

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

James Hodge, Victoria Hodge, Henry Hodge, Elizabeth Hodge

Cumberlow Green Farm
Buntingford
Rushden
Hertfordshire
SG9 0QD

Variation application number

EPR/QP3097NT/V007

Permit number

EPR/QP3097NT

Cumberlow Green Farm

Permit number EPR/QP3097NT

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. 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 also 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 to update some of the conditions following a statutory review of the permits in the industry sector for biowaste treatment. The opportunity has also been taken to consolidate the original permit and subsequent variations.

Brief description of the process

Cumberlow Green Farm is a resource recovery facility which currently processes up to 40,000 tonnes per annum of non-hazardous organic solids primarily from kerbside collection and commercial waste streams. The waste recovery operation is an in-vessel composting system followed by open windrow maturation and optional maturation.

Up to 4000 tonnes per year of green waste is accepted for composting in four windrows located on a concrete pad in the southern part of the site. The waste is accepted at the green waste reception area, shredded in the existing shredder and then formed into windrows on the concrete pad. The composting process takes 8 weeks to achieve sanitisation and stabilisation. Moisture and temperature is monitored during this process and the windrows turned as necessary. After completion of the composting process the compost is screened to remove any over-size material and is stored in the storage area for up to 12 months until it is blended and bagged for despatch to end-users.

Treatment and storage operations take place on an impermeable surface (the concrete pad) with a sealed drainage system to minimise impacts on surface water and groundwater. Leachate from the green waste composting process is collected in a lagoon, or other sealed system, and will provide moisture in the process when required or will be disposed of off-site. Emissions of dust, odour and bioaerosols are managed through blending of woody and wetter waste, monitoring moisture and temperature during the composting process and carrying out turning operations when wind conditions are appropriate.

The schedules specify the changes made to the permit.

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

Status log of the permit		
Description	Date	Comments
Licence issued EAWML 80713	27/03/06	Licence issued to James Hodge, Victoria Hodge, Henry Hodge, Elizabeth Hodge for a waste facility using closed windrows for the composting of up to 24,999 tonnes of green waste per annum. (EPR reference EPR/QP3097NT/A001)
Modification application	03/08/07	Application to change composting process to in-vessel composting.
Modification notice issued EAWML 80713	26/02/08	Modification to delete all existing conditions and replace with new conditions. (EPR reference EPR/QP3097NT/V002)
Variation application EPR/QP3097NT/V003	Duly made 21/09/09	Application to increase the maximum tonnage from 25,000 tonnes per year throughput to 30,000 tonnes per annum and to increase the permitted area.
Variation determined EPR/QP3097NT/V003	08/01/10	Variation notice issued.
Variation application EPR/QP3097NT/V004	Duly made 03/02/11	Application to add waste codes.
Variation determined EPR/QP3097NT/V004	04/04/11	Variation notice issued.
Variation application received EPR/QP3097NT/V005	20/06/12	Application to include additional waste types and to increase the annual quantity of waste accepted to 40,000 tonnes per annum.
Schedule 5 notice response received	06/10/12	Revised odour management plan, bioaerosol monitoring sheet and revised management system.
Variation determined EPR/QP3097NT/V005	22/10/12	Notice of variation issued.
Variation application received EPR/QP3097NT/V006	01/09/14	Application to vary permit to include a newly prescribed activity under the Industrial Emissions Directive (IED) and update the permit to modern conditions.
Variation application EPR/QP3097NT/V006	Duly made 21/04/15	Variation to add open windrow composting of green waste. Variation combined with variation received on 01/09/14 to make changes brought about by the Industrial Emissions Directive for 'newly prescribed activities'.
Additional information received Response to schedule 5 notice	10/07/15	Updated H1 Risk Assessment and Drainage Management Plan.

Status log of the permit		
Description	Date	Comments
Additional information received Response to schedule 5 notice	14/07/15	Updated documents.
Additional information received Response to schedule 5 notice	17/07/15	Revised site layout and drainage plans.
Additional information received Response to email dated 22/07/15	30/07/15	Revised Site Drainage Plan.
Additional information received Response to email dated 16/07/15	06/08/15	Revised H1 risk assessment, Management System document and Odour Management Plan.
Variation determined EPR/QP3097NT/V006	10/09/15	Varied and consolidated permit issued including the changes required for the activity to meet the requirements of the Industrial Emissions Directive 'newly prescribed activities' and the additional activity of open windrow composting of green waste.
Application EPR/QP3097NT/V007 (variation and consolidation)	Environment Agency Initiated Variation	Statutory review of permit occasioned by Waste Treatment BAT Conclusions published on 17 August 2018.
Environment Agency Biowaste Treatment Sector Review Permit reviewed Variation determined EPR/QP3097NT/V007 (Billing Ref: EP3534WM)	18/09/2023	Varied and consolidated permit issued.

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/QP3097NT

Issued to

James Hodge, Victoria Hodge, Henry Hodge, Elizabeth Hodge (“the operator”)

whose principal office is

Lake House

Market Hill

Royston

Hertfordshire

SG8 9JN

to operate a regulated facility at

Cumberlow Green Farm

Buntingford

Rushden

Hertfordshire

SG9 0QD

to the extent set out in the schedules.

The notice shall take effect from 18/09/2023.

Name	Date
Maxine Evans	18/09/2023

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/QP3097NT

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/QP3097NT/V007 authorising,

James Hodge, Victoria Hodge, Henry Hodge, Elizabeth Hodge (“the operator”),

whose principal office is

**Lake House
Market Hill
Royston
Hertfordshire
SG8 9JN**

to operate an installation at

**Cumberlow Green Farm
Buntingford
Rushden
Hertfordshire
SG9 0QD**

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

Name	Date
Maxine Evans	18/09/2023

Authorised on behalf of the Environment Agency

Conditions

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

1.3 Efficient use of raw materials

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

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

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

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

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 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 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 and S2.3; 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 Waste pre-acceptance and acceptance procedures shall be undertaken in accordance with best available techniques.

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.

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 table S3.1.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

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

3.3 Odour

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

3.4 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.

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

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 S3.3.
- 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.

Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
- (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
- (b) the annual production/treatment data set out in schedule 4 table S4.2; and
- (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 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 submit to the Environment Agency a bi-annual report of the efficiency of the biofilter in the first year of compost operations. This shall include but not be limited to, the assessment of the efficiency to reduce odours, the summary of maintenance and any re-commissioning planned or conducted, assessment of back pressure, venting and cracking. Thereafter the operator shall submit the report within one month of the end of each year, unless otherwise agreed in writing by the Environment Agency.
- 4.2.7 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.
- 4.2.8 The operator shall submit an annual report detailing the efficiency of removal of non-compostable materials from feedstock prior to processing and the level of contamination in the final recovered compost.

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 reoccurrence 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.

4.4 Interpretation

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

Schedule 1 – Operations

Table S1.1 Activities			
Activity reference	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 involving biological treatment.	R3: Recycling/reclamation of organic substances which are not used as solvents.	From receipt of waste through to composting and recovery of by-products. Composting of waste under aerobic conditions in closed composting reactors or in closed vessels/buildings fitted with appropriate odour abatement and on an impermeable surface with a sealed drainage system. Waste types suitable for acceptance are limited to those specified in Table S2.2.
AR2	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 involving biological treatment.	R3: Recycling/reclamation of organic substances which are not used as solvents.	From receipt of waste through to composting and recovery of by-products. Composting of waste under aerobic conditions in open systems such as outdoor turned windrows or aerated static piles on an impermeable surface with a sealed drainage system. Waste types suitable for acceptance are limited to those specified in Table S2.3.
Directly Associated Activity			
AR3	Storage of waste pending recovery or disposal	R13: Storage of waste pending the R3 operation (excluding temporary storage, pending collection, on the site where it is produced)	From the receipt of waste to despatch for composting or despatch off site for recovery and/or disposal. Storage of waste in an enclosed building fitted with appropriate odour abatement and on an impermeable surface with a sealed drainage system.

Table S1.1 Activities			
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
			Waste types suitable for acceptance are limited to those specified in Table S2.2 and S2.3.
AR4	Physical treatment for the purposes of recycling	R3: Recycling/reclamation of organic substances which are not used as solvents	<p>From the receipt of waste to despatch for composting or despatch off site for recovery.</p> <p>Pre-treatment of waste prior to composting in an enclosed building fitted with appropriate odour abatement and on an impermeable surface with a sealed drainage system including shredding and screening.</p> <p>Post-treatment of processed compost in an enclosed building fitted with appropriate odour abatement and on an impermeable surface with a sealed drainage system including screening to remove contraries.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.2 and S2.3.</p>
AR5	Raw material storage	Storage of raw materials including lubrication oil, antifreeze, activated carbon, diesel.	From the receipt of raw materials to despatch for use within the facility.
AR6	Storage of finished compost and non-composted fraction	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)	<p>From the receipt of processed uncertified compost and non-composted fraction produced at the facility to treatment on site and despatch for use off-site.</p> <p>Storage of processed uncertified compost in an enclosed building fitted with appropriate odour abatement and on an</p>

Table S1.1 Activities			
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
			impermeable surface with a sealed drainage system.
AR7	Process water collection and storage	Collection and storage of compost liquor/leachate in 4 storage tanks and a lagoon (from the green waste composting only).	From the receipt of compost leachate produced at the facility to despatch for treatment at the facility or despatch off site for recovery or disposal.
AR8	Surface water collection and storage	Collection and storage of uncontaminated roof and site surface water in 4 storage tanks and a lagoon (from the green waste composting only).	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.
AR9	Air Treatment	Collection and treatment of air from the buildings or plant using abatement system – (biofilters) prior to release to atmosphere.	From the collection of air from site processes to treatment and release of treated air to atmosphere.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EAWML 80713	The operating techniques contained within the operator's original permit application documentation and any additional documentation addressing operating techniques contained in any subsequent variation application documentation, where applicable.	30/03/05
Variation application EPR/QP3097NT/V006	<ul style="list-style-type: none"> • Response to question 3a in application form Part C3 (technical standards) • EWC Codes – document reference CCS02, revision V3, dated 21/04/15 • Accident Management Plan – document reference CCS)07, dated 01/12/14 • Site Specific Bioaerosol Risk Assessment, Section 7 Risk Mitigation Measures – document reference CCS08, dated 01/12/14 	21/04/15
Response to request for information Schedule 5 notice dated 21/05/15	Drainage and Leachate Management Plan – document reference CCS10, dated 05/06/15	10/07/15
Response to request for information Schedule 5 notice dated 21/05/15	<ul style="list-style-type: none"> • Fugitive Releases Management Plan – document reference CCS06, revision V3, dated 05/06/15 • Noise and Vibration Management Plan – document reference CCS11, revision V2, dated 05/06/15 • Dust Management Plan - document reference CCS12, revision V2, dated 05/06/15 	14/07/15

Table S1.2 Operating techniques		
Description	Parts	Date Received
Response to request for information Schedule 5 notice dated 21/05/15	Response to question 23 Email dated 15/07/15 regarding leachate collection infrastructure	15/07/15
Response to request for information Schedule 5 notice dated 21/05/15	Response to question 2, parts (i) and (iii) Site Plans document reference CCS09, revision V3, dated 17/07/15, excluding plan titled "Site Drainage Plan"	17/07/15
Response to request for information Email dated 16/07/15	<ul style="list-style-type: none"> • Odour Management Plan - document reference CCS05, revision V4, dated 06/08/15 • Management System – document reference CCS04, revision V5, dated 06/08/15 	06/08/15
Response to request for information Email dated 22/07/15	Revised plan titled "Site Drainage Plan" reference CCS09, dated 13/07/15	30/07/15

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	The operator is required to submit a revised written Odour Management Plan. This plan shall be agreed in writing by the Environment Agency. You must implement the Report as approved, and from the date stipulated by the Environment Agency	Completed.
IC2	The operator is required to submit a revised Bioaerosol monitoring sheet. This plan shall be agreed in writing by the Environment Agency. You must implement the monitoring as approved, and from the date stipulated by the Environment Agency.	Superseded.
IC3	The operator is required to submit a revised written Management System. This report shall be agreed in writing by the Environment Agency. You must implement the Report as approved, and from the date stipulated by the Environment Agency.	Completed.
IC4	<p>The operator shall revise the Management System document to include the following:</p> <ul style="list-style-type: none"> • a scale plan of the site to confirm that vessels within the barriers and the maturation pad are suitably sized to hold the tonnage provided in the site's management system; • details regarding the particle size of the waste to be composted in the IVC system to ensure suitable porosity of the compost mass is maintained to allow optimum composting conditions; • details of the conversion factor used to convert tonnage values of compost to volumetric values; • details of the methodology used to provide corroboration of the results of moisture testing using the squeeze test, such as oven drying; 	31/12/15

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<ul style="list-style-type: none"> amended critical limits for temperature in the IVC system in the range 55 to 60 °C in the sanitization phase and 35 to 45 °C in the maturation phase; and details of the procedures for the acceptance, storage, management and use of the liquid waste accepted under code 08 03 08, including the specification of the storage tank, its location and the measures in place to prevent pollution from the storage and use of this waste. <p>The revised Management System document including the changes listed above shall be agreed in writing with the Environment Agency.</p>	
IC5	<p>The operator shall develop and submit a Fire Prevention Plan to the Environment Agency in writing. The plan shall take into account the required information as specified in the Environment Agency's technical guidance, Fire prevention plans (version 2, dated March 2015). The appropriate measures for fire prevention shall, as a minimum, include:</p> <ul style="list-style-type: none"> the management of storage of feedstock, product and/or waste piles; the measures to prevent, detect and contain fires; and the management of fire-waters. <p>The fire prevention plan shall be subject to a written approval by the Environment Agency. The operator shall implement the procedures and measures as approved, and from the date stipulated by the Environment Agency.</p>	31/03/16
IC6	<p>The operator shall install equipment for the monitoring of wind speed and direction at the site at a location to be agreed with the Environment Agency.</p>	31/12/15
Improvement condition for for site risk assessment to prevent soil & groundwater pollution		
IC7	<p>The operator shall submit to the Environment Agency for approval a risk assessment considering the possibility of soil and groundwater contamination at the installation where the activity involves the use, production or release of a relevant hazardous substance (as defined in Article 3(18) of the Industrial Emissions Directive). The risk assessment shall clearly establish with appropriate evidence whether or not there is a risk of contamination of soil and groundwater and should follow the Defra Guidance – Industrial Emissions Directive EPR Guidance on Part A Installations (Section 5.10-5.15, pages 28-29 - Baseline Reports and Permit Surrender).</p>	18/09/2024

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC8	<p>Where the risk assessment carried out under IC7 above establishes a risk to soil and groundwater, the operator shall:</p> <ul style="list-style-type: none"> a) prepare and submit a baseline report compliant with Article 22 of the Industrial Emissions Directive (IED) containing information necessary to determine the current state of soil and groundwater contamination; or b) provide a summary report referring to information previously submitted where the operator is satisfied that such information represents the current state of soil and groundwater contamination, <p>so as to enable a quantified comparison to be made with the state of soil and groundwater contamination upon definitive cessation of activity.</p>	18/09/2024 or other date as agreed in writing with the Environment Agency
Improvement condition for primary containment		
IC9	<p>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 a qualified engineer, and shall assess the extent design specification and condition of primary containment systems where polluting liquids and solids are being stored, treated, and/or handled.</p> <p>The plan shall include:</p> <ul style="list-style-type: none"> • an assessment of the physical condition of all primary containment systems (storage and treatment vessels) using a Written Scheme of Examination and their suitability for providing primary containment when subjected to the dynamic and static loads caused by catastrophic tank failure; • 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; and • a preventative maintenance and inspection regime <p>The plan shall be implemented in accordance with the Environment Agency's written approval.</p>	18/09/2024 or other date as agreed in writing with the Environment Agency
Improvement condition for secondary containment design		
IC10	<p>The operator shall submit a written 'secondary and tertiary 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 a competent structural engineer, in accordance with the risk assessment methodology detailed within CIRIA C736 (2014) guidance, of the condition and extent of secondary and tertiary containment systems where all polluting liquids and solids are being stored, treated, and/or handled.</p>	18/09/2024 or other date as agreed in writing with the Environment Agency

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<p>The inspection shall consider, but not be limited to, the storage vessels, bunds, loading and unloading areas, transfer pipework/pumps, temporary storage areas, and liners underlying the site.</p> <p>The plan shall include:</p> <ul style="list-style-type: none"> • an assessment of the physical condition of all secondary and/or tertiary containment systems, using a Written Scheme of Examination and their suitability for providing containment when subjected to the dynamic and static loads caused by catastrophic tank failure; • a program of works with timescales for the implementation of individual improvement measures necessary for the secondary and/or tertiary containment systems to comply with CIRIA C736 (2014) guidance, or equivalent. • a preventative maintenance and inspection regime <p>The plan shall be implemented in accordance with the Environment Agency's written approval.</p>	
Improvement condition for storage lagoon design including lagoon cover		
IC11	<p>The operator shall submit a written 'storage lagoon 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 a competent structural engineer, in accordance with the risk assessment methodology detailed within CIRIA C736 (2014) guidance, of the condition and extent of the site lagoon(s) where compost leachate /liquor is being stored, treated, and/or handled.</p> <p>The inspection shall consider, but not be limited to, the transfer pipework/pumps, and liners underlying the storage lagoon.</p> <p>The plan shall include:</p> <ul style="list-style-type: none"> • an assessment of the physical condition of the storage lagoon, using a Written Scheme of Examination and the suitability for providing containment when subjected to the dynamic and static loads caused by compost leachate /liquor; • a program of works with timescales for the implementation of individual improvement measures necessary for the storage lagoon to comply with CIRIA C736 (2014) guidance, or equivalent. • a preventative maintenance and inspection regime • Existing cover arrangements on storage lagoons used to store compost leachate /liquor to minimise odour, ammonia and methane emissions <p>The plan shall be implemented in accordance with the Environment Agency's written approval.</p>	18/09/2024 or other date as agreed in writing with the Environment Agency
Improvement condition for operational contingency storage capacity		
IC12	<p>The operator shall provide a written "operational contingency 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</p>	18/09/2024 or other date as agreed in writing

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<p>compost produced from site operations. The review shall examine site contingency arrangements in the event of closed landspreading periods, extreme weather conditions, site closure, disease outbreak etc.</p> <p>The contingency storage plan shall include:</p> <ul style="list-style-type: none"> • Additional storage capacity on-site (at least 2 months storage) and storage capacity off-site; • Identification of alternative outlets for compost – identify companies /permitted waste facilities that would be able to manage the compost output, taking into account their permits and capacity constraints. <p>The plan shall be implemented in accordance with the Environment Agency's written approval.</p>	with the Environment Agency

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
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Table S2.2 Permitted waste types and quantities for composting in closed systems (Activity AR1)	
Maximum quantity	Annual throughput shall not exceed 40,000 tonnes.
Exclusions	<p>Wastes having any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> • 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. • waste consisting solely or mainly of dusts (except sawdust), powders or loose fibres • hazardous wastes • wastes that are in liquid form • wastes containing wood-preserving agents or other biocides and treated wood and post-consumer wood • wastes containing persistent organic pollutants • wastes containing Japanese Knotweed or other invasive plant species listed in the Invasive Species (Amendment etc.) (EU Exit) Regulations 2019 • 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. • pest infested waste
Waste code	Description
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 02	animal-tissue waste
02 01 03	plant-tissue waste
02 01 06	animal faeces, urine and manure (including spoiled fully biodegradable animal bedding)
02 01 07	wastes from forestry
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin

02 02 02	animal-tissue waste
02 02 03	materials unsuitable for consumption or processing
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 (including sludge from production of edible fats and oils, seasoning residues, molasses residues, residues from production of potato, corn or rice starch only)
02 03 04	materials unsuitable for consumption or processing (including waste from production of edible fats and oils, seasoning residues, molasses residues, residues from production of potato, corn or rice starch only)
02 03 05	sludges from on-site effluent treatment treatment (including sludge from production of edible fats and oils, seasoning residues, molasses residues, residues from production of potato, corn or rice starch only)
02 04	wastes from sugar processing
02 04 01	soil from cleaning and washing beet
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 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 – biodegradable wastes from the processing of the raw materials used in the production of such beverages only (wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa))
02 07 02	wastes from spirits distillation – spent grains, hops and whisky filter sheets and cloths, yeast and yeast like residues, sludge from production process, or malt husks, malt sprouts, yeasts and yeast-like residues only
02 07 04	materials unsuitable for consumption or processing – biodegradable wastes from the processing of the raw materials used in the production of such beverages only (wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa))

02 07 05	sludges from on-site effluent treatment – sludges from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
03	Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard
03 01	wastes from wood processing and the production of panels and furniture
03 01 01	waste bark and cork – virgin timber only
03 01 05	sawdust, shavings, cuttings, wood and particle board other than those mentioned in 03 01 04 – virgin timber only
03 03	wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and wood – virgin timber only
03 03 10	fibre rejects only – virgin timber only
04	Wastes from the leather, fur and textile industries
04 02	Waste from the textile industry
04 02 10	organic matter from natural products (un-dyed and untreated only)
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)
15 01 01	paper and cardboard packaging (excluding veneers, plastic coatings or laminates) certified to EN 13432 or equivalent certified compostable standard
15 01 03	wooden packaging – virgin timber only
15 01 05	composite packaging – only biodegradable organic packaging certified to EN 13432 or equivalent certified compostable standard
15 01 09	textile packaging (made entirely from biodegradable fibres only)
17	Construction and demolition wastes (including excavated soil from contaminated sites)
17 02	wood, glass and plastic
17 02 01	wood – allowed if biodegradable material only, with no chemical additives or preservative, and no persistent organics present. Untreated wood only. Not allowed if treated, for example contains veneers, other coatings or preserving substances.
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 06	dredging spoil other than those mentioned in 17 05 05 (from inland waters only)

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 05	wastes from aerobic treatment of solid wastes
19 05 03	off-specification compost from a composting process that accepts waste input types listed in this table, made up of previously sanitised batches only
19 06	wastes from anaerobic treatment of waste
19 06 03	liquor from anaerobic treatment of municipal waste from a process that accepts waste input types listed in this table or anaerobic digestion permit, and made up of previously pasteurised and stabilised batches only
19 06 04	digestate from anaerobic treatment of municipal waste from a process that accepts waste input types listed in this table or anaerobic digestion permit, and made up of previously pasteurised and stabilised batches only
19 06 05	liquor from anaerobic treatment of animal and vegetable waste from a process that accepts waste input types listed in this table or anaerobic digestion permit, and made up of previously pasteurised and stabilised batches only
19 06 06	digestate from anaerobic treatment of animal and vegetable waste (previously digested sewage sludge only)
19 08	wastes from waste water treatment plants not otherwise specified
19 08 05	sludges from treatment of urban waste water
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 01	paper and cardboard (excluding veneers, plastic coatings or laminates) certified to EN 13432 or equivalent certified compostable packaging only
19 12 07	wood other than that mentioned in 19 12 06
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 01	paper and cardboard (excluding veneers, plastic coatings or laminates) meeting EN 13432 or equivalent certified compostable packaging only
20 01 08	Compostable kitchen and canteen waste – containing compostable plastics certified to EN 13432 or equivalent certified compostable only (Category 3 ABPR waste only)
20 01 25	edible oil and fat

20 01 38	wood other than that mentioned in 20 01 37 – Allowed if biodegradable material only, with no chemical additives or preservative, and no persistent organics present. Non treated wood waste. Not allowed if any non-biodegradable coating or preserving substance present.
20 01 39	plastics – compostable plastics only, certified to EN 13432 or equivalent certified compostable standard only. Note – limit for incidental non-compostable plastic is 5% w/w to be removed prior to processing
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste (plant matter only)
20 03	other municipal wastes
20 03 02	waste from markets – allowed only if source segregated biodegradable fractions

Table S2.3 Permitted waste types and quantities for composting in open systems	
Maximum quantity	Annual throughput shall not exceed 4,000 tonnes. (Activity AR2)
Exclusions	<p>Wastes having any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> • biodegradable wastes that is significantly contaminated with non-compostable or digestible contaminants, in particular plastic and litter shall be no more than 1% w/w and shall be as low as reasonably practicable by 31 December 2025. • waste consisting solely or mainly of dusts (except sawdust), powders or loose fibres • hazardous wastes • wastes that are in liquid form • wastes containing wood-preserving agents or other biocides and treated wood and post-consumer wood • wastes containing persistent organic pollutants • wastes containing Japanese Knotweed or other invasive plant species listed in the Invasive Species (Amendment etc.) (EU Exit) Regulations 2019 • 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. • pest infested waste
Waste code	Description
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste (plant matter only)

Schedule 3 – Emissions and monitoring

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
Outlet from two biofilters	IVC Sheds	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 ³	Average over sample period	Once every 6 months	EN ISO 21877
		Odour concentration	No limit set	--	Once every 6 months	BS EN 13725

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Meteorological conditions	Wind speed, Air temperature, Wind direction	Continuous	As specified in the Environmental Management System	Weather station or anemometer and wind sock
Stockpiles prior to composting including screened and shredded material	Temperature	Daily prior to processing	Temperature probe	Monitoring equipment shall be available on site and used as required to maintain aerobic conditions and ensure compliance with this permit.
	Moisture	Daily prior to processing	Industry grab test as a minimum, or oven drying in accordance with BS EN 13040	
	C:N Total Organic Carbon and	On acceptance or as agreed in an	Total Organic Carbon using recognised	

	Total Kjeldahl Nitrogen	approved odour management plan	industry method Total Kjeldahl Nitrogen in accordance with BS EN 13654-1	by the Environment Agency. Uncontrolled self-heating and decomposition must be prevented in accordance with the Accident Management Plan and/or Fire Prevention Plan. Process shall be controlled in accordance with permit condition 3.3 and the Odour Management Plan. Sampling of waste shall be in accordance with EN14899. Anaerobic conditions shall be prevented.
	Fly infestation or pupa formation	Daily – for stockpiles in storage prior to preparation and stockpiles in sanitisation stage Weekly – for stockpiles in stabilisation stage	Visual inspection	Records of fly count must be maintained as necessary and infested waste should be rejected in accordance with waste acceptance procedures and in accordance with permit condition 3.7.
Representative internal core for each composting batch during sanitisation and stabilisation stage	Temperature	Continuous during sanitisation stage for IVC treating animal by-products Daily during stabilisation stage	Temperature probe Temperature probe shall record core waste temperature and probe	Monitoring equipment shall be available on site and used as required to maintain aerobic conditions and ensure compliance with this permit.

			placement must be sufficient to record temperature uniformly.	Equipment shall be calibrated on a 4 monthly basis, or as agreed in writing by the Environment Agency. Process shall be controlled in accordance with permit condition 3.3 and the Odour Management Plan. Sampling of waste shall be in accordance with EN14899. Anaerobic conditions shall be prevented.
Moisture	On acceptance or prior to loading vessel during sanitisation stage At least daily during stabilisation stage		Industry grab test as a minimum, or oven drying in accordance with BS EN 13040	
C:N Total Organic Carbon and Total Kjeldahl Nitrogen	Weekly or as agreed in an approved odour management plan		Total Organic Carbon using recognised industry method Total Kjeldahl Nitrogen in accordance with BS EN 13654-1	
Representative internal core for each composting batch during further maturation stage	Temperature	Once per week	Temperature probe Temperature probe shall record core waste temperature and probe placement must be sufficient to record temperature uniformly	Process shall be controlled in accordance with permit condition 3.3 and the Odour Management Plan.
	Moisture	Once per week	Industry grab test as a minimum, or oven drying in accordance with BS EN 13040	

Internal core for oversize storage piles	Temperature	Once per week	Temperature probe As specified in the Environmental Management System	Uncontrolled self-heating and decomposition must be prevented in accordance permit condition 3.8, the Fire Prevention Plan and/or Accident Management Plan.
Leachate storage lagoons and tanks	Volume	At least daily	Visual or capacity measurement	Records of volume must be maintained.
Waste reception building; Storage tanks; Maturation area	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary.
Storage tanks	Integrity checks	Weekly	Visual assessment	--

Table S3.3 Bioaerosols monitoring requirements – ambient monitoring					
Location or description of point of measurement	Parameter	Bioaerosols action levels (CFU m⁻³)	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}	Twice a year, unless otherwise advised in writing by the Environment Agency ^{Note 2}	In accordance with Technical Guidance Note M9 – Environmental monitoring of bioaerosols at regulated facilities.	As described in the Technical Guidance Note M9, including all the additional data requirements specified therein.
Downwind of the operational area, as described in the Technical Guidance Note M9	Aspergillus Fumigatus	500 ^{Note 1}			
<p>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.</p> <p>Note 2. Where the bioaerosols action levels are exceeded, then monitoring shall be quarterly until such time that it is demonstrated that the site has adequate mitigation for a 12 month period.</p>					

Schedule 4 – Reporting

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

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air from odour abatement plant Parameters as required by condition 3.5.1.	Outlet from two biofilters as specified in schedule 3 table S3.1	Every 6 months	1 January, 1 July
Process monitoring Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.2	Every 12 months	1 January
Bioaerosols monitoring Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.3	Twice a year unless otherwise advised in writing by the Environment Agency	1 January, 1 July
Biofilter efficiency Parameters as required by condition 4.2.6	Biofilter(s)	Every 12 months	1 January
Non-compostable contamination removal efficiency Parameters as required by conditions 2.3.4, 2.3.7 and 4.2.7	--	Every 12 months Yearly report of detailing contamination removal efficiency and progress with plastic reduction contamination	1 January

Table S4.2 Annual production/treatment	
Parameter	Units
Processed compost	tonnes
Recovered outputs	tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes or m ³
Energy usage	Annually	MWh

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Total raw material used	Annually	tonnes

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	18/09/2023
Bioaerosols	As specified in the Technical Guidance Note M9 or other form as agreed in writing by the Environment Agency	18/09/2023
Process monitoring	Form process 1 or other form as agreed in writing by the Environment Agency	18/09/2023
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	18/09/2023
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	18/09/2023
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	18/09/2023
Waste Returns	E-waste Returns 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	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

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

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

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

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

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

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

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

“accident management plan” means a plan that identifies risks and failures which can have an impact on the environment or have environmental consequences. The plan forms part of the management system. The plan must minimise the potential causes and consequences and identify clearly the roles, responsibilities and action to be taken to minimise the consequences of accidents. This includes measures to prevent and control fires on site, DSEAR assessment and clearly marked zones.

“Animal By-Products Regulations” means The Animal By-Products (Enforcement) (England) Regulations 2013 (SI 2013 No. 2952).

“animal waste” means any waste consisting of animal matter that has not been processed into food for human consumption. This does include blood, feathers, uncooked butchers waste and any other animal waste that is not catering waste or former foodstuffs. This does not include faecal matter from animals (e.g. chicken litter or farmyard manure).

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

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

“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 the 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 high general level of protection of the environment as a whole.

“bioaerosols action levels” means the maximum acceptable bioaerosol 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 maximum acceptable concentrations are respectively 1000 and 500 CFU m⁻³ 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 CO₂, H₂O, 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.

“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.

“closed system” means a closed composting reactor or closed area (such as a building) in which waste is fully contained and efficient air management abatement systems are demonstrated. This may cover a wide range of technology and where necessary is in compliance with the Animal By-Products Regulations.

“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 level of competence and duration of attendance

“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.

‘compostable plastics’ means waste containing packaging or non-packaging items (or both) with a valid certificate of conformity to EN 13432 or an equivalent standard for compostable and digestible items, the certificate issued by an independent certification body capable of fully biodegrading by a biological process to create compost or digest.

“composting” means the biological decomposition of organic materials, under conditions that are predominantly aerobic and that allow the development of thermophilic temperatures as a result of biologically produced heat and that result in compost.

“composting batch” means an identifiable quantity of material that progresses through the composting system and when fully processed has similar characteristics throughout. For composting systems that operate on a continuous or a plug-flow basis, batches will be taken to mean a series of “portions of production”.

‘direct discharge’ means discharge to a receiving water body

“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.

“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.

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

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

‘impermeable surface’ means a surface or pavement constructed in accordance with CIRIA 736 or a demonstrated equivalent and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface, and should be read in conjunction with the term ‘sealed drainage system’.

“incidental contamination” means low levels of incidental waste, for example plastic that may be contained within the feedstock waste.

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

“maturation” means a stage when by agitating and turning the compost, it no longer results in reheating and the monitored temperature falls to ambient without the compost being too dry or anaerobic. Phytotoxins that

are formed during the active composting phase are metabolised by microorganisms, which will result in the final material not being too harmful to plants. This usually coincides with a drop in pH toward neutral, and the conversion of ammonia into nitrates and recolonization of beneficial microorganisms. The maturation phase may need active management by turning to prevent the material becoming anaerobic.

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

'nearest sensitive receptor' means the nearest place to the permitted activities where people are likely to be for prolonged periods. This term would therefore apply to dwellings (including any associated gardens) and to many types of workplaces. We would not normally regard a place where people are likely to be present for less than 6 hours at one time as being a sensitive receptor. The term does not apply to those controlling the permitted facility, their staff when they are at work or to visitors to the facility, as their health is covered by Health and Safety at Work legislation, but would apply to dwellings occupied by the family of those controlling the composting facility.

"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:

1. the person who has control over the operation of the regulated facility,
2. 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
3. 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.

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

1. be harmful to human health or the quality of the environment,
2. cause offence to human sense.
3. result in damage to material property, or
4. impair or interfere with amenities and other legitimate uses of the environment.

"post-consumer wood" means manufactured treated wooden materials and products that have been discarded.

"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.

"representative internal" means representative monitoring at a point internally of the windrows that will give a representative assessment of temperature. Note: Larger windrows will require more bespoke temperature equipment to adequately assess temperature profiles accurately.

"sanitisation" means the actively managed and intensive stage of composting, lasting for at least five 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:

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

"secondary containment" – means a systems that is capable of containing loss from all above ground and underground storage tanks and that complies with CIRIA standard 736 or equivalent standard of design and construction.

“stable, 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.

“stabilisation stage” means the stage of composting following sanitisation, during which biological conditions in the composting mass, give rise to compost that is nominally stable. Soluble carbon is usually not fully used and material is still considered to be in treatment. This stage is a managed process to prevent odours, dust and bioaerosols. There is also a residual risk of reheating and leachate breakout.

“treated wood” means any wood that has been chemically treated (e.g. to enhance or alter the performance of the original wood). Treatments may include penetrating oils, tar oil preservatives, water-borne preservatives, organic-based preservatives, boron and organo-metallic based preservatives, boron and halogenated flame retardants and surface treatments (including paint and venner).

“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” 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.

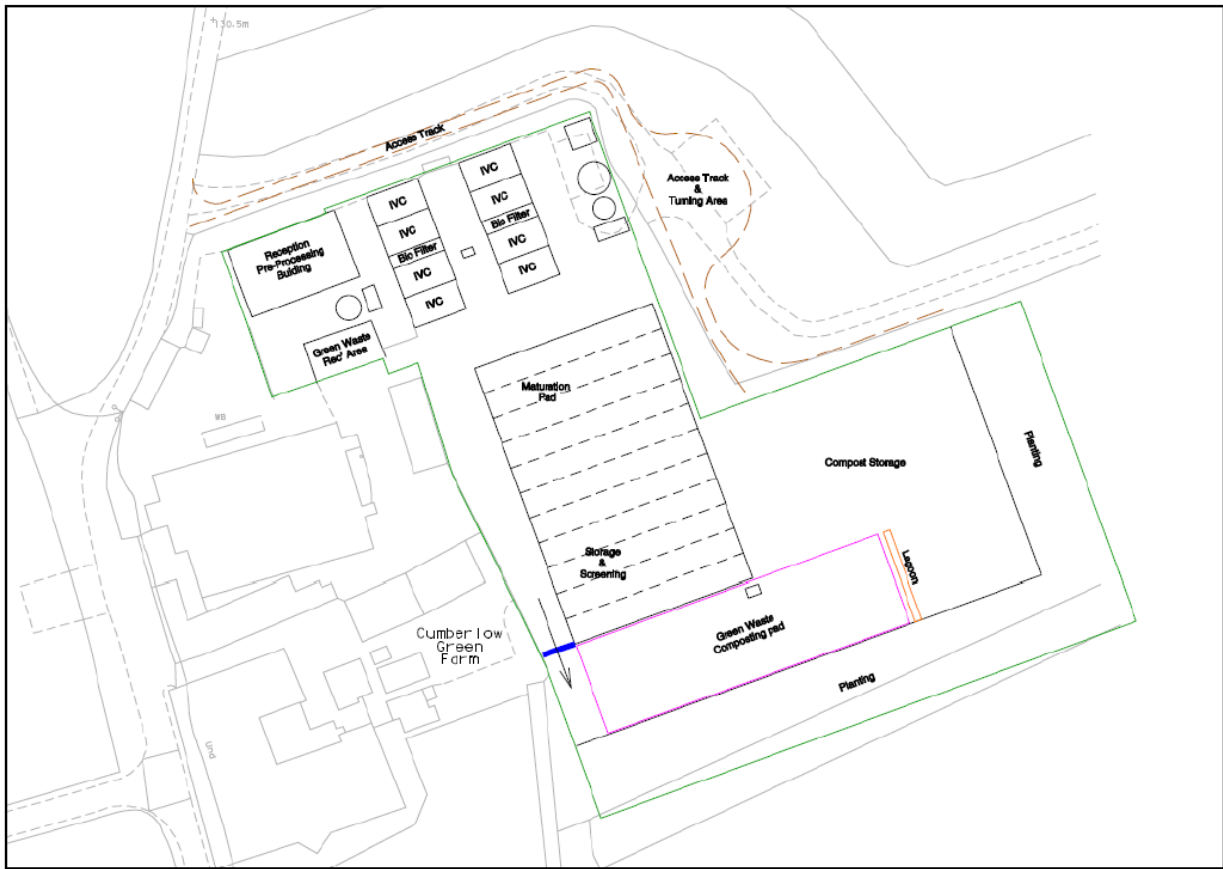
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

1. 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
2. in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

“year” means calendar year ending 31 December.

Schedule 7 – Site plan



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