biological activity has slowed to an acceptably low and consistent level and will not significantly increase under favourable, altered conditions.

"VOC" means Volatile organic compounds as defined in Article 3(45) of Directive 2010/75/EU – 'volatile organic compound' means any organic compound as well as the fraction of creosote, having at 293.15K a

vapour pressure of 0.01 kPa or more, or having a corresponding volatility under the particular conditions of use.

"Waste code" means the six-digit code referable to a type of waste in accordance with the List of Wastes (England)Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

"Waste Framework Directive" and/or "WFD" means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

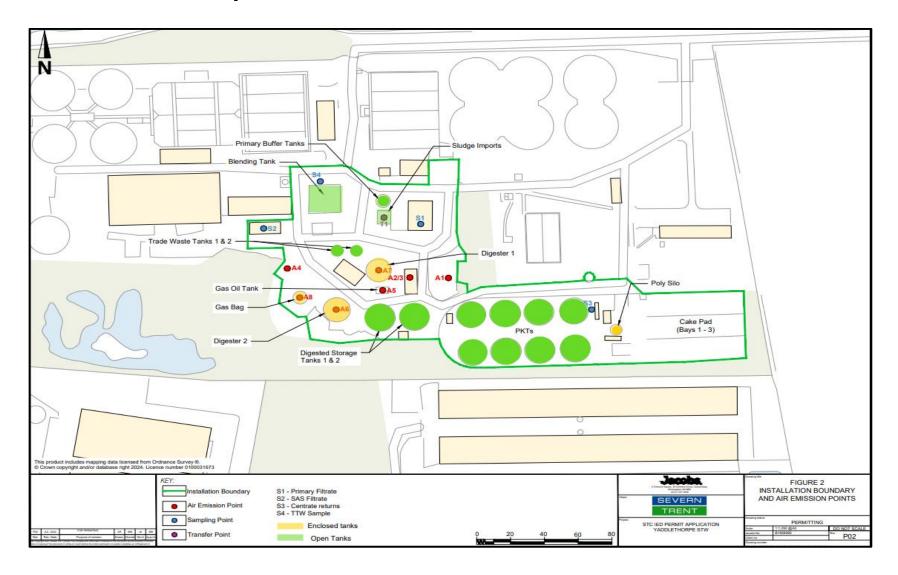
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid fuels and gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

"year" means a calendar year ending on 31 December.

### Schedule 7 – Site plan



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