Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Envar Composting Limited

Envar Composting Facility
The Heath
Woodhurst
Huntingdon
Cambridgeshire
PE28 3BS

Variation application number

EPR/GP3930DF/V003

Permit number

EPR/GP3930DF

Envar Composting Facility
Permit number EPR/GP3930DF

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.

The Envar Composting Facility operated by Envar Composting Limited, is currently permitted to treat up to 105,000 tonnes of mixed food and green waste per annum to PAS 100 Quality Protocol (QP) standard. The main processes include sanitisation and stabilisation of waste in an in-vessel system followed by open windrow maturation.

This variation authorises the following:

a) the addition of a new in-vessel composting activity to produce compost like-output (CLO)

b) inclusion of an external stabilisation phase to form part of the already existing PAS 100 QP compost production process

c) drying of waste materials with high moisture content to create added value materials for various markets (animal bedding, agricultural benefit, industrial use and land restoration). Two newly installed small scale biomass boilers, each of a thermal input of 0.9 MWth powered by Grade A wood fuel along with two dryers will provide heat for the drying process.

d) addition of a new waste treatment and transfer station for manual sorting, shredding, bulking and screening of waste.

e) increase in throughput from 105,000 to 200,000 tonnes per annum, distributed as follows:

- 135,000 tonnes for both the PAS 100 QP compost production and the compost-like output (CLO).
- 45,000 tonnes for the drying process
- 20,000 tonnes for treatment and transfer waste operation.

The CLO production will have its own dedicated odour abatement system comprising a water based scrubber and wood wetted biofilter.

The bioaerosols monitoring frequency given in Table S3.4 may be reduced to twice a year if agreed to in writing by the Environment Agency.

The rest of the installation remains the same and is operated as follows:

Leachate from the composting activity will be treated via an on-site Effluent Treatment Plant which is regulated under a separate Discharge Consent PRCNF/18042. This effluent treatment plant receives waste water and effluent from a series of on-site lagoons for treatment and subsequent discharge or reuse within the facility. The discharge is to a Tributary of the Cranbook Drain.

The process of waste reception, preparation and primary composting within the in-vessel system are all enclosed and maintained under a negatively ventilated exhaust extraction system. Exhaust air is channelled and treated via a wet scrubber and biofilter system to reduce odour, dust and bioaerosols emissions. The biofilter is an open bed system.

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**
Permit determined EAWML 75098	29/04/2003	Issued to Hensby Composts Limited
EAWML 75098 – Modified	10/12/2003	
EAWML 75098 – Modified	23/07/2004	Variation to increase throughput to 105,000 tonnes
EAWML 75098 – Full Transfer	27/09/2004	Transferred to ADAS Holdings Limited
EAWML 75098 – Modified	10/10/2005	
EAWML 75098 – Modified	12/05/2006	
Variation application EPR/AP3992SX/V004	Duly Made 18/02/2011	Application to accept stabilised Biological Fines
Additional information received	03/03/2011	18/03/2011
Variation determined EPR/AP3992SX	16/05/2011	
Variation application EPR/AP3992SX/V005	Duly Made 01/05/2013	Application to extend the maturation composting pad and increase storage limits
Variation determined EPR/AP3992SX	27/06/2013	
Application EPR/AP3992SX/V006 (variation and consolidation)	Duly made 18/09/2014	Application to vary permit to include a newly prescribed activity under the Industrial Emissions Directive (IED) and update the permit to modern conditions.
Additional information	26/05/2015	Schedule 5 response
Additional information	25/09/2015	Revised working plan version 4.5 dated 25 September 2015
Additional information	01/10/2015	Revised site location plan
Additional information	04/11/2015	Fire Prevention Plan
Variation determined EPR/AP3992SX	27/01/2016	Varied and consolidated permit issued in modern condition format.
Application EPR/GP3930DF/T001 (full transfer of permit EPR/ AP3992SX)	Duly made 17/05/2016	Application to transfer the permit in full to Envar Composting Limited.
Transfer determined EPR/GP3930DF	26/05/2016	Full transfer of permit complete.
Application EPR/GP3930DF/V002 (variation)	Duly made 08/09/2016	Variation application to add fourteen waste codes.

Status log of the permit		
Description	**Date**	**Comments**
Variation determined EPR/GP3930DF/V002 (PAS billing ref GP3534DF)	23/09/2016	Varied permit issued.
Application EPR/GP3930DF/V003	Duly made 28/06/2017	Application to increase annual throughput to 200,000 tonnes per annum and the addition of a new installation activity and two new waste operations.
Additional information received	18/05/2017	Response to Request for information regarding Fire Prevention Plan (FPP), Odour Management Plan (OMP), Noise Impact Assessment, BAT Assessment, EMS Summary, Revised Installations OPRA and Dust Management Plan (DMP).
Additional information received	26/06/2017	Response to Request for information confirming payment for the two new waste operations and submission of a waste OPRA.
Schedule 5 notice response received	25/08/2017	Response to questions 1 to 9 of information notice 1 dated 02/08/17.
Schedule 5 notice response received	12/09/2017	Response to questions 1 to 26 of information notice 2 dated 21/08/17.
Schedule 5 notice response received	28/11/2017	Response to questions 1 to 24 of information notice 3 dated 27/09/17.
Variation determined EPR/GP3930DF/V003 (Billing ref: MP3639YS)	07/12/2017	Varied and consolidated permit issued.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

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

Permit number

EPR/GP3930DF

Issued to

Envar Composting Limited ("the operator")

whose registered office is

Stanford Bridge Farm
Pluckley
Ashford
Kent
TN27 0RU

company registration number 04272075

to operate a regulated facility at

Envar Composting Facility
The Heath
Woodhurst
Huntingdon
Cambridgeshire
PE28 3BS

to the extent set out in the schedules.

The notice shall take effect from 07/12/2017

Name	Date
Claire Roberts	**07/12/2017**

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit EPR/GP3930DF.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/GP3930DF

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/GP3930DF/V003 authorising,

Envar Composting Limited ("the operator"),

whose registered office is

Stanford Bridge Farm
Pluckley
Ashford
Kent
TN27 0RU

company registration number 04272075

to operate installation at

Envar Composting Facility
The Heath
Woodhurst
Huntingdon
Cambridgeshire
PE28 3BS

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

Name	Date
Claire Roberts	**07/12/2017**

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 AR9, 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 AR9, 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, 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.

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.

2.4 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 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 Bioaerosols

3.5.1 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 threshold limits specified in table S3.4.

3.5.2 The operator shall where the emission threshold limits 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.

3.6 Pests

3.6.1 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.

3.6.2 The operator shall:

(a) 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;

(b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.7 Fire prevention

3.7.1 The operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.

3.8 Monitoring

3.8.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

(a) point source emissions specified in tables S3.1 and S3.2;

(b) process monitoring specified in table S3.3;

(c) bioaerosols monitoring specified in table S3.4.

3.8.2 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.

3.8.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.8.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

3.8.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1, S3.2, S3.3 and S3.4 unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

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

(a) be legible;

(b) be made as soon as reasonably practicable;

(c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and

(d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, 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 AR9), 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.

4.3 Notifications

4.3.1 For the following activities referenced in schedule 1, table S1.1 AR1 to AR9, 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 For the following activities referenced in schedule 1, table S1.1 AR10 to AR11, the Environment Agency shall be notified without delay following the detection of:

(a) 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;

(b) the breach of a limit specified in the permit; or

(c) any significant adverse environmental effects.

4.3.4 Any information provided under condition 4.3.3 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.5 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.

4.3.6 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.

4.3.7 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.

4.3.8 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 For the following activities referenced in schedule 1, table S1.1 AR1 to AR9, 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.

4.4.3 For the following activities referenced in schedule 1, table S1.1 AR10 to A11, in this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 Activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR1	S5.4 A (1) (b) (i) Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day involving biological treatment.	R3: Recycling/reclamation of organic substances which are not used as solvents In-vessel composting to produce a PAS 100 QP output Stabilisation of waste under aerobic conditions in open windrows or aerated static piles on impermeable surface with a sealed drainage system.	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. Composting shall be carried out in areas of impermeable surface with a sealed drainage system. Stabilisation and maturation of compost in windrows under aerobic conditions shall take place on areas of impermeable surface with a sealed drainage system. All trials shall be kept clearly segregated, identified and carried out in a fully enclosed building fitted with appropriate odour abatement on areas of impermeable surface with a sealed drainage system. Wastes destined for use in trials shall not be accepted onto site until written approval has been granted by the Environment Agency. Waste in the organics reception area shall not be stored with less than 50% moisture content. Waste types suitable for acceptance are limited to those specified in Table S2.2.
AR2	S5.4 A (1) (b) (i) Recovery or a mix of recovery and disposal of non-hazardous waste with a	R3: Recycling/reclamation of organic substances which are not used as solvents	Not more than 450 m^3 of CLO to be stored on site at any one time and for no more than 2 months.

	capacity exceeding 75 tonnes per day involving biological treatment.	In-vessel sanitisation and stabilisation to produce a compost-like output (CLO).	Sanitisation and stabilisation of waste under aerobic conditions in closed composting reactors or in closed vessels/buildings fitted with appropriate odour abatement. Sanitisation and stabilisation shall be carried out in areas of impermeable surface with a sealed drainage system. Waste types suitable for acceptance are limited to those specified in Table S2.3.
	Directly Associated Activity		
AR3	Storage of waste pending recovery or disposal	R13: Storage of waste pending the R3 operation (excluding temporary storage, pending collection, on the site where it is produced)	From the receipt of waste to despatch for composting or despatch off site for recovery. The maximum quantity of waste being stored onsite shall not exceed a total of 60,000 tonnes (inclusive of individual tonnages of all onsite activities) at any one time. The storage of waste outside the building for use in trials (non-animal-by-product waste) must take place on a sealed drainage system and have written approval from the Environment Agency. Maximum quantity of compost stored in maturation windrows shall not exceed 30,000 tonnes. Storage of waste in an enclosed building fitted with appropriate odour abatement and on an impermeable surface with a sealed drainage system. The storage of waste outside the building for use in trials (non-animal by-product waste) must take

			place on a sealed drainage system and have written approval from the Environment Agency. No waste shall be stored on site prior to composting for longer than 7 days.
AR4	Physical treatment for the purposes of recycling	R3: Recycling/reclamation of organic substances 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 and on an impermeable surface including manual sorting and shredding. Post-treatment of processed compost in a semi-enclosed building and on an impermeable surface including screening to remove contraries. Heat treatment for the purpose of recovery. Waste types suitable for acceptance are limited to those specified in Table S2.2.
AR5	Raw material storage	Storage of raw materials.	From the receipt of raw materials to despatch for use within the facility.
AR6	Compost storage	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Undertaken in relation to Activity AR1 and AR2 From the receipt of processed uncertified compost produced at the facility to despatch for use off-site. Storage of processed uncertified compost in an enclosed building fitted with appropriate odour abatement and on an impermeable surface.
AR7	Process water collection and storage	Collection and storage of compost liquor/leachate in collection pits directed to a lagoon.	From the receipt of compost leachate produced at the facility to despatch for treatment at the effluent treatment plant (ETP).

AR8	Surface water collection and storage	Collection and storage of uncontaminated roof and site surface water in storage pits or lagoons.	From the collection of uncontaminated roof and site surface water from non-operational areas only to re-use within the facility, transfer to ETP or discharge to off-site ditch.
AR9	Air treatment	Collection and treatment of air from the buildings and plant using abatement system – wet scrubber and biofilter prior to release to atmosphere.	Undertaken in relation to Activity AR1 or AR2. 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**
AR10	<u>Drying of waste</u> 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) R3: Recycling/reclamation of organic substances which are not used as solvents	Treatment operations shall be limited to drying of wet waste for various markets (animal bedding, agricultural benefit, industrial use and land restoration). Heat treatment of waste for the purpose of recovery. Heat provided by two biomass boilers, each of a thermal input of 0.9 MWth and two dryers. Wet wastes for the drying process shall be stored prior to treatment for no more than 5 days. Dried waste shall not be stored on site for longer than 7 days. Waste types suitable for acceptance are limited to those specified in Table S2.4.
AR11	<u>Treatment and transfer</u> 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) R3: Recycling/reclamation of organic substances which are not used as solvents	Treatment operations shall be limited to physical treatment including screening, bulking, sorting, compacting, offloading and reloading of material for the purpose of recovery. Waste types suitable for acceptance are limited to those specified in Table S2.5.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Single-Pass Tunnel Composting System Hazard Analysis and Critical Control Point (HACCP) 8th Review dated 26 March 2014	All	04 September 2015
Standard Operating Procedures (SOPs) for composting systems operated in accordance with Real Compost	All	04 September 2015

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Certification Scheme – Issue 5 dated 03 June 2015		
Pre-Delivery Questionnaire for materials delivered to Envar	All	04 September 2015
EA TGN 7.01 Checklist dated 27 January 2015	All	04 September 2015
Working Plan Version 4.5 dated 25 September 2015	All	25 September 2015
Application EPR/GP3930DF/V003	All parts excluding C3	30 December 2016
EMS Summary version 1.0	All	18 May 2017
BAT compliance report, version 1.1	All	24 August 2017
Incident Response Plan Envar IRP Version 02	All	25 August 2017
Odour Management Plan version 5.2	All	13 October 2017
Dust Management Plan Version 4.0	All	13 October 2017
Application variation EPR/GP3930DF/V003	Response to question on updated form C3, Question 3a (operating techniques)	24 October 2017
Fire Prevention Plan (OMP) Version 3.0	All	28 November 2017

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1	The operator shall produce and submit for approval and subsequent implementation, written procedures (and any amendments to them) that accord with the latest environment agency fire prevention plan guidance which prevents fires and minimises the risk of pollution from fires. The procedures must contain dates for the implementation of individual measures.	Completed
IC2	The Operator shall produce, and submit for approval a report which demonstrates compliance with sections 2.1.4 and 2.1.8 of the Sector Guidance Note IPPC S5.06– *Guidance for the Treatment of Hazardous and Non Hazardous Waste,* to cover screening operations on site. The procedures must contain dates for implementation of individual measures	Completed
IC3	The operator shall justify how existing operations (*including storage of wastes in the open or in a covered building*) is BAT in accordance with Sector Guidance Note IPPC S5.06 - Guidance for the Treatment of Hazardous and Non Hazardous Waste.	Completed
IC4	Upon completion of 6 months monitoring of the CLO abatement system carried out in accordance with section 7.7 of the OMP, the operator shall submit a report to the Environment Agency for written approval detailing the monitoring results, a review of the results, and, if deemed necessary, proposals for improvements to the system and timescales for implementation. The review shall take into account any odour complaints during the monitoring period.	7 months from commencement of operation.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	**Specification**
Waste wood	Grade A
Fuel oil	Sulphur content not exceeding 0.1% by mass

Table S2.2 Permitted waste types and quantities for composting in closed systems	
Maximum quantity	**The total annual throughput for wastes in Tables S2.2 and S2.3 shall not exceed 135,000 tonnes per annum**
Exclusions	Wastes having any of the following characteristics shall not be accepted: - consisting solely or mainly of dusts (except sawdust), powders, or loose fibres; - wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed; - hazardous wastes
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
02 01 02	animal-tissue waste
02 01 03	plant-tissue waste
02 01 06	animal faeces, urine and manure (including spoiled straw) only
02 01 07	wastes from forestry (biodegradable 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 (biodegradable only)
02 02 02	animal-tissue waste
02 02 03	materials unsuitable for consumption or processing
02 02 04	sludges from on-site effluent treatment
5602 03	**wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation**
02 03 01	sludges from washing, cleaning, peeling, centrifuging and separation
02 03 04	materials unsuitable for consumption or processing (biodegradable only)
02 03 05	sludges from on-site effluent treatment (biodegradable only)
02 04	**wastes from sugar processing**
02 04 01	soil from cleaning and washing beet
02 05	**wastes from the dairy products industry**
02 05 01	materials unsuitable for consumption or processing (biodegradable only)

Table S2.2 Permitted waste types and quantities for composting in closed systems	
Maximum quantity	**The total annual throughput for wastes in Tables S2.2 and S2.3 shall not exceed 135,000 tonnes per annum**
Exclusions	Wastes having any of the following characteristics shall not be accepted: - consisting solely or mainly of dusts (except sawdust), powders, or loose fibres; - wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed; - hazardous wastes
Waste code	**Description**
02 06	**wastes from the baking and confectionery industry**
02 06 01	materials unsuitable for consumption or processing (biodegradable only)
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 only)
02 07 02	wastes from spirits distillation (biodegradable only)
02 07 04	materials unsuitable for consumption or processing (biodegradable only)
02 07 05	sludges from on-site effluent treatment (biodegradable only)
02 07 99	wastes not otherwise specified (malt husks, malt sprouts, yeast and yeast-like residues 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
03 01 05	sawdust, shavings, cuttings, wood and particle board other than those mentioned in 03 01 04
03 03	**wastes from pulp, paper and cardboard production and processing**
03 03 01	waste bark and wood
03 03 07	mechanically separated rejects from pulping of waste paper and cardboard
03 03 08	wastes from sorting of paper and cardboard destined for recycling
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
03 03 11	sludges from on-site effluent treatment other than those mentioned in 03 03 10
04	**Wastes from the leather, fur and textile industries**
04 01	**wastes from the leather and fur industry**
04 01 01	fleshings and lime split wastes
04 02	**wastes from the textile industry**
04 02 10	organic matter from natural products (un-dyed and untreated only)
04 02 21	waste from unprocessed textile fibres
07	**Wastes from organic chemical processes**
07 05	**wastes from the MFSU of pharmaceuticals**
07 05 14	**solid wastes other than mentioned in 17 05 13**
15	**Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified**

Table S2.2 Permitted waste types and quantities for composting in closed systems	
Maximum quantity	**The total annual throughput for wastes in Tables S2.2 and S2.3 shall not exceed 135,000 tonnes per annum**
Exclusions	Wastes having any of the following characteristics shall not be accepted: - consisting solely or mainly of dusts (except sawdust), powders, or loose fibres; - wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed; - hazardous wastes
Waste code	**Description**
15 01	**packaging (including separately collected municipal packaging waste)**
15 01 01	paper and cardboard packaging (excluding veneers, plastic coatings or laminates)
15 01 03	wooden packaging
15 01 05	composite packaging (only biodegradable organic packaging)
15 01 09	textile packaging (made entirely from biodegradable fibres only)
16	**Wastes not otherwise specified in the list**
16 10	**aqueous liquid wastes destined for off-site treatment**
16 10 02	liquor/leachate from a composting process that accepts waste input types listed in this table only
17	**Construction and demolition wastes (including excavated soil from contaminated sites)**
17 02	**wood, glass and plastic**
17 02 01	wood
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 only of non-hazardous wastes (waste types listed in this table only)
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05 (only if derived solely from physical treatment and/or pH adjustment of waste input types listed in this table)
19 05	**wastes from aerobic treatment of solid wastes**
19 05 01	non-composted fraction of municipal and similar wastes
19 05 02	non-composted fraction of animal and vegetable waste
19 05 03	off-specification compost (from a composting process that accepts waste input types listed in this table)
19 06	**wastes from anaerobic treatment of waste**
19 06 03	liquor from anaerobic treatment of municipal waste (derived from source segregated municipal waste only)
19 06 04	digestate from anaerobic treatment of municipal waste (derived from source segregated municipal waste only)
19 06 05	liquor from anaerobic treatment of animal and vegetable waste

Table S2.2 Permitted waste types and quantities for composting in closed systems	
Maximum quantity	**The total annual throughput for wastes in Tables S2.2 and S2.3 shall not exceed 135,000 tonnes per annum**
Exclusions	Wastes having any of the following characteristics shall not be accepted: - consisting solely or mainly of dusts (except sawdust), powders, or loose fibres; - wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed; - hazardous wastes
Waste code	**Description**
19 06 06	digestate from anaerobic treatment of animal and vegetable waste
19 08	**wastes from waste water treatment plants not otherwise specified**
19 08 05	sludges from treatment of urban waste water
19 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 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)
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)
20 01 08	biodegradable kitchen and canteen waste
20 01 25	edible oil and fat
20 01 38	wood other than that mentioned in 20 01 37
20 02	**garden and park wastes (including cemetery waste)**
20 02 01	biodegradable waste
20 03	**other municipal wastes**
20 03 01	mixed municipal waste
20 03 02	waste from markets (biodegradable only)

Table S2.3 Permitted waste types and quantities for composting in closed systems to produce compost like output	
Maximum quantity	**The total annual throughput for wastes in Tables S2.2 and S2.3 shall not exceed 135,000 tonnes per annum**
Exclusions	Wastes having any of the following characteristics shall not be accepted: - consisting solely or mainly of dusts (except sawdust), powders, or loose fibres; - wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed; - hazardous wastes
Waste code	**Description**
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 04	sludges from on-site effluent treatment

Table S2.3 Permitted waste types and quantities for composting in closed systems to produce compost like output	
Maximum quantity	**The total annual throughput for wastes in Tables S2.2 and S2.3 shall not exceed 135,000 tonnes per annum**
Exclusions	Wastes having any of the following characteristics shall not be accepted: - consisting solely or mainly of dusts (except sawdust), powders, or loose fibres; - wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed; - hazardous wastes
Waste code	**Description**
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 05	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 05	sludges from on-site effluent treatment (biodegradable only)
02 07 99	wastes not otherwise specified (malt husks, malt sprouts, yeast and yeast-like residues only)
03	**Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard**
03 03	**wastes from pulp, paper and cardboard production and processing**
03 03 07	mechanically separated rejects from pulping of waste paper and cardboard
03 03 08	wastes from sorting of paper and cardboard destined for recycling
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 03	wooden packaging
15 01 05	composite packaging (only biodegradable organic packaging)
15 01 09	textile packaging (made entirely from biodegradable fibres 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 only of non-hazardous wastes (waste types listed in this table only)
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05 (only if derived solely from physical treatment and/or pH adjustment of waste input types listed in this table)
19 05	**wastes from aerobic treatment of solid wastes**
19 05 01	non-composted fraction of municipal and similar wastes
19 05 02	non-composted fraction of animal and vegetable waste
19 05 03	off-specification compost (from a composting process that accepts waste input types listed in this table)
19 05 99	wastes not otherwise specified

Table S2.3 Permitted waste types and quantities for composting in closed systems to produce compost like output	
Maximum quantity	**The total annual throughput for wastes in Tables S2.2 and S2.3 shall not exceed 135,000 tonnes per annum**
Exclusions	Wastes having any of the following characteristics shall not be accepted: - consisting solely or mainly of dusts (except sawdust), powders, or loose fibres; - wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed; - hazardous wastes
Waste code	**Description**
19 06	**wastes from anaerobic treatment of waste**
19 06 03	liquor from anaerobic treatment of municipal waste (derived from source segregated municipal waste only)
19 06 04	digestate from anaerobic treatment of municipal waste (derived from source segregated municipal waste only)
19 06 05	liquor from anaerobic treatment of animal and vegetable waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste
19 08	**wastes from waste water treatment plants not otherwise specified**
19 08 05	sludges from treatment of urban waste water
19 09	**wastes from the preparation of water intended for human consumption or water for industrial use**
19 09 01	solid waste from primary filtration and screenings (seaweed only)
19 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 07	wood other than that mentioned in 19 12 06
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)
20	**Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions**
20 01	**separately collected fractions (except 15 01)**
20 01 08	biodegradable kitchen and canteen waste
20 01 38	wood other than that mentioned in 20 01 37
20 03	**other municipal wastes**
20 03 01	mixed municipal waste

Table S2.4 Permitted waste types and quantities for drying	
Maximum quantity	**The total annual throughput for wastes in table S2.4 shall not exceed 45,000 tonnes per annum.**
Exclusions	Wastes having any of the following characteristics shall not be accepted: - consisting solely or mainly of dusts (except sawdust), powders, or loose fibres; - wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed; - hazardous wastes
Waste code	**Description**
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 05	sawdust, shavings, cuttings, wood and particle board other than those mentioned in 03 01 04
03 03	**wastes from pulp, paper and cardboard production and processing**
03 03 01	waste bark and wood
03 03 05	de-inking sludges from paper recycling
03 03 07	mechanically separated rejects from pulping of waste paper and cardboard
03 03 08	wastes from sorting of paper and cardboard destined for recycling
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
19	**Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use**
19 05	**wastes from aerobic treatment of solid wastes**
19 05 03	off-specification compost (from a composting process that accepts waste input types listed in this table)
19 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 01	paper and cardboard
19 12 07	wood other than that mentioned in 19 12 06
20	**Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions**
20 01	**separately collected fractions (except 15 01)**
20 01 38	wood other than that mentioned in 20 01 37

Table S2.5 Permitted waste types and quantities for bulk transfer with treatment	
Maximum quantity	**The total annual throughput for wastes in Table S2.5 shall not exceed 20,000 tonnes.**
Exclusions	Wastes having any of the following characteristics shall not be accepted: - consisting solely or mainly of dusts (except sawdust), powders, or loose fibres; - wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed; - hazardous wastes
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 07	wastes from forestry (biodegradable only)
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 07	**wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)**
02 07 04	**material 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
03 01 05	sawdust, shavings, cuttings, wood and particle board other than those mentioned in 03 01 04
03 03	**wastes from pulp, paper and cardboard production and processing**
03 03 01	waste bark and wood
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
04	**Wastes from the leather, fur and textile industries**
04 02	**wastes from the textile industry**
04 02 10	organic matter from natural products
10	**Wastes from thermal processes**
10 01	**wastes from power stations and other combustion plants (except 19)**
10 01 03	fly ash from peat and untreated wood
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
15 01 03	wooden packaging
15 01 06	mixed packaging
17	**Construction and demolition wastes (including excavated soil from contaminated sites)**

Table S2.5 Permitted waste types and quantities for bulk transfer with treatment	
Maximum quantity	**The total annual throughput for wastes in Table S2.5 shall not exceed 20,000 tonnes.**
Exclusions	Wastes having any of the following characteristics shall not be accepted: - consisting solely or mainly of dusts (except sawdust), powders, or loose fibres; - wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed; - hazardous wastes
Waste code	**Description**
17 02	**wood, glass and plastic**
17 02 01	**wood**
17 08	**gypsum-based construction material**
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01
19	**Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use**
19 05	**wastes from aerobic treatment of solid wastes**
19 05 03	off-specification compost (from a composting process that accepts waste input types listed in this table)
19 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 07	wood other than that mentioned in 19 12 06
20	**Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions**
20 01	**separately collected fractions (except 15 01)**
20 01 01	paper and cardboard (excluding veneers, plastic coatings or laminates)
20 01 38	wood other than that mentioned in 20 01 37
20 02	**garden and park wastes (including cemetery waste)**
20 02 01	**biodegradable waste**

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements[1]						
Emission point ref. & location	**Source**	**Parameter**	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
A1 [Point A1 on site plan in Schedule 7]	Biomass Boiler Plant stack 1	Oxides of Nitrogen (NO and NO_2 expressed as NO_2)	250 mg/m^3	Hourly average	Annual	BS EN 14792
A2 [Point A1 on site plan in Schedule 7]	Biomass Boiler Plant Stack 2	Oxides of Nitrogen (NO and NO_2 expressed as NO_2)	250 mg/m^3	Hourly average	Annual	BS EN 14792
Note 1 – monitoring requirements will be reviewed by the Environment Agency 2 years following the issue of this variation notice.						

Table S3.2 Point source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (incl. unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
W1 on site plan in schedule 7 emission to a tributary of the Cranbook Drain.	Uncontaminated site surface water from roof of reception building only.	Oil and grease	No visible oil or grease	None specified	Weekly	Visual assessment

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
Internal for each composting batch during sanitisation stage	Temperature	At least daily	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
	Moisture	None specified	--	
Internal and external for each composting batch during stabilisation stage	Temperature	At least weekly	Temperature probe	
	Moisture	None specified	--	

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
				Environment Agency.
Biofilters	Temperature	As required	Temperature probe	Biofilters shall be regularly checked and maintained to ensure appropriate temperature and moisture content.
	Moisture	As required	None specified	
	Thatching/compaction	As required	None specified	
Scrubber system	Key process parameters to include pH, temperature and air flow	In accordance with manufacturer's recommendations.	None specified	Scrubber system shall be regularly checked and maintained to ensure appropriate temperature and moisture content.
Waste reception building; storage tanks; Maturation area	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary.
Storage tanks	Integrity checks	Weekly	Visual assessment	----

Table S3.4 Bioaerosols monitoring requirements – ambient monitoring					
Location or description of point of measurement	**Parameter**	**Bioaerosols threshold limits 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	Quarterly for the first year of operation and twice a year thereafter, unless another frequency is agreed 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			

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 Parameters as required by condition 3.8.1.	A1 and A2	Every 12 months	1 January
Bioaerosols monitoring Parameters as required by condition 3.8.1	As specified in schedule 3 tables S3.4 and S3.5	Every 3 months or as agreed in writing by the Environment Agency	1 January, 1 April, 1 July, 1 October
Process monitoring as required by condition 3.8.1	Biofilter and scrubber	Every 12 months	1 January

Table S4.2 Annual production/treatment	
Parameter	**Units**
Processed compost	tonnes
Processed compost-like output	tonnes

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

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	07/12/17
Water usage	Form water usage1 or other form as agreed in writing by the Environment Agency	07/12/17
Energy usage	Form Energy usage1 or other form as agreed in writing by the Environment Agency	07/12/17
Bioaerosols	As specified in the Technical Guidance Note M9 or other form as agreed in writing by the Environment Agency	07/12/17
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	07/12/17
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	
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.

“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 butcher 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.

“bioaerosols threshold limits” means the maximum acceptable bioaerosols concentrations at the nearest sensitive receptor, or at an equivalent distance downwind of the biowaste treatment operations, which are attributable to the biowaste treatment operations. The maximum acceptable concentrations are respectively 1000 and 500 CFU m^{-3} for total bacteria and Aspergillus fumigatus.

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

“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 plastics that are certified to meet the standards of EN 13432, EN 14995 or equivalent.

“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”.

“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.

“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.

“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.

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

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

“Industry Standard Protocol” means “A standardised protocol for the monitoring of bioaerosols at open composting facilities” published by the Association for Organics Recycling and developed in conjunction with the Environment Agency.

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

“pests” means Birds, Vermin and Insects.

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

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

“sanitisation stage” means the actively managed and intensive stage of composting lasting for at least five days, characterised by high oxygen demand and temperatures of over 55 °C, during which biological processes, together with conditions in the composting mass, eradicate human and animal pathogens or reduce them to acceptably low levels.

“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 liquid will run off the surface otherwise than via the system;

(b) except where they may be lawfully be discharged to foul sewer, all liquids entering the system are collected in a sealed sump.

“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.

“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.

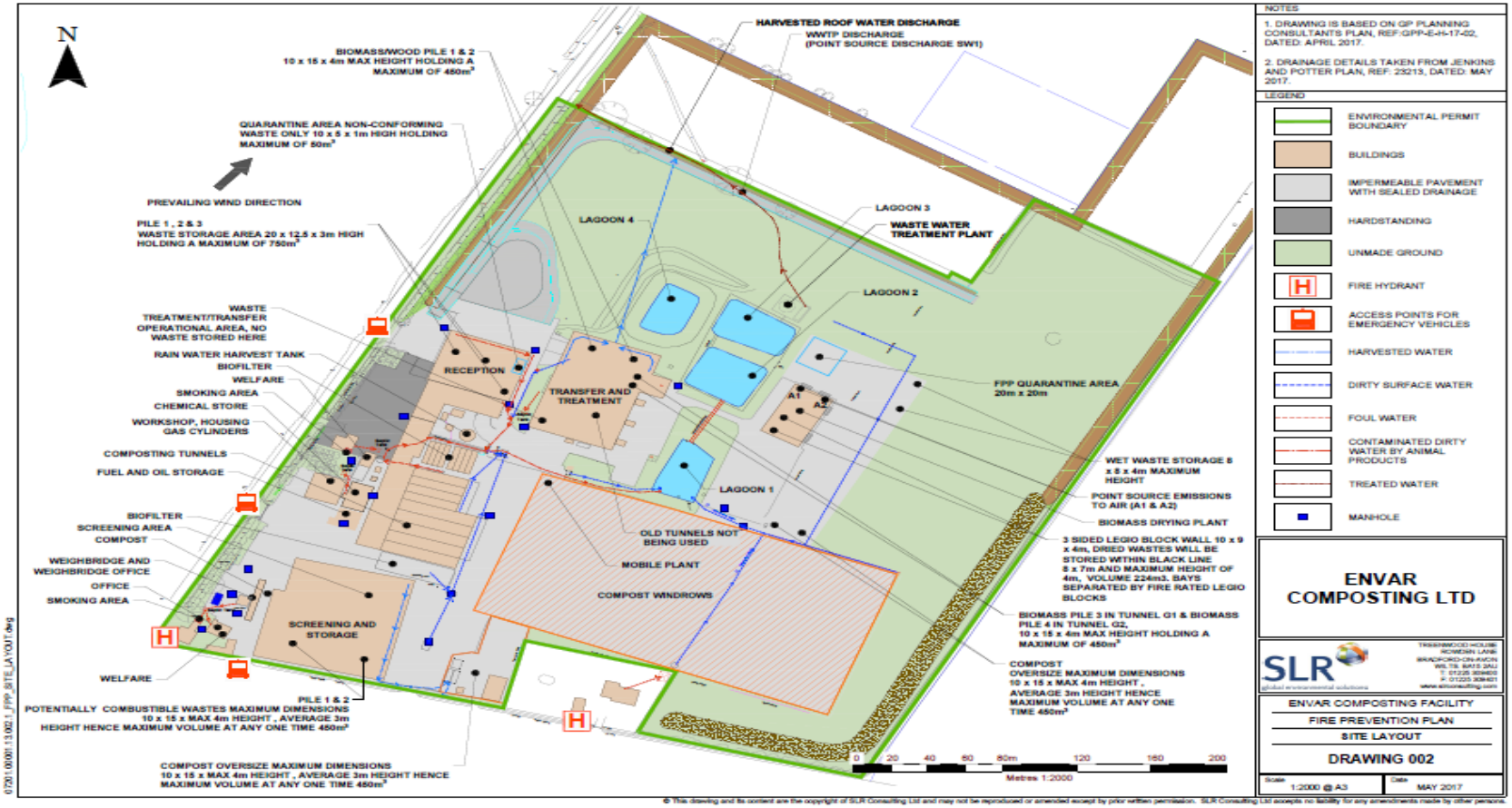
“year” means calendar year ending 31 December.

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 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.

Schedule 7 – Site plan



END OF PERMIT

Permit Number:	**EPR/GP3930DF**	**Operator:**	**Envar Composting Limited**
Facility:	**Envar Composting Facility**	**Form Number:**	**Air1 / 07/12/17**

Reporting of emissions to air for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
A1	Oxides of nitrogen (NO and NO_2 expressed as NO_2)	250 mg/m^3	1 hour period		BS EN 14792		
A2	Oxides of nitrogen (NO and NO_2 expressed as NO_2)	250 mg/m^3	1 hour period		BS EN 14792		

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[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.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed …… Date……..

(Authorised to sign as representative of Operator)

Permit Number:	**EPR/GP3930DF**	**Operator:**	**Envar Composting Limited**
Facility:	**Envar Composting Facility**	**Form Number:**	**WaterUsage1 / 07/12/17**

Reporting of Water Usage for the year

Water Source	**Usage (m3/year)**	**Specific Usage (m3/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/GP3930DF**	**Operator:**	**Envar Composting Limited**
Facility:	**Envar Composting Facility**	**Form Number:**	**Energy1 / 07/12/17**

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		
Biogas	MWh		
Gas Oil	tonnes		
Recovered Fuel Oil	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/GP3930DF**	**Operator:**	**Envar Composting Limited**
Facility:	**Envar Composting Facility**	**Form Number:**	**Performance1 / 07/12/17**

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

Parameter	**Units**
Total raw material used	tonnes

Operator's comments:

Signed …… Date……..

(Authorised to sign as representative of Operator)