

# Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

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**SRCL Limited**

**Bridgend Clinical Waste Treatment  
Plant and Transfer Station  
12 Aneurin Bevan Avenue  
Brynmenyn Industrial Estate  
Bridgend  
Mid Glamorgan  
Wales  
CF32 9SZ**

Permit number

**EPR/PP3430UL**

# **Bridgend Clinical Waste Treatment Plant and Transfer Station**

## **Permit number EPR/PP3430UL**

### **Introductory note**

#### **This introductory note does not form a part of the permit**

The main features of the permit are as follows.

This permit is for a Clinical Waste Treatment Plant and Transfer Station and includes both hazardous and non-hazardous waste storage and treatment.

The main treatment method is via a Heat Disinfecting Unit (HDU). The treatment of waste takes place within a building. Offensive waste operation occurs outside together with storage of waste (activities A1, A6 & A9)

The site is located on an industrial estate in Bridgend, Mid Glamorgan, Wales and is more than 1.6km from the Blackmill Woodlands SSSI. The facility is more than 1km from any Nature 2000 designated sites. It is anticipated that there will be no impact on the designated sites.

There is a discharge to foul sewer from the installation and this is regulated through the consent to discharge issued to the sewerage undertaker.

There are no discharges to surface water from the site other than clean and uncontaminated surface water to the River Ogmore.

There are three point source emissions to air the shredder hood, which is fitted with a HEPA filter, the HDU which has a condenser, a scrubber and biofilters and the gas-fired oil heating system.

#### **Storage of waste**

A1 storage of hazardous waste- the receipt of hazardous waste for introduction to the treatment process or for storage/disposal off site. Regulated as a S5.6 Part A(1)(a) activity.

A6 storage of non-hazardous waste- the receipt of non-hazardous waste for introduction to the treatment process or for storage/disposal off site. Regulated as a waste facility/

A9 storage of residues- The storage and handling of residues from the treatment process. Regulated as a waste facility

#### **Treatment of waste**

Heat Disinfecting Unit (activities A2 and A7)

The HDU consists of a shredder, a waste treatment chamber and abatement equipment. It shreds the waste under negative pressure to prevent the release of dust, odours and pathogens. The collected gases are passed through a three-stage HEPA filter before being release to the atmosphere. The shredded material is heated in the treatment chamber and the off-gases, including water vapour, are cooled in a condenser. Condensed water is discharged to a foul sewer and the gases are passed through a scrubber and biofilters to abate odours before being released to the atmosphere. The waste leaves the HDU as a non-hazardous residue flock that is landfilled.

A2 treatment of hazardous waste- Disposal or recovery of hazardous waste in a facility with a capacity exceeding 10 tonnes per day by physico-chemical treatment. Regulated as a S5.3 Part A(1)(a)(ii) activity

A7 treatment of non-hazardous waste- Regulated as a waste facility

A8 treatment of confidential documents- Regulated as a waste facility

### **Directly Associated Activities**

A3 Combustion Plant

A4 The air abatement equipment for the treatment process

A5 washings of clinical waste containers

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

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application received	Duly made 31/08/05	
Schedule 4 Notice	20/02/06	20/03/06, 28/03/06, 31/03/06 and 11/04/06
Request to extend the determination period	02/03/06	10/03/06
Application (YP3037SV)	Issue date 23/06/06	Issued to Sterile Technologies (Newcastle) Ltd (Company No. 05018899)
Transfer application received (EPR/PP3430UL)	Duly made 01/02/07	
Permit determined (EPR/PP3430UL)	16/02/07	Permit transferred from Sterile Technologies (Newcastle Ltd) (Company No 05018899) to Sterile Technologies (Newcastle Ltd) (Company No 03226910)
Notification Reg. 61(1) M70 Shredder and Nutrient Broth	05/02/07	12/04/07
Regulation 17 Variation Application	13/04/07	
Schedule 7 Notice	23/04/07	18/05/07

**Status log of the permit**

<b>Description</b>	<b>Date</b>	<b>Comments</b>
Regulation 17 Variation Determined JP3934UE (EPR/PP3430UL/V002)	04/06/07	
Application EPR/PP3430UL/V003 (variation and consolidation)	Duly made 17/05/11	Application to vary, consolidate with EAWML 34185 and update the permit to modern conditions
Variation application EPR/PP3430UL/V003	18/08/11	Variation issued
Agency initiated variation determined EPR/PP3430UL/V004	22/03/13	Agency initiated variation to implement the changes introduced by IED
Variation application EPR/PP3430UL/V005	Duly made 03/04/14	Application for a minor technical variation
Variation application EPR/PP3430UL/V005	27/06/14	Minor technical variation issued
NRW initiated variation determined EPR/PP3430UL/V006	19/03/20	NRW initiated variation to add in a single waste code 15 02 02*
Regulation 61(1) Notice sent to the Operator	05/04/19	Issue of a Notice under Regulation 61(1) of the EPR. Natural Resources Wales initiated review and variation to vary the permit following the publication of the revised Best Available Techniques (BAT) Reference Document (BREF) for Waste Treatment.
Regulation 61(1) Notice response	19/09/19	Response received from the operator consisting of: <ul style="list-style-type: none"><li>• PP3430UL EPR Reg 61 Notice for WT BREF Review_Stericycle-response_19-09-2019</li><li>• Soil and Groundwater contamination Risk Assessment</li><li>• SRCL_Bridgend_OPRA_profile</li></ul>
Additional information received	09/10/19	Consisting of: <ul style="list-style-type: none"><li>• PP3430UL EPR Reg 61 Notice for WT BREF Review_Stericycle-response_19-09-2019</li><li>• Bridgend_2018_Environmental_Performance_Report_V2</li></ul>
NRW Initiated Variation determined EPR/PP3430UL/V007	07/05/21	Varied and consolidated permit issued to SRCL Limited.

End of introductory note

# Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

**EPR/PP3430UL**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/PP3430UL/V007 authorising,

**SRCL Limited** (“the operator”),

whose registered office is

**Indigo House**

**Sussex Avenue**

**Leeds**

**West Yorkshire**

**LS10 2LF**

company registration number **03226910**

to operate an installation and waste operations at

**Bridgend Clinical Waste Treatment Plant and Transfer Station**

**12 Aneurin Bevan Avenue**

**Brynmenyn Industrial Estate**

**Bridgend**

**Mid Glamorgan**

**Wales**

**CF32 9SZ**

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

Name	Date
<b>Holly Noble</b>	<b>07/05/2021</b>

Authorised on behalf of Natural Resources Wales

# Conditions

## 1 Management

### 1.1 General management

1.1.1 The operator shall manage and operate the activities:

- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
- (b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.1.4 The operator shall comply with the requirements of an approved competence scheme.

### 1.2 Energy efficiency

1.2.1 For the following activities referenced in schedule 1, table S1.1 (A1 to A2 inclusive). The operator shall:

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

### 1.3 Efficient use of raw materials

1.3.1 For the following activities referenced in schedule 1, table S1.1 (A1 to A2 inclusive). The operator shall:

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

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

1.4.1 The operator shall take appropriate measures to ensure that:

- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and

- (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
  - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

## **2 Operations**

### **2.1 Permitted activities**

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).
- 2.1.2 For the following activities referenced in schedule 1, table S1.1 (A1 to A2 inclusive). Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

### **2.2 The site**

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

### **2.3 Operating techniques**

- 2.3.1 (a) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by 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, S2.3, S2.4, and S2.5; and
  - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.3 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
  - (b) the composition of the waste;
  - (c) the handling requirements of the waste;
  - (d) the hazardous property associated with the waste, if applicable; and

(e) the waste code of the waste.

2.3.4 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

## **2.4 Technical requirements**

### **WEEE storage**

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.

### **Hazardous waste storage and treatment**

2.4.2 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.

## **2.5 Improvement programme**

2.5.1 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 Natural Resources Wales.

2.5.2 Except in the case of an improvement which consists only of a submission to Natural Resources Wales, the operator shall notify Natural Resources Wales within 14 days of completion of each improvement.

# **3 Emissions and monitoring**

## **3.1 Emissions to water, air or land**

3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1, S3.2 and S3.3.

3.1.2 The limits given in schedule 3 shall not be exceeded.

3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

## **3.2 Emissions of substances not controlled by emission limits**

3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.

3.2.2 The operator shall:

(a) if notified by 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 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, S3.2 and S3.3;
- (b) bioaerosol monitoring specified in table S3.4
- (c) process monitoring as specified in table S3.5

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.

3.3.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by Natural Resources Wales.

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 and S3.3 unless otherwise agreed in writing by Natural Resources Wales.

### **3.4 Odour**

3.4.1 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.

3.4.2 The operator shall:

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

### **3.5 Noise and vibration**

3.5.1 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.

3.5.2 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.

## **3.7 Fire**

3.7.1 The operator shall manage and operate the activities in accordance with a written fire prevention plan using the current, relevant fire prevention plan guidance.

3.7.2 The operator shall:

- (a) if notified by Natural Resources Wales that the activities could cause a fire risk, submit to Natural Resources Wales a fire prevention plan which identifies and minimises the risks of fire;
- (b) Operate the activity in accordance with the fire prevention plan, from the date of submission, 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 Wales.

## 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 For the following activities referenced in schedule 1, table S1.1 (A1 to A2 inclusive). A report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
  - (b) the annual production /treatment data set out in schedule 4 table S4.2; and
  - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by 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 S4.4 ; and
  - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to Natural Resources Wales, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 Within 1 month of the end of each quarter, the operator shall submit to 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.

## 4.3 Notifications

- 4.3.1 For the following activities referenced in schedule 1, table S1.1 (A1 to A2 inclusive)
- (a) In the event that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
    - (i) inform Natural Resources Wales,
    - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
    - (iii) take the measures necessary to prevent further possible incidents or accidents;

- (b) in the event of a breach of any permit condition the operator must immediately—
    - (i) inform Natural Resources Wales, and
    - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
  - (c) in the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 For the following activities referenced in schedule 1, table S1.1 (A6-A9 inclusive) 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.
- 4.3.4 Any information provided under condition 4.3.3 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.5 Where 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.
- 4.3.6 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);
  - (b) any change in the operator's name(s) or address(es); and

- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

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

- (a) 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.

4.3.8 Natural Resources Wales shall be given at least 14 days notice before implementation of any part of the site closure plan.

4.3.9 Where the operator has entered into a climate change agreement with the Government, Natural Resources Wales shall be notified within one month of:

- (a) a decision by the Secretary of State not to re-certify the agreement;
- (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
- (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

## **4.4 Interpretation**

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

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made “immediately”, in which case it may be provided by telephone.

# Schedule 1 - Operations

<b>Table S1.1 activities</b>			
<b>Activity reference</b>	<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity and WFD Annex I and II operations</b>	<b>Limits of specified activity and waste types</b>
<b>A1</b> storage of hazardous waste	S5.6 Part A(1)(a)  Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes pending any of the activities listed in Sections 5.1, 5.2, 5.3	<b>D15:</b> Storage pending any of the operations number D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced).  <b>R13:</b> Storage of wastes pending any of the operations R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).	From the receipt of hazardous waste for introduction to the treatment process or for storage/disposal off site.  Maximum storage of 101.2 tonnes at any one time as follows:  Waste types as specified in Table S2.1
<b>A2</b> treatment of hazardous waste	S5.3 Part A(1)(a)(ii)  Disposal or recovery of hazardous waste in a facility with a capacity exceeding 10 tonnes per day by physico-chemical treatment.	<b>D9 :</b> Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any operations numbered D1 to D8 and D10 to D12 (in the heat disinfection unit)  <b>R3:</b> Recycling/ reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes	Treatment consisting of <ul style="list-style-type: none"> <li>- shredding</li> <li>- mixing</li> <li>- maceration</li> <li>- heat disinfection</li> </ul> to destroy biological agents to an unrecognisable, unusable and patient unrecognisable condition.  Excluding: <ul style="list-style-type: none"> <li>- pharmaceutical waste in any form or containers;</li> <li>- anatomical waste (identifiable human or animal tissue);</li> <li>- carcasses;</li> <li>- any waste known or likely to contain ACDP Hazard Group 4 biological agents;</li> <li>- any waste from a contaminated level 3 laboratory;</li> <li>- other microbial cultures unless an appropriate treatment methodology has been submitted and agreed by the regulator that demonstrates adequate containment and disinfection procedures;</li> </ul>

**Table S1.1 activities**

<p><b>A2</b> <i>continued</i></p>	<ul style="list-style-type: none"> <li>- cytotoxic and cystostatic contaminated waste;</li> <li>- medicinally contaminated sharps</li> </ul>
	<p>Maximum treatment of 24 tonnes per day of hazardous and non-hazardous waste.</p> <p>Waste types as specified in Table S2.2</p>

**Directly Associated Activity**

<b>A3</b>	Combustion Plant	Gas fuelled boiler < 0.5MW	From receipt of fuel to emission of combustion gases
<b>A4</b>	The air abatement equipment for the treatment process	HEPA filters, scrubber and biofilter	
<b>A5</b>	Washings of clinical waste containers	Sorting and washings of containers used for the transport and storage of clinical wastes that are contaminated or contain residues of wastes.	

Activity reference	Description of activities for waste operations	Limits of activities
<b>A6</b> storage of non-hazardous waste	<p><b>R13</b> : Storage of waste pending any of the operations R1 to R12</p> <p><b>D14</b> : Repackaging of waste prior to the waste being submitted to any of the operations listed in paragraphs 1 to 13 of this Part of this Schedule.</p> <p><b>D15</b> : Storage pending any of the operations number D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced).</p>	<p>From the receipt of non-hazardous waste for introduction to the treatment process or for storage/disposal off site.</p> <p>Only to include:</p> <ul style="list-style-type: none"> <li>- municipal sharps collection;</li> <li>- substances and goods seized/confiscated by police and customs;</li> <li>- soiled surgical dressings;</li> <li>- swabs, nappies, feminine hygiene, incontinence pads and other similar soiled wastes collected from households, institutions and commercial and industrial premises; drugs related litter.</li> </ul> <p>Maximum storage of 30 tonnes at any one time.</p> <p>Waste types as specified in Table S2.3</p>

**Table S1.1 activities**

<b>A7</b> treatment of non-hazardous waste	<b>D9</b> : Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any operations numbered D1 to D8 and D10 to D12 (e.g. evaporation, drying, calcination, etc.)  <b>D13</b> : Blending or mixing prior to submission to any of the operations numbered D1 to D12	Treatment consisting of <ul style="list-style-type: none"><li>- shredding</li><li>- mixing</li><li>- maceration</li><li>- heat disinfection</li></ul> to destroy biological agents to an unrecognisable, unusable and patient unrecognisable condition.  Excluding; <ul style="list-style-type: none"><li>- pharmaceutical waste in any form or containers;</li><li>- anatomical waste (identifiable human or animal tissue);</li><li>- carcasses;</li><li>- any waste known to contain ACDP hazard code 4 biological agents;</li><li>- any waste from a containment level 3 laboratory;</li><li>- other microbial cultures unless an appropriate treatment methodology has been submitted and approved by the regulator that demonstrates adequate containment and disinfection procedures;</li><li>- cytotoxic and cytostatic contaminated waste;</li><li>- medically contaminated sharps.</li></ul>
Maximum of 24 tonnes per day of hazardous and non-hazardous waste.		
Waste types as specified in Table S2.4		
<b>A8</b> treatment of confidential documents	<b>D9</b> : Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any operations numbered D1 to D8 and D10 to D12 (e.g. evaporation, drying, calcination, etc.)  <b>D13</b> : Blending or mixing prior to submission to any of the operations numbered D1 to D12  <b>R3</b> : Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)	Treatment consisting of: <ul style="list-style-type: none"><li>- shredding</li><li>- mixing</li></ul> of confidential documents and records.  Waste types as specified in Table S2.5

**Table S1.1 activities**

<b>A9</b> storage of residues	The storage and handling of residues from the treatment process	Waste types 19 02 10 and 19 02 99 only, to include waste generated from the treatment of hazardous waste in the installation
		Maximum of 84 tonnes at any one time

**Table S1.2 Operating techniques**

<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application	Sections 3a-and 3c, of the application document in response to section 3 – operational techniques , Part C4 of the application form: - Transfer of Clinical Waste: Appendix 6 SGN 5.06 - Transfer of Others Waste: SGN 5.06 2.1.3 - C2/2/Bridgend- Non-Technical Summary	21/04/11
Response to regulation 61(1) Notice – request for information dated DD/MM/YYYY detailing how the Operator will comply with the BAT conclusions for Waste Treatment, under Directive 2010/75/EU of the European Parliament and of the Council	Consisting of: • PP3430UL EPR Reg 61(1) Notice for WT BREF Review_Stericycle-response_19-09-2019 • Soil and Groundwater contamination Risk Assessment	19/09/19
Additional information for regulation 61(1) Notice	Consisting of: • PP3430UL EPR Reg 61 Notice for WT BREF Review_Stericycle-response_19-09-2019 • Bridgend_2018_Environmental_Performance_Report _V2	09/10/19
Additional information	SRCL efficacy test failure procedure  Document reference WI/6.02.09- AT Efficacy Monitoring. Version No.: 2.2 Date Active: 01/01/2021  All relevant sections	04/05/21
Fire prevention and mitigation plan guidance – Waste Management	All relevant sections	N/A
Fire prevention and mitigation plan	All relevant sections	In line with IC 1

**Table S1.3 Improvement programme requirements**

<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC1	<p>The operator shall submit a written Fire prevention and mitigation plan to Natural Resources Wales.</p> <p>The Fire prevention and mitigation plan must be produced in line with the standards set out in Fire prevention and mitigation plan guidance – Waste.</p>	3 months after permit issue (07/08/21) or otherwise agreed in writing with Natural Resources Wales
IC2	<p>BAT 1- Overall environmental performance</p> <p>The operator shall submit to Natural Resources Wales a copy of the Environment Management System in order to evidence compliance with the whole of BAT 1 i.e. to implement and adhere to an environmental management system (EMS) in accordance with requirements specified within BAT Conclusion 1 of the Waste Treatment BAT Conclusions (EU 2018).</p>	17 February 2022 or otherwise agreed in writing with Natural Resources Wales
IC3	<p>BAT 2. Improve the overall environmental performance of the plant</p> <p>The operator shall submit to Natural Resources Wales information in order to evidence compliance with BAT 2 using all of the techniques given below in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018):</p> <p>f. Ensure waste compatibility prior to mixing or blending</p>	17 <sup>th</sup> February 2022 or otherwise agreed in writing with Natural Resources Wales

**Table S1.3 Improvement programme requirements**

<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC4	<p>BAT 3. Establish and to maintain an inventory of waste water and waste gas streams to facilitate the reduction of emissions to water and air</p> <p>The operator shall submit to Natural Resources Wales information in order to evidence compliance with BAT 3 that incorporates all of the following features in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018):</p> <p>(i) information about the characteristics of the waste to be treated and the waste treatment processes, including:</p> <p>(a) simplified process flow sheets that show the origin of the emissions;</p> <p>(b) descriptions of process-integrated techniques and waste water/waste gas treatment at source including their performances.</p> <p>(i) information about the characteristics of the waste to be treated and the waste treatment processes, including:</p> <p>(a) simplified process flow sheets that show the origin of the emissions;</p> <p>(b) descriptions of process-integrated techniques and waste water/waste gas treatment at source including their performances;</p> <p>(ii) information about the characteristics of the waste water streams, such as:</p> <p>(a) average values and variability of flow, pH, temperature, and conductivity;</p> <p>(b) average concentration and load values of relevant substances and their variability (e.g. COD/TOC, nitrogen species, phosphorus, metals, priority substances/micropollutants);</p> <p>(iii) information about the characteristics of the waste gas streams, such as:</p> <p>(a) average values and variability of flow and temperature;</p> <p>(b) average concentration and load values of relevant substances and their variability (e.g. organic compounds, POPs such as PCBs);</p> <p>(c) flammability, lower and higher explosive limits, reactivity;</p> <p>(d) presence of other substances that may affect the waste gas treatment system or plant safety (e.g. oxygen, nitrogen, water vapour, dust).</p> <p>Information resulting from this improvement condition will be used to assess the relevance of the BAT AELs and monitoring requirements as set in Schedule 3 and 4 of this permit.</p>	17 <sup>th</sup> February 2022 or otherwise agreed in writing with Natural Resources Wales

**Table S1.3 Improvement programme requirements**

<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC5	<p>BAT 7. Monitor emissions to water</p> <p>The operator shall submit to Natural Resources Wales a written procedure(s) in accordance with requirements specified within BAT Conclusions of the Waste Treatment BREF Document (EU 2018) in relation to:</p> <p>BAT is to monitor emissions to water with at least the frequency given within table for the relevant treatment type (Physico-chemical treatment of solid and/or pasty waste), and in accordance with EN standards. If EN standards are not available, BAT is to use ISO, national or other international standards that ensure the provision of data of an equivalent scientific quality, taking into account the table footnotes.</p> <p>Information resulting from this improvement condition will be used to assess the relevance of the BAT AELs and monitoring requirements as set in Schedule 3 and 4 of this permit.</p>	17 <sup>th</sup> February 2022 or otherwise agreed in writing with Natural Resources Wales
IC6	<p>BAT 8. Monitor emissions to air</p> <p>The operator shall submit to Natural Resources Wales a written procedure(s) in accordance with requirements specified within BAT Conclusions of the Waste Treatment BREF Document (EU 2018) in relation to:</p> <p>BAT is to monitor channelled emissions to air with at least the frequency given within table for the relevant treatment type (Physico-chemical treatment of solid and/or pasty waste), and in accordance with EN standards. If EN standards are not available, BAT is to use ISO, national or other international standards that ensure the provision of data of an equivalent scientific quality, taking into account the table footnotes.</p> <p>Information resulting from this improvement condition will be used to assess the relevance of the BAT AELs and monitoring requirements as set in Schedule 3 and 4 of this permit.</p>	17 <sup>th</sup> February 2022 or otherwise agreed in writing with Natural Resources Wales
IC7	<p>BAT 12- Set up, implement and review an Odour Management Plan (as part of the site EMS)</p> <p>The operator shall submit to Natural Resources Wales information in order to evidence compliance with BAT 12 including all of the following in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018):</p> <ul style="list-style-type: none"><li>- a protocol containing actions and timelines;</li><li>- a protocol for conducting odour monitoring as set out in BAT 10;</li><li>- a protocol for response to identified odour incidents, e.g. complaints;</li><li>- an odour prevention and reduction programme designed to identify the source(s);</li><li>- to characterise the contributions of the sources; and</li><li>- to implement prevention and/or reduction measures.</li></ul>	17 <sup>th</sup> February 2022 or otherwise agreed in writing with Natural Resources Wales

**Table S1.3 Improvement programme requirements**

Reference	Requirement	Date
IC8	<p>BAT 19 Optimise water consumption, reduce waste water generation and prevent/reduce emissions to soil and water</p> <p>The operator shall submit to Natural Resources Wales information in order to evidence compliance with BAT 19 requiring the use of one or a combination of techniques in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018):</p> <p>c) impermeable surface (information on how the site complies with CIRIA 736 or an equivalent engineering standard to which the surface complies together with sign off from construction by a Certified Quality Auditor)</p>	17 <sup>th</sup> February 2022 or otherwise agreed in writing with Natural Resources Wales
IC9	<p>BAT 20 Reduce emissions to water</p> <p>The operator shall submit to Natural Resources Wales a written procedure(s) in accordance with requirements specified within BAT Conclusions of the Waste Treatment BREF Document (EU 2018) in relation to:</p> <p>BAT 20 - In order to reduce emissions to water, BAT is to treat waste water using an appropriate combination of the techniques described within BAT 20 Table. BAT 20 applies to all sites that treat waste waters on site to reduce emissions prior to discharge. BAT-associated emission levels (BAT-AELs) for indirect discharges to a receiving water body should comply with Table 6.2 of BAT 20.</p> <p>Information resulting from this improvement condition will be used to assess the relevance of the BAT AELs and monitoring requirements as set in Schedule 3 and 4 of this permit.</p>	17 <sup>th</sup> February 2022 or otherwise agreed in writing with Natural Resources Wales
IC10	<p>BAT 21 Emissions from accidents and incidents</p> <p>The operator shall submit to Natural Resources Wales an Accident Management Plan in order to evidence compliance with BAT 21 requiring the use of all of the following techniques:</p> <ul style="list-style-type: none"> <li>(a) Protection measures</li> <li>(b) Management of incidental/accidental emissions</li> <li>(c) Incident/accident registration and assessment system</li> </ul>	17 <sup>th</sup> February 2022 or otherwise agreed in writing with Natural Resources Wales
IC11	<p>BAT 23 Use energy efficiently.</p> <p>The operator shall submit to Natural Resources Wales information in order to evidence compliance with BAT 23 requiring the use both of the following techniques:</p> <ul style="list-style-type: none"> <li>(a) Energy efficiency plan</li> <li>(b) Energy balance record</li> </ul>	17 <sup>th</sup> February 2022 or otherwise agreed in writing with Natural Resources Wales

**Table S1.3 Improvement programme requirements**

<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC12	<p>BAT 40 Improve overall environmental performance by monitoring the waste input as part of the waste pre-acceptance and acceptance procedures for the physico-chemical treatment of solid and/or pasty waste</p> <p>The operator shall submit to Natural Resources Wales information in order to evidence compliance with BAT 40 (see also BAT 2) by monitoring the waste input of e.g. in terms of:</p> <ul style="list-style-type: none"><li>- content of organics, oxidising agents, metals (e.g. mercury), salts, odorous compounds;</li><li>- H2 formation potential upon mixing of flue-gas treatment residues, e.g. fly ashes, with water.</li></ul>	17 <sup>th</sup> February 2022 or otherwise agreed in writing with Natural Resources Wales
IC13	<p>BAT 41 BAT-associated emission level (BAT-AEL) for channelled emissions of dust to air from the physico- chemical treatment of solid and/or pasty waste (Table 6.8)</p> <p>The operator shall submit to Natural Resources Wales a written procedure(s) in accordance with requirements specified within BAT Conclusions of the Waste Treatment BREF Document (EU 2018) in relation to:</p> <p>BAT 41 In order to reduce emissions of dust, organic compounds and NH3 to air, BAT is to apply BAT 14d and to use one or a combination of the techniques given within BAT 41 table. BAT 41 applies to all sites that treat channelled emissions to air. BAT-associated emission level (BAT-AEL) for channelled emissions of dust to air from the physico- chemical treatment of solid and/or pasty waste should comply with Table 6.8 of BAT 41.</p> <p>Information resulting from this improvement condition will be used to assess the relevance of the BAT AELs and monitoring requirements as set in Schedule 3 and 4 of this permit.</p>	17 <sup>th</sup> February 2022 or otherwise agreed in writing with Natural Resources Wales

## Schedule 2 - Waste types, raw materials and fuels

**Table S2.1 Permitted waste types and quantities for storage of hazardous waste under activity A1**

**Total annual tonnage**

Less than 23,198 tonnes per annum for treatment and storage

**Maximum quantity**

No more than 101.2 tonnes of hazardous waste to be stored at any one time

<b>Waste code</b>	<b>Description</b>
<b>07</b>	<b>WASTES FROM ORGANIC CHEMICAL PROCESSES</b>
<b>07 05</b>	<b>wastes from the MFSU of pharmaceuticals</b>
07 05 13*	solid wastes containing hazardous substances
<b>09</b>	<b>WASTES FROM THE PHOTOGRAPHIC INDUSTRY</b>
<b>09 01</b>	<b>wastes from the photographic industry</b>
09 01 01*	water-based developer and activator solutions
09 01 02*	water-based offset plate developer solutions
09 01 03*	solvent-based developer solutions
09 01 04*	fixer solutions
09 01 05*	bleach solutions and bleach fixer solutions
<b>15</b>	<b>WASTE PACKAGING, ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED</b>
<b>15 01</b>	<b>packaging (including separately collected municipal packaging waste)</b>
15 01 10*	packaging containing residues of or contaminated by hazardous substances
<b>15 02</b>	<b>absorbents, filter materials, wiping cloths and protective clothing</b>
15 02 02*	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances
<b>16</b>	<b>WASTES NOT OTHERWISE SPECIFIED IN THE LIST</b>
<b>16 01</b>	<b>end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)</b>
16 01 14*	antifreeze fluids containing hazardous substances
<b>16 05</b>	<b>gases in pressure containers and discarded chemicals</b>
16 05 04*	gases in pressure containers (including halons) containing hazardous substances
16 05 06*	laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals
<b>18</b>	<b>WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)</b>
<b>18 01</b>	<b>wastes from natal care, diagnosis, treatment or prevention of disease in humans</b>
18 01 03*	wastes whose collection and disposal is subject to special requirements in order to prevent infection
18 01 06*	chemicals consisting of or containing hazardous substances
18 01 08*	cytotoxic and cytostatic medicines
18 01 10*	amalgam waste from dental care
<b>18 02</b>	<b>wastes from research, diagnosis, treatment or prevention of disease involving animals</b>
18 02 02*	wastes whose collection and disposal is subject to special requirements in order to prevent infection
18 02 05*	chemicals consisting of or containing hazardous substances
18 02 07*	cytotoxic and cytostatic medicines
<b>20</b>	<b>MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS</b>

<b>20 01</b>	<b>separately collected fractions (except 15 01)</b>
20 01 13*	solvents
20 01 21*	fluorescent tubes and other mercury-containing waste
20 01 26*	oil and fat other than those mentioned in 20 01 25
20 01 27*	paint, inks, adhesives and resins containing hazardous substances
20 01 29*	detergents containing hazardous substances
20 01 31*	cytotoxic and cytostatic medicines
20 01 33*	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries

**Table S2.2 Permitted waste types and quantities for treatment of hazardous waste in the Heat Disinfection Unit under activity A2**

**Total annual tonnage**

Less than 23,198 tonnes per annum for treatment and storage

**Maximum quantity**

24 tonnes per day

<b>Waste code</b>	<b>Description</b>
<b>18</b>	<b>WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)</b>
<b>18 01</b>	<b>wastes from natal care, diagnosis, treatment or prevention of disease in humans</b>
18 01 03*	wastes whose collection and disposal is subject to special requirements in order to prevent infection
<b>18 02</b>	<b>wastes from research, diagnosis, treatment or prevention of disease involving animals</b>
18 02 02*	wastes whose collection and disposal is subject to special requirements in order to prevent infection

**Table S2.3 Permitted waste types and quantities for storage of non-hazardous waste under activity A6**

**Total annual tonnage**

Less than 23,198 tonnes per annum for treatment and storage

**Maximum quantity**

No more than 30 tonnes of non- hazardous waste to be stored at any one time

<b>Waste code</b>	<b>Description</b>
<b>07</b>	<b>WASTES FROM ORGANIC CHEMICAL PROCESSES</b>
<b>07 05</b>	<b>wastes from the MFSU of pharmaceuticals</b>
07 05 14	solid wastes other than those mentioned in 07 05 13
<b>09</b>	<b>WASTES FROM THE PHOTOGRAPHIC INDUSTRY</b>
<b>09 01</b>	<b>wastes from the photographic industry</b>
09 01 07	photographic film and paper containing silver or silver compounds
09 01 08	photographic film and paper free of silver or silver compounds
<b>15</b>	<b>WASTE PACKAGING, ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED</b>
<b>15 01</b>	<b>packaging (including separately collected municipal packaging waste)</b>
15 01 01	paper and cardboard packaging
15 01 05	composite packaging
15 01 06	mixed packaging
<b>15 02</b>	<b>absorbents, filter materials, wiping cloths and protective clothing</b>
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02

<b>18</b>	<b>WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)</b>
<b>18 01</b>	<b>wastes from natal care, diagnosis, treatment or prevention of disease in humans</b>
18 01 01	sharps (except 18 01 03)
18 01 02	Body parts and organs including blood bags and blood preserves (except 18 01 03)
18 01 04	wastes whose collection and disposal is not subject to special requirements in order to prevent infection (for example dressings, plaster casts, linen, disposable clothing, diapers)
18 01 07	chemicals other than those mentioned in 18 01 06
18 01 09	medicines other than those mentioned in 18 01 08
<b>18 02</b>	<b>wastes from research, diagnosis, treatment or prevention of disease involving animals</b>
18 02 01	sharps (except 18 02 02)
18 02 03	wastes whose collection and disposal is not subject to special requirements in order to prevent infection
18 02 06	chemicals other than those mentioned in 18 02 05
18 02 08	medicines other than those mentioned in 18 02 07
<b>20</b>	<b>MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS</b>
<b>20 01</b>	<b>separately collected fractions (except 15 01)</b>
20 01 01	paper and cardboard
20 01 10	clothes
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
20 01 30	detergents other than those mentioned in 20 01 29
20 01 32	medicines other than those mentioned in 20 01 31
20 01 34	batteries and accumulators other than those mentioned in 20 01 33
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 01 99	other fractions not otherwise specified: Municipal sharp collection; substances and goods seized/confiscated by police and customs; soiled surgical dressings; swabs; nappies; feminine hygiene; incontinence pads and other similar soiled wastes collected from households; institutions and commercial and industrial premises; drugs related litter.

**Table S2.4 Permitted waste types and quantities for treatment of non-hazardous waste in the Heat Disinfection Unit under activity A7**

**Total annual tonnage**

Less than 23,198 tonnes per annum for treatment and storage

**Maximum quantity**

24 tonnes per day

<b>Waste code</b>	<b>Description</b>
<b>15</b>	<b>WASTE PACKAGING, ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED</b>
<b>15 01</b>	<b>packaging (including separately collected municipal packaging waste)</b>
15 01 01	paper and cardboard packaging
15 01 05	composite packaging
15 01 06	mixed packaging
<b>15 02</b>	<b>absorbents, filter materials, wiping cloths and protective clothing</b>
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
<b>18</b>	<b>WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)</b>

<b>18 01</b>	<b>wastes from natal care, diagnosis, treatment or prevention of disease in humans</b>
18 01 01	sharps (except 18 01 03)
18 01 02	Body parts and organs including blood bags and blood preserves (except 18 01 03)
18 01 04	wastes whose collection and disposal is not subject to special requirements in order to prevent infection (for example dressings, plaster casts, linen, disposable clothing, diapers)
18 01 07	chemicals other than those mentioned in 18 01 06
18 01 09	medicines other than those mentioned in 18 01 08
<b>18 02</b>	<b>wastes from research, diagnosis, treatment or prevention of disease involving animals</b>
18 02 01	sharps (except 18 02 02)
18 02 03	wastes whose collection and disposal is not subject to special requirements in order to prevent infection
18 02 06	chemicals other than those mentioned in 18 02 05
18 02 08	medicines other than those mentioned in 18 02 07
<b>20</b>	<b>MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS</b>
<b>20 01</b>	<b>separately collected fractions (except 15 01)</b>
20 01 01	paper and cardboard
20 01 10	clothes
20 01 32	medicines other than those mentioned in 20 01 31
20 01 99	other fractions not otherwise specified: Municipal sharp collection; substances and goods seized/confiscated by police and customs; soiled surgical dressings; swabs; nappies; feminine hygiene; incontinence pads and other similar soiled wastes collected from households; institutions and commercial and industrial premises; drugs related litter.

**Table S2.5 Permitted waste types and quantities for treatment of confidential documents under activity A8**

**Total annual tonnage**

Less than 23,198 tonnes per annum for treatment and storage

<b>Waste code</b>	<b>Description</b>
<b>15</b>	<b>WASTE PACKAGING, ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED</b>
<b>15 01</b>	<b>packaging (including separately collected municipal packaging waste)</b>
15 01 01	paper and cardboard packaging
<b>20</b>	<b>MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS</b>
<b>20 01</b>	<b>separately collected fractions (except 15 01)</b>
20 01 01	paper and cardboard

## Schedule 3(a) – Emissions and monitoring effective until 16 August 2022

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

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
A1 as detailed on plan "Attachment 3: Site Drainage/Emission Points"	Shredder hood via HEPA filter	None set	None set	None set	None set	None set
A2 as detailed on plan "Attachment 3: Site Drainage/Emission Points"	Heat disinfection unit, via scrubber					
A3 as detailed on plan "Attachment 3: Site Drainage/Emission Points"	Gas fired oil heating system					

**Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements**

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 shown as surface water drain on plan "Attachment 3: Site Drainage/Emission Points"	Clean uncontaminated surface water only	None set	None set	None set	None set	None set
W2 shown as surface water drain on plan "Attachment 3: Site Drainage/Emission Points"	Clean uncontaminated surface water only	None set	None set	None set	None set	None set

**Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements**

Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 as detailed on flow plan "Attachment 3: Site Drainage/Emission Points"	Drainage from the building and process water	Flow	None set	None set	Reported as daily average over 1 month	To be agreed with the regulator

**Table S3.4 Bioaerosol monitoring requirements**

Location or description of point of measurement	Parameter	Bioaerosol threshold limits	Monitoring frequency	Monitoring standard or method	Other specifications
Air sample points <10m from the treatment plant	Bacillus spores	1000 cfu/m <sup>2</sup> hr	Annually	As specified in EPR 5.07- Clinical waste	Monitoring to be taken: <ul style="list-style-type: none"> <li>- Pre dose</li> <li>- 1st hour post dose</li> <li>- 2nd hour post dose</li> <li>- 3rd hour post dose</li> </ul>
Air sample points >10m from the treatment plant		300 cfu/m <sup>2</sup> hr			
Surface sample points <10m from the treatment plant		20000 cfu/m <sup>2</sup> hr			
Surface sample points >10m from the treatment plant		5000 cfu/m <sup>2</sup> hr			
Discharge to water		300 cfu/litre <sup>2</sup>			Monitoring to be taken: <ul style="list-style-type: none"> <li>- At condenser</li> <li>- Bin wash - at dosing</li> <li>- Bin wash - 20 minutes after dosing</li> </ul>

**Table S3.5 Process monitoring requirements**

Continuous hourly throughput or batch cycle load. (kg)	Test frequency (first six months of operation)	Test frequency (operational, after the first six months)	Minimum number of spore strips or sub-samples	Number of control strips	Monitoring standard or method
0-50kg	monthly	quarterly	3	1	As agreed with NRW
51-500 kg	fortnightly	every two months	3	1	
501-1000kg	weekly	monthly	3	1	

## Schedule 3 (b) – Emissions and monitoring effective from 17 August 2022

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

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
A1 as detailed on plan "Attachment 3: Site Drainage/Emission Points"	Shredder hood via HEPA filter	Dust	5 mg/Nm <sub>3</sub>	None set	Once every six months	EN 13284-1
		NH <sub>3</sub>	None set			No EN standard available
		TVOC				EN 12619
A2 as detailed on plan "Attachment 3: Site Drainage/Emission Points"	Heat disinfection unit, via scrubber	Dust	5 mg/Nm <sub>3</sub>	None set	Once every six months	EN 13284-1
		NH <sub>3</sub>	None set			No EN standard available
		TVOC				EN 12619
A3 as detailed on plan "Attachment 3: Site Drainage/Emission Points"	Gas fired oil heating system	None set	None set	None set	None set	To be agreed with the regulator

**Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements**

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 shown as surface water drain on plan "Attachment 3: Site Drainage/Emission Points"	Clean uncontaminated surface water only	None set	None set	None set	None set	None set
W2 shown as surface water drain on plan "Attachment 3: Site Drainage/Emission Points"	Clean uncontaminated surface water only	None set	None set	None set	None set	None set

**Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements**

<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</b>	<b>Limit (incl. Unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
S1 as detailed on flow plan "Attachment 3: Site Drainage/Emission Points"	Drainage from the building and process water	Flow	None set	None set	Reported as daily average over 1 month	To be agreed with the regulator
		Arsenic (As)	0.05 mg/l		Once every month	Various EN standards available (e.g. EN ISO 11885, EN ISO 17294-2, EN ISO 15586)
		Cadmium (Cd)	0.05 mg/l			
		Chromium (Cr)	0.15 mg/l			
		Copper (Cu)	0.5 mg/l			
		Lead (Pb)	0.1 mg/l			
		Nickel (Ni)	0.5 mg/l			
		Zinc (Zn)	1 mg/l			
		Mercury (Hg)	5 µg/l		Various EN standards available (i.e. EN ISO 17852, EN ISO 12846)	
		PFOA	None set		Once every six months	No EN standard available
PFOS						

**Table S3.4 Bioaerosol monitoring requirements**

Location or description of point of measurement	Parameter	Bioaerosol threshold limits	Monitoring frequency	Monitoring standard or method	Other specifications
Air sample points <10m from the treatment plant	Bacillus spores	1000 cfu/m <sup>2</sup> hr	Annually	As specified in EPR 5.07- Clinical waste	Monitoring to be taken: <ul style="list-style-type: none"> <li>- Pre dose</li> <li>- 1st hour post dose</li> <li>- 2nd hour post dose</li> <li>- 3rd hour post dose</li> </ul>
Air sample points >10m from the treatment plant		300 cfu/m <sup>2</sup> hr			
Surface sample points <10m from the treatment plant		20000 cfu/m <sup>2</sup> hr			
Surface sample points >10m from the treatment plant		5000 cfu/m <sup>2</sup> hr			
Discharge to water		300 cfu/litre <sup>2</sup>			Monitoring to be taken: <ul style="list-style-type: none"> <li>- At condenser</li> <li>- Bin wash - at dosing</li> <li>- Bin wash - 20 minutes after dosing</li> </ul>

**Table S3.5 Process monitoring requirements**

Continuous hourly throughput or batch cycle load. (kg)	Test frequency (first six months of operation)	Test frequency (operational, after the first six months)	Minimum number of spore strips or sub-samples	Number of control strips	Monitoring standard or method
0-50kg	monthly	quarterly	3	1	As agreed with NRW
51-500 kg	fortnightly	every two months	3	1	
501-1000kg	weekly	monthly	3	1	

## Schedule 4 (a) – Reporting until 16 August 2022

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

<b>Table S4.1 Reporting of monitoring data</b>			
<b>Parameter</b>	<b>Emission or monitoring point/reference</b>	<b>Reporting period</b>	<b>Period begins</b>
Emissions to air Parameters as required by condition 3.3.1.	A1 A2	Every 12 months	1 January
Emissions to sewer Parameters as required by condition 3.3.1.	S1	-	-
Bioaerosol emissions as required by condition 3.3.1	Air sample points <10m from the treatment plant Air sample points >10m from the treatment plant Surface sample points <10m from the treatment plant Surface sample points >10m from the treatment plant Discharge to water	Every 12 months	1 January
Other performance indicators	Spore strips	Every 12 months	1 January

<b>Table S4.2: Annual production/treatment</b>	
<b>Parameter</b>	<b>Units</b>
Amounts of waste treated in the Heat Disinfection Unit per year	tonnes

<b>Table S4.3 Performance parameters</b>		
<b>Parameter</b>	<b>Frequency of assessment</b>	<b>Units</b>
Water usage	Annually	tonnes
Energy usage	Annually	MWh
Generation of residues	Annually	Tonnes
Generation of waste water	Annually	m <sup>3</sup>
Total raw material used	Annually	tonnes

<b>Table S4.4 Reporting forms</b>		
<b>Media/parameter</b>	<b>Reporting format</b>	<b>Date of form</b>
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	07/05/21
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	07/05/21
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	07/05/21
Waste Subject to Conditions 4.2.5	Waste tonnage return form from the Natural Resources Wales website or other form as agreed in writing by Natural Resources Wales	N/A

## Schedule 4 (b) – Reporting effective from 17 August 2022

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

<b>Table S4.1 Reporting of monitoring data</b>			
<b>Parameter</b>	<b>Emission or monitoring point/reference</b>	<b>Reporting period</b>	<b>Period begins</b>
Emissions to air Parameters as required by condition 3.3.1.	A1 A2	Every 12 months	1 January
Emissions to sewer Parameters as required by condition 3.3.1.	S1	Every 3 months	1 January 1 April 1 July 1 October
Bioaerosol emissions as required by condition 3.3.1	Air sample points <10m from the treatment plant Air sample points >10m from the treatment plant Surface sample points <10m from the treatment plant Surface sample points >10m from the treatment plant Discharge to water	Every 12 months	1 January
Other performance indicators	Spore strips	Every 12 months	1 January

<b>Table S4.2: Annual production/treatment</b>	
<b>Parameter</b>	<b>Units</b>
Amounts of waste treated in the Heat Disinfection Unit per year	tonnes

<b>Table S4.3 Performance parameters</b>		
<b>Parameter</b>	<b>Frequency of assessment</b>	<b>Units</b>
Water usage	Annually	tonnes
Energy usage	Annually	MWh
Generation of residues	Annually	Tonnes
Generation of waste water	Annually	m <sup>3</sup>
Total raw material used	Annually	tonnes

**Table S4.4 Reporting forms**

<b>Media/parameter</b>	<b>Reporting format</b>	<b>Date of form</b>
Air	Form air 1 or other form as agreed in writing by Natural Resources Wales	17/08/2022
Sewer	Form sewer 1 or other form as agreed in writing by Natural Resources Wales	17/08/2022
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	07/05/21
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	07/05/21
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	07/05/21
Waste Subject to Conditions 4.2.5	Waste tonnage return form from the Natural Resources Wales website or other form as agreed in writing by Natural Resources Wales	N/A

# 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	

<b>(a)</b>	
<p><b>For the following activities referenced in schedule 1, table S1.1 (A1 to A2 inclusive) notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment</b></p>	
<p><b>For the following activities referenced in schedule 1, table S1.1 (A6 to A9 inclusive) 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></p>	
<b>To be notified within 24 hours of detection</b>	
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>(b) Notification requirements for the breach of a permit condition</b>	
<b>To be notified within 24 hours of detection</b>	
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	

<b>Time periods for notification following detection of a breach of a limit</b>	
<b>Parameter</b>	<b>Notification period</b>

<b>(c) In the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment:</b>	
<b>To be notified within 24 hours of detection</b>	
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.	

<b>Name*</b>	
<b>Post</b>	
<b>Signature</b>	
<b>Date</b>	

\* 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.

*“background concentration”* means such concentration of that substance as is present in:

- for emissions to surface water, the surface water quality up-gradient of the site; or
- for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

*“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 1000 and 500 CFU m<sup>-3</sup> for total bacteria and *Aspergillus fumigatus*.

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

*“disposal”* or *“D”* means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

*“emissions to land”* includes emissions to groundwater.

*“EP Regulations”* means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

*“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.

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

*“hazardous property”* has the meaning in Annex III of the Waste Framework Directive

*“hazardous waste”* has the meaning given in the Hazardous Waste (Wales) Regulations 2005 (as amended)

*“hazardous substance”* means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008

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

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

*“Pests”* means Birds, Vermin and Insects.

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

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

‘*residue*’ means the solid waste generated by the waste treatment activity and is not directly related to the type of waste treated in the plant

“*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.

“*Waste Treatment BAT Conclusions*” means the BAT Conclusions for the Waste Treatment sector published as a Commission Implementing Decision EU 2018/1447 in the Official Journal of the EU on 17 August 2018

“*WEEE*” means waste electrical and electronic equipment.

“*WEEE Directive*” means Directive 2012/19/EU of the European Parliament and of the Council of 4th July 2012 on waste electrical and electronic equipment (WEEE).

“*year*” means calendar year ending 31 December.

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

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

- (a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- (b) in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

# Schedule 7 - Site plan



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