Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Sharpsmart Limited

Waste Transfer and Treatment Facility
Unit 1
Loscoe Close
Normanton Industrial Estate
Normanton
WF6 1TW

Variation application number

EPR/XP3602PF/V004

Permit number

EPR/XP3602PF

Waste Transfer and Treatment Facility
Permit number EPR/XP3602PF

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:

The variation is for:

- Adding listed activities for the shredding and thermal treatment of infectious medicinally contaminated sharps limited to 72 tonnes per day (Activity Reference AR1 and AR2). This activity is subject to a pre-operational condition (PO1, PO2, PO3).
- Operating a larger natural gas fuelled steam-raising boiler (3.95MWth).
- Adding a waste operation activity for the shredding and subsequent thermal treatment of non-hazardous waste 18 01 04 (Activity reference AR11 and AR12). This activity is subject to pre-operational conditions (PO4 and PO5)
- Increasing storage capacity of treated waste, in this instance the floc resulting from treatment activities, from 40 tonnes to 80 tonnes (activity reference AR2).

Brief description of the process

The installation is a hazardous clinical waste transfer and treatment facility that treats up to 20,000 tonnes a year of hazardous clinical waste. It is located in the Normanton Industrial Estate to the north-east of Normanton and is bounded to the north by the M62 motorway and to the south and west by the A655. The facility is situated in a predominantly industrial setting.

All activities associated with the facility are carried out within a building. The treatment of clinical waste is by heat treatment in two autoclaves. Treated waste is compacted and disposed of off-site. The facility is also permitted to accept other types of clinical waste for bulking, pending off-site disposal. These waste types include sharps, anatomical wastes and other wastes associated with clinical operations.

The regulated facility comprises:

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

The steam disinfection plant consists of a pre-shredder, two autoclaves, compaction and storage of treated floc, and pollution abatement equipment. Waste is shredded under negative pressure before transfer to one of the two autoclaves 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 autoclaves from the natural gas-fired steam raising plant, which is considered an existing medium combustion plant.

Off-gases from the autoclaves are cooled in a condenser with the resulting water being discharged to foul sewer.

An abatement system that comprises a high efficiency particulate air (HEPA) filter and carbon filter serves the shredder. This is designed to remove particulates, any infectious bio-aerosols and any residual organic compounds and odours before release to atmosphere.

The schedules specify the changes made to the permit.

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

Status log of the permit		
Description	**Date**	**Comments**
Application EPR/VP3137TV/A001	Duly made 15/09/2010	Application for clinical waste transfer and treatment facility.
Additional information received	30/11/2010	-
Additional information received	25/01/2011	-
Additional information received	26/01/2011	-
Additional information received	01/02/2011	-
Additional information received	16/02/2011	-
Additional information received	20/04/2011	-
Permit determined EPR/VP3137TV	21/04/2011	-
Variation Application EPR/VP3137TV/V002	Duly made 16/01/2012	Application to pre-shred waste.
Additional information received	10/02/2012	-
Additional information received	24/02/2012	-
Additional information received	02/05/2012	-
Variation determined EPR/VP3137TV	15/06/2012	Varied permit issued.
Variation Application EPR/VP3137TV/V003	Duly made 22/03/2013	Application to change fuel input for dual fuel system generating boiler.
Variation determined EPR/VP3137TV	10/05/2013	Varied permit issued.
Variation Application EPR/VP3137TV/V004	Duly made 31/12/2013	Application to increase maximum annual waste tonnage.
Variation determined EPR/VP3137TV	04/02/2014	Varied permit issued.
Agency variation determined EPT/VP3137TV/V005	05/03/2014	Agency variation to implement changes introduced by IED.
Application EPR/XP3602PF/T001 (full transfer of permit EPR/VP3137TV)	Duly made 30/07/2019	Application to transfer the permit in full to Sharpsmart Limited.
Transfer determined EPR/XP3602PF	13/08/2019	Full transfer of permit complete.

Status log of the permit		
Description	**Date**	**Comments**
Notified of change of Registered Office address	18/09/2020	Registered Office address changed to Unit 1 Enterprise Point, Enterprise City, Meadowfield Avenue, Spennymoor, Durham, DL16 6JF.
Variation issued EPR/XP3602PF/V002	14/10/2020	Varied permit issued to Sharpsmart Limited.
Regulation 61 Notice sent to Operator	26/11/2020	Regulation 61 Notice requiring information for statutory review of permit.
Regulation 61 Notice response	10/03/2021	Response received from the operator.
Application EPR/XP3602PF/V003 (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.
Additional information received	25/01/2022	Response to request for further information.
Environment Agency Waste Treatment Sector Permit Review Variation determined EPR/XP3602PF/V003	14/12/2022	Varied and consolidated permit issued.
Application EPR/XP3602PF/V004 (variation and consolidation)	Duly made 17/07/2023	Application to: • Treat sharps by autoclave and compaction • Operate a larger natural gas fuelled steam-raising boiler – 3.95MWth • Add new activity of shredding and compaction for waste code 18 01 04 • Increase storage capacity from 40 tonnes to 80 tonnes
Additional information received	05/10/2023	Response to request for further information detailing information regarding decanting of metal wastes and abatement measures in place.
Application EPR/XP3602PF/V004 Substantial variation	03/06/2024	Varied and 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/XP3602PF

Issued to

Sharpsmart Limited ("the operator")

whose registered office is

Unit 1 Enterprise Point
Enterprise City
Meadowfield Avenue
Spennymoor
Durham
England
DL16 6JF

company registration number **04261387**

to operate a regulated facility at

Waste Transfer and Treatment Facility
Unit 1
Loscoe Close
Normanton Industrial Estate
Normanton
WF6 1TW

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

Name	Date
Maxine Evans	**03/06/2024**

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied as a result of the application made by the operator.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/XP3602PF

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/XP3602PF/V004 authorising,

Sharpsmart Limited ("the operator"),

whose registered office is

Unit 1 Enterprise Point
Enterprise City
Meadowfield Avenue
Spennymoor
Durham
England
DL16 6JF

company registration number **04261387**

to operate an installation and waste operations at

Waste Transfer and Treatment Facility
Unit 1
Loscoe Close
Normanton Industrial Estate
Normanton
WF6 1TW

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

Name	Date
Maxine Evans	**03/06/2024**

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 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR7) 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

(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 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.

3.5.5 The first monitoring measurements shall be carried out:

(a) within four months of the issue date of the permit or the date when the MCP is first put into operation, whichever is later.

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 by shredding of infectious waste prior to on-site treatment (AR2). R3 Recycling / reclamation of organic substances which are not used as solvents. D9 Physico-chemical treatment.	From treatment of infectious waste to storage of shredded waste prior to on-site treatment. All treatment shall take place within a building on an impermeable surface with sealed drainage. No more than 72 tonnes per day of infectious waste shall be shredded. Shredded waste shall be stored within fully enclosed, waterproof and leak-proof containers. The shredding of waste shall not change either the maximum storage times for waste on site or the amount that can be stored. There shall be no shredding of waste single use instruments. 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)(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 one of two autoclaves, including post-treatment compaction of treated floc. R3 Recycling / reclamation of organic substances which are not used as solvents. R4 Recycling / reclamation of metals and metal compounds (treatment of single-use instruments). D9 Physico-chemical treatment.	From treatment of waste to storage of treated floc. No more than 72 tonnes per day of infectious waste shall be treated. All treatment shall take place within a building on an impermeable surface with sealed drainage. The autoclave shall be operated in accordance with Note 1. Treated floc shall be stored within fully enclosed, waterproof and leak-proof containers for no longer than 7 days if outside, or for no longer than 14 days if stored in a building. No more than 80 tonnes of treated waste shall be stored on site at any one time. Waste will be treated to an unrecognisable, unusable condition and patient information destroyed. There shall be no compaction of waste single use instruments. All waste (including residues, condensate and effluent) resulting from the treatment of infectious waste contaminated with non-hazardous medicines must be sent for incineration.

Table S1.1 activities			
			No medicinally contaminated waste or effluent shall be discharged to sewer from this process. Aqueous effluent from the process shall be stored in leak-proof containers for no longer than 7 days within a building on an impermeable surface with sealed drainage. No waste types shall be submitted to this activity other than those infectious wastes specified in Schedule 2, Table S2.2.
AR3	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: • 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) • taking a waste package from a cart or bulk container (for example, skip) and placing it onto a pallet or vehicle Waste shall not be transferred, removed or separated from its primary packaging (for example bags, bins, boxes and blister packs). 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.
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 D 1 to D 14 (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 at any one time shall not exceed 80 tonnes. All hazardous waste shall be stored inside a building and on impermeable surfacing with sealed drainage. Waste shall not be stored in vehicles or vehicle trailers, unless 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). Infectious clinical waste shall be stored for no longer than 14 days. Pharmaceutical, chemical and palletised hazardous waste shall be stored securely within designated areas of the building. Refrigerated anatomical waste shall be stored for no longer than 14 days.

Table S1.1 activities			
			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 on site for no longer than 6 months: • non-infectious cytotoxic and cytostatic medicines • dental amalgam • other hazardous chemicals or other hazardous wastes 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. No waste types shall be submitted to this activity other than those hazardous wastes specified in Schedule 2, Table S2.3.
Note 1 The autoclaves shall only be operated: (i) at the time, temperature and pressure settings the plant was validated at (ii) for a total load weight of waste no greater than that proven during validation (iii) for waste types and where relevant quantities of each type proven during validation (iv) if it passes plant validation requirements, including repeated plant validation and routine efficacy monitoring (Table S3.4), as set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020.			
	Directly Associated Activity		
AR5	Steam and electrical power supply.	Gas-fired steam-raising boiler – net thermal input approximately 3.95 MWth.	Includes receipt of fuel and its storage. No fuel shall be used other than natural gas.
AR6	Raw material handling and storage.	Raw material handling and storage.	From receipt and storage to point of use.
AR7	Cleaning and disinfection of containers and carts.	Automated and contained bin wash system that washes and disinfects waste bins and carts.	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.

Waste Operations		
Activity reference	**Description of activities for waste operations**	**Limits of activities**
AR8	Repackaging of non-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: • 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) • taking a waste package from a cart or bulk container (for example, skip) and placing it onto a pallet or vehicle

		Waste shall not be transferred, removed or separated from its primary packaging (for example bags, bins, boxes and blister packs). Repackaging shall take place 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. 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. No waste types shall be submitted to this activity other than those non-hazardous wastes specified in Schedule 2, Table S2.3.
AR9	Storage of non-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 non-hazardous waste on site, to its treatment or repackaging on site; or its transfer off-site. The total amount of waste stored on site at any one time, including both hazardous and non-hazardous waste, shall not exceed 80 tonnes. Waste shall not be stored in vehicles or vehicle trailers, unless 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). 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. 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. Pharmaceutical, chemical and palletised hazardous waste shall be stored securely within designated areas of the building. The following non-hazardous waste types shall be stored on site for no longer than 6 months: • non-infectious, non-hazardous medicines • other non-hazardous chemicals or other non-hazardous wastes 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. No waste types shall be submitted to this activity other than those non-hazardous wastes specified in Schedule 2, Table S2.3.
AR10	Light compaction of non-hazardous offensive waste. R12 Exchange of waste for submission to any of the operations numbered R1 to R11.	From light compaction of waste to storage of compacted waste. No more than 10 tonnes per day of non-hazardous offensive waste shall be compacted. All compaction shall take place on an impermeable surface with sealed drainage.

	D14 Repackaging prior to submission to any of the operations numbered D1 to D13.	Compaction 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 non-hazardous wastes specified in Schedule 2, Table S2.4.
AR11	Treatment by shredding and compaction of non-hazardous offensive waste. R3 Recycling / reclamation of organic substances which are not used as solvents. D9 Physico-chemical treatment	From shredding and compaction of non-hazardous offensive waste to the storage of shredded/compacted waste. Maximum quantity of non-hazardous offensive waste subject to a treatment activity should not exceed 50 tonnes per day in total. All treatment shall take place within a building on an impermeable surface with sealed drainage. Shredded and compacted waste shall be stored within fully enclosed, waterproof and leak-proof containers. The shredding 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/infectious] wastes specified in Schedule 2, Table S2.4.
AR12	Treatment of non-hazardous offensive waste by batch thermal treatment in one of two autoclaves including post-treatment compaction of treated floc R3 Recycling / reclamation of organic substances which are not used as solvents. D9 Physico-chemical treatment.	Autoclaving of shredded non-hazardous offensive waste. Maximum quantity of non-hazardous waste subject to a treatment activity should not exceed 50 tonnes per day in total. The autoclaves shall be operated in accordance with Note 2. 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 7 days located on impermeable surfacing in a dedicated area of the external yard. No more than 80 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 non-hazardous wastes specified in Schedule 2, Table S2.4
Note 2 - The [autoclave(s)/hydroclaves(s) etc] shall only be operated: (i) at the treatment settings (e.g. time, temperature, pressure) the plant is currently validated for (ii) for a total load weight of waste no greater than that proven during validation for waste types and where relevant quantities of each type proven during validations		

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. Once the improvement condition has been approved or agreed as completed by the Environment Agency that improvement condition must comply with the Healthcare waste: appropriate measures guidance, published 13 July 2020	N/A

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1 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, dated 13 July 2020. The proposal must include the specification of the proposed infrastructure, an implementation plan, and timescales for implementation.	03/09/2024
	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, dated 13 July 2020.	03/06/2025
IC2 Energy efficiency plan	The operator shall create and implement an energy efficiency plan in accordance with our guidance Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020. A copy of the energy efficiency plan shall be submitted to the Environment Agency for approval.	03/03/2025
IC3 Waste pre-acceptance or acceptance procedures	The operator shall review and update their waste pre-acceptance and/or waste acceptance procedures to ensure that they meet the requirements of our guidance Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020. Specifically, but not limited to, they must demonstrate that the following appropriate measure(s) of the guidance will be met: Waste pre-acceptance, acceptance and waste tracking appropriate measures. A copy of the updated procedure(s) shall be submitted to the Environment Agency for approval.	04/08/2024
IC4 Updated emissions inventory and H1 (air and water)	The operator shall submit a written report to the Environment Agency for approval that proposes a monitoring programme to characterise and assess the facility's point source emissions to air and water (including sewer) in accordance with the Emissions monitoring and limits appropriate measures of technical guidance Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020.	Submission of written report proposing monitoring

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
	The report shall detail the parameters and substances that will be tested for, the monitoring methods and equipment that will be used, and a timetable for undertaking the monitoring. The monitoring programme shall be carried out as approved by the Environment Agency. A written report shall be submitted to the Environment Agency for approval detailing the results and conclusions of the emissions monitoring and assessment undertaken, including a completed H1 Environmental Risk Assessment and proposals for any ongoing monitoring or further assessment.	programme by 04/08/2024 Submission of subsequent written report detailing monitoring and assessment results by 03/12/2024
IC5 Autoclave extraction and abatement	The operator shall submit a written report to the Environment Agency for approval detailing the current extraction and abatement methods in place for the autoclaves on site, and a comparison with the requirements set out in Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020. If improvements are needed to meet the requirements of Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020; then proposed timescales must be provided detailing when they will be installed. You must implement the improvements as approved, and from the date stipulated by the Environment Agency.	03/02/2025
IC6 Washing of carts	The operator shall cease to clean carts by hand held jet washer or other non-official equipment. The replacement washer system must meet the requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020.	03/09/2024
IC7 Waste storage plan	The operator shall submit a waste storage plan, in accordance with the waste storage, segregation and handling appropriate measures of technical guidance Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020 to the Environment Agency for approval, which must clearly establish the maximum storage capacity of the site and the designated individual storage areas. You must define capacity in terms of numbers of carts, containers or pallets, as well as by tonnage. You must regularly monitor the quantity of stored waste on the site and designated areas to check against the allowed maximum capacity. The waste storage plan must also as a minimum state: - the maximum height of each storage pile on site - how you will separate different types of waste if required, for example how far apart you will keep waste types that cannot be mixed	03/03/2025
IC8 Site layout and emission points plan	The operator shall submit a site layout and emissions point plan to the Environment Agency for approval that clearly identifies existing point source emissions to air and discharges to sewer (showing the point at which the discharge is made to sewer, where it leaves the permit boundary and responsibility of the operator). The site plan must also show as a minimum:	03/09/2024

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
	- buildings, and other main constructions, like treatment plants, incinerators, storage silos and security fences - storage facilities for hazardous materials like oil and fuel tanks, chemical stores, waste materials - location of items for use in accidents and emergencies, like absorbents for chemical spills - entrances and exits that can be used by emergency services - points designed to control pollution, for example inspection or monitoring points - trade effluent or sewage effluent treatment plants - effluent discharge points - land that you believe is contaminated, for example areas of your site that have previously been used for industrial purposes.	
IC9 Odour management plan	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. Once the odour management plan has been agreed with the Environment Agency, the installation must be operated in accordance with this management plan.	03/12/2024

Table S1.4 Pre-operational measures		
Reference	**Operation**	**Pre-operational measures**
PO1	Shredding and thermal treatment of infectious waste contaminated with non-hazardous medicines (18 01 03* with 18 01 09).	The operator shall submit a written validation report to the Environment Agency for approval, that demonstrates and confirms: I. the treatment efficacy of the waste facility for the additional waste types (infectious waste contaminated with non-hazardous medicines (18 01 03* with 18 01 09)), in accordance with the Waste treatment appropriate measures of technical guidance Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020; II. the proposals for routine monitoring of treatment efficacy to comply with the Waste treatment appropriate measures of technical guidance Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020; III. the installation's emissions, in accordance with the Emissions monitoring and limits appropriate measures of technical guidance Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020; and IV. the proposals for routine monitoring of emissions comply with the Emissions monitoring and limits appropriate measures of technical guidance Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020. The treatment efficacy tests must take into account the range of permitted waste types that the plant may treat at

		the same time as the additional waste in question (18 01 03* with 18 01 09 infectious waste with non-hazardous medicines). Any alternative operating scenarios where the waste in question would be steam treated without first being shredded must also be fully assessed and validated in accordance with the waste treatment appropriate measures of technical guidance Healthcare waste: appropriate measures for permitted facilities (dated 13 July 2020) as part of this pre-operational measure prior to operation. The operation shall not be made operational until the Environment Agency has given prior written approval under this condition.
PO2	Shredding and thermal treatment of infectious waste contaminated with non-hazardous medicines (18 01 03* with 18 01 09)	The operator shall submit a written report to the Environment Agency for approval, that: I. proposes a sampling and testing programme for characterising and assessing emissions to air from the abatement systems of the shredder and autoclaves for total and speciated VOCs and dust; II. considers emissions resulting from both the treatment of waste contaminated with non-hazardous medicines (18 01 03* with 18 01 09) and waste not contaminated with non-hazardous medicines (18 01 03*); III. proposes measures to demonstrate that effective clean down occurs between processing of medicinally contaminated sharps and other waste; IV. proposes measures and a sampling and testing regime for demonstrating that pharmaceutically contaminated autoclave liquors or condensate is not discharged to sewer as a result of the treatment of medicinally contaminated waste (i.e. all pharmaceutically contaminated liquids from the treatment of medicinally contaminated sharps are captured for off-site disposal by incineration). No infectious waste contaminated with non-hazardous medicines shall be accepted for shredding and steam treatment unless the Environment Agency has given prior written approval under this condition.
PO3	Shredding and thermal treatment of infectious waste contaminated with non-hazardous medicines (18 01 03* with 18 01 09)	The operator shall submit to the Environment Agency for approval a copy of the written procedures that will be followed at the facility in order to ensure that relevant plant and equipment are cleaned between treatment cycles of waste contaminated with non-hazardous medicines and waste not contaminated with non-hazardous medicines. The operation shall not be made operational until the Environment Agency has given prior written approval under this condition.
PO4	Shredding and thermal treatment of non-hazardous offensive waste (AR11 and AR12)	The operator shall submit a written report the Environment Agency for approval, that demonstrates and confirmed: I. the installation's emissions, in accordance with the Emissions monitoring and limits appropriate measures of technical guidance Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020; and II. the proposals for routine monitoring of emissions comply with the Emissions monitoring and limits appropriate measures of technical guidance Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020.

		III. the measures to demonstrate that effective clean down occurs between processing of non-hazardous offensive waste and other wastes; IV. the process is an efficient use of energy and raw materials; V. the process does not impede waste recovery or recycling. No offensive waste shall be accepted for shredding and/or steam treatment unless the Environment Agency has given prior written approval under this condition.
PO5	Shredding of non-hazardous offensive waste (18 01 04) (AR12)	The operator shall submit to the Environment Agency for approval a copy of the written procedures that will be followed at the facility in order to ensure that relevant plant and equipment are cleaned and disinfected between treatment cycles of infectious waste and non-infectious offensive waste. The operation shall not be made operational until the Environment Agency has given prior written approval under this condition.

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 shredding and thermal treatment (AR1 and AR2)	
Maximum quantity	**The total quantity of waste accepted at the site shall not exceed 20,000 tonnes per annum for all activities.** **No more than 72 tonnes per day of infectious waste shall be treated under activities AR1 and AR2.**
Waste code	**Description**
18	**WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (EXCEPT KITCHEN AND RESTAURANT WASTES NOT ARISING FROM IMMEDIATE HEALTH CARE)**
18 01	**wastes from natal care, diagnosis, treatment or prevention of disease in humans**
18 01 03*	infectious waste, not contaminated with chemicals or medicines (Note 1) (Note 2)
18 01 03* with 18 01 09	Infectious waste, medically contaminated (not cytotoxic or cytostatic) (Note 2) (Note 3)
18 02	**wastes from research, diagnosis, treatment or prevention of disease involving animals**
18 02 02*	infectious waste, not contaminated with chemicals or medicines (Note 1)
20	**MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**
20 01	**separately collected fractions (except 15 01)**
20 01 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; 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 (unless autoclaved before leaving the site of production). Note 2: Single use instruments shall not be shredded, excluding sharps. Note 3: Entries duel-coded under 18 01 03* with 18 01 09 are limited to wastes received in yellow lidded, rigid yellow containers or yellow bags that are contaminated with non-hazardous medicines only and do not include other pharmaceutical contaminated wastes. These wastes shall not be subject to pre-shredding (AR1) and thermal treatment (AR2) until approval of PO1, PO2, and PO3.	

Table S2.3 Permitted waste types and quantities for repackaging (AR3 and AR8) and storage (AR4 and AR9)	
Maximum quantity	**The total quantity of waste accepted at the site shall not exceed 20,000 tonnes per annum for all activities.** **Combined storage capacity of hazardous / non-hazardous waste on site shall not exceed 80 tonnes at any one time under activities AR3, AR4, AR8 and AR9.**
Waste code	**Description**
09	**WASTES FROM THE PHOTOGRAPHIC INDUSTRY**
09 01	**wastes from the photographic industry**
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 06*	wastes containing silver from on-site treatment of photographic wastes
18	**WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (EXCEPT KITCHEN AND RESTAURANT WASTES NOT ARISING FROM IMMEDIATE HEALTH CARE)**
18 01	**wastes from natal care, diagnosis, treatment or prevention of disease in humans**
18 01 01	non-infectious sharps, not contaminated with chemicals or medicines
18 01 01 with 18 01 09	non-infectious sharps from vaccines delivered in mass vaccination centres, in the community and in care homes
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
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* with 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

Table S2.3 Permitted waste types and quantities for repackaging (AR3 and AR8) and storage (AR4 and AR9)	
Maximum quantity	**The total quantity of waste accepted at the site shall not exceed 20,000 tonnes per annum for all activities.** **Combined storage capacity of hazardous / non-hazardous waste on site shall not exceed 80 tonnes at any one time under activities AR3, AR4, AR8 and AR9.**
Waste code	**Description**
18 02	**wastes from research, diagnosis, treatment or prevention of disease involving animals**
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 infectious gypsum wastes (for example, plaster casts and moulds)
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 dangerous substances
18 02 06	chemicals other than those mentioned in 18 02 05
18 02 07*	cytotoxic and cytostatic medicines
18 02 08	other waste medicines, excluding cytotoxic and cytostatic
20	**MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**
20 01	**separately collected fractions (except 15 01)**
20 01 29*	detergents containing dangerous substances
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 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)

Table S2.4 Permitted waste types and quantities for light compaction, shredding and thermal treatment (AR10, AR11 and AR12)	
Maximum quantity	**Treatment of non-hazardous waste shall not exceed 50 tonnes per day in total. With no more than 10 tonnes per day treated under activity AR10.**
Waste code	**Description**
18	**WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (EXCEPT KITCHEN AND RESTAURANT WASTES NOT ARISING FROM IMMEDIATE HEALTH CARE)**
18 01	**wastes from natal care, diagnosis, treatment or prevention of disease in humans**
18 01 04	non-infectious offensive waste – human healthcare

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 (including unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
A1 Emission point A1 Emission point location to be confirmed under IC8	Boiler plant exhaust New MCP	Oxides of Nitrogen (NO and NO2 expressed as NO2)	100mg/Nm^3	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 16 February 2021	Annually	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 16 February 2021
	Boiler plant exhaust New MCP	Carbon monoxide	No Limit set	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 16 February 2021	Annually	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 16 February 2021
A2 Emission point A1 Emission point location to be confirmed under IC8	Emission from the abatement plant serving the shredder (HEPA filter and carbon filter)	Bacillus spores	1000 cfu per cubic metre (Note 1)	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020	Annually	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020
		Particulate matter	5 mg per cubic metre (Note 2)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 3)	BS EN 13284-1
		Total volatile organic compounds (TVOC)	30 mg per cubic metre (Note 2)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 3)	BS EN 12619
A3 Emission point A1 Emission point location to be confirmed under IC8	Emission point from the abatement plant serving	Bacillus spores	1000 cfu per cubic metre (Note 1)	In accordance with requirements set out in Healthcare waste: appropriate measures for	Annually	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted

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**
	the autoclave (Note 4)			permitted facilities dated 13 July 2020		facilities dated 13 July 2020
		Total volatile organic compounds (TVOC)	30 mg per cubic metre (Note 2)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 3)	BS EN 12619
		Particulate matter	5 mg per cubic metre (Note 2)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 3)	BS EN 13284-1
Note 1: These units relate to the overall monitoring period so the colony-forming units (cfu) benchmark applies to each individual sample of air or water to be taken, with a calculation made to report the results per cubic metre or litre. These are based on a seeding does of $1x10^6$ spores per gram of waste load and would need to be adjusted if the seed dose were higher or lower. The units of the limit (per cubic metre) relate to the overall monitoring period so the limit applies to each individual sample of air, with a calculation made to report the result per cubic metre. Note 2: This limit, or an alternative limit agreed in writing with Environment Agency following completion of IC4, is applicable. Note 3: An alternative monitoring frequency may be agreed in writing with Environment Agency following completion of IC4. Note 4: Following completion of IC5 the abatement shall include any additional abatement determined to be necessary.						

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 Emission point location to be confirmed under IC8	Effluent discharge consisting of condensate from autoclaves, waste compactor run-off and bin wash effluent	Bacillus Spores (spiked organisms)	300 cfu per litre (Note 1)	-	Annually	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020
		Any additional monitoring to be agreed in writing following completion of Improvement condition IC4.				
Note 1: These units relate to the overall monitoring period so the colony-forming units (cfu) benchmark applies to each individual sample of air or water to be taken, with a calculation made to report the results per cubic metre or litre. These are based on a seeding does of $1x10^6$ spores per gram of waste load, and						

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**
would need to be adjusted if the seed dose were higher or lower. These units relate to the overall monitoring period so the cfu limit applies to each individual sample of water taken, with a calculation made to report the result per litre.						

Table S3.3 Fugitive microbial emissions monitoring (spiked organisms)				
Emission point ref. & location	**Parameter**	**Limit (incl. unit)**	**Monitoring frequency**	**Monitoring standard or method**
Air – sample points <10 m from the treatment plant	Bacillus Spores	1,000 cfu per cubic metre (Note 1)	Annually	Note 2
Air – sample points >10 m from the treatment plant	Bacillus Spores	300 cfu per cubic metre (Note 1)	Annually	Note 2
Surface – sample point <10 m from the treatment plant	Bacillus Spores	20,000 cfu per square metre per hour (Note 1)	Annually	Note 2
Surface – sample point >10 m from the treatment plant	Bacillus Spores	5,000 cfu per square metre per hour (Note 1)	Annually	Note 2

Note 1: These units relate to the overall monitoring period so the cfu benchmark applies to:

- each individual sample of air taken, with a calculation made to report the result per cubic metre.
- 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).

The limit is based on a seeding dose of 1×10^6 spores per gram of waste load. You should adjust it accordingly if you use a higher or lower seeding dose.
The units relate to the overall monitoring period so the cfu limit applies to each individual:

- sample of air – a calculation is made to report the result per cubic metre.
- 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 4).

Note 2: In accordance with Emissions monitoring and limits appropriate measures of Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020.

Table S3.4 Process monitoring requirements				
Emission point reference or source or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
Steam treatment of infectious waste autoclaves	Treatment efficacy (routine 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: • periodically, at intervals of 4 years or less during the operational life of the plant and if: • any process parameters or conditions change from those assessed and approved during plant commissioning or plant validation • any changes are made to plant design or engineering • 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 the plant fails routine treatment efficacy monitoring		Results of repeated plant validation shall be submitted to the Environment Agency for approval.

Schedule 4 – Reporting

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

Table S4.1 Reporting of monitoring data			
Parameter	**Emission or monitoring point/reference**	**Reporting period**	**First period begins**
Emissions to air Parameters as required by condition 3.5.1	A1, A2, A3	Annually	1 January
Emissions to sewer Parameters as required by condition 3.5.1	S1	Annually	1 January
Fugitive microbial emissions 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 in autoclaves	Quarterly	1 January
Repeated plant validation Parameters as required by condition 3.5.1	Steam treatment of waste in autoclaves	Every 4 years or less, as required by table S3.4	1 January

Table S4.2 Annual production/treatment	
Parameter	**Units**
Hazardous waste thermally treated	tonnes
Treated floc produced	tonnes

Table S4.3 Performance parameters		
Parameter	**Frequency of assessment**	**Units**
Water usage	Annually	tonnes
Energy usage	Annually	MWh
Total raw material used	Annually	tonnes

Table S4.4 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Emissions to air	Form air 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Fugitive microbial emissions	Form Microbial 1 or other form as agreed in writing by the Environment Agency	17/06/2021

Table S4.4 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Emissions to Sewer	Form Sewer 1 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
Treatment 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	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	**Notification period**

(c) Notification requirements for the breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
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.	

(d) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	

Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

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

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

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

“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.

“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 lll 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.

“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.

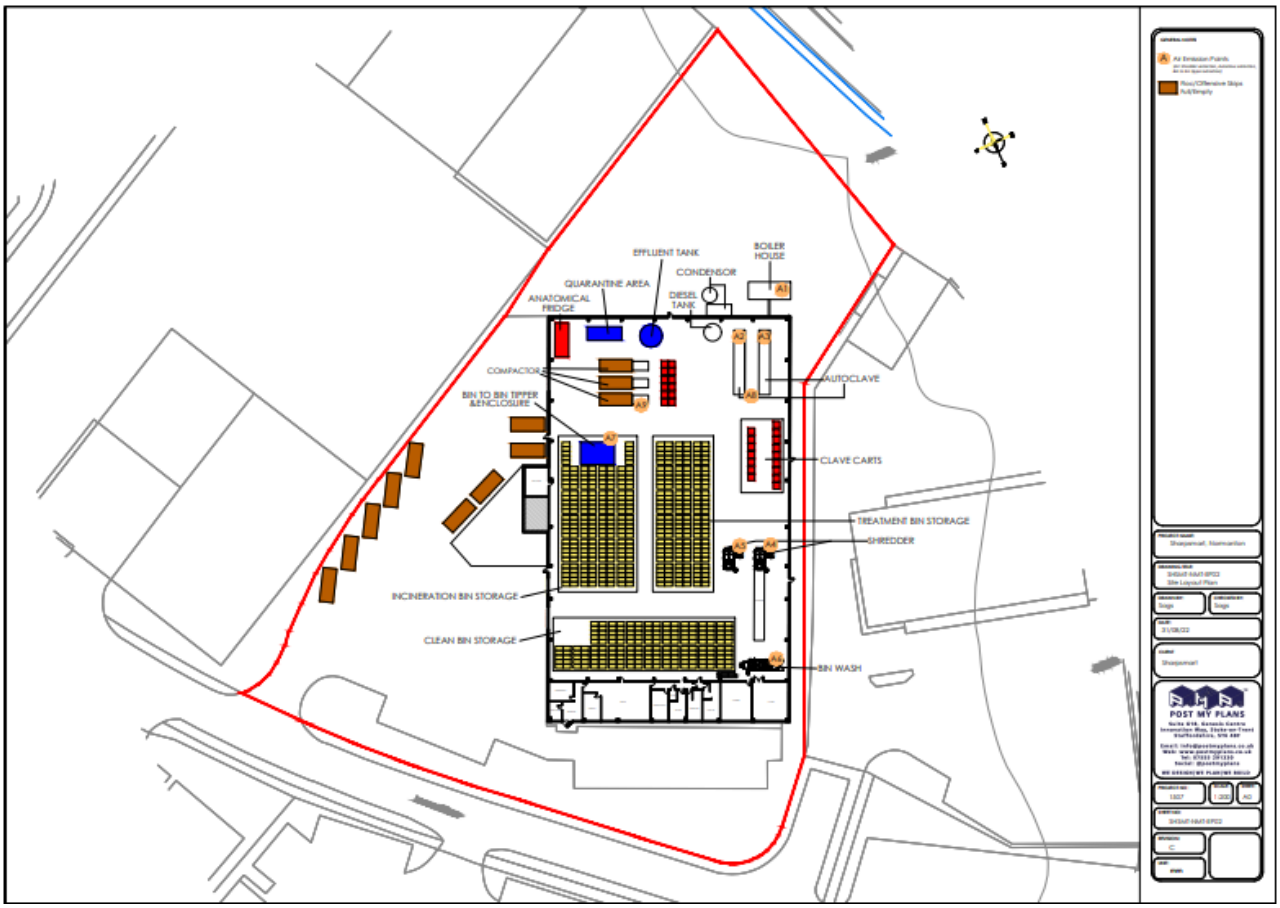
“year” means calendar year ending 31 December.

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.

Schedule 7 – Site plan



END OF PERMIT

Emissions to Air Reporting Form

Permit number: *[EPR/AB1234CB]*

Operator: *[A Company Name Limited]*

Facility name: *[Unit A, Anytown]*

Emissions to Air Reporting Form: version 1, 08/03/2021

Reporting of emissions to air for the period from *[DD/MM/YY]* to *[DD/MM/YY]*

Emission point	Substance / parameter	Emission Limit Value	Reference period	Test method [1]	Result [2]	Sample dates and times [3]	Uncertainty [4]
[e.g. A1]	*[e.g. Oxides of nitrogen (NO and NO_2 expressed as NO_2)]*	*[e.g. 200 mg/m^3]*	*[e.g. daily average]*	*[e.g. BS EN 14181]*	*[State result]*	*[State relevant dates and time periods]*	*[State uncertainty if not 95% confidence interval]*

Signed: *[Name]* **Date:** *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.
Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

[1] Where an internationally recognised standard test method is used, give the reference number. Where another method that has been formally agreed with the Environment Agency, give the appropriate identifier. In other cases state the principal technique, for example gas chromatography.
[2] Give the result as the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, give the result as the 'minimum to maximum' of the measured values.
[3] For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.
[4] Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

Emissions to Sewer Reporting Form

Permit number: *[EPR/AB1234CB]*

Operator: *[A Company Name Limited]*

Facility name: *[Unit A, Anytown]*

Emissions to Sewer Reporting Form: version 1, 08/03/2021

Reporting of emissions to sewer for the period from *[DD/MM/YY]* to *[DD/MM/YY]*

Emission point	Substance / parameter	Emission Limit Value	Reference period	Test method [1]	Result [2]	Sample dates and times [3]	Uncertainty [4]
[e.g. S1]	*[e.g. Total suspended solids]*	*[e.g. 30 mg/l]*	*[e.g. For 95% of all measured values of periodic samples taken over one month]*	*[e.g. BS EN 872:2005]*	*[State result]*	*[State relevant dates and time periods]*	*[State uncertainty if not 95% confidence interval]*

Emission point	Substance / parameter	Emission Limit Value	Reference period	Test method [1]	Result [2]	Sample dates and times [3]	Uncertainty [4]

Signed: *[Name]* **Date:** *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.
Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

[1] Where an internationally recognised standard test method is used, give the reference number. Where another method that has been formally agreed with the Environment Agency, give the appropriate identifier. In other cases state the principal technique, for example gas chromatography.
[2] Give the result as the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, give the result as the 'minimum to maximum' of the measured values.
[3] For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.
[4] Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

Fugitive Microbial Emissions Reporting Form

Permit number: *[EPR/AB1234CB]* **Operator:** *[A Company Name Limited]*

Facility name: *[Unit A, Anytown]* **Bioaerosol Emissions Reporting Form: version 1, 17/06/2021**

Reporting of bioaerosol emissions for the period from *[DD/MM/YY]* to *[DD/MM/YY]*

Emission point	Substance / parameter	Emission Limit Value	Reference period	Test method	Result [1]	Sample dates and times [2]	Uncertainty [3]
Air – sample points <10 m from the treatment plant	Bacillus Spores	1,000 cfu per cubic metre	-	In accordance with Emissions monitoring and limits appropriate measures of Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020	*[State result]*	*[State relevant dates and time periods]*	*[State uncertainty if not 95% confidence interval]*
Air – sample points >10 m from the treatment plant	Bacillus Spores	300 cfu per cubic metre	-	In accordance with Emissions monitoring and limits appropriate measures of Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020	*[State result]*	*[State relevant dates and time periods]*	*[State uncertainty if not 95% confidence interval]*

Emission point	Substance / parameter	Emission Limit Value	Reference period	Test method	Result [1]	Sample dates and times [2]	Uncertainty [3]
Surface – sample points <10 m from the treatment plant	Bacillus Spores	20,000 cfu per square metre per hour	-	In accordance with Emissions monitoring and limits appropriate measures of Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020	*[State result]*	*[State relevant dates and time periods]*	*[State uncertainty if not 95% confidence interval]*
Surface – sample points >10 m from the treatment plant	Bacillus Spores	5,000 cfu per square metre per hour	-	In accordance with Emissions monitoring and limits appropriate measures of Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020	*[State result]*	*[State relevant dates and time periods]*	*[State uncertainty if not 95% confidence interval]*

Signed: *[Name]* **Date:** *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.
Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

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

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

[3] Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

Water Usage
Reporting Form

Permit number: *[EPR/AB1234CB]*

Operator: *[A Company Name Limited]*

Facility name: *[Unit A, Anytown]*

Water Usage Reporting Form: version 1, 08/03/2021

Reporting of water usage for the year *[YYYY]*

Water source	Water usage (m^3)	Specific water usage (m^3/unit) [1]
Mains water	*[insert annual usage in m^3 where mains water is used]*	*[insert annual usage in m^3/unit where mains water is used]*
Site borehole	*[insert annual usage in m^3 where water is used from a site borehole]*	*[insert annual usage in m^3/unit where water is used from a site borehole]*
River abstraction	*[insert annual usage in m^3 where abstracted river water is used]*	*[insert annual usage in m^3/unit where abstracted river water is used]*
Other – *[specify other water source where applicable. Add extra rows where needed]*	*[insert annual usage in m^3 where applicable]*	*[insert annual usage in m^3/unit where applicable]*
Total water usage	*[insert total annual water usage in m^3]*	*[insert total annual water usage in m^3/unit]*

Operator's comments

Operator's comments

Signed: *[Name]* **Date:** *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your annual water usage.
Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Add additional rows as necessary.
[1] Divide water use by an appropriate unit of raw material processed, product output or waste treated.

Energy Usage Reporting Form

Permit number: *[EPR/AB1234CB]*

Operator: *[A Company Name Limited]*

Facility name: *[Unit A, Anytown]*

Energy Usage Reporting Form: version 1, 08/03/2021

Reporting of energy usage for the year *[YYYY]*

Energy source	Energy consumption / production (MWh)	Specific energy consumption (MWh/unit) [2]
Electricity imported as delivered - source [specify source, e.g. supplied from the national grid]	*[insert annual consumption in MWh where electricity is imported]*	*[insert annual consumption in MWh/unit where electricity is imported]*
Electricity imported as primary energy [1] – conversion factor of [specify conversion factor used to convert electricity delivered to primary energy]	*[insert annual consumption in MWh where electricity is imported]*	*[insert annual consumption in MWh/unit where electricity is imported]*
Natural gas	*[insert annual consumption in MWh where natural gas is used]*	*[insert annual consumption in MWh/unit where natural gas is used]*
Gas oil – conversion factor of [specify conversion factor used to convert tonnes to MWh]	*[insert annual consumption in MWh where gas oil is used]*	*[insert annual consumption in MWh/unit where gas oil is used]*
Imported heat	*[insert annual consumption in MWh where heat is imported]*	*[insert annual consumption in MWh/unit where heat is imported]*
Other – *[specify other energy source and conversion factors where applicable, e.g. renewable fuel. Add extra rows where needed]*	*[insert annual consumption in MWh where applicable]*	*[insert annual consumption in MWh/unit where applicable]*
Electricity exported	*[insert annual production in MWh where electricity is exported]*	Not applicable
Heat exported	*[insert annual production in MWh where heat is exported]*	Not applicable

Operator's comments

Signed: *[Name]* **Date:** *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your annual energy usage.
Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Add additional rows as necessary.

[2] Multiply delivered electricity by 2.4 to convert to primary energy where the electricity is supplied from the national grid. If the electricity is supplied from another source, specify the conversion factor used. Add additional rows as needed if electricity is imported from multiple sources.
[3] Divide energy consumption by an appropriate unit of raw material processed, product output or waste treated.

Other Performance Parameters Reporting Form

Permit number: *[EPR/AB1234CB]* **Operator:** *[A Company Name Limited]*

Facility name: *[Unit A, Anytown]* **Other Performance Parameters Reporting Form: version 1, 08/03/2021**

Reporting of other performance parameters for the period from *[DD/MM/YY]* to *[DD/MM/YY]*

Annual production/treatment

Parameter	Units
[e.g. Hazardous waste thermally treated]	*[e.g. tonnes]*

Performance parameters

Parameter	Units
[e.g. Total raw material usage]	*[e.g. tonnes per production unit]*

Operator's comments

Signed: *[Name]* **Date:** *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report the performance parameters (other than water and energy) required by your permit.
Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. The parameters to report and units to be used can be found in the 'Performance parameters' table in schedule 4 of your permit. Add additional rows as necessary.