

V1: Gone over at site on
16/07/15

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 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 the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 (a) The activities shall, subject to the conditions of this permit, be operated using the

A1 = IVC
A2 = CA
A3 = MRF
A4 = HCI (Na-hazal)

techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by Natural Resources Wales.

- (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales 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 Natural Resources Wales.

2.3.2 Waste shall only be accepted if:

- (a) it is of a type and quantity listed in schedule 2 table(s) S2.1 [, S2.2 etc]; and
(b) except for household waste accepted from householders, it conforms to the description in the documentation supplied by the producer and holder.

2.4 Improvement programme

2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.

2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

2.5 Pre-operational conditions

2.5.1 The operations specified in schedule 1 table S1.4A shall not commence until [DD/MM/YYYY] [and until] [the measures specified in that table have been completed].

2.4 Technical requirements

WEEE waste storage and treatment

2.4.1 The storage (including temporary storage) and treatment of WEEE shall be carried out in accordance with the technical requirements of Annex III of the WEEE Directive.

2.4.2 Equipment shall be provided to record the weight of untreated WEEE accepted at, and components and materials leaving the site.

Hazardous waste storage and treatment

2.4.3 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

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.

Commented [JN1]: NOTE:

This condition may be needed if there is no existing, specific odour management plan in place at the site. If needed, this condition and the table it refers to, would be used to set out how the required odour management plan can be submitted for approval. We would refer to the future (to be agreed) odour management plan in Table S1.2 – as one of the techniques used while carrying out operations at the site.

An odour management plan is a standard, required plan for all permitted waste transfer activities. It is also needed for any inherently odorous permitted activity, such as composting.

Commented [JN2]: NOTE:

This condition may be needed if there is no existing, specific bioaerosols monitoring provision/requirement at present. If needed, this condition and the table it refers to, would be used to set out how the required bioaerosols monitoring would be undertaken, prior to the IVC activity starting. We would refer to the future (to be agreed) bioaerosols risk assessment in Table S1.2 – as one of the techniques used while carrying out operations at the site.

Commented [JN3]: NOTE:

These are our modern, standard conditions to be used for activities accepting WEEE wastes. You are currently permitted to accept WEEE waste under your permit (chapter 16 02 waste codes), hence these conditions have been included in the modern permit.

(If the improvement condition is needed, this condition will be renumbered accordingly.)

Commented [JN4]: NOTE:

This is our modern, standard condition to be used for all activities involving the acceptance of hazardous waste. Our current permit allows you to accept various types of hazardous waste, hence this condition is included in the modern permit.

3.2 Emissions of substances not controlled by emission limits

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

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of Natural Resources Wales, 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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales 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 Natural Resources Wales.

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 Natural Resources Wales, submit to Natural Resources Wales for approval within the period specified, a pests management plan which identifies and minimises risks of pollution, hazard or annoyance from pests;
- (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by Natural resources Wales.

3.3 Monitoring

- 3.3.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1;
 - (b) process monitoring specified in table S3.2;
- 3.3.2 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.
- 3.3.4 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 etc] unless otherwise agreed in writing by Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.
- 4.2.2 Within one month of the end of each quarter, the operator shall submit to Natural Resources Wales 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 Natural Resources Wales, 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.

4.2.4 The operator shall submit to Natural Resources Wales 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 recommissioning 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 Natural Resources Wales.

4.3 Notifications

4.3.1 Natural Resources Wales 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 Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.

4.3.4 Natural Resources Wales 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);

Commented [JN5]: NOTE:

Condition only needed IF bioaerosols requirements are to be included now, instead of all agreed at a later date, BEFORE the IVC activity can come into full operation

- (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) Natural Resources Wales 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 activities for waste operations	Limits of activities
A1 – Biological treatment: In-vessel composting	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)	All storage, physical treatment, composting and maturation of wastes must take place: - in a well-ventilated building on an impermeable surface with sealed drainage system, or - outdoors on areas of impermeable surface with a sealed drainage system.
	R3: Recycling/ reclamation of organic substances which are not used as solvents	<p>The composting of wastes must take place in an enclosed readcot vessel filled with a bio-filter.</p> <p>The maturation of wastes must take place: - in an enclosed reactor vessel fitted with a bio-filter, or - in windrows located wither indoors or outdoors.</p> <p>The storage, physical treatment, composrtng and maturation of wastes under anaerobic conditions shjall be precented, or whatare that is noe practivable, minimised.</p> <p>(The total quantities of waste undergoing biological treatment for recovery at the site shall not exceed 75 tonnes per day.)</p> <p>Waste types as specified in Table S2.1</p>

Table continued overleaf

Commented [JN6]: Please Note:

his legal limit needs to be in the permit to confirm that the activity will be operated below the threshold above which it would be considered an IED activity.

If the biological treatment of waste for recovery on site, under this permit, were to exceed 75 tonnes per day, this activity would have to be varied to reflect that it is being operated as an IED installation.

We are carrying out a planned programme to put all such legal limits into waste facility permits, to reflect that they are operating below the legal threshold, and as such, are not permitted as installations.

Table S1.1 activities		
Activity reference	Description of activities for waste operations	Limits of activities
A2 – Hazardous and non-hazardous household amenity site	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)	All waste must be stored and treated on an impermeable surface with sealed drainage.
	D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)	The maximum quantity of hazardous waste (including waste oils) that can be accepted, stored or treated at the site shall not exceed 10 tonnes per day in total.
	D14: Repackaging prior to submission to any of the operations numbered D1 to D13	Cement bonded asbestos waste shall be double bagged and stored within clearly identified, segregated, secure, lockable containers on an impermeable surface with sealed drainage.
	R3: Recycling/ reclamation of organic substances which are not used as solvents	Hazardous waste must be kept within clearly identified, secure lockable containers.
	R4: Recycling/ reclamation of metals and metal compounds	Treatment operations shall be limited to: <ul style="list-style-type: none"> - manual sorting - separation - shredding - compaction - bulking up
	R5: Recycling/ reclamation of other inorganic compounds	of permitted waste into different components for the purpose of recovery or disposal.
	D9: Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D8 and D10 to D12 (e.g. evaporation, drying, calcination, etc.)	Physico-chemical treatment of non-hazardous waste for the purpose of disposal (D9) must be less than 50 tonnes per day in total at the site.
		There shall be no treatment of: <ul style="list-style-type: none"> - asbestos waste - waste batteries and/or accumulators - any other hazardous waste other than bulking up for onward transfer.
		Waste types as specified in Table S2.2

Table continued overleaf

Commented [JN7]: NOTE:
The relevant limit for slag and/or ash treatment has not been included in this draft version, as it has been assumed that those waste types would not be accepted as part of the Civic amenity activity – i.e., they would not be brought to site by householders (and are only accepted as part of the waste transfer station activity)

Batteries etc.
chemicals

Table S1.1 activities

Activity reference	Description of activities for waste operations	Limits of activities
A4 – Household, commercial and industrial waste transfer station with treatment	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)	All non-hazardous waste must be stored and treated on an impermeable surface with sealed drainage. All treatment of non-hazardous waste, including bulking and transfer, must take place in a building.
	D15: Storage pending any of the operations numbered D01 to D14 (excluding temporary storage pending collection on the site where it is produced).	Non-hazardous waste must be kept in a building or within a secure container. All inert waste must be stored and treated on hardstanding or on an impermeable surface with sealed drainage.
	D14: Repackaging prior to submission to any of the operations numbered D1 to D13	Treatment operations shall be limited to: <ul style="list-style-type: none"> - manual sorting - separation - screening - baling - shredding - crushing - compaction - bulking up
	R3: Recycling/ reclamation of organic substances which are not used as solvents	of permitted waste into different components for the purpose of recovery or disposal.
	R4: Recycling/ reclamation of metals and metal compounds	
	R5: Recycling/ reclamation of other inorganic compounds	The following waste treatment activities for the purpose of disposal (D9), must be less than 50 tonnes per day in total at the site; <ul style="list-style-type: none"> - physico-chemical treatment of non-hazardous waste, and - treatment of slags and/or ashes.
	D9: Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D8 and D10 to D12 (e.g. evaporation, drying, calcination, etc.)	The maximum quantity of waste slags and/or ashes that can be treated for recovery or a mix of recovery and disposal in total at the site shall not exceed 75 tonnes per day. Waste types as specified in Table S2.4
	Discharge of integral site drainage (process effluent) from the emission points indicated on the plan in Schedule 7/ plan reference 'xxx' as incorporated in Table S1.2 of this permit.	Drainage consisting solely of: <ul style="list-style-type: none"> - clean, rainfall dependant drainage from areas of the site not used in connection with the storage and/or treatment of waste - run-off from the impermeable surface from external areas of the site used to store and/or treat waste. No visible oil or grease shall be present in the discharge. There shall be no discharge from the buildings on site used to store and/or treat waste.

Commented [JN10]: NOTE:

With regard to the waste types that would be included in the corresponding waste table in Schedule 2: this wording indicates that hazardous waste isn't permitted as part of this activity. Therefore, we would not include any hazardous waste types (Codes) in the corresponding waste table for this activity in Schedule 2.

Commented [JN11]: NOTE:

Bulking-up has been added to the treatments list in this draft, as it almost certainly happens as part of the treatment operations for this activity. We would include it in the list of permitted treatments in similar modern permits.

Note:

Street sweeping

Table S1.1 activities		
Activity reference	Description of activities for waste operations	Limits of activities
A3 – Materials recycling facility	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)	All waste must be stored and treated on an impermeable surface with sealed drainage. All treatment of waste must also take place within a building.
	R3: Recycling/ reclamation of organic substances which are not used as solvents	Treatment operations shall be limited to:
	R4: Recycling/ reclamation of metals and metal compounds	<ul style="list-style-type: none"> - manual sorting - separation - screening - shredding - baling - compaction - bulking up
	R5: Recycling/ reclamation of other inorganic compounds	<p>of permitted waste into different components for the purpose of recovery only.</p> <p><input checked="" type="checkbox"/> None</p> <p>Waste types as specified in Table S2.3</p>

Table continued overleaf

Commented [JN8]: NOTE:

Bulking-up has been added to the treatments list in this draft, as it almost certainly happens as part of the treatment operations for this activity. We would include it in the list of permitted treatments in similar modern permits

Commented [JN9]: Query:

Is there any treatment, such as baling, of the residuals (fines) left from the initial materials recycling process? If yes, is the baled residual waste then sent for combustion/burning?

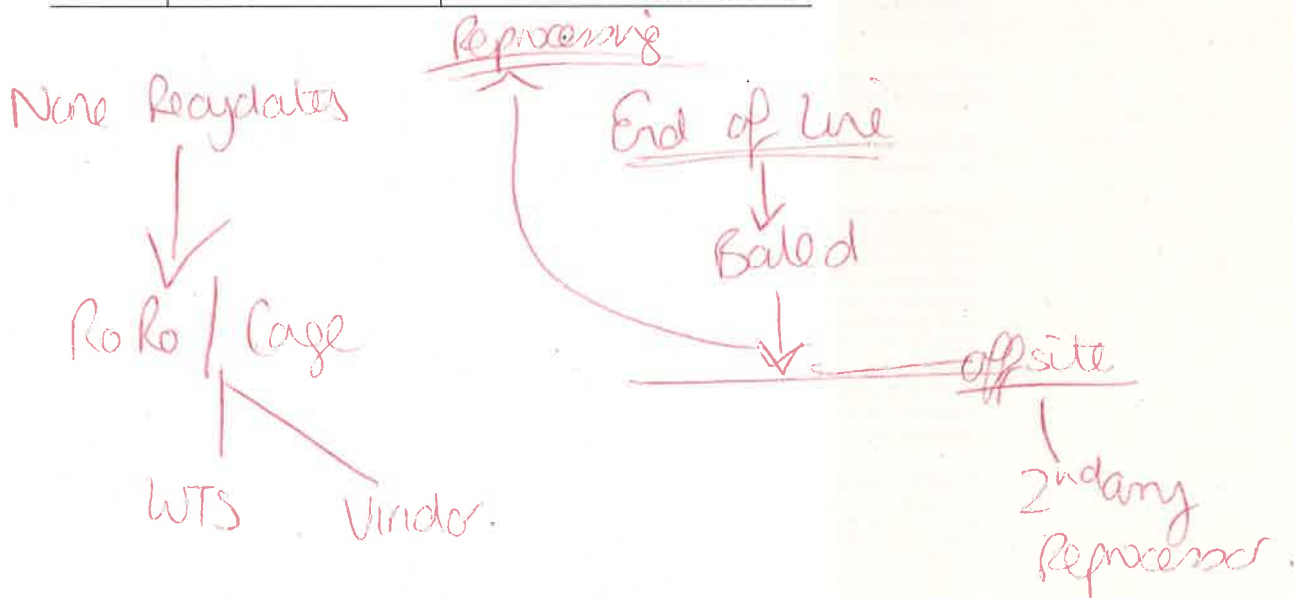


Table S1.2 Operating techniques		
Description	Parts	Date Received
Technical Guidance Note: 'How to comply with your environmental permit'	All relevant sections	N/A
Information provided in line with improvement programme requirement IPC1	Odour management plan - all sections	As set out in IPC1
Information provided in line with future pre-operational measures requirement FPO1	Site specific bioaerosols risk assessment - all sections	AS set out in FPO1

→ Will send info in.

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IPC1	<p>The operator shall submit to Natural Resources Wales, for approval in writing, an odour management plan produced in line with the standards set out in horizontal guidance note H4 (or equivalent at the time of production) which sets out the risk of odour from the activity and the appropriate measures that will be used on site to prevent, and where not possible, to minimise pollution from that risk.</p> <p>Once approved in writing, the odour management plan will form part of the technical standards to be used when operating activities on site – in line with all other relevant standards/measures incorporated into Table S1.2 of this permit.</p>	X

Commented [JN12]: NOTE:

This table may be needed if there is no existing, specific odour management plan in place at the site.
IF needed, this table and the relevant condition would also be needed AND we would need to refer to the future (to be agreed) odour management plan in Table S1.2.

Commented [JN13]: NOTE:

This date could be a set date IF you have an idea of when you're likely to want to start actually carrying out the IVC activity. Or, it could simply be written as 'As agreed in writing with Natural Resources Wales' to allow full flexibility.

Table S1.4A Pre-operational measures for bioaerosols		
Reference	Operation	Pre-operational measures
FPO1	In vessel composting activity (A1)	The operator shall submit to Natural Resources Wales, for approval in writing, a site specific bioaerosol risk assessment produced in line with current standards/industry protocols to set out the risk from the activity and the appropriate measures that will be used to prevent, and where not possible, to minimise pollution from that risk.

Commented [JN14]: NOTE:

This table may be needed if there is no existing, specific provision for dealing with bioaerosols risks from the permitted IVC activity. IF needed, this table and the relevant condition would also be needed AND we would need to refer to the future (to be agreed) site specific bioaerosols risk assessment Table S1.2.

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Permitted waste types and quantities for in-vessel composting activity	
Maximum quantity	The maximum quantity of waste to be accepted on site shall not exceed xx,xxx tonnes per year.
Exclusions	Notwithstanding the waste types set out in this table, 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 • sludges • odorous or odour producing
Waste code	Description

Table S2.2 Permitted waste types and quantities for hazardous and non-hazardous household amenity site

[illegible]

Table S2.3 Permitted waste types and quantities for household, commercial and industrial waste transfer station with treatment and asbestos storage

[illegible]

Table S2.4 Permitted waste types and quantities for materials recycling facility

[illegible]

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
Outlets from bio-filters emitting treated air from enclosed composting vessels.	None specified	Treated air from closed systems	None specified	-	-	Gas sampling points must be fitted on each outlet and used as required to ensure compliance with conditions of this permit.
Outlets from bio-filters (if fitted) emitting treated air from inside buildings.	None specified	Treated air from inside buildings	None specified	-	-	

Table S 3.2 Process monitoring requirements for in vessel composting (Activity A1)

Monitoring point	Substance or parameter	Monitoring frequency	Monitoring method	Other specifications
Internal for each enclosed composting vessel	Temperature	Continuous	Thermocouple probe	None
	Moisture	As required	Moisture meter	None
Internal for each windrow and for any sample of waste or compost	Temperature	As required	Thermocouple probe	Monitoring equipment shall be available on-site and used as required to ensure compliance with this permit.
	Moisture	As required	Moisture meter or moisture touch test	
Biofilter	Temperature, moisture and thatching/compaction	As required	Thermocouple probe and moisture meter or touch test	Biofilters should be checked and maintained to ensure appropriate temperature and moisture content on a daily basis

Bioaerosol monitoring requirements for in vessel composting (Activity A1)					
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	Gram-negative bacteria	300	Quarterly	In accordance with the Industry Standard Protocol, and, for gram-negative bacteria, together with Environment Agency's "Guidance on the evaluation of bioaerosol risk assessments for composting facilities"	As described in the Industry Standard Protocol, including all the additional data requirements specified therein.
	Total bacteria	1000			
	Aspergillus Fumigatus	500			

Commented [JN15]: NOTE:

This is the standard table that we would include in relevant modern permits for IVC composting activities. We understand this is not in the current permit, but that, the permitted IVC activity is not currently being actively operated.

This condition would need be included in preparation for active operation of the IVC activity. We could deal with other issues surrounding bioaerosols through future pre-operational conditions/requirements to be met.

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 3.6.1(b)	Every 4 months or as agreed in writing by Natural Resources Wales	1 January, 1 May, 1 September

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 Natural Resources Wales

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.

"*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.

"*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 Natural Resources Wales under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

"*best available treatment, recovery and recycling techniques*" shall have the meaning given to it in the document published jointly by the Department for Environment, Food and Rural Affairs, the Welsh Assembly Government and the Scottish Executive on 27th November 2006, entitled "Guidance on Best Available Treatment, Recovery and Recycling Techniques (BATRRRT) and Treatment of Waste Electrical and Electronic Equipment (WEEE);

"*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*,

"*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.

"*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.

"*controlled substances*" means chlorofluorocarbons, other fully halogenated chlorofluorocarbons, halons, carbon tetrachloride, 1,1,1-trichloroethane, methyl bromide, hydrobromofluorocarbons and hydrochlorofluorocarbons listed in Annex I of Regulation (EC) No 2037/2000 of the European Parliament and of the Council of 29 June 2000 on substances that deplete the ozone layer, including their isomers, whether alone or in a mixture, and whether they are virgin, recovered, recycled or reclaimed. This definition shall not cover any controlled substance which is in a manufactured product other than a container used for the transportation or storage of that substance, or insignificant quantities of any controlled substance, originating from inadvertent or coincidental production during a manufacturing process, from unreacted feedstock, or from use as a processing agent which is present in chemical substances as trace impurities, or that is emitted during product manufacture or handling.

"*D*" means a disposal operation provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"*emissions to land*" includes emissions to groundwater.

"*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 or background concentration limit..

"*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.

"*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.

"*ozone-depleting substances*" "*ODS*" means "controlled substances" contained in refrigeration, air-conditioning and heat pump equipment, equipment containing solvents, fire protection systems and fire extinguishers.

"*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 code*" means the six digit code referable to a type of waste in accordance with the list of wastes established by Commission Decision 2000/532/EC as amended from time to time (the 'List of Wastes Decision') 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.

"*WEEE*" means waste electrical and electronic equipment.

"*WEEE Directive*" means Directive 2002/96/EC of the European Parliament and of the Council of 27th January 2003 on waste electrical and electronic equipment (WEEE) as amended by Directive 2003/108/EC of the European Parliament and of the Council of 8th December 2003 on waste electrical and electronic equipment (WEEE).

Commented [JN16]: NOTE:
This is a pre-emptive inclusion, to reflect the changes coming into effect on Monday 20 July 2015, as a result of hazardous waste amending regulations.

"year" means calendar year ending 31 December.

Schedule 7 - Site plan

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END OF PERMIT