

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Biowise Limited

Biowise Albion Lane Composting Facility
Albion Lane
Willerby
Hull
East Yorkshire
HU10 6TS

Variation application number
EPR/PP3096ZA/V004

Permit number
EPR/PP3096ZA

Biowise Albion Lane Composting Facility

Permit number EPR/PP3096ZA

Introductory note

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

The following notice gives notice of the variation and consolidation of an environmental permit.

The variation changes the operator's registered office address. The variation allows the operator to accept only waste types that are suitable for open windrow composting and increases the annual tonnage for the composting facility from less than 24,999 tonnes per annum to less than 75,000 tonnes. The variation adds an activity for the treatment of waste to produce soil, soil substitutes and aggregate with an annual throughput of less than 50,000 tonnes. The variation also extends the permitted area and allows the operator to increase the storage capacity at the site from 10,000 tonnes to 50,000 tonnes. To facilitate these changes a pre-operational condition requiring an odour management plan has been added. This condition requires the Environment Agency to approve the odour management plan prior to changes in this variation notice taking effect. Conditions to control noise and vibration emissions and pests from the site have also been added.

Composting can only be carried out under aerobic conditions and no hazardous wastes are allowed. The varied permit does not permit the burning of any wastes, either in the open, inside buildings or in any form of incinerator.

The varied permit does not allow any point source emission into surface waters or groundwater. However, under the emissions of substances not controlled by emission limits rule:

- Liquids may be discharged into a foul sewer subject to a consent issued by the local water company.
- Liquids may be taken off-site in a tanker for disposal or recovery.
- Clean surface water from roofs, or from areas of the site that are not being used in connection with storing and treating waste, may be discharged directly to surface waters, or to groundwater by seepage through the soil via a soak away.

The schedules specify the changes made to the original permit. All conditions of the permit have been varied.

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 65512	16/10/2006	Permit issued to Biowaste (Recycling) Limited
Application for partial modification	08/03/2007	Application for variation to add waste types
Modification granted	21/03/2007	Permit modified
Variation EPR/PP3096ZA	08/12/2009	Variation to change company name and registered office address
Variation application EPR/PP3096ZA/V004	Duly made 24/08/2011	Variation to extend permitted area, increase annual tonnages, add soil manufacture as a permitted activity, increase storage capacity and change registered office address
Variation and updating to modern conditions	18/01/2012	Operator's agreement to Agency varying the permit on its own initiative to update to modern conditions
Amendment of variation application	14/02/2012	Operator's confirmation of amendments to original variation application. The application was amended to include a justification of the revised storage capacity; limiting waste types for soil manufacture to those listed in SR2010No12 standard rules permit; and agreement to pre-operational conditions relating to submission and approval of an odour management plan.
Submission of additional information	21/06/2012	Submission of revised waste pre- acceptance criteria to be adopted for wastes requiring pre-acceptance tests
Variation EPR/PP3096 determined	03/07/2012	Variation notice issued

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

permit number
EPR/PP3096ZA

issued to
Biowise Limited (“the operator”)

whose registered office is

Biowise Limited
Albion Lane
Willerby
Hull
East Yorkshire
HU10 6TS

company registration number **04305295**

to operate regulated facilities at

Biowise Albion Lane Composting Facility
Albion Lane
Willerby
Hull
East Yorkshire
HU10 6TS

to the extent set out in the schedules.

The notice shall take effect from 03/07/2012

Name	Date
Maxine Evans	03/07/2012

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit EPR/ PP3096ZA.

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

2.1,

2.2,

2.3 (except in so far as 2.3.2 (a) relates to Table S2.2 in schedule 2),

2.4.1, 2.4.2 and 2.4.3;

3.3;

Schedule 1 – Operations (save with regard to the fifth paragraph of the 'Limits of specified activity and waste types' column in table S1.1, and PO3 of Table S1.3);

Schedule 2 – Table S2.1 Permitted waste types and quantities for open windrow composting;

Table S2.3 Permitted waste types and quantities for treatment of waste to produce soil, soil substitutes and aggregate

Table S2.4. Permitted waste types and quantities for blending process.

Schedule 7 - Site plan

All conditions other than those above have been varied by the consolidated permit ERP/PP3096ZA as a result of an Environment Agency initiated variation.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

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 Avoidance, recovery and disposal of wastes produced by the activities

1.2.1 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.

1.2.2 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 Subject to conditions 2.4.1 and 2.4.2, the operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).

2.2 The site

2.2.1 The activities shall not extend beyond the site, being - subject to condition 2.4.2 - the land shown edged in green on the site plan S7.1 at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 (a) Activities A1 and A2 referenced in schedule 1, table S1.1 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.
- (b) 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 specified in schedule 1, table S1.2 or otherwise required under this permit, 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.
- 2.3.2 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 tables S2.1, S2.2 and S2.3 and
- (b) it conforms to the description in the documentation supplied by the producer and holder.

2.4 Pre-operation conditions

- 2.4.1 The following shall not apply until the date specified in PO2 of schedule 1 table S1.3:
- (a) the extent of the site as set out in condition 2.2.1 and site plan S7.1 at schedule 7 to this permit.
- (b) the annual tonnage limits for open windrow composting as set out in schedule 1 table S1.1.
- (c) the storage capacity of wastes for open windrow composting as set out in schedule 1 table S1.1.
- (d) the soil manufacture activity specified in schedule 1 table S1.1.

- 2.4.2 Prior to the date specified in PO2 of schedule 1 table S1.3:
- (a) the site is the land shown edged green on the site plan at S7.2 at schedule 7 to this permit.
 - (b) the annual tonnage for open windrow composting shall be less than 24,999 tonnes per annum,
 - (c) the storage capacity of wastes for composting in open windrows shall be less than 10,000 tonnes at any one time.
- 2.4.3 Following completion of the measures specified in PO1 of schedule 1 table S1.3 the operator will comply with the measures specified in PO2 of that table.
- 2.4.4 Prior to 03/11/2012 wastes in table S2.2 may be accepted without satisfying the pre-acceptance criteria referred to in schedule 1 table S1.2. Thereafter these wastes cannot be accepted unless the operator complies with the measures specified in PO3 of schedule 1 table S1.3.

2.5. Control of pest infestations

- 2.5.1. 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.
- 2.5.2. 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;
 - (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3 Emissions and monitoring

3.1. Emissions of substances not controlled by emission limits

3.1.1 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.

3.1.2 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;
- (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.1.3 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.

3.2 Odour

3.2.1 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.

3.2.2 The operator shall:

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

3.3 Noise and vibration

- 3.3.1 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.
- 3.3.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan;
 - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Monitoring

- 3.4.1 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) process monitoring specified in table S3.1;
 - (b) bioaerosol monitoring specified in table S3.2.
- 3.4.2 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.

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 Within one month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.
- 4.2.3 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 S4.2 ; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.3 Notifications

- 4.3.1 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.
- 4.3.2 Any information provided under condition 4.3.1 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 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.
- 4.3.4 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.

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

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

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", in which case it may be provided by telephone.

Schedule 1 - Operations

Table S1.1 activities		
Activity reference	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
A1 – Open windrow composting	<p>R13: Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents</p>	<p>Treatment operations shall be limited to secure storage, physical treatment, composting and maturation of the types of waste listed in table S2.1. and (subject to the fifth paragraph below) S2.2.</p> <p>The storage, physical treatment, composting and maturation of wastes under anaerobic conditions shall be prevented.</p> <p>No waste shall be stored on site prior to composting for longer than 5 days</p> <p>The storage and physical treatment of waste:</p> <p>a) shall take place outdoors only on an impermeable surface with sealed drainage system; and</p> <p>b) shall not take place in any form of enclosed reactor vessel.</p> <p>From 03 November 2012 no waste within table S2.2 shall be accepted without prior written agreement from the Environment Agency. All waste will be described and fully characterized. All waste to be accepted for composting must be proven to be biologically degradable and must be of benefit to the composting process.</p> <p>Subject to condition 2.4.2, the total quantity of waste accepted at the site for activity A1 shall be less than 75,000 tonnes a year.</p> <p>Subject to condition 2.4.2, composting activities (shredding, screening, chipping, turning and maturation) are restricted to less than 30,000 tonnes at any one time and shall not take place within 250 metres of any sensitive receptor.</p> <p>Composting activities shall take place in accordance with pre-operational measures specified in table S1.3.</p>

Table S1.1 activities		
Activity reference	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
A2 – Soil manufacture	<p>R13: Storage of wastes pending the operations numbered R3 and R5</p> <p>R3: Recycling or reclamation of organic substances which are not used as solvents;</p> <p>R5: Recycling or reclamation of other inorganic materials</p>	<p>Treatment of wastes listed in schedule 2 table S2.3 consisting only of sorting, separation, screening, crushing and blending of waste for recovery as a soil, soil substitute or aggregate.</p> <p>Secure storage of wastes listed in schedule 2 table S2.3 pending treatment.</p> <p>The total quantity of waste accepted at the site for activity A2 shall be less than 50,000 tonnes a year.</p> <p>Storage of wastes listed in schedule 2 table S2.3 and S2.4 shall not exceed 20,000 tonnes in total at any one time.</p>
A3 - Blending	<p>R5: Recycling or reclamation of other inorganic materials</p>	<p>Treatment of wastes listed in schedule 2 table S2.4 consisting only of screening, crushing, shredding and mixing for the purpose of blending and recovery as a soil, soil substitute or aggregate.</p> <p>Waste for blending must be able to be used without risk to the end receiving soil.</p>

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	Responses to section 3a – technical standards , Part C4 of the application form	24/08/11
Composting	PAS 100:2005 and Quality Compost Protocol	24/08/11
Composting	How to comply with your Environmental Permit and H4 Odour management guidance	24/08/11
Composting	Sector Guidance Notes on Integrated Pollution and Prevention Control S5.06	24/08/11
Waste Pre-acceptance	Waste Pre-acceptance Criteria	21/06/12

Table S1.3 Pre-operational measures		
Reference	Requirement	Date of commencement
PO1	The operator shall submit a written odour management plan to the Environment Agency for approval, which must be approved by the Environment Agency in writing. The plan must contain relevant information regarding how the operator will comply with condition 3.2. The odour management plan must comply with relevant Environment Agency guidance “H4 Odour Management: How to comply with your environmental permit“.	4 July 2012
PO2	The plan must be implemented in accordance with the Environment Agency’s written approval.	The date the Agency approve the odour management plan in writing
PO3	From the date opposite: (i) the operator shall submit to the Environment Agency for approval documents which satisfy the pre-acceptance criteria specified in schedule 1 table S1.2 for the wastes listed in table S2.2 (or such other criteria as the Agency may approve in writing) (ii) the waste streams referred to in (i) above shall not be accepted until approved in writing by the Environment Agency.	3 November 2012

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Permitted waste types and quantities for open windrow composting	
Maximum quantity	The total quantity of waste accepted at the site for open windrow composting shall be subject to limits and storage capacities specified in Table 1.1
Exclusions Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Catering waste and other wastes containing animal by products covered by the Animal By-Products Regulations (except waste code 02 01 06 and 02 02 99); • Wastes producing significant odour or likely to produce significant odour • Wastes consisting solely or mainly of dusts (except sawdust), powders or loose fibres • Hazardous wastes • Wastes containing treated wood • Wastes containing wood-preserving agents or other biocides • Wastes containing persistent organic pollutants • Wastes containing Japanese Knotweed 	
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 03	plant-tissue waste
02 01 06	animal faeces, urine and manure (excluding non-biodegradable bedding)
02 01 07	wastes from forestry (biodegradable only)
02 01 99	Wastes not otherwise specified (spent mushroom compost only)
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 99	Horse manure, farmyard manure and bedding (excluding non-biodegradable bedding)
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 01	sludges from washing, cleaning, peeling, centrifuging and separation
02 03 04	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 (spent grains or hops only)
02 07 02	wastes from spirits distillation (whisky filter sheets or cloths)
02 07 04	materials unsuitable for consumption or processing (biodegradable only)
02 07 99	wastes not otherwise specified (malt husks, malt sprouts, yeast and yeast-like residues)
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 only (excluding veneers or preservatives)

Table S2.1 Permitted waste types and quantities for open windrow composting

Maximum quantity	The total quantity of waste accepted at the site for open windrow composting shall be subject to limits and storage capacities specified in Table 1.1
Exclusions	
Wastes having any of the following characteristics shall not be accepted:	
<ul style="list-style-type: none"> • Catering waste and other wastes containing animal by products covered by the Animal By-Products Regulations (except waste code 02 01 06 and 02 02 99); • Wastes producing significant odour or likely to produce significant odour • Wastes consisting solely or mainly of dusts (except sawdust), powders or loose fibres • Hazardous wastes • Wastes containing treated wood • Wastes containing wood-preserving agents or other biocides • Wastes containing persistent organic pollutants • Wastes containing Japanese Knotweed 	
Waste code	Description
03 03	wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and wood
03 03 10	fibre rejects only
04	Wastes from the Leather, Fur and Textile Industries
04 02	wastes 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 or plastic coatings)
15 01 03	wooden packaging (non treated wood waste)
15 01 05	composite packaging (only biodegradable packaging)
15 01 09	textile packaging (made entirely from bio-degradable fibres only)
17	Construction and Demolition Wastes (including excavated soil from contaminated sites)
17 02	wood, glass and plastic
17 02 01	Wood (untreated)
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 06	dredging spoil and plant tissue waste other than those mentioned in 17 05 03 (only if dewatered and from inland waters)
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 (only from a process operated according to PAS 100 and quality protocol requirements, waste exemption T23 or another approved standard)
19 08	waste from waste water treatment plants
19 08 05	sludges from treatment of urban waste water
19 12	waste from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 01	paper and cardboard (excluding veneers or plastic coatings)
19 12 07	wood other than that mentioned in 19 12 06 (excluding wood containing dangerous substances)

Table S2.1 Permitted waste types and quantities for open windrow composting

Maximum quantity	The total quantity of waste accepted at the site for open windrow composting shall be subject to limits and storage capacities specified in Table 1.1
<p>Exclusions</p> <p>Wastes having any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> • Catering waste and other wastes containing animal by products covered by the Animal By-Products Regulations (except waste code 02 01 06 and 02 02 99); • Wastes producing significant odour or likely to produce significant odour • Wastes consisting solely or mainly of dusts (except sawdust), powders or loose fibres • Hazardous wastes • Wastes containing treated wood • Wastes containing wood-preserving agents or other biocides • Wastes containing persistent organic pollutants • Wastes containing Japanese Knotweed 	
Waste code	Description
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 or plastic coatings)
20 01 38	wood other than wood containing dangerous substances from separately collected fractions of municipal wastes (household waste and similar commercial, industrial and institutional wastes)
20 02	garden and park waste (including cemetery waste)
20 02 01	biodegradable waste (plant matter only)
20 02 02	soil and stones
20 03	other municipal wastes
20 03 02	waste from markets (biodegradable only)

Table S2.2 Permitted waste types and quantities for open windrow composting for which pre-acceptance criteria apply

Maximum quantity	The total quantity of waste accepted at the site for open windrow composting shall be subject to limits and storage capacities specified in Table 1.1
<p>Exclusions</p> <p>Wastes having any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> • Catering waste and other wastes containing animal by products covered by the Animal By-Products Regulations (except waste code 02 01 06 and 02 02 99); • Wastes producing significant odour or likely to produce significant odour • Wastes consisting solely or mainly of dusts (except sawdust), powders or loose fibres • Hazardous wastes • Wastes containing treated wood • Wastes containing wood-preserving agents or other biocides • Wastes containing persistent organic pollutants • Wastes containing Japanese Knotweed 	
Waste code	Description
02	Wastes from Agriculture, Horticulture, Aquaculture, Forestry, Hunting and Fishing, Food Preparation and Processing
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 02	wastes from preserving agents
02 03 05	sludges from on-site effluent treatment
02 04	wastes from sugar processing
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 confectionary industry
02 06 01	materials unsuitable for consumption or processing
02 06 02	wastes from preserving agents
02 06 03	sludges from on-site effluent treatment
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 03	wastes from chemical treatment
02 07 05	sludges from on-site effluent treatment
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 05	de-inking sludges from paper recycling
03 03 08	wastes from sorting of paper and cardboard destined for recycling
04	Wastes from the Leather, Fur and Textile Industries
04 02	wastes from the textile industry
04 02 15	wastes from finishing other than those mentioned in 04 02 14
04 02 21	wastes from unprocessed textile fibres
04 02 22	wastes from processed textile fibres
05	WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL

Table S2.2 Permitted waste types and quantities for open windrow composting for which pre-acceptance criteria apply

Maximum quantity	The total quantity of waste accepted at the site for open windrow composting shall be subject to limits and storage capacities specified in Table 1.1
<p>Exclusions</p> <p>Wastes having any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> • Catering waste and other wastes containing animal by products covered by the Animal By-Products Regulations (except waste code 02 01 06 and 02 02 99); • Wastes producing significant odour or likely to produce significant odour • Wastes consisting solely or mainly of dusts (except sawdust), powders or loose fibres • Hazardous wastes • Wastes containing treated wood • Wastes containing wood-preserving agents or other biocides • Wastes containing persistent organic pollutants • Wastes containing Japanese Knotweed 	
Waste code	Description
05 01	wastes from petroleum refining
05 01 10	sludges from on-site effluent treatment other than those mentioned in 05 01 09
07	Wastes from Organic Chemical Processes
07 01	wastes from the MFSU of basic organic chemicals
07 01 12	sludges from on site effluent treatment other than those mentioned in 07 01 11
07 03	wastes from the MFSU of organic dyes and pigments (except 06 11)
07 03 12	sludges from on site effluent treatment other than those mentioned in 07 03 11
07 06	wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 12	sludges from on site effluent treatment other than those mentioned in 07 06 11
07 07	wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 12	sludges from on-site effluent treatment other than those mentioned in 07 07 11
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 06	mixed packaging
15 02	absorbents, filter materials, wiping cloths and protective clothing
15 02 03	absorbents, filter material, wiping cloths, protective clothing other than those mentioned in 15 02 02
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
16 10	aqueous liquid wastes destined for off-site treatment
16 10 02	aqueous liquid wastes other than those mentioned in 16 10 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 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralization)
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05

Table S2.2 Permitted waste types and quantities for open windrow composting for which pre-acceptance criteria apply

Maximum quantity	The total quantity of waste accepted at the site for open windrow composting shall be subject to limits and storage capacities specified in Table 1.1
<p>Exclusions</p> <p>Wastes having any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> • Catering waste and other wastes containing animal by products covered by the Animal By-Products Regulations (except waste code 02 01 06 and 02 02 99); • Wastes producing significant odour or likely to produce significant odour • Wastes consisting solely or mainly of dusts (except sawdust), powders or loose fibres • Hazardous wastes • Wastes containing treated wood • Wastes containing wood-preserving agents or other biocides • Wastes containing persistent organic pollutants • Wastes containing Japanese Knotweed 	
Waste code	Description
19 08	wastes from waste water treatment plants not otherwise specified
19 08 12	sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11

Table S2.3 Permitted waste types and quantities for treatment of waste to produce soil, soil substitutes and aggregate (A2)

Maximum quantity	The total quantity of waste accepted at the site for treatment of waste to produce soil, soil substitutes and aggregate shall be subject to limits and storage capacities specified in Table 1.1
Exclusions	
Wastes having any of the following characteristics shall not be accepted:	
<ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Hazardous wastes • Wastes in liquid form 	
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	shellfish shells from which the soft tissue or flesh has 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
03 03	wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and wood
10	Wastes from Thermal Processes
10 01	wastes from power stations and other combustion plants (except 19)
10 01 01	bottom ash, slag only
10 01 02	pulverized fuel ash only
10 01 05	gypsum (solid) only
10 01 07	gypsum (sludge) only
10 01 15	bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
10 11	wastes from manufacture of glass and glass products
10 11 12	clean glass other than those mentioned in 10 11 11
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 14	waste concrete 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 07	clean glass only
17	Construction and Demolition Wastes (including excavated soil from contaminated sites)
17 01	concrete, bricks, tiles and ceramics
17 01 01	concrete

Table S2.3 Permitted waste types and quantities for treatment of waste to produce soil, soil substitutes and aggregate (A2)

Maximum quantity	The total quantity of waste accepted at the site for treatment of waste to produce soil, soil substitutes and aggregate shall be subject to limits and storage capacities specified in Table 1.1
Exclusions	
Wastes having any of the following characteristics shall not be accepted:	
<ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Hazardous wastes • Wastes in liquid form 	
Waste code	Description
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 02	clean glass only
17 03	bituminous mixtures, coal tar and tarred products
17 03 02	road base and road planings (other than those containing coal tar) only
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 03
17 05 08	track ballast other than those mentioned in 17 05 07
17 08	gypsum-based construction material
17 08 02	gypsum only other than that 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	compost from source segregated biodegradable waste only
19 08	wastes from waste water treatment plants not otherwise specified
19 08 02	washed sewage grit (waste from desanding) free from sewage contamination only
19 08 99	stone filter media if free from sewage contamination only
19 09	wastes from the preparation of water intended for human consumption or water for industrial use
19 09 02	sludges from water clarification
19 12	waste from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 05	clean glass only
19 12 09	minerals (for example sand, stones)
19 12 12	Treated bottom ash including IBA and slag other than that containing dangerous substances only
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 01	separately collected fractions (except 15 01)
20 01 02	clean glass only
20 02	garden and park waste (including cemetery waste)

Table S2.3 Permitted waste types and quantities for treatment of waste to produce soil, soil substitutes and aggregate (A2)

Maximum quantity	The total quantity of waste accepted at the site for treatment of waste to produce soil, soil substitutes and aggregate shall be subject to limits and storage capacities specified in Table 1.1
<p>Exclusions</p> <p>Wastes having any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Hazardous wastes • Wastes in liquid form 	
Waste code	Description
20 02 02	soil and stones

Table S2.4 Permitted waste types and quantities for blending process (A3)	
Maximum quantity	The total quantity of waste accepted at the site for open windrow composting and for treatment of waste to produce soil, soil substitutes and aggregate shall be subject to limits and storage capacities specified in Table 1.1
Exclusions	
Wastes having any of the following characteristics shall not be accepted:	
<ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Hazardous wastes 	
Waste code	Description
02	Wastes from Agriculture, Horticulture, Aquaculture, Forestry, Hunting and Fishing, Food Preparation and Processing
02 04	wastes from sugar processing
02 04 01	soil from cleaning and washing beet
02 04 02	off-specification calcium carbonate
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 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 02	sludges from water clarification
19 09 03	sludges from decarbonation

Schedule 3 – Emissions and monitoring

Table S3.1 Process monitoring requirements

Monitoring point	Substance or parameter	Monitoring frequency	Monitoring method	Other specifications
Internal for each windrow and for any sample of waste or compost	Temperature	None specified	Thermocouple probe	Monitoring equipment shall be available on-site and used as required to ensure compliance with this permit.
	Moisture	None specified	Moisture meter or moisture touch test	

Table S3.2 Bioaerosol monitoring requirements

Location or description of point of measurement	Parameter	Bioaerosol threshold limits CFU m ⁻³	Monitoring frequency	Monitoring standard or method	Other specifications
At a minimum of three separate locations, as described in the Industry Standard Protocol	Total bacteria	1000	Quarterly.	In accordance with the Industry Standard Protocol	As described in the Industry Standard Protocol, including all the additional data requirements specified therein.
	Aspergillus Fumigatus	500	This may be reduced to twice a year after the first year of operation if agreed in writing by the Environment Agency		

Schedule 4 - Reporting

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

Table S4.1 Reporting of monitoring data

Parameter	Reporting period	Period begins
Bioaerosol monitoring as required by condition 3.5.1(b)	Every 3 months or as agreed in writing by the Environment Agency	1 January, 1 April, 1 July, 1 October

Table S4.2 Reporting forms

Media/parameter	Reporting format
Bioaerosol monitoring	As specified in the Industry Standard Protocol 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.

“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

“Annex I” means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“Annex II” means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“bioaerosol threshold limits” means the maximum acceptable bioaerosol concentrations at the nearest sensitive receptor, or at an equivalent distance downwind of the composting operations, which are attributable to the composting operations. The maximum acceptable concentrations are respectively 300, 1000 and 500 CFU m⁻³ for gram-negative bacteria, total bacteria and *Aspergillus fumigatus*,

“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.

“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.

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

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

“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.

“groundwater protection zones 1 and 2” have the meaning given in the document titled "Groundwater Protection: Policy and Practice" published by the Environment Agency in 2006.

“hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 No.894, the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138), the List of Wastes (England) Regulations 2005 No.895 and the List of Wastes (Wales) Regulations 2005 No. 1820 (W.148).

“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

“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 micro-organisms, which will result in the final material not being harmful to plants. This usually coincides with drop in pH toward neutral, and the conversion of ammonia into nitrates and recolonisation of beneficial micro-organisms. The maturation phase may need active management by turning to prevent the material becoming anaerobic.

“nearest sensitive receptors” means the nearest place to the composting operations where people are likely to be for prolonged or frequent periods. This term would therefore apply to dwellings (including any associated gardens) and to workplaces where workers would frequently be present. It does not apply to the operators of composting facilities or their staff while carrying out the composting operation as their health is covered by Health and Safety legislation.

“pests” means Birds, Vermin and Insects.

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

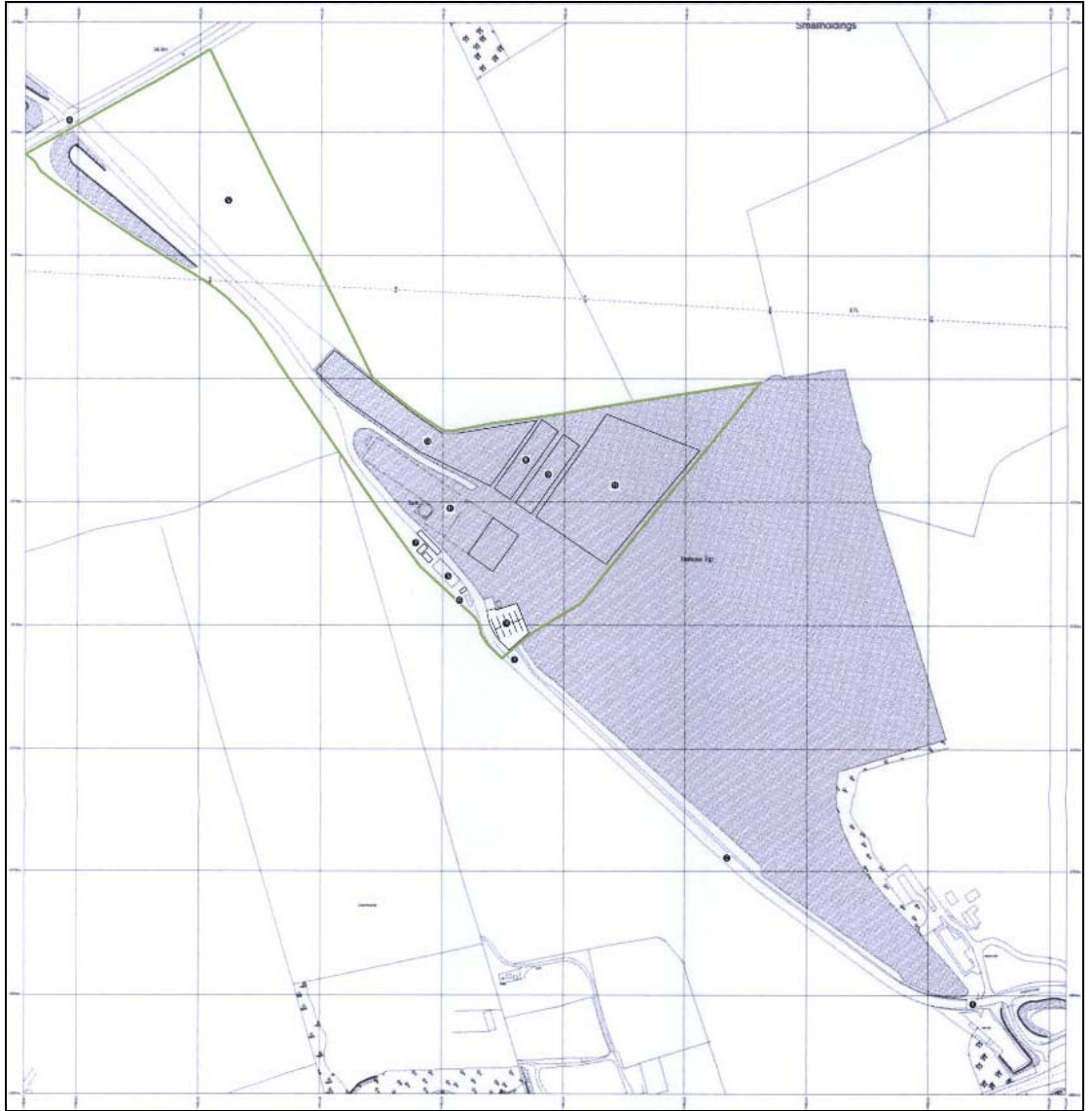
“R” means a recovery operation provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on Waste.

“Waste Framework Directive” or *“WFD”* means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste

“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.

Schedule 7 - Site plan

Site plan S7.1



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END OF PERMIT

Site plan S7.2

