Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Resource Recycling Solutions Limited

Iron House Farm
Lancaster Road
Preston
Lancashire
PR3 6BP

Variation application number

EPR/QB3036RB/V005

Permit number

EPR/QB3036RB

Iron House Farm
Permit number EPR/QB3036RB

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

Changes introduced as part of the variation notice

- Addition of an enclosed In-vessel Composting (IVC) operation to process non-hazardous food waste or comingled food and green waste with associated waste codes
- An extension to the site boundary to facilitate a new external composting pad and the IVC operation with infrastructure changes that include: a waste reception hall for the IVC feedstock, 4No. IVC tunnels and 1No leachate storage tank and an odour biofiltration abatement plant serving the IVC building and IVC leachate tank
- Addition of the treatment of waste wood and plant matter as a waste operation (formally a registered waste exemption at the facility) and associated waste codes
- Include screening and blending of waste to produce aggregate or soil as a waste operation (formally a registered waste exemption at the facility) and associated waste codes

Brief description of the process:

The site comprises of two listed activities undertaken as Section 5.4 Part A (1) (b) (i) activity for the recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day involving biological treatment. These relate to the in-vessel composting (IVC) and open windrows composting (OWC).

Two waste operations for the treatment of waste wood and plant matter and, screening and blending of waste to produce aggregate or soil are also carried out on site.

Comingled food and green waste, or food waste only material for the IVC activity is accepted and deposited in the IVC building which operates under negative aeration and is served by an odour biofiltration abatement plant. The material undergoes screening and composting in the IVC tunnels, followed by maturation in open windrows.

Green waste material for the OWC activity is accepted and deposited onto the designated reception pad where shredding takes place. The material is then formed into static windrows for sanitisation, followed by static turned windrows for stabilization.

Waste wood and plant matter received is stockpiled in a designated area and shredded once a sufficient stockpile has been formed. Once shredded it is then transferred off site for onward recovery processing.

Soils and aggregate waste received are deposited in a designated area and once a sufficient stockpile has been formed the waste is screened and blended to produce aggregate or soil for dispatch to end markets.

The maximum throughput for all activities undertaken at the facility is 75,000 tonnes of waste per year. The principal releases to the environment are potentially bioaerosol’s and odour emissions from the composting processes, and dust from the waste operations. The facility is underlain by impermeable concrete surfaces with sealed drainage.

Surface water run-off from impermeable hard standing areas and leachate derived from processing are captured within the surface drains and directed to three leachate storage tanks (124m3 and 522m3 -OWC, 125m3 -IVC) and either used in the composting process where the addition of moisture is identified, or tankered off site for disposal. Additionally, the IVC tunnels have a dedicated drainage system to prevent leachate related cross contamination in compliance with Animal By-Product Regulations (ABPs).

Rain water from roofs of buildings is collected through the roof drainage system and directed to one clean water 50m^3 storage tank. This water is used to regulate moisture levels for the biofilter when necessary.

The facility is located at approximately National Grid Reference SD 41058 44602, surrounded by fields of agricultural use with some residential dwellings. There is a sensitive receptor within 250 m of the site. Bioaerosol monitoring requirements are included in the permit.

The facility operates in accordance with an environmental management system (EMS), with relevant technical competence requirements.

The schedules specify the changes made to the permit.

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

Status log of the permit		
Description	**Date**	**Comments**
Application EPR/BP3098SB/A001 (EAWML100530)	Duly made 05/08/2008	Application for SR2008No14
Permit determined EPR/BP3098SB	26/06/2009	Original permit issued to B & D Clitheroe Limited
Application EPR/BP3098SB/V002	Duly Made 06/11/2009	Application to become a Bespoke Permit for Open Windrow Composting
Variation determined EPR/BP3098SB	30/03/2010	Variation of permit complete
Application EPR/QB3036RB/T001 (full transfer of permit EPR/BP3098SB)	Duly made 20/06/2013	Application to transfer the permit in full to Resource Recycling Solutions Limited
Transfer determined EPR/QB3036RB	25/06/2013	Full transfer of permit complete
Application variation EPR/QB3036RB/V002 Variation	Duly made 22/10/2013	Agency led variation to add pest condition
Regulation 61 Notice	22/06/2020	Regulation 61 Notice requiring information for statutory review of permit
Regulation 61 Notice response	22/10/2021	Response received from the operator
Application EPR/QB3036RB/V004 (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/QB3036RB (Billing Ref: LP3001LU)	02/03/2023	Varied and consolidated permit issued

Status log of the permit		
Description	**Date**	**Comments**
Application EPR/QB3036RB/V005 (variation and consolidation)	Duly made 24/07/2024	Application to vary permit with changes to include: • A closed In-Vessel Composting (IVC) operation activity with odour biofiltration abatement plant • Incorporate the registered waste exemption activities as waste operations (aggregate manufacturing and wood recycling) • Include non-hazardous food or comingled food and green waste types associated with the IVC and waste operations • An extension to the permit site boundary
Additional information received	04/07/2025	Response to Schedule 5 Notice issued 28/05/2025 • Technical standards • Management and site plans • Site containment
Variation determined and consolidation issued EPR/QB3036RB/V005	19/08/2025	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

Permit number

EPR/QB3036RB

Issued to

Resource Recycling Solutions Limited ("the operator")

whose registered office is

Iron House Farm
Lancaster Road
Out Rawcliffe
Preston
Lancashire
PR3 6BP

company registration number 08296783

to operate a regulated facility at

Iron House Farm
Lancaster Road
Preston
Lancashire
PR3 6BP

to the extent set out in the schedules.

The notice shall take effect from 19/08/2025.

Name	Date
Marcus Woodward	**19/08/2025**

Authorised on behalf of the Environment Agency.

Schedule 1

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

- Table S1.2 as referenced in Conditions 2.3.1 and 2.3.2 is amended to incorporate operating technique documents submitted in this variation.
- Table S1.1, as referenced by condition 2.1, is amended to reflect changes to activities to cover the in-vessel composting, blending of soils and aggregates and waste wood and plant operations.
- Table S1.3, as referenced by condition 2.4.1 and 2.4.2, is amended to reflect the changes to the improvement programme- IC2 completed and IC3 included.
- Tables S2.2, S2.3 and S2.4, as referenced by condition 2.3.4, has been included to reflect the changes to the waste codes to cover the in-vessel composting, blending of soils and aggregates and waste wood and plant operations.
- Table S3.1, as referenced by condition 3.1, has been included to reflect the changes to point source emissions, to include a biofilter.
- Table S3.2, as referenced by condition 3.5.1, is amended to reflect the changes to process monitoring, to include the biofilter.
- Table S4.1, as referenced by condition 4.2.6, is amended to reflect changes to reporting requirements, to include emissions to air from odour abatement plant and biofilter efficiency
- Table S4.4, as referenced by condition 4.2.3, is amended to reflect changes to reporting forms, to include Air.
- Schedule 7, as referenced by condition 2.2.1, is amended to reflect changes to the site plan, to include point source emissions (biofilter), storage tanks and road access across the facility.

The following conditions are amended as a result of the application made by the operator:

- Condition 3.3 has been amended to reflect an approved Odour Management Plan as part of this variation.
- Condition 3.8 has been amended to reflect an approved Fire Prevention Plan, as part of this variation

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/QB3036RB

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/QB3036RB/V005 authorising,

Resource Recycling Solutions Limited ("the operator"),

whose registered office is

Iron House Farm
Lancaster Road
Out Rawcliffe
Preston
Lancashire
PR3 6BP

company registration number 08296783

to operate an installation and waste operations at

Iron House Farm
Lancaster Road
Preston
Lancashire
PR3 6BP

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

Name	Date
Marcus Woodward	**19/08/2025**

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 AR11), 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 AR11), 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 AR11), 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 AR11), 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, S2.4 and S2.5; 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 AR11), 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.

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 and S3.2.

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.

3.4.2 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 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 tables S3.1 and S3.2 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.

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.

4.2 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 AR11), 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 Open windrow composting (OWC)	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 outdoor turned windrows on an impermeable surface with a sealed drainage system. Waste types suitable for acceptance are limited to those specified in Table S2.2.
AR2 In-vessel composting (IVC)	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 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 S2.3.
	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)	Undertaken in relation to Activity AR1. From the receipt of waste to despatch for composting or despatch off site for recovery and/or disposal. Storage of waste 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.
AR4	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)	Undertaken in relation to Activity AR2. 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. Waste types suitable for acceptance are limited to those specified in Table S2.3.
AR5	Physical treatment for the purposes of recycling	R3: Recycling/reclamation of organic substances which are not used as solvents	Undertaken in relation to Activity AR1. From the receipt of waste to despatch for composting or despatch off site for recovery. Pre-treatment of waste prior to composting on an impermeable surface with a sealed drainage system including shredding and screening. Post-treatment of processed compost on an impermeable surface with a sealed drainage system including screening to remove contraries. Waste types suitable for acceptance are limited to those specified in Table S2.2.
AR6 DAA to AR2	Physical treatment for the purposes of recycling	R3: Recycling/reclamation of organic substances	Undertaken in relation to Activity AR2.

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**
(IVC)		which are not used as solvents	From the receipt of waste to despatch for composting or despatch off site for recovery. 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. Post-treatment of processed compost on an impermeable surface with a sealed drainage system including screening to remove contraries. Waste types suitable for acceptance are limited to those specified in Table S2.3.
AR7	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.
AR8	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)	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. Storage of processed uncertified compost on an impermeable surface with a sealed drainage system.
AR9	Process water collection and storage	Collection and storage of compost liquor/leachate in 3 storage tanks.	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.
AR10	Surface water collection and storage	Collection and storage of uncontaminated roof and site surface water in 1 storage tank.	From the collection of uncontaminated roof and site surface water from non-operational areas only to re-

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**
			use within the facility or discharge off-site.
AR11	Air treatment	Collection and treatment of air from the buildings or plant using abatement system – [1 x biofilter] 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 activities for waste operations**		**Limits of activities**
AR12 Screening, and blending of waste soils and concrete operation	**Treatment of non-hazardous waste for the purpose of recovery** R5: Recycling/reclamation of other inorganic compounds 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)		Treatment operations shall be limited to sorting, separation, screening, crushing and blending for the purpose of recovery as a soil, soil substitute or aggregate. The following wastes shall not be blended or mixed: • wastes for recovery with wastes that would result in the waste being sent for disposal or a lower form of recovery • waste to deliberately dilute it All non-hazardous waste must be stored and treated on an impermeable surface with sealed drainage. Storage of non-hazardous waste not exceeding 1,000 tonnes at any one time, in waste piles not exceeding 4m in height. All untreated non-hazardous waste shall be stored no longer than 3 months prior to treatment and all treated non-hazardous waste shall be stored no longer than 12months prior to dispatch off site. Waste types suitable for acceptance are limited to

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**
			those specified in Table S2.4.
AR13 Waste wood and plant matter operation	**Treatment of non-hazardous waste for the purpose of recovery** R3: Recycling/reclamation of organic substances which are not used as solvents 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)		Treatment operations shall be limited to sorting, shredding, chipping, cutting or pulverising for the purpose of recovery. All untreated non-hazardous waste must be stored and treated on an impermeable surface with sealed drainage. Storage of all untreated non-hazardous waste wood not exceeding 1,000 tonnes at any one time, in piles not exceeding 500m^3 with a maximum height of 4m and a minimum separation distance of 6m. All untreated non-hazardous waste wood shall be stored no longer than 3 months prior to shredding and all treated non-hazardous waste shall be stored no longer than 12months prior to dispatch off site. Waste types suitable for acceptance are limited to those specified in Table S2.5.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application	Parts A, B and F of the application form. H1 Risk assessment, management plan.	13/10/2009
Application bioaerosol analysis	Dispersion modelling of bioaerosols Bioaerosol Evaluation D and F Associates 27th January 2010	19/02/2010
Additional information	Responses to email dated 12/01/10 reference updated information required for permit. Site specific risk assessment of potential bioaerosol releases	19/02/2010

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Response to Regulation 61 Notice dated 22/06/2020	Annex 1 Returns Spreadsheet 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.	Received 22/10/2021
Application EPR/QB3036RB/V005	Section 3a, Table 3 in C3 and C4 of the application – Technical standards and operating techniques. Best Available Techniques (BAT) Conclusions for Waste Treatment as detailed in document reference C (2018) 5070 RRS-14 - IVC Design Principles Report v1.0 - 28/03/2024 RRS-16 - Drainage and Leachate Management Plan v3.0 – 25/04/2025 RRS- 15 - Process Flow Diagram v2.0 - 28/03/2024 RRS-02 - Site Capacity Assessment v1.0 – 28/03/2024 RRS -13 - Containment Assessment v2.0 – 28/03/2024	28/03/2024
Response to Schedule 5 Notice issued 28/05/2025	Response to questions 1-4 and 6 - Technical standards. • Biological waste treatment: appropriate measures for permitted facilities – Version published 21 September 2022 • Non-hazardous and inert waste: appropriate measures for permitted facilities, 1 August 2023, GOV.UK Response to question 7 - Updated Site Plan; RRS-03 24/07/2024 site layout plan Response to question 10 - Updated Accident Management plan; RRS - 04 v6.0 28/03/2024 Response to question 11- Updated Odour Management Plan; RSS- 05 v4.0 28/03/2024 Response to questions 12- Updated Fire Prevention Plan: RSS - 05 v3.0 24/07/2024 Response to questions 13 – Dust Emissions Management Plan; RRS-09 Fugitive Releases Management Plan v1.0 28/03/2024	04/07/2025

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1	Completed	Completed
Improvement condition for site containment		
IC2	Where the site containment assessment report (Containment System Assessment, ref 30476, dated 09/08/2022), submitted as part of the Regulation 61 notice submission, has made recommendations provide a report containing:	Completed 25/07/2025

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1	Completed	Completed
	• detailed proposals to bring the containment up to the required standards including a programme of works with timescales for the implementation of individual measures ('the measures') necessary to comply with industry standards (or propose alternative appropriate measures to ensure all polluting materials will be contained on site); and • an ongoing preventative maintenance and inspection regime. The report recommendations shall be implemented by the operator in accordance with the Environment Agency's written approval.	
Improvement condition for review of effectiveness of abatement plant		
IC3	The operator shall carry out a review of the abatement plant on site, in order to determine whether the measures have been effective and adequate to prevent and where not possible minimise emissions released to air including but not limited to odour and ammonia. The operator shall submit a written report to the Environment Agency following this review for assessment and approval. The report shall include but not limited to the following aspects: • Full investigation and characterisation of the waste gas streams. • Abatement stack monitoring results (not limited to odour and ammonia) • Abatement process monitoring results (not limited to odour and ammonia) • Details of air quality quantitative impact assessment including modelling and a proposal for site-specific "action levels" (not limited to odour concentration, hydrogen sulphide and ammonia). • Odour monitoring results at the site boundary • Records of odour complaints and odour related incidents • Recommendations for improvement including the replacement or upgrading the abatement plant • Timescales for implementation of improvements to the abatement plant The operator shall implement the improvements in line with the timescales as approved by the Environment Agency.	22/08/2026 or other date as agreed in writing 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 open systems (AR1).	
Maximum quantity	**Annual throughput shall not exceed 75,000 tonnes for AR1.** **Total annual throughput shall not exceed 75,000 tonnes in aggregation for activities AR1, AR2, AR12 and AR13.**
Exclusions	Wastes having any of the following characteristics shall not be accepted: • 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**
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 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 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 04	materials unsuitable for consumption or processing
02 06	**wastes from the baking and confectionery industry**
02 06 01	materials unsuitable for consumption or processing
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
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
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.
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 01	non-composted fraction of municipal and similar wastes from a composting process that accepts waste input types listed in this table, made up of previously sanitised batches only
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 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 (uncontaminated wood only)
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 38	wood other than that mentioned in 20 01 37 (uncontaminated wood only)
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 − biodegradable source segregated fractions only

Table S2.3 Permitted waste types and quantities for composting in closed systems (AR2)	
Maximum quantity	**Annual throughput shall not exceed 75,000 tonnes for AR2.** **Annual throughput shall not exceed 75,000 tonnes for AR1, AR2, AR12 and AR13 activities combined.**
Exclusions	Wastes having any of the following characteristics shall not be accepted: • 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 01	sludges from washing and cleaning − vegetables, fruit and other crops
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 01 99	wastes not otherwise specified – spent mushroom compost from commercial mushroom growing only
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, peeling, centrifuging and separation including wash waters and sludges from secondary food processing or the cook chill sector
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 (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 (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 02	plastic packaging – compostable plastics only 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)
15 02	**absorbents, filter materials, wiping cloths and protective clothing**
15 02 03	absorbents, filter materials and cloths from the production of alcoholic and non-alcoholic beverages other than those mentioned in 15 02 02 – hops and whisky filter sheets and cloths made from compostable material only
16	**Wastes not otherwise specified in the list**
16 03	**off-specification batches and unused products**
16 03 06	organic wastes other than those mentioned in 16 03 05 – untreated wool fleece only (excludes hides and skins)
16 10	**aqueous liquid wastes destined for off-site treatment**
16 10 02	untreated wash waters from cleaning fruit and vegetables on farm only
16 10 02	liquor/leachate from a composting process that accepts waste input types listed in this table only and in compliance with the Animal By-Products Regulations
17	**Construction and demolition wastes (including excavated soil from contaminated sites)**
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 02	**wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)**
19 02 03	premixed wastes composed from waste types listed in this table only
19 02 06	sludges from physico-chemical treatment other than those mentioned in 19 02 05 (sewage sludge which has been previously pasteurised and stabilised only)
19 05	**wastes from aerobic treatment of solid wastes**

19 05 01	non-composted fraction of municipal and similar wastes from a composting process that accepts waste input types listed in this table, made up of previously sanitised batches only
19 05 02	non-composted fraction of animal and vegetable wastes from a composting process that accepts waste input types listed in this table, made up of previously sanitised batches only
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 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 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 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 (and only including wastes types listed in this table) and made up of previously sanitised /pasteurised and stabilised batches only
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 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 01	mixed municipal waste − only separately collected biodegradable wastes of types listed within this table
20 03 02	waste from markets − allowed only if source segregated biodegradable fractions

Table S2.4 Permitted waste types and quantities for screening and blending of waste soils and concrete (AR12).	
Maximum quantity	**Annual throughput shall not exceed 75,000 tonnes for AR12.** **Annual throughput shall not exceed 75,000 tonnes for AR1, AR2, AR12 and AR13 activities combined.**
Waste code	**Description**
01	**WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS**
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
02	**WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING**
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 02	animal-tissue waste (Shellfish shells from which the soft tissue or flesh have been removed only**)**
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 (untreated)
03 03	wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and wood (untreated)
10	**WASTES FROM THERMAL PROCESSES**
10 01	wastes from power stations and other combustion plants (except 19)
10 01 01	bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
10 01 15	bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
17	**CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**
17 01	**concrete, bricks, tiles and ceramics**
17 01 01	concrete
17 01 02	bricks
17 01 03	tiles and ceramics
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02	**wood, glass and plastic**
17 02 01	Wood (untreated only)
17 03	bituminous mixtures, coal tar and tarred products
17 03 02	bituminous mixtures other than those mentioned in 17 03 01
17 05	**soil (including excavated soil from contaminated sites), stones and dredging spoil**
17 05 04	soil and stones other than those mentioned in 17 05 03

17 05 06	dredging spoil other than those mentioned in 17 05 05
17 05 08	track ballast other than those mentioned in 17 05 07
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 99	compost produced only by aerobic composting under the T23 exemption or standard rules permit SR2011 no.1 specifically, or by treating kitchen waste in a wormery under T26 exemption
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 05	glass
19 12 09	minerals (for example sand, stones) (aggregates only)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 (only gypsum recovered from construction material)
19 13	**wastes from soil and groundwater remediation**
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
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 02	soil and stones

Table S2.5 Permitted waste types and quantities for waste wood and plant matter operation (AR13).	
Maximum quantity	**Annual throughput shall not exceed 75,000 tonnes for AR13.** **Annual throughput shall not exceed 75,000 tonnes for AR1, AR2, AR12 and AR13 activities combined.**
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 03	plant-tissue waste
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
03 03	wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and wood
15	**Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified**
15 01	packaging (including separately collected municipal packaging waste)

Table S2.5 Permitted waste types and quantities for waste wood and plant matter operation (AR13).	
Maximum quantity	**Annual throughput shall not exceed 75,000 tonnes for AR13.** **Annual throughput shall not exceed 75,000 tonnes for AR1, AR2, AR12 and AR13 activities combined.**
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 03	plant-tissue waste
15 01 03	wooden packaging
17	**Construction and demolition wastes (including excavation soil from contaminated sites)**
17 02	wood, glass and plastic
17 02 01	Wood (untreated)
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 tissue waste)

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
Point A1 on site plan in schedule 7 - Biofilter Emission point	Odour abatement (biofilter) channelled emissions via open bed biofilter	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	1,000 ou_E/m^3	Average over sample period	Once every 6 months	BS EN 13725

Table S3.2 Process monitoring requirements				
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 windsock
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. Equipment shall be calibrated on a 4 monthly basis, or as agreed in writing by the Environment Agency.
	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 Total Kjeldahl Nitrogen	On acceptance or as agreed in an approved odour	Total Organic Carbon using recognised industry method	

		management plan	Total Kjeldahl Nitrogen in accordance with BS EN 13654-1	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 waste acceptance procedures and in accordance with permit condition 3.7.
Representative internal core for each composting batch during sanitisation and stabilisation stage	Temperature	Daily during sanitisation stage. Weekly during stabilisation stage	Temperature probe Temperature probe shall record core waste temperature and probe placement must be sufficient to record temperature uniformly.	Monitoring equipment shall be available on site and used as required to maintain aerobic conditions and ensure compliance with this permit. Equipment shall be calibrated on a 4 monthly basis, or as agreed in writing by

	Moisture	At least daily during sanitisation stage Weekly during stabilisation stage	Industry grab test as a minimum, or oven drying in accordance with BS EN 13040	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.
	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	Weekly	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	Weekly	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	Uncontrolled self-heating and decomposition must be prevented in accordance permit condition 3.8, the Fire Prevention Plan and/or

			Management System	Accident Management Plan.
Leachate storage tanks	Volume	At least daily	Visual or capacity measurement	750 mm freeboard must be maintained for storage lagoons. Records of volume must be maintained.
Waste reception building/area; storage tanks; maturation area	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary
Storage tanks	Integrity checks	Weekly	Visual assessment	--
Odour abatement plant				
Open biofilters				
Biofilter 1	Surface condition (signs of vegetation and channelling)	Daily	Visual assessment	Odour abatement plant shall be regularly checked and maintained to ensure appropriate temperature and moisture content. Odour abatement plant shall be 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.
	Gas temperature – inlet and outlet	Continuous	Temperature probe / Traceable to national standards	
	Biofilter media moisture	Daily	Moisture meter, Grab test, oven drying or recognised industry method	
	Thatching /compaction	Weekly	Back pressure	
	Gas flow rate – inlet	Continuous	Gas flow meter	
	pH (biofilter drainage effluent)	Weekly	pH metre or litmus paper	
	Efficiency assessment	Annual	Media health, air-flow distribution	

			and emission removal efficiency (BS EN 13725 for odour removal)	
	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 IC3 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.	As agreed in the odour management plan and approved by the Environment Agency	Action levels to be agreed on completion of IC3 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 IC3 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 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 Downwind 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	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.
	Aspergillus Fumigatus	500 Note 1			
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.					

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.	A1	Every 6 months	1 January, 1 July
Process monitoring Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.1	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	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 plastic reduction contamination	

Table S4.2 Annual production/treatment	
Parameter	**Units**
Processed compost	tonnes
Non-waste 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	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	02/03/2023
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	27/01/2016
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	27/01/2016
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	27/01/2016
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 CO_2, H_2O, 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:

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.

"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 human sense.
c) result in damage to material property, or
d) 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 ºC, 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.

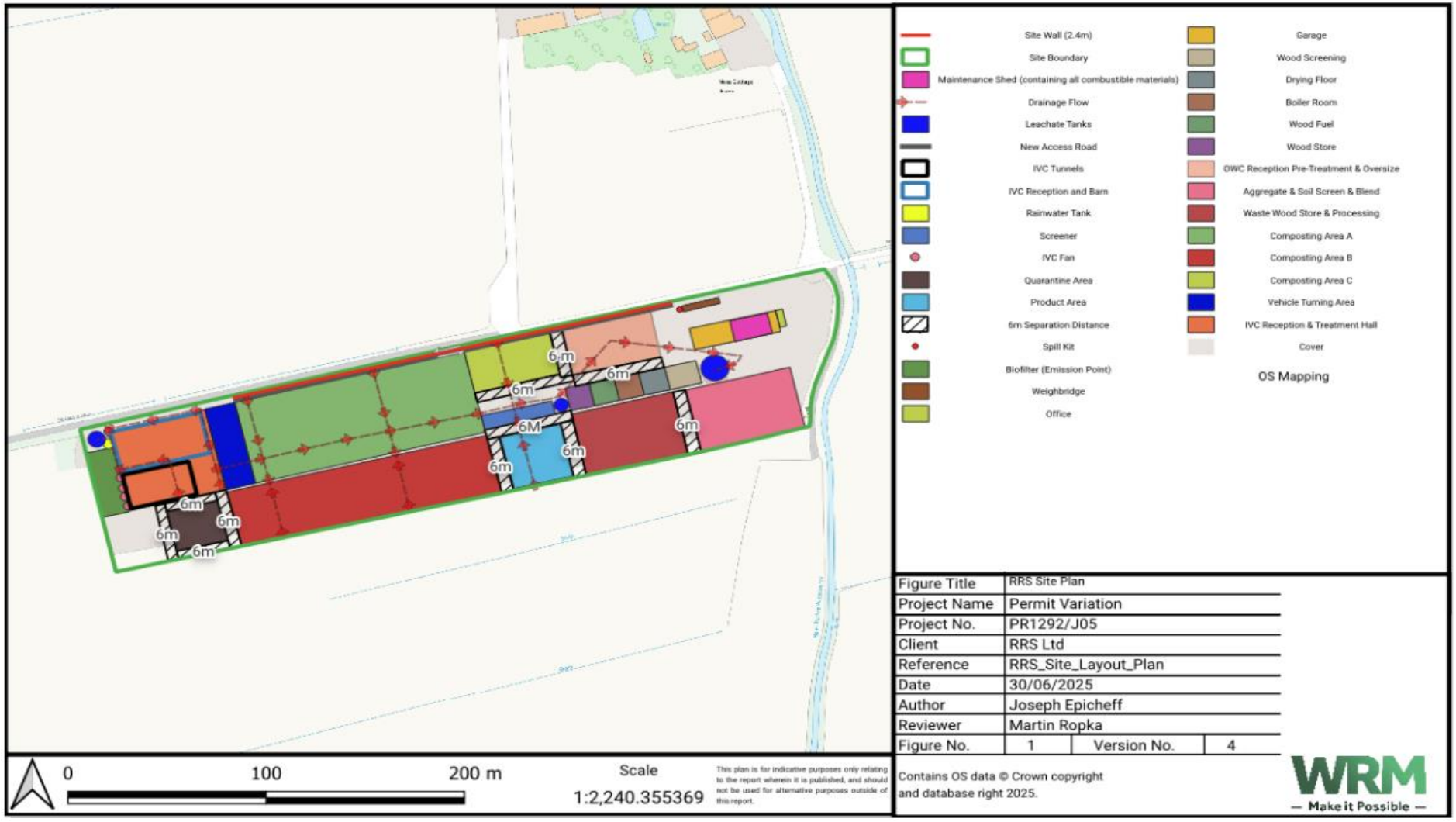
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

- 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 calendar year ending 31 December.

Schedule 7 – Site plan



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END OF PERMIT

Permit Number:	**EPR/QB3036RB**	**Operator:**	**[Operator name]**
Facility:	**Iron House Farm**	**Form Number:**	**WaterUsage1 / DD/MM/YY**

Reporting of Water Usage for the year

Water Source	Usage (m^3/year)	Specific Usage (m^3/unit output)
Mains water		
Site borehole		
River abstraction		
TOTAL WATER USAGE		

Operator's comments:

Signed …… Date……..

(authorised to sign as representative of Operator)

Permit Number:	**EPR/QB3036RB**	**Operator:**	**[Operator name]**
Facility:	**Iron House Farm**	**Form Number:**	**Energy1 / DD/MM/YY**

Reporting of Energy Usage for the year

Energy Source	**Energy Usage**		**Specific Usage (MWh/unit output)**
	Quantity	**Primary Energy (MWh)**	
Electricity *	MWh		
Natural Gas	MWh		
Gas Oil	tonnes		
Recovered Fuel Oil	tonnes		
Biogas	tonnes		
TOTAL	**-**		

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments:

Signed …… Date……..

(Authorised to sign as representative of Operator)

Permit Number:	**EPR/QB3036RB**	**Operator:**	**[Operator name]**
Facility:	**Iron House Farm**	**Form Number:**	**Performance1 / DD/MM/YY**

Reporting of other performance indicators for the period DD/MM/YYYY to DD/MM/YYYY

Parameter	Units
Total raw material used	tonnes
CHP engine usage	hours
CHP engine efficiency	%
Biogas usage	tonnes or m^3
Auxiliary boiler usage	hours
Emergency flare operation	hours
Electricity exported	MWh

Operator's comments:

Signed …… Date……..

(Authorised to sign as representative of Operator)

Permit Number:	**EPR/QB3036RB**	**Operator:**	**[Operator name]**
Facility:	**Iron House Farm**	**Form Number:**	**Process1 / DD/MM/YY**

Reporting of process monitoring for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Trigger Value /Threshold Value /Industry Standard	Result /Reading [1]	Test Method [2]	Monitoring Date and Time
Process monitoring of digestion stability					
Digester feed	pH				
	Alkalinity				
	Temperature				
	Hydraulic loading rate				
	Organic loading rate				
	Volatile fatty acids concentration				
	Ammonia				
	Liquid/foam level				
Digestate (Other monitoring)					
Digestate batch	Volatile fatty acids concentration				
	Ammonia				

Emission Point	Substance / Parameter	Trigger Value /Threshold Value /Industry Standard	Result /Reading [1]	Test Method [2]	Monitoring Date and Time
Monitoring of biogas produced					
Biogas in digester	Flow				
	Methane				
	CO_2				
	O_2				
	Hydrogen sulphide				
	Pressure				
Tank structural integrity					
Digester and storage structural stability	Integrity checks				
Digester tanks (Other monitoring)					
Digester tank	Agitation /mixing				
	Tank capacity and sediment assessment				
Site odour monitoring					
Waste reception building or area; Digester(s) and storage tank(s)	Odour olfactory monitoring				
Odour abatement plant					
	Temperature				
	Moisture				

Emission Point	Substance / Parameter	Trigger Value /Threshold Value /Industry Standard	Result /Reading [1]	Test Method [2]	Monitoring Date and Time
	Thatching compaction (biofilters only)				
	Efficiency assessment				
	Gas flow				
	Ammonia				
	Odour concentration				
	pH (inlet) **Wet scrubbing systems only**				
	pH (outlet) **Wet scrubbing systems only**				
Monitoring of diffuse emissions					
Diffuse emissions from all sources identified in the Leak Detection and Repair (LDAR) programme	VOCs including methane				
Monitoring of CHP engine stack(s)					
CHP engine 1	VOCs including methane				
	Exhaust gas temperature				
	Exhaust gas pressure				
	Exhaust gas water vapour content				
	Exhaust gas oxygen				

Emission Point	Substance / Parameter	Trigger Value /Threshold Value /Industry Standard	Result /Reading [1]	Test Method [2]	Monitoring Date and Time
	Exhaust gas flow				
	Total annual VOCs emissions (calculated)				
Meteorological conditions					
Wind speed					
Wind direction					
Air temperature					
Emergency flare operation (enclosed flares)					
	Date of operation				
	Time of operation				
	Duration of operation				
	Annual operational hours				
Emergency flare operation (shrouded flares)					
	Operating hours – (date, time & duration of operation)				
	Operating temperature (date, time & duration of operation)				
	Operating gas flow (date, time & duration of operation)				
	Annual operational hours				

Emission Point	Substance / Parameter	Trigger Value /Threshold Value /Industry Standard	Result /Reading [1]	Test Method [2]	Monitoring Date and Time
Pressure relief valve operation					
Date of release	Biogas release				
Time of release					
Duration of release					
Annual mass release					
Storage lagoons and storage tank volume (for digestate and leachate storage)					
Daily volume check	Volume				
Storage tank volume (Digesters /Feedstock tanks / Other tanks)					
Daily volume check	Volume				
Composting batch – stockpiles and processing material					
Stockpiles and processing material	Temperature				
	Fly infestation or pupa formation				
Monitoring of composting batch					
Representative internal core for each composting batch during sanitisation stage	Temperature				
	Moisture				
	C:N ratio				
Representative internal core for each composting batch during stabilisation stage	Temperature				
	Moisture				

Emission Point	Substance / Parameter	Trigger Value /Threshold Value /Industry Standard	Result /Reading [1]	Test Method [2]	Monitoring Date and Time
Representative internal core for each composting batch during further maturation stage	Temperature				
	Moisture				
Internal core for oversize storage piles	Temperature				

1. Monitoring results can be submitted to the Environment Agency in an electronic format or in other format as agreed in writing by the Environment Agency.
2. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

Signed …… Date……..

(Authorised to sign as representative of Operator)