

# Notice of variation and consolidation with introductory note

**The Environmental Permitting (England & Wales) Regulations 2016**

---

Grundon Waste Management Limited  
Star Works Treatment Plant  
Star Works  
Star Lane  
Knowl Hill  
Berkshire  
RG10 9XY

**Variation application number**

EPR/YP3237SD/V004

**Permit number**

EPR/YP3237SD

# Star Works Treatment Plant

## Permit number EPR/YP3237SD

### Introductory note

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

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. All the conditions of the permit have been varied and are subject to the right of appeal.

This permit variation has been issued to implement guidance "Healthcare waste: appropriate measures for permitted facilities."

#### **Changes introduced by this variation notice/statutory review**

The Industrial Emissions Directive (IED) came into force on 7 January 2014 with the requirement to implement all relevant Best Available Techniques (BAT) Conclusions as described in the Commission Implementing Decision. Article 21(3) of the IED requires the Environment Agency to review conditions in permits that it has issued and to ensure that the permit delivers compliance with relevant standards, within four years of the publication of updated decisions on Best Available Techniques (BAT) Conclusions. The BAT Conclusions for Waste Treatment (the BREF) was published on 17 August 2018 following a European Union wide review of BAT, implementing decision (EU) 2018/1147 of 10 August 2018.

On 13 July 2020, Healthcare waste: appropriate measures for permitted facilities guidance was published on gov.uk. The guidance explains the standards that are relevant to regulated facilities with an environmental permit to treat or transfer healthcare waste, providing indicative BAT for those sites.

This permit variation has been issued to update some of the conditions following a statutory review of the permits in the healthcare waste treatment and transfer sector and to implement the appropriate measures guidance. The opportunity has also been taken to consolidate the original permit and subsequent variations where appropriate.

#### **Brief description of the process**

The regulated facility comprises:

Disposal of infectious waste by batch thermal treatment in two hydroclaves including pre-shredding with post-treatment compaction and storage of treated floc.

- pre-shredding and steam disinfection of infectious waste, storage of treatment residues;
- repackaging of hazardous waste;
- mixing and blending of hazardous waste;
- temporary storage of hazardous waste;
- steam generation, container washing and raw material storage;
- compaction of offensive waste;
- repackaging of non-hazardous waste;
- temporary storage of non-hazardous waste.

The shredding and steam disinfection of healthcare waste is no longer undertaken at the facility and associated treatment plant (including shredder, hydroclaves, pollution abatement system and boiler) have been, or are in the process of being, decommissioned. The operator is however retaining these activities as part of the permitted activities at the site.

However, when it was operational it consisted of a pre-shredder, two hydroclaves, compaction and storage of treated floc, and pollution abatement equipment. Waste is shredded under negative pressure before transfer to the treatment chamber where a combination of heat, moisture and residence time is sufficient to disinfect the waste to produce a waste floc. Steam is supplied to the hydroclaves by a 2.8 MW thermal input natural gas-fired steam raising plant, which is considered an existing medium combustion plant under the Medium Combustion Plant Directive.

An abatement system consisting of an acid scrubber and carbon filter takes air from the hydroclave hall, enclosed belt conveyors, hydroclave openings, screw conveyor openings, floc compactor and bin washers and treats it prior to discharge to air. Air from the shredder is kept under negative pressure and is passed through a high efficiency particulate air (HEPA) filter before being passed to the abatement system. The abatement system is designed to remove any infectious bio-aerosols, excess moisture and any residual organic compounds and odours from the off-gases before their release to atmosphere.

Off-gases from the hydroclaves are cooled in a condenser and then passed to the abatement system with the resulting water from the condenser being discharged to foul sewer.

The schedules specify the changes made to the permit.

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

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application for permit EAWML 83479 (EPR/AP3290EJ) received	Duly made 13/02/2004	Application for storage and treatment of controlled waste.
Permit determined EPR/AP3290EJ	03/12/2004	Original permit issued to Grundon Waste Management Limited.
Variation determined EPR/AP3290EJ/V002	15/07/2005	Variation to amend limits of activities, permitted waste types and quantities, working plan notifications and waste treatment process.
Application received for permit EPR/YP3237SD	Duly made 23/12/2005	Application for storage and treatment of hazardous and non-hazardous wastes.
Additional information received for permit EPR/YP3237SD	17/03/2006; 21/03/2006; 15/05/2006	-
Permit determined EPR/YP3237SD	28/09/2006	Original permit issued to Grundon Waste Management Limited.
Variation determined EPR/YP3237SD/V002	19/04/2010	Variation to increase waste storage capacity.
Change of fact; registered office address	02/02/2011	-
Application EPR/YP3237SD/V003 (variation and consolidation)	Duly made 02/01/2014	Application to vary the permit, consolidate with EPR/AP3290EJ and update to modern conditions.
Additional information received	03/03/2014; 17/03/2014; 24/03/14.	-
Variation determined EPR/YP3237SD/V003	28/03/2014	Varied and consolidated permit issued in modern condition format.
Regulation 61 Notice sent to operator	26/11/2020	Regulation 61 Notice requiring information for statutory review of permit.

Status log of the permit		
Description	Date	Comments
Regulation 61 Notice response	12/03/2021	Response received from the operator.
RFI sent 11/05/2021	01/07/2021	Response received from the operator.
RFI sent 11/02/2025	12/03/2025	Response received from the operator.
Application EPR/YP3237SD/V004 (variation and consolidation)	Environment Agency Initiated Variation	Statutory review of permit occasioned by Waste Treatment BAT Conclusions published on 17 August 2018 and Healthcare waste: appropriate measures for permitted facilities published 13 July 2020.
Environment Agency Waste Treatment Sector Review Permit reviewed Variation determined EPR/YP3237SD/V004	10/07/2025	Varied and consolidated permit issued.

End of introductory note

# Notice of variation and consolidation

## The Environmental Permitting (England and Wales) Regulations 2016

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

### Permit number

**EPR/YP3237SD**

### Issued to

**Grundon Waste Management Limited** (“the operator”)

whose registered office is

**Thames House  
Oxford Road  
Benson  
Wallingford  
Oxfordshire  
OX10 6LX**

company registration number **04245965**

to operate regulated facilities at

**Star Works Treatment Plant  
Star Works  
Star Lane  
Knowl Hill  
Berkshire  
RG10 9XY**

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

Name	Date
Hannah Finney	10/07/2025

Authorised on behalf of the Environment Agency

## **Schedule 1**

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation.

## **Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.

# Permit

## The Environmental Permitting (England and Wales) Regulations 2016

### Permit number

**EPR/YP3237SD**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/YP3237SD/V004 authorising,

**Grundon Waste Management Limited** (“the operator”),

whose registered office is

**Thames House  
Oxford Road  
Benson  
Wallingford  
Oxfordshire  
OX10 6LX**

company registration number **04245965**

to operate an installation and waste operations at

**Star Works Treatment Plant  
Star Works  
Star Lane  
Knowl Hill  
Berkshire  
RG10 9XY**

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

Name	Date
Hannah Finney	10/07/2025

Authorised on behalf of the Environment Agency

# Conditions

## 1 Management

### 1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
  - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

### 1.2 Energy efficiency

- 1.2.1 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR7) the operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
  - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
  - (c) take any further appropriate measures identified by a review.

### 1.3 Efficient use of raw materials

- 1.3.1 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR7) 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 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

### **2.2 The site**

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

### **2.3 Operating techniques**

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 tables S2.2, S2.3, S2.4 and S2.5; and
  - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
  - (b) the composition of the waste;
  - (c) the handling requirements of the waste;
  - (d) the hazardous property associated with the waste, if applicable; and
  - (e) the waste code of the waste.
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.
- 2.3.7 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.

## **2.4 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 S1.4 shall not commence until the measures specified in that table have been completed.

# **3 Emissions and monitoring**

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

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1 and S3.2.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

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

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

## **3.3 Odour**

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 The operator shall:
  - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency 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 the Environment Agency.

### **3.4 Noise and vibration**

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 The operator shall:
  - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
  - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

### **3.5 Monitoring**

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
  - (a) point source emissions specified in tables S3.1 and S3.2;
  - (b) fugitive microbial emissions monitoring specified in table S3.3;
  - (c) process monitoring specified in table S3.4.
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2 unless otherwise agreed in writing by the Environment Agency.

### **3.6 Pests**

- 3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.
- 3.6.2 The operator shall:
  - (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
  - (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

### **3.7 Fire prevention**

- 3.7.1 The operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.
- 3.7.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to a risk of fire, submit to the Environment Agency for approval within the period specified, a fire prevention plan which prevents fires and minimises the risk of pollution from fires;
  - (b) implement the fire prevention plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

## **4 Information**

### **4.1 Records**

- 4.1.1 All records required to be made by this permit shall:
- (a) be legible;
  - (b) be made as soon as reasonably practicable;
  - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
  - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
    - (i) off-site environmental effects; and
    - (ii) matters which affect the condition of the land and groundwater.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

### **4.2 Reporting**

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR7) a report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
  - (b) the annual production/treatment data set out in schedule 4 table S4.2; and
  - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
  - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
  - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

## 4.3 Notifications

- 4.3.1 In the event:
- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
    - (i) inform the Environment Agency,
    - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
    - (iii) take the measures necessary to prevent further possible incidents or accidents;
  - (b) of a breach of any permit condition the operator must immediately—
    - (i) inform the Environment Agency, and
    - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
  - (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- Where the operator is a registered company:
- (a) any change in the operator's trading name, registered name or registered office address; and
  - (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

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

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

4.3.6 The Environment Agency shall be given at least 14 days' notice before implementation of any part of the site closure plan.

## **4.4 Interpretation**

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

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

# Schedule 1 – Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR1	Section 5.3 Part A(1)(a)(ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment.	Treatment of infectious waste by batch thermal treatment in 2 hydroclaves including pre-shredding with post-treatment compaction and storage of treated floc. D9 Physico-chemical treatment.	From treatment of waste to storage of treated floc. No more than 48 tonnes per day of infectious waste shall be treated. The hydroclaves shall be operated in accordance with Note 1. All treatment shall take place within a building on an impermeable surface with sealed drainage. Treated floc shall be stored within fully enclosed, waterproof and leak-proof containers for no longer than 14 days if stored in a building or for no longer than 7 days located on impermeable surfacing in a dedicated area of the external yard. No more than 48 tonnes of treated floc shall be stored on site at any one time. No waste types shall be submitted to this activity other than those infectious wastes specified in schedule 2, table S2.2.
AR2	Section 5.3 Part A(1)(a)(iv) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving repackaging.	Repackaging of hazardous waste. R12 Exchange of waste for submission to any of the operations numbered R1 to R11. D14 Repackaging prior to submission to any of the operations numbered D1 to D13.	Repackaging is limited to: <ul style="list-style-type: none"> <li>taking a waste package (for example a bag, drum or box) out of one cart or bulk container (for example a skip) and placing it into another cart or bulk container (for example, a skip)</li> <li>taking a waste package from a cart or bulk container (for example, skip) and placing it onto a pallet or vehicle</li> <li>taking a waste package from a pallet and placing it into a cart or bulk container (for example, skip)</li> </ul> Waste shall not be transferred, removed or separated from its primary packaging (for example bags, bins, boxes and blister packs). Repackaging shall take place within a building on an impermeable surface with sealed drainage. Repackaging of waste shall not change either the maximum storage times for waste on site or the amount that can be stored. No waste types shall be submitted to this activity other than those hazardous wastes specified in schedule 2, table S2.3.

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR3	Section 5.3 Part A(1)(a)(iii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving blending and mixing	Blending or mixing of hazardous waste. D13 Blending or mixing prior to submission to any of the operations numbered D1 to D12.	From receipt of hazardous waste to blending and mixing prior to disposal or recovery. No waste types shall be submitted to this activity other than those hazardous wastes specified in schedule 2, table S2.4.
AR4	Section 5.6 Part A(1)(a) Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes.	Storage of hazardous waste. 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). D15 Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where the waste is produced).	From receipt and storage of hazardous waste on site, to its treatment or repackaging on site; or its transfer off-site. The total amount of waste stored on site within a building at any one time, including both hazardous and non-hazardous waste, shall not exceed 80 tonnes. The total amount of waste stored on site in the external storage area at any one time, including both hazardous and non-hazardous waste, shall not exceed 140 tonnes. From the date that the improvement programme IC2 has been met or must be met, waste shall be stored on impermeable surfacing with sealed drainage. From the date that the improvement programme IC3 has been met or must be met, waste shall not be stored in vehicles or vehicle trailers, unless they are being received or prepared for imminent transfer (that is, they will be removed from site within 24 hours, or 72 hours if over a weekend). Pharmaceutical, chemical, anatomical and palletised wastes shall be stored securely within designated areas of the building. Infectious clinical waste shall be stored for no longer than 7 days if outside, or for no longer than 14 days if stored in a building. Refrigerated anatomical waste shall be stored for no longer than 14 days. Unrefrigerated anatomical waste shall be stored for no longer than 24 hours, or up to 72 hours if over a weekend. The following waste types shall be stored for no longer than 6 months: <ul style="list-style-type: none"> <li>• non-infectious cytotoxic and cytostatic drugs</li> <li>• dental amalgam</li> <li>• other hazardous chemicals or other hazardous wastes</li> </ul>



Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
			<p>Aerosol canisters shall be securely stored under cover in well-ventilated containers, and within a caged storage area. Up to 3 cubic metres of aerosol containers shall only be stored for up to 3 months.</p> <p>Notwithstanding the limits given above where a shorter storage time period is given in an agreed management plan then that time period shall take precedence.</p> <p>No waste types shall be submitted to this activity other than those hazardous wastes specified in schedule 2, table S2.3.</p>
<p>Note 1 - The hydroclaves shall only be operated:</p> <p>(i) at the treatment settings (e.g. time, temperature, pressure) the plant was validated at</p> <p>(ii) for a total load weight of waste no greater than that proven during validation</p> <p>(iii) for waste types and where relevant quantities of each type proven during validations</p> <p>(iv) if it passes plant validation requirements, including repeated plant validation and routine efficacy monitoring (Table S3.5), as set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020.</p>			
	<b>Directly Associated Activity</b>		
AR5	Steam supply.	Natural gas-fired steam-raising boiler – net thermal input approximately 2.8 MWth.	Includes receipt of fuel and its storage. No fuel shall be used other than natural gas.
AR6	Cleaning and disinfection of containers and carts.	2 contained rotary bin washers that clean and disinfect.	Handling, cleaning and storage of containers and carts prior to dispatch. Washing and disinfection of mobile containers shall only take place in designated areas with an impermeable surface and a sealed drainage system.
AR7	Raw material handling and storage.	Raw material handling and storage.	From receipt and storage to point of use.
<b>Waste Operations</b>			
Activity reference	Description of activities for waste operations	Limits of activities	
AR8	<p>Light compaction of non-infectious offensive waste.</p> <p>R12 Exchange of waste for submission to any of the operations numbered R1 to R11.</p> <p>D14 Repackaging prior to submission to any of the operations numbered D1 to D13.</p>	<p>From light compaction of waste to storage of compacted waste.</p> <p>No more than 20 tonnes per day of non-infectious offensive waste shall be compacted.</p> <p>All compaction shall take place on an impermeable surface with sealed drainage.</p> <p>Compaction of waste shall not change either the maximum storage times for waste on site or the amount that can be stored.</p> <p>Bin, container or cart washing equipment shall be purpose-built, contained and located in a designated area of the facility provided with self-contained drainage. The cart or bin wash must be designed to</p>	

Waste Operations		
Activity reference	Description of activities for waste operations	Limits of activities
		<p>collect and contain all wash waters, including any spray.</p> <p>No waste types shall be submitted to this activity other than those non-infectious offensive wastes specified in schedule 2, table S2.5.</p>
AR9	<p>Repackaging of non-hazardous waste.</p> <p>R12 Exchange of waste for submission to any of the operations numbered R1 to R11.</p> <p>D14 Repackaging prior to submission to any of the operations numbered D1 to D13.</p>	<p>Repackaging is limited to:</p> <ul style="list-style-type: none"> <li>• taking a waste package (for example a bag, drum or box) out of one cart or bulk container (for example a skip) and placing it into another cart or bulk container (for example, a skip)</li> <li>• taking a waste package from a cart or bulk container (for example, skip) and placing it onto a pallet or vehicle</li> <li>• taking a waste package from a pallet and placing it into a cart or bulk container (for example, skip)</li> </ul> <p>Waste shall not be transferred, removed or separated from its primary packaging (for example bags, bins, boxes and blister packs).</p> <p>Repackaging shall take place within a building on an impermeable surface with sealed drainage.</p> <p>Repackaging of waste shall not change either the maximum storage times for waste on site or the amount that can be stored.</p> <p>Bin, container or cart washing equipment shall be purpose-built, contained and located in a designated area of the facility provided with self-contained drainage. The cart or bin wash must be designed to collect and contain all wash waters, including any spray.</p> <p>No waste types shall be submitted to this activity other than those non-hazardous wastes specified in schedule 2, table S2.3.</p>
AR10	<p>Storage of non-hazardous waste.</p> <p>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).</p> <p>D15 Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where the waste is produced).</p>	<p>From receipt and storage of non-hazardous waste on site, to its treatment or repackaging on site; or its transfer off-site.</p> <p>The total amount of waste stored on site within a building at any one time, including both hazardous and non-hazardous waste, shall not exceed 80 tonnes.</p> <p>The total amount of waste stored on site in the external storage area at any one time, including both hazardous and non-hazardous waste, shall not exceed 140 tonnes.</p> <p>From the date that the improvement programme IC2 has been or must be met, waste shall be stored on impermeable with sealed drainage.</p> <p>From the date that the improvement programme IC3 has been or must be met, waste shall not be stored in vehicles or vehicle trailers, unless they are being received or prepared for imminent transfer (that is, they will be removed from site within 24 hours, or 72 hours if over a weekend).</p>

Waste Operations		
Activity reference	Description of activities for waste operations	Limits of activities
		<p>Pharmaceutical, chemical, anatomical and palletised wastes shall be stored securely within designated areas of a secure building.</p> <p>Non-infectious offensive waste shall be stored for no longer than 7 days if outside, or for no longer than 14 days if stored in a building.</p> <p>Refrigerated anatomical waste shall be stored for no longer than 14 days.</p> <p>Unrefrigerated anatomical waste shall be stored for no longer than 24 hours, or up to 72 hours if over a weekend.</p> <p>Odorous or biodegradable wastes must be stored securely for no longer than 7 days.</p> <p>The following waste types shall be stored on site for no longer than 6 months:</p> <ul style="list-style-type: none"> <li>• non-infectious, non-hazardous medicines</li> <li>• other non-hazardous chemicals or other non-hazardous wastes.</li> </ul> <p>Aerosol canisters shall be securely stored under cover in well-ventilated containers, and within a caged storage area. Up to 3 cubic metres of aerosol containers shall only be stored for up to 3 months.</p> <p>Notwithstanding the limits given above where a shorter storage time period is given in an agreed management plan then that time period shall take precedence.</p> <p>No waste types shall be submitted to this activity other than those non-hazardous wastes specified in schedule 2, table S2.3.</p>

Table S1.2 Operating techniques		
Description	Parts	Date Received
Healthcare waste: appropriate measures for permitted facilities Version published 13 July 2020	All parts of the appropriate measures guidance shall apply other than those parts to which an improvement programme requirement applies in Table S1.3 and until the agreed completion date for that improvement.	N/A
Chemical waste: appropriate measures for permitted facilities Version published 18 November 2020	<p>The following parts of the appropriate measures guidance shall apply other than those parts to which an improvement programme requirement applies in Table S1.3 and until the agreed completion date for that improvement:</p> <ul style="list-style-type: none"> <li>• Waste pre-acceptance, acceptance and tracking;</li> <li>• Waste storage, segregation and handling.</li> </ul>	N/A
Non-hazardous and inert waste: appropriate measures for permitted facilities Version published 12 July 2021	<p>The following parts of the appropriate measures guidance shall apply other than those parts to which an improvement programme requirement applies in Table S1.3 and until the agreed completion date for that improvement:</p> <ul style="list-style-type: none"> <li>• Waste pre-acceptance, acceptance and tracking;</li> <li>• Waste storage, segregation and handling.</li> </ul>	N/A

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC1 Storage times offensive	Non-infectious offensive waste shall be stored for no longer than 7 days if outside, or for no longer than 14 days if stored in a building.	10/10/2025
IC2 Site surfacing and drainage for external areas	The operator shall submit to the Environment Agency for approval, a written report detailing proposals for providing external areas of the site where waste is stored or handled with impermeable surfacing and a sealed drainage system, in accordance with our guidance Healthcare waste: appropriate measures for permitted facilities.  The proposal must include the specification of the proposed infrastructure, an implementation plan, and timescales for implementation.	10/09/2025
	The operator shall submit a written report to the Environment Agency for approval which demonstrates that impermeable surfacing and a sealed drainage system is in place for external areas of the site where waste is stored or handled.  The report must demonstrate that the measures in place are in compliance with our guidance Healthcare waste: appropriate measures for permitted facilities.	16/01/2026
IC3 Use of vehicles or trailers for storage of waste	The operator shall cease the use of vehicles or trailers for storage of waste other than where they are being received for immediate offloading or prepared for imminent transfer (that is, they will be removed from site within 24 hours, or 72 hours if over a weekend).	10/10/2025
IC4 Fire water retention	The operator shall submit a written report to the Environment Agency for approval which reviews the ability for fire water to be retained on site in the event of a fire.  The report must demonstrate that the measures in place are in compliance with our guidance Healthcare waste: appropriate measures for permitted facilities.	16/01/2026
IC5 Noise Management Plan	The operator shall provide a noise management plan to the Environment Agency for approval. The plan shall take into account all appropriate measures for noise prevention specified in the Environment Agency's guidance Healthcare waste: appropriate measures for permitted facilities. The plan shall also take account of the following regarding the external storage area: <ul style="list-style-type: none"> <li>a) The total number of waste container movements into and out of the external storage area shall not exceed 5 in any day.</li> <li>b) Timing of container movements into and out of the external storage area. These shall only be moved into or out of the external storage area between the hours of; 0700 – 1900 Monday to Friday and 0700 – 1200 Saturday and Sunday.</li> <li>c) Operation of any refrigeration equipment in the external storage area such that it will not be operated between the hours of 1900 and 0700.</li> </ul> Once the noise prevention plan has been agreed with the Environment Agency, the installation must be operated in accordance with this management plan.	16/01/2026

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC6 Odour management plan	<p>The operator shall submit an odour management plan to the Environment Agency for written agreement. The plan shall take into account the appropriate measures for odour control specified in our guidance Healthcare waste: appropriate measures for permitted facilities and H4 - Odour Management.</p> <p>Once the odour management plan has been agreed with the Environment Agency, the installation must be operated in accordance with this management plan.</p>	10/10/2025

<b>Table S1.4 Pre-operational measures for future development</b>		
<b>Reference</b>	<b>Operation</b>	<b>Pre-operational measures</b>
PO1	Commencement of steam disinfection and/or operation of the boiler activities (AR1 and AR5)	<p>Prior to the commencement of activity AR1 and/or AR5 authorised by table S1.1, including any waste acceptance, storage and treatment which are in temporary cessation under this variation notice, the operator shall apply to the Environment Agency to vary the permit and provide supporting documents in accordance with the requirements of the Waste Treatment BAT conclusions, Healthcare Wastes: appropriate measures for permitted sites, and other appropriate measures guidance as applicable.</p> <p>The activities permitted shall only recommence once the permit variation has been issued by the Environment Agency.</p>
PO2	Commencement of blending and mixing activity (AR3)	<p>Prior to the commencement of activity AR3 authorised by table S1.1, including any waste acceptance, storage and treatment which are in temporary cessation under this variation notice, the operator shall apply to the Environment Agency to vary the permit and provide supporting documents in accordance with the requirements of the Waste Treatment BAT conclusions, Healthcare Wastes: appropriate measures for permitted sites, Chemical Wastes: appropriate measures for permitted sites, and other appropriate measures guidance as applicable.</p> <p>The activities permitted shall only recommence once the permit variation has been issued by the Environment Agency.</p>

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

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
–	–

Table S2.2 Permitted waste types and quantities for thermal treatment (AR1)	
Maximum quantity	The total quantity of wastes accepted at the site for all activities shall not exceed 22,995 tonnes per year.
Waste code	Description
<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*	infectious waste, not contaminated with chemicals or medicines (Note 1)
<b>18 02</b>	<b>wastes from research, diagnosis, treatment or prevention of disease involving animals</b>
18 02 02*	infectious waste, not contaminated with chemicals or medicines (Note 1)
<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 99	infectious waste, not contaminated with chemicals or medicines – municipal, separately collected fractions, not from healthcare or research-related sources (Note 1)
Note 1: Excluding: sharps (unless rendered unusable and unrecognisable); anatomical waste; waste known or likely to contain ACDP Hazard Group 4 biological agents; any waste from a containment level 3 laboratory; all microbiological cultures from any source; and any potentially infected waste from pathology departments and other clinical or research laboratories.	

Table S2.3 Permitted waste types and quantities for repackaging (AR2 and AR9) and storage (AR4 and AR10)	
Maximum quantity	The total quantity of wastes accepted at the site for all activities shall not exceed 22,995 tonnes per year.
Waste code	Description
<b>02</b>	<b>WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING</b>
<b>02 01</b>	<b>wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing</b>
02 01 02	animal-tissue waste
02 01 03	plant-tissue waste
02 01 06	animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site
02 01 09	agrochemical waste other than those mentioned in 02 01 08
<b>02 02</b>	<b>wastes from the preparation and processing of meat, fish and other foods of animal origin</b>
02 02 02	animal-tissue waste
02 02 03	materials unsuitable for consumption or processing
<b>02 03</b>	<b>wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation</b>
02 03 04	materials unsuitable for consumption or processing
<b>02 05</b>	<b>wastes from the dairy products industry</b>
02 05 01	materials unsuitable for consumption or processing
<b>02 06</b>	<b>wastes from the baking and confectionery industry</b>
02 06 01	materials unsuitable for consumption or processing
<b>02 07</b>	<b>wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)</b>
02 07 04	materials unsuitable for consumption or processing
<b>07</b>	<b>WASTES FROM ORGANIC CHEMICAL PROCESSES</b>
<b>07 05</b>	<b>wastes from the manufacture, formulation, supply and use (MFSU) of pharmaceuticals</b>
07 05 13*	solid wastes containing hazardous substances
07 05 14	solid wastes other than those mentioned in 07 05 13
<b>08</b>	<b>WASTES FROM MANUFACTURE, FORMULATION, SUPPLY AND USE OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS</b>
<b>08 01</b>	<b>wastes from MFSU and removal of paint and varnish</b>
08 01 11*	waste paint and varnish containing organic solvents or other 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

<b>Table S2.3 Permitted waste types and quantities for repackaging (AR2 and AR9) and storage (AR4 and AR10)</b>	
<b>Maximum quantity</b>	<b>The total quantity of wastes accepted at the site for all activities shall not exceed 22,995 tonnes per year.</b>
<b>Waste code</b>	<b>Description</b>
09 01 04*	fixer solutions
09 01 06*	wastes containing silver from on-site treatment of photographic wastes
<b>14</b>	<b>WASTE ORGANIC SOLVENTS, REFRIGERANTS AND FOAM/AEROSOL PROPELLANTS (EXCEPT 07 AND 08)</b>
<b>14 06</b>	<b>waste organic solvents, refrigerants and foam/aerosol propellants</b>
14 06 03*	other solvents and solvent mixtures
<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 04	metallic packaging
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
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
<b>16</b>	<b>WASTES NOT OTHERWISE SPECIFIED IN THE LIST</b>
<b>16 02</b>	<b>wastes from electrical and electronic equipment</b>
16 02 13*	discarded equipment containing hazardous components other than those mentioned in 16 02 09 to 16 02 12
<b>16 05</b>	<b>gases in pressure containers and discarded chemicals</b>
16 05 04*	aerosol canisters from the servicing of washrooms and similar hygiene facilities, containing hazardous substances
16 05 05	aerosol canisters from the servicing of washrooms and similar hygiene facilities, other than those mentioned in 16 05 04
16 05 06*	laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals
16 05 08*	discarded organic chemicals consisting of or containing hazardous substances
<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	non-infectious sharps, not contaminated with chemicals or medicines
18 01 02	non-infectious anatomical waste, not chemically preserved
18 01 02 and 18 01 06*	non-infectious anatomical waste, chemically preserved, hazardous chemicals
18 01 02 and 18 01 07	non-infectious anatomical waste, chemically preserved, non-hazardous chemicals



<b>Table S2.3 Permitted waste types and quantities for repackaging (AR2 and AR9) and storage (AR4 and AR10)</b>	
<b>Maximum quantity</b>	<b>The total quantity of wastes accepted at the site for all activities shall not exceed 22,995 tonnes per year.</b>
<b>Waste code</b>	<b>Description</b>
18 01 03*	infectious waste, not contaminated with chemicals or medicines (may contain sharps) infectious anatomical waste, not chemically preserved infectious gypsum wastes (for example, plaster casts and moulds)
18 01 03* and 18 01 06* or 18 01 07	infectious waste, contaminated with chemicals infectious anatomical waste, chemically preserved
18 01 03* and 18 01 08* or 20 01 31*	infectious waste, contaminated with cytotoxic and cytostatic medicines – (may contain sharps)
18 01 03* and 18 01 09	infectious waste, medicinally contaminated (not cytotoxic or cytostatic) – (may contain sharps)
18 01 04	non-infectious offensive waste – human healthcare non-infectious gypsum wastes (for example, plaster casts and moulds)
18 01 06*	chemicals consisting of or containing hazardous substances
18 01 07	chemicals other than those mentioned in 18 01 06
18 01 08*	cytotoxic and cytostatic medicines
18 01 09	other waste medicines, excluding cytotoxic and cytostatic medicines – human healthcare
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 01	non-infectious sharps, not contaminated with chemicals or medicines
18 02 02*	infectious waste, not contaminated with chemicals or medicines (may contain sharps) infectious anatomical waste, not chemically preserved
18 02 02* and 18 02 05* or 18 02 06	infectious waste, contaminated with chemicals infectious anatomical waste, chemically preserved
18 02 02* and 18 02 07* or 20 01 31	infectious waste, contaminated with cytotoxic and cytostatic medicines (may contain sharps)
18 02 02* and 18 02 08	infectious waste, medicinally contaminated (not cytotoxic or cytostatic) (may contain sharps)
18 02 03	non-infectious anatomical waste, not chemically preserved non-infectious offensive waste non-infectious gypsum wastes (for example, plaster casts and moulds)
18 02 03 and 18 02 05*	non-infectious anatomical waste, chemically preserved, hazardous chemicals
18 02 03 and 18 02 06	non-infectious anatomical waste, chemically preserved, non-hazardous chemicals
18 02 05*	chemicals consisting of or containing hazardous substances
18 02 06	chemicals other than those mentioned in 18 02 05
18 02 07*	cytotoxic and cytostatic medicines

<b>Table S2.3 Permitted waste types and quantities for repackaging (AR2 and AR9) and storage (AR4 and AR10)</b>	
<b>Maximum quantity</b>	<b>The total quantity of wastes accepted at the site for all activities shall not exceed 22,995 tonnes per year.</b>
<b>Waste code</b>	<b>Description</b>
18 02 08	other waste medicines, excluding cytotoxic and cytostatic
19 12 11*	other wastes (including mixtures of materials) from mechanical treatment of waste containing hazardous substances
<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 08	biodegradable kitchen and canteen waste
20 01 31*	cytotoxic and cytostatic medicines – municipal, separately collected fractions not from healthcare or research-related sources
20 01 32	other waste medicines, excluding cytotoxic and cytostatic medicines – municipal, separately collected fractions not from healthcare or research-related sources
20 01 39	plastics
20 01 99	non-infectious offensive waste – municipal, separately collected fractions not from healthcare or research-related sources non-infectious sharps, not contaminated with chemicals or medicines – not from healthcare or research-related sources infectious waste, not contaminated with chemicals or medicines – municipal, separately collected fractions, not from healthcare or research-related sources (may contain sharps)
<b>20 03</b>	<b>other municipal wastes</b>
20 03 01	mixed municipal waste

<b>Table S2.4 Permitted waste types and quantities for blending and mixing (AR3)</b>	
<b>Maximum quantity</b>	<b>The total quantity of wastes accepted at the site for all activities shall not exceed 22,995 tonnes per year.</b>
<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 manufacture, formulation, supply and use (MFSU) of pharmaceuticals</b>
07 05 13*	solid wastes containing hazardous substances
<b>08</b>	<b>WASTES FROM MANUFACTURE, FORMULATION, SUPPLY AND USE OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS</b>
<b>08 01</b>	<b>wastes from MFSU and removal of paint and varnish</b>
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
<b>14</b>	<b>WASTE ORGANIC SOLVENTS, REFRIGERANTS AND FOAM/AEROSOL PROPELLANTS (EXCEPT 07 AND 08)</b>
<b>14 06</b>	<b>waste organic solvents, refrigerants and foam/aerosol propellants</b>
14 06 03*	other solvents and solvent mixtures

Table S2.4 Permitted waste types and quantities for blending and mixing (AR3)	
Maximum quantity	The total quantity of wastes accepted at the site for all activities shall not exceed 22,995 tonnes per year.
Waste code	Description
<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 05</b>	<b>gases in pressure containers and discarded chemicals</b>
16 05 06*	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
16 05 08*	discarded organic chemicals consisting of or containing dangerous substances
<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 06*	chemicals consisting of or containing hazardous substances
<b>18 02</b>	<b>wastes from research, diagnosis, treatment or prevention of disease involving animals</b>
18 02 05*	chemicals consisting of or containing hazardous substances
<b>19</b>	<b>WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE</b>
<b>19 12</b>	<b>wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified</b>
19 12 11*	other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances

Table S2.5 Permitted waste types and quantities for light compaction (AR8)	
Maximum quantity	The total quantity of wastes accepted at the site for all activities shall not exceed 22,995 tonnes per year.
Waste code	Description
<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 04	non-infectious offensive waste – human healthcare
<b>18 02</b>	<b>wastes from research, diagnosis, treatment or prevention of disease involving animals</b>
18 02 03	non-infectious offensive waste

## Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
A1 on site plan in schedule 7 (or as otherwise agreed in accordance with PO1).	Emission from treatment process abatement plant (Note 1)	-	-	-	-	-
B1 on site plan in schedule 7 (or as otherwise agreed in accordance with PO1).	Boiler Plant exhaust (Note 1)	-	-	-	-	-
Note 1: Emissions to air from the treatment plant (AR1) and boiler plant (AR5) are subject to the treatment process recommencing in accordance with the requirements of pre-operational measure PO1.						

Table S3.2 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 on site plan in schedule 7 emission to Thames Water sewer under consent TWWL0001	Condensate from waste treatment and bin washing effluent (Note 1)	-	-	-	-	-
Note 1: Emissions to sewer from the treatment plant (AR1) are subject to the treatment process recommencing in accordance with the requirements of pre-operational measure PO1.						

<b>Table S3.3 Fugitive microbial emissions monitoring (spiked organisms)</b>				
<b>Emission point ref. &amp; location</b>	<b>Parameter</b>	<b>Limit (incl. unit)</b>	<b>Monitoring frequency (Note 2)</b>	<b>Monitoring standard or method</b>
Air – sample points <10 m from the treatment plant	Bacillus Spores	1,000 cfu per cubic metre (Note 1)	Annually	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020.
Air – sample points >10 m from the treatment plant	Bacillus Spores	300 cfu per cubic metre (Note 1)	Annually	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020.
Surface – sample point <10 m from the treatment plant	Bacillus Spores	20,000 cfu per square metre per hour (Note 1)	Annually	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020.
Surface – sample point >10 m from the treatment plant	Bacillus Spores	5,000 cfu per square metre per hour (Note 1)	Annually	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020.
<p>Note 1: These units relate to the overall monitoring period so the cfu benchmark applies to:</p> <ul style="list-style-type: none"> <li>each individual sample of air taken, with a calculation made to report the result per cubic metre.</li> <li>for each individual settling plate (this is not an average) - a calculation made to adjust for surface area of settle plate and exposure time (for example if settle plates are deployed for only fifteen minutes of every hour then the result must be multiplied by four).</li> </ul> <p>The limit is based on a seeding dose of <math>1 \times 10^6</math> spores per gram of waste load. You should adjust it accordingly if you use a higher or lower seeding dose.</p> <p>The units relate to the overall monitoring period so the cfu limit applies to each individual:</p> <ul style="list-style-type: none"> <li>sample of air – a calculation is made to report the result per cubic metre.</li> <li>settle plate (this is not an average) a calculation is made to adjust for surface area of a settle plate and exposure time (for example, if you use settle plates for only 15 minutes of every hour then you must multiply the result by four).</li> </ul> <p>Note 2: The requirement to monitor the treatment plant (AR1) is suspended, subject to the treatment process recommencing in accordance with the requirements of pre-operational measure PO1.</p>				

Table S3.4 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency (Note 1)	Monitoring standard or method	Other specifications
Steam treatment of infectious waste	Routine efficacy monitoring	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020.	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020.	The Environment Agency shall be notified immediately of any test failures.
	Repeated plant validation	Plant commissioning validation must be repeated in accordance with Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020: <ul style="list-style-type: none"><li>periodically, at intervals of 4 years or less during the operational life of the plant</li></ul> and if: <ul style="list-style-type: none"><li>any process parameters or conditions change from those assessed and approved during plant commissioning or plant validation</li><li>any changes are made to plant design or engineering</li><li>changes to the waste types accepted for treatment mean that the challenge load considered during plant commissioning or plant validation is no longer the worst case scenario</li><li>the plant fails routine treatment efficacy monitoring to the extent that plant validation is required.</li></ul>		Results of repeated plant validation shall be submitted to the Environment Agency for approval.
Note 1: The requirement to monitor the treatment plant (AR1) is suspended, subject to the treatment process recommencing in accordance with the requirements of pre-operational measure PO1.				

## Schedule 4 – Reporting

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 (Note 1)</b>	<b>First period begins</b>
Emissions to air Parameters as required by condition 3.5.1	A1, B1	Every 6 months	1 January
Emissions to sewer Parameters as required by condition 3.5.1	S1	Annually	1 January
Fugitive microbial emissions monitoring Parameters as required by condition 3.5.1	Air and surface monitoring points as detailed in table S3.3	Annually	1 January
Routine efficacy monitoring Parameters as required by condition 3.5.1	Steam treatment of waste	Quarterly	1 January
Repeated plant validation Parameters as required by condition 3.5.1	Steam treatment of waste	Every 4 years or less, as required by table S3.5	1 January
Note 1: The requirement to report monitoring is suspended, subject to the treatment process (AR1) recommencing in accordance with the requirements of pre-operational measure PO1.			

<b>Table S4.2 Annual production/treatment</b>	
<b>Parameter</b>	<b>Units</b>
Hazardous waste thermally treated	tonnes
Treated floc produced	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
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>
Emissions to air	Form Air 1 or other form as agreed in writing by the Environment Agency	08/03/2021

<b>Table S4.4 Reporting forms</b>		
<b>Media/parameter</b>	<b>Reporting format</b>	<b>Date of form</b>
Fugitive microbial emissions	Form Microbial 1 or other form as agreed in writing by the Environment Agency	17/06/2021
Emissions to water and land	Form Water 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Emissions to Sewer	Form Sewer1 or other form as agreed in writing by the Environment Agency	08/03/2021
Water usage	Form Water usage 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Energy usage	Form Energy 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Other performance indicators	Form Performance 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Routine efficacy monitoring	Monitoring report submitted in writing to the Environment Agency	-
Repeated plant validation	Validation report submitted in writing to the Environment Agency	-



## Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

### Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

<b>(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</b>	
<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 limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

<b>(b) Notification requirements for the breach of a limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
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) Notification requirements for the breach of permit conditions not related to limits</b>	
<b>To be notified within 24 hours of detection</b>	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

<b>(d) Notification requirements for the detection of any significant adverse environmental effect</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.	

Name*	
Post	
Signature	
Date	

\* authorised to sign on behalf of the operator

## Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“building” is a covered structure enclosed on all vertical sides that provides sheltered cover and contains emissions of, for example, noise, particulate matter, odour and litter.

“clinical” waste means waste from a healthcare activity (including veterinary healthcare) that:

- a) contains viable micro-organisms or their toxins which are known or reliably believed to cause disease in humans or other living organisms
- b) contains or is contaminated with a medicine that contains a biologically active pharmaceutical agent
- c) is a sharp, or a body fluid or other biological material (including human and animal tissue) containing or contaminated with a hazardous substance

and waste of a similar nature from a non-healthcare activity.

“container” is a receptacle for waste for example bags, bins, boxes, drums, IBCs and blister packs. Wastes may be packaged in more than one receptacle for example a bag in a box.

“cytotoxic and cytostatic medicines” are medicinal products that possess one or more of the hazardous properties acutely toxic, carcinogenic, mutagenic or toxic for reproduction.

“D” means a disposal operation provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on Waste.

“disposal” means any of the operations provided for in Annex I to the Waste Framework Directive.

“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 these standard rules or from other localised or diffuse sources, which are not controlled by an emission or background concentration limits.

“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.

“existing medium combustion plant” means an MCP in operation before 20 December 2018.

“fugitive emission” means an emission to air, water or land from the activities which is not controlled by an emission limit.

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

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

“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.

“hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005.

“healthcare waste” means waste produced during human or animal healthcare, or related research activities. It covers both clinical and offensive waste. Wastes produced by healthcare in the community, and similar types of waste produced by non-healthcare activities are included, for example:

- cosmetic body piercing and body art
- non-medicinal procedures in the hair and beauty sector
- substance abuse
- crime scene clean-up.

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

“Industrial Emissions Directive” means Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste.

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

“Medium Combustion Plant” or “MCP” means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW.

“Medium Combustion Plant Directive” or “MCPD” means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“medicines” are “medicinal products” as defined in Regulation 130 of Part VIII of the Medicines Act 1968. Waste medicines (or pharmaceutical waste) include:

- expired, unused, spilt and contaminated medical products that are no longer required and need to be disposed of appropriately;
- discarded items contaminated with medicines such as bottles or boxes with residues, gloves, masks, connecting tubing, syringe bodies and drug vials.

“mixing of hazardous waste” means mixing hazardous waste as defined by Regulation 18 of the Hazardous Waste (England and Wales) Regulations 2005.

“offensive waste” is waste that:

- is not clinical waste
- contains body fluids, secretions or excretions
- falls within waste codes 18 01 04, 18 02 03 or 20 01 99.

“pests” means birds, vermin and insects.

“pollution” includes pollution of the environment, harm to human health and serious detriment to the amenities of the locality, resulting from the permitted activities.

“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 of 19 November 2008 on Waste.

“recovery” means any of the operations provided for in Annex II to the Waste Framework Directive.

“repackaging” is:

- taking a waste package for example a bag, drum or box out of one cart or bulk container for example, skip and placing it into another cart or bulk container for example, skip
- taking a waste package from a cart or bulk container for example, skip and placing it onto a pallet or vehicle
- taking a waste package from a pallet and placing it into a cart or bulk container for example, skip
- transferring, removing or separating waste from its primary packaging into another container

“sealed container” for the purposes of this permit, means a container which is fully enclosed, weather proof, does not allow any solid or liquid content to escape and is lockable.

“sealed drainage” in relation to an impermeable surface means a drainage system with impermeable components which does not leak and which will ensure that:

- no liquid will run off the surface otherwise than via the system;
- except where they may lawfully be discharged to foul sewer, all liquids entering the system are collected in a sealed sump.

“sharps” means items that could cause cuts or puncture wounds. They include needles, hypodermic needles, scalpels and other blades, knives, infusion sets, saws, broken glass, and nails.

“waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk.

“volatile organic compound” (VOC) means any organic compound as well as the fraction of creosote, having at 293.15 K a vapour pressure of 0.01 kPa or more, or having a corresponding volatility under the particular conditions of use.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“year” means calendar year ending 31 December.

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

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

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

When the following terms appear in the waste code list in schedule 2, tables S2.2, S2.3 and S2.4, for those tables, they have the meaning given below:

“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.

## Schedule 7 – Site plan





© Crown Copyright and Database Rights 2025 OS AC0000807064.

END OF PERMIT