Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Sharpsmart Limited

Rainham Clinical Treatment Centre
Unit 21
Barlow Way
Rainham
Essex
RM13 8BT

Variation application number

EPR/PP3707BB/V005

Permit number

EPR/PP3707BB

Rainham Clinical Treatment Centre
Permit number EPR/PP3707BB

Introductory note

This introductory note does not form a part of the notice

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. Only the variations specified in schedule 1 are subject to a right of appeal. All the conditions of the permit have been varied and are subject to the right of appeal.

The variation is for:

- Add a second shredder, with local exhaust ventilation (A6), increasing the shredding capacity to 70 tonnes per day.
- Replace the rotoclaves with single larger autoclave increasing capacity to 70 tonnes per day. The new autoclave will have filtered local exhaust ventilation (A7) around the loading.
- Increase capacity of Sharps bin wash plant, repackaging/bulking of emptied sharps to 50 tonnes per day
- Increase in storage capacity of non-hazardous waste to 75 tonnes.

Brief description of the process

The regulated facility comprises:

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

The steam disinfection plant consists of two pre-shredders, a single autoclave, compaction and storage of treated floc, and pollution abatement equipment. Waste is shredded under negative pressure before transfer to the treatment chamber where a combination of heat, moisture and residence time is sufficient to disinfect the waste to produce a waste floc. LEV captures air from the charging area, filtered and emission via emission point A2. Steam is supplied to the autoclave from the LPG-fired steam raising plant, which is considered a medium combustion plant.

Off-gases from the autoclaves are cooled in a condenser with the resulting water being discharged to foul sewer (wastes from 18 01 03* orange bags) or sent for incineration if it has resulted from the treatment of waste contaminated with non-hazardous medicines (18 01 03/09*). All treated wastes (autoclave floc and compacted offensive waste) are removed from site.

The abatement system that serves the autoclaves and shredder is comprised of a high efficiency particulate air (HEPA) filter and carbon filter. These are designed to remove any infectious bio-aerosols, excess moisture and any residual organic compounds and odours from the off-gases before their release to atmosphere.

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/EP3597LU/A001 (EAWML 101162)	Duly made 03/09/2009	-
Permit determined EPR/EP3597LU	04/11/2009	-
Application EPR/EP3597LU/V002	Duly made 14/04/2010	Variation to increase treatment capacity.
Variation determined EPR/EP3597LU/V002	19/08/2010	Varied permit issued.
Application EPR/EP3597LU/V003	Duly made 13/05/2013	Variation to change the main fuel type and add a waste code.
Schedule 5 Notice	09/07/2013	Further information regarding the treatment of 18 01 04 waste.
Variation determined EPR/EP3597LU/V003	04/09/2013	Varied permit issued.
Application EPR/EP3587LU/V004 (variation and consolidation)	Duly made 02/04/2015	Application to vary the permit to increase annual throughput and conduct shredding before autoclaving. The variation will also update the permit to modern conditions.
Variation determined EPR/EP3597LU/V004	08/06/2015	Varied and consolidated permit issued in modern condition format.
Application EPR/PP3707BB/T001 (full transfer of permit EPR/EP3597LU)	Duly made 02/03/2020	Application to transfer the permit in full to Sharpsmart Limited.
Transfer and Environment Agency variation determined EPR/PP3707BB	31/03/2020	Full transfer and Environment Agency initiated variation of permit complete.
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/PP3707BB/V002	14/10/2020	Varied permit issued to Sharpsmart Limited.
Application EPR/PP3707BB/V003	Duly made 30/10/2020	Application to vary the permit to add sharps bin wash plant, new boiler, treatment of additional infectious wastes, shredding of non-hazardous offensive waste.
Response to Schedule 5 Notice dated 04/12/2020	Response received 15/01/2021	Further information regarding air emissions risk assessment, operation of wash plant, treatment of infectious waste contaminated with non-hazardous medicines and single use instruments,

Status log of the permit		
Description	**Date**	**Comments**
		shredding of offensive waste, site capacities and odour management plan.
Additional information received by email	Received 11/02/2021	Risk assessment, risk control plan and letter from Health & Safety Laboratory regarding wash plant.
Response to Schedule 5 Notice dated 08/02/2021	Response received 18/02/2021	Further information regarding site plan, operation of wash plant, treatment of infectious waste contaminated with non-hazardous medicines and single use instruments, shredding of offensive waste and waste storage times.
Variation determined EPR/PP3707BB/V003	24/03/2021	Varied permit issued.
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 (variation and consolidation) EPR/PP3707BB/V004	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	22/04/2022	Response to request for further information.
Environment Agency Waste Treatment Sector Review Permit reviewed Variation determined EPR/PP3707BB/V004	14/12/2022	Varied and consolidated permit issued.
Application EPR/PP3707BB/V005	Duly made 02/04/2024	Application to vary permit
Variation issued EPR/PP3707BB/V005	26/06/2024	Varied and consolidated permit issued

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

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

Permit number

EPR/PP3707BB

Issued to

Sharpsmart Limited ("the operator")

whose registered office is

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

company registration number **04261387**

to operate regulated facilities at

Rainham Clinical Treatment Centre
Unit 21
Barlow Way
Rainham
Essex
RM13 8BT

to the extent set out in the schedules.

The notice shall take effect from 26/06/2024

Name	Date
Daniel Timney	**26/06/2024**

Authorised on behalf of the Environment Agency

Schedule 1

Only conditions:

- Table S1.1
- Table S1.2
- Table S1.3
- Table S2.2
- Table S2.3
- Table S2.4
- Table S2.5
- Table S3.1
- Table S4.1
- Site plan in schedule 7

have been varied by the consolidated permit EPR/PP3707BB 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/PP3707BB

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/PP3707BB/V005 authorising,

Sharpsmart Limited ("the operator"),

whose registered office is

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

company registration number **04261387**

to operate an installation and waste operations at

Rainham Clinical Treatment Centre
Unit 21
Barlow Way
Rainham
Essex
RM13 8BT

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

Name	Date
Daniel Timney	**26/06/2024**

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 AR8) 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 AR8) 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 AR8) waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

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

2.3 Operating techniques

2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.

2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.

2.3.4 Waste shall only be accepted if:

(a) it is of a type and quantity listed in schedule 2 tables S2.2, S2.3, S2.4 and S2.5; and

(b) it conforms to the description in the documentation supplied by the producer and holder.

2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:

(a) the nature of the process producing the waste;

(b) the composition of the waste;

(c) the handling requirements of the waste;

(d) the hazardous property associated with the waste, if applicable; and

(e) the waste code of the waste.

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

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

2.4 Improvement programme

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

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

2.5 Pre-operational conditions

2.5.1 The operations specified in schedule 1 table S1.4 shall not commence until the measures specified in that table have been completed.

3 Emissions and monitoring

3.1 Emissions to water, air or land

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

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

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

3.1.4 For the following activities referenced in schedule 1, table S1.1 (AR6) the first monitoring measurements shall be carried out within four months of the issue date of the permit or of the date when the MCP is first put into operation, whichever is later.

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.

3.4 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.

3.6 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 AR8) 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 70 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 an autoclave 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 waste. All treatment shall take place within a building on an impermeable surface with sealed drainage. No more than 70 tonnes per day of infectious waste shall be treated. The autoclaves shall be operated in accordance with Note 1. Treated waste 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. A total of no more than 75 tonnes (5 container skips, excluding the compactor skips in use) of treated and compacted waste (autoclave floc and offensive waste resulting from AR1, AR9 and AR10) shall be stored on site at any one time. If stored outside, the waste shall be stored in enclosed and sealed skip containers located on impermeable surfacing in a dedicated area of the external yard. If stored within a building, shredded and compacted waste shall be stored within fully enclosed, waterproof and leak-proof containers.

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**
			Waste will be treated to an unrecognisable, unusable condition and patient information destroyed. All waste (including residues, condensate and effluent) resulting from the treatment of waste contaminated with non-hazardous medicines must be sent for incineration. 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.	Operation of sharps bin wash plant and repackaging (bulking) of emptied sharps. 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.	From repackaging of waste to storage of repackaged waste, washing and disinfection of empty packages and disposal of washings to sewer. Waste may only be removed from its original packaging if it has been designed to be re-used. Repackaging shall take place within a building on an impermeable surface with sealed drainage. The maximum quantity of sharps bin waste treated through the wash plant shall not exceed 50 tonnes per day. Washing and disinfection of reusable sharps bins and repackaging of wastes shall take place within a building on an impermeable surface with sealed drainage. Repackaging of waste shall not change either the maximum storage times for waste on site or the amount that can be stored. No waste types shall be submitted to this activity other than those hazardous wastes specified in Schedule 2, Table S2.3.
AR4	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.	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)

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**
		D14 Repackaging prior to submission to any of the operations numbered D1 to D13.	and placing it onto a pallet or vehicle. 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 S2.4.
AR5	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 hazardous stored on site at any one time shall not exceed 55 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, anatomical 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. 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

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**
			wastes specified in Schedule 2, Table S2.4.
	Directly Associated Activity		
AR6	Steam supply, used by autoclave of activity AR2.	Medium combustion plant comprising 1 x 2.5 MWth liquefied petroleum gas (LPG) fired boiler.	From receipt of LPG to emissions of combustion gases and supply of steam for on-site consumption only. No fuel shall be used other than LPG.
AR7	Cleaning and disinfection of containers and carts.	Automated and contained bin wash facility that cleans and disinfects.	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.
AR8	Raw material handling and storage.	Raw material handling and storage.	From receipt and storage to point of use.
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.			

Waste Operations		
Activity reference	**Description of activities for waste operations**	**Limits of activities**
AR9	Treatment by shredding and compaction of non-infectious offensive waste. R3 Recycling / reclamation of organic substances which are not used as solvents. D9 Physico-chemical treatment.	From shredding and compaction of waste to storage of shredded/compacted waste. Prior to treatment, all waste must be stored inside a building and for no longer than 14 days. 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. No more than 24 tonnes per day of offensive waste shall be shredded and compacted. Waste shall be shredded inside a building, using an enclosed and abated shredder with HEPA and carbon filters. Compaction of waste shall be undertaken within an enclosed and sealed compaction skip, on an impermeable surface with sealed drainage. The shredding/compaction of offensive waste shall only be carried out when it is necessary for site contingency, as an alternative to the compaction of bagged offensive waste (activity AR10). A total of no more than 75 tonnes (5 container skips, excluding the compactor skips in use) of treated and compacted waste (autoclave floc and offensive waste resulting from AR1, AR2, AR9 and AR10) shall be stored on site at any one time. If stored

Waste Operations		
Activity reference	**Description of activities for waste operations**	**Limits of activities**
		outside, the waste shall be stored in enclosed and sealed skip containers located on impermeable surfacing in a dedicated area of the external yard. If stored within a building, shredded and compacted waste shall be stored within fully enclosed, waterproof and leak-proof containers. The shredding or compaction of waste shall not change either the maximum storage times for waste on site or the amount that can be stored. The aggregated maximum quantity of non-hazardous waste treated for disposal on site shall not exceed 50 tonnes per day. 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 S2.5.
AR10	Light compaction of non-infectious offensive 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.	From light compaction of waste to storage of compacted waste. Compaction of waste shall be undertaken within an enclosed and sealed compaction skip, on an impermeable surface with sealed drainage. Sealed containers shall be kept locked when not being emptied. A total of no more than 75 tonnes (5 container skips, excluding the compactor skips in use) of treated and compacted waste (autoclave floc and offensive waste resulting from AR1, AR2, AR9 and AR10) shall be stored on site at any one time. If stored outside, the waste shall be stored in enclosed and sealed skip containers located on impermeable surfacing in a dedicated area of the external yard. If stored within a building, shredded and compacted waste shall be stored within fully enclosed, waterproof and leak-proof containers. No more than 24 tonnes per day of offensive waste shall be compacted. 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. Compaction of waste shall not change either the maximum storage times for waste on site or the amount that can be stored. The aggregated maximum quantity of non-hazardous waste treated for disposal on site shall not exceed 50 tonnes per day. No waste types shall be submitted to this activity other than those non-hazardous wastes specified in Schedule 2, Table S2.5.
AR11	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	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 Operations		
Activity reference	**Description of activities for waste operations**	**Limits of activities**
	operations numbered D1 to D13.	• transferring, removing or separating waste from its primary packaging into another container Other than waste received in reusable sharps bins that are emptied and cleaned for re-use, 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. Repackaging shall take place within a building on an impermeable surface with sealed drainage. 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 S2.4.
AR12	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 non-hazardous waste stored on site at any one time shall not exceed 75 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). 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 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 S2.4.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Variation application EPR/PP3707BB/V003	Appendix G: BAT Assessment - sections 2, 3 and 4 Appendix H: Accident management plan - Risk Assessment and Emergency Plan	30/10/2020
Variation application EPR/PP3707BB/V003 further information (response to Schedule 5 notice)	Response to questions: 2e, 2g - regarding operation of wash plant; 3a, 3c, 3d, 3g - regarding treatment of medicinally contaminated wastes; 4a, 4c - regarding treatment of single use instruments; 5b, 5d - regarding shredding of offensive waste	15/01/2021
Variation application EPR/PP3707BB/V003 further information (response to Schedule 5 notice)	Response to questions: 4 - regarding treatment of medicinally contaminated wastes 5 - regarding disposal of wash water effluent 6 - regarding cleaning of autoclaves 7 - regarding single use instruments 9 - regarding cleaning of shredder	18/02/2021
Variation application EPR/PP3707BB/V005	Supporting Statement - section 1.4 Odour management plan	02/04/2024
Healthcare waste: appropriate measures for permitted facilities Version published 13 July 2020	All parts of the appropriate measures guidance shall apply other than: Those parts to which an improvement programme requirement applies in Table S1.3 and until the agreed completion date for that improvement.	N/A

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1	The operator shall provide the Environment Agency with a written report for approval on the emissions monitoring and assessment required by table S3.1 and pre-operational condition PO3. The report shall detail the monitoring undertaken and the results and conclusions obtained from it, specifically: I. the composition of the monitored emissions; II. an assessment of the potential environmental impact of any chemical emissions resulting from the treatment of medicinally contaminated wastes (following our H1 risk assessment methodology, unless an alternative is agreed) and a comparison to relevant emission limits provided in technical guidance; III. an assessment of the effectiveness of the control measures in place to prevent and minimise emissions to air; IV. the proposal of any additional appropriate measures or improvements that could be implemented to prevent or minimise emissions further. Based upon the monitoring undertaken, the operator shall also propose emission limits (or 'benchmarks') for ongoing emissions monitoring of the treatment process in accordance with the Emissions monitoring and limits appropriate measures of technical guidance Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020.	Within 6 months of the commencement of treatment of waste contaminated with non-hazardous medicines (18 01 03* with 18 01 09)
IC2	The operator shall submit a written report to the Environment Agency for approval that includes the results of an updated assessment of the impact of any sanitary or hazardous pollutants in the facility's emissions to sewer using the Environment Agency's 'H1 Environmental Risk Assessment' tool (or equivalent as agreed with the Environment Agency). A monitoring and assessment plan shall be submitted to the Environment Agency for approval prior to commencing testing. The monitoring and assessment shall be undertaken 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 shall be undertaken when all relevant plant that produce a process effluent are fully operational (i.e. boiler, wash plant, shredder and autoclaves).	Within 6 months of the commencement of treatment of waste 18 01 03*
IC3	The operator shall carry out a review of the raw material, water and energy usage of the facility, including new and existing activities and plant against the Process efficiency appropriate measures of technical guidance Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020. The operator shall submit a written report (or reports) to the Environment Agency for approval, detailing the findings of the review and including a timetable for implementing any recommendations or improvements.	31/12/2024
IC4 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. Specifically, 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.	Completed
IC5 Updated emissions inventory	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	Submission of written report proposing monitoring programme by

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
and H1 (air and water)	for permitted facilities, dated 13 July 2020. 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 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.	2 months from issue of variation notice V005 Submission of subsequent written report detailing monitoring and assessment results by 6 months from issue of variation notice V005.
IC6 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.	Completed
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 designated storage areas and you must not exceed these maximum capacities. 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	30/09/2024
IC8 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.	Completed

Table S1.4 Pre-operational measures		
Reference	**Operation**	**Pre-operational measures**
PO1	Steam treatment of infectious waste single use instruments in Table S2.2 (18 01 03*)	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 single use instruments (18 01 03*)), in accordance with the

Table S1.4 Pre-operational measures		
Reference	**Operation**	**Pre-operational measures**
		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 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 an 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* single use instruments). The operation shall not be made operational until the Environment Agency has given prior written approval under this condition.
PO2	Shredding and steam treatment of infectious waste contaminated with non-hazardous medicines (18 01 03* with 18 01 09), alone or with other permitted types of waste.	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 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

Table S1.4 Pre-operational measures		
Reference	**Operation**	**Pre-operational measures**
		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.
PO3	Shredding and steam treatment of 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 medicinally contaminated waste shall be accepted for shredding and/or steam treatment unless the Environment Agency has given prior written approval under this condition.
PO4	Shredding and/or autoclaving of 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.
PO5	Shredding of non-hazardous offensive waste (18 01 04)	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.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	**Specification**
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Table S2.2 Permitted waste types and quantities for pre-shredding and thermal treatment of hazardous waste (AR1 and AR2)	
Maximum quantity	**The total quantity of wastes accepted at the site shall not exceed 60,000 tonnes per year.** **The maximum amount of hazardous waste treated via pre-shredding and thermal treatment per annum shall be less than 25,550 tonnes.** **No more than 70 tonnes per day of infectious waste shall be shredded.** **No more than 70 tonnes per day of infectious waste shall be subject to thermal treatment via the autoclaves.**
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 (including single-use medical instruments) (Note 1) (Note 2)
18 01 03* and 18 01 09	infectious waste, medicinally contaminated (not cytotoxic or cytostatic) (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: sharps (subject to the approval of PO2, PO3 and PO4); 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. Note 2: Single use instruments shall not be shredded. Note 3: Entries dual-coded under 18 01 03* and 18 01 09 are limited to wastes received in yellow lidded, rigid containers that are contaminated with non-hazardous medicines only and do not include other pharmaceutical or pharmaceutically contaminated wastes. These wastes shall not be subject to pre-shredding (AR1) and thermal treatment (AR2) until approval of PO2, PO3, and PO4.	

Table S2.3 Permitted waste types and quantities for sharps bin wash plant and associated repackaging (AR3)	
Maximum quantity	**The total quantity of wastes accepted at the site shall not exceed 60,000 tonnes per year.** **The maximum amount of hazardous waste treated per annum shall be less than 20,000 tonnes.** **The maximum quantity of sharps bin waste treated through the wash plant shall not exceed 50 tonnes per day.**
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 (contains sharps)
18 01 03* and 18 01 08*	infectious waste, medicinally contaminated (cytotoxic or cytostatic) (contains sharps)
18 01 03* and 18 01 09	infectious waste, medicinally contaminated (not cytotoxic or cytostatic) (contains sharps)
18 02	**wastes from research, diagnosis, treatment or prevention of disease involving animals**
18 02 02*	infectious waste, not contaminated with chemicals or medicines (contains sharps)
18 02 02* and 18 02 07*	infectious waste, medicinally contaminated (cytotoxic or cytostatic) (contains sharps)
18 02 02* and 18 02 08	infectious waste, medicinally contaminated (not cytotoxic or cytostatic) (contains sharps)

Table S2.4 Permitted waste types and quantities for repackaging (AR4 and AR11) and storage (AR5 and AR12)	
Maximum quantity	**The total quantity of wastes accepted at the site shall not exceed 60,000 tonnes per year.** **Combined storage capacity of hazardous and non-hazardous waste on site shall not exceed 130 tonnes at any one time.**
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 05*	bleach and bleach fixer solutions
09 01 07	photographic film and paper containing silver or silver compounds
09 01 08	photographic film and paper free of silver or silver compounds
18	**WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (EXCEPT KITCHEN AND RESTAURANT WASTES NOT ARISING FROM IMMEDIATE HEALTH CARE)**

Table S2.4 Permitted waste types and quantities for repackaging (AR4 and AR11) and storage (AR5 and AR12)	
Maximum quantity	**The total quantity of wastes accepted at the site shall not exceed 60,000 tonnes per year.** **Combined storage capacity of hazardous and non-hazardous waste on site shall not exceed 130 tonnes at any one time.**
Waste code	**Description**
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 and 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* and 18 01 09	infectious waste, medicinally contaminated (not cytotoxic or cytostatic) – (may contain sharps)
18 01 04	non-infectious offensive waste – human healthcare non-infectious gypsum wastes (for example, plaster casts and moulds)
18 01 06*	chemicals consisting of or containing hazardous substances
18 01 07	chemicals other than those mentioned in 18 01 06
18 01 08*	cytotoxic and cytostatic medicines
18 01 09	other waste medicines, excluding cytotoxic and cytostatic medicines – human healthcare
18 01 10*	amalgam waste from dental care
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)

Table S2.4 Permitted waste types and quantities for repackaging (AR4 and AR11) and storage (AR5 and AR12)	
Maximum quantity	**The total quantity of wastes accepted at the site shall not exceed 60,000 tonnes per year.** **Combined storage capacity of hazardous and non-hazardous waste on site shall not exceed 130 tonnes at any one time.**
Waste code	**Description**
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 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 S2.5 Permitted waste types and quantities for shredding or compaction of offensive waste (AR9 and AR10)	
Maximum quantity	**The total quantity of waste accepted at the site shall be less than 60,000 tonnes per annum.** **No more than 24 tonnes per day of non-hazardous offensive waste shall be shredded and compacted.**
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
18 02	**wastes from research, diagnosis, treatment or prevention of disease involving animals**
18 02 03	non-infectious offensive waste – animal healthcare
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	non-infectious offensive waste – municipal, separately collected fractions not from healthcare or research-related sources

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 Boiler stack on Schedule 7 Site Plan	LPG Boiler, 2.5 megawatts thermal input	Oxides of nitrogen (NOx)	200 mg/m^3	Hourly average	Annually (Note 1)	MCERTS BS EN 14792
		Sulphur dioxide (SO_2)	35 mg/m^3	Hourly average	Annually (Note 1)	MCERTS BS EN 14791
		Carbon monoxide (CO)	No limit set	Hourly average	Annually (Note 1)	MCERTS BS EN 15058
A2 Autoclave exhaust vent on Schedule 7 Site Plan (Emission point A2 and monitoring applies until the combined emission point is commissioned)	Abated exhaust system from autoclave, with HEPA and carbon filters	Bacillus spores	1000 cfu/m^3 (Note 2)	In accordance with Emissions monitoring and limits appropriate measures of Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020	Annually	In accordance with Emissions monitoring and limits appropriate measures of Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020
		Total Volatile organic compounds (VOCs)	30 mg per cubic metre (Note 3)	Average value of 3 consecutive measurements of at least 30 minutes each	(Note 4)	BS EN 12619
		Speciated VOCs	No limit set	Average value of 3 consecutive measurements of at least 30 minutes each	(Note 4)	CEN TS 13649
		Particulate matter	5 mg per cubic metre (Note 3)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 5)	BS EN 13284-1
A3 Shredder local extraction ventilation on	Local Exhaust Ventilation (LEV) system fitted to	Bacillus spores	1000 cfu/m^3 (Note 2)	In accordance with Emissions monitoring and limits appropriate measures of	Annually	In accordance with Emissions monitoring and limits appropriate measures of

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**
Schedule 7 Site Plan (Emission point A3 and monitoring applies until the combined emission point is commissioned)	shredder with carbon and HEPA filters			Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020		Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020
		Total volatile organic compounds (VOCs)	30 mg per cubic metre (Note 3)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 4)	BS EN 12619
		Speciated VOCs	No limit set	Average value of 3 consecutive measurements of at least 30 minutes each	(Note 4)	CEN TS 13649
		Particulate matter	5 mg per cubic metre (Note 3)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 5)	BS EN 13284-1
A2/A3/A6/A7 combined emission point (shown as Com on emission point plan in application EPR/PP3707BB/V005) (Emission point and monitoring applies from when the combined emission point is commissioned)	Emission via HEPA filter and carbon filters of exhaust system from autoclave, LEV system fitted to shredders, LEV fitted to floc compactor unit.	Bacillus spores	1000 cfu/m^3 (Note 2)	In accordance with Emissions monitoring and limits appropriate measures of Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020	Annually	In accordance with Emissions monitoring and limits appropriate measures of Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020
		Total Volatile organic compounds (VOCs)	30 mg per cubic metre (Note 3)	Average value of 3 consecutive measurements of at least 30 minutes each	(Note 4)	BS EN 12619
		Speciated VOCs	No limit set	Average value of 3 consecutive measurements	(Note 4)	CEN TS 13649

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**
				of at least 30 minutes each		
		Particulate matter	5 mg per cubic metre (Note 3)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 5)	BS EN 13284-1
A4 Emission from wash plant tipping head on Schedule 7 Site Plan	Extraction system with HEPA filter serving wash plant tipping head	No parameter set	No limit set	-	-	-
A5 Emission from wash plant dryer on Schedule 7 Site Plan	Extraction system serving wash plant dryer	No parameter set	No limit set	-	-	-

Note 1 - The first monitoring measurements shall be carried out within four months of the issue date of the permit or of the date when the MCP is first put into operation, whichever is later.

Note 2 - 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 3 – This limit, or an alternative limit agreed in writing with Environment Agency following completion of IC5.

Note 4 – Monitoring for Total VOCs is to be undertaken on a 6 monthly frequency during the treatment of non-medicinally contaminated waste.
Monitoring for total and speciated VOCs is to be undertaken on a monthly basis during the treatment of medicinally contaminated waste (18 01 03* with 18 01 09). The requirement to monitor VOCs during the treatment of medicinally contaminated waste shall apply once the treatment of this waste has been approved under pre-operational condition PO3. The ongoing frequency of this monitoring may be reduced subject to completion of improvement condition IC1 and the agreement of the Environment Agency.

Note 5 - An alternative monitoring frequency may be agreed in writing with Environment Agency following completion of IC5.

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
W1 discharge to foul sewer on Schedule 7 Site Plan	Waste water – boiler condensate, autoclave condensate, effluent from bin washing, sharps bin wash plant, and wash down water	Bacillus Spores (spiked organisms)	300 cfu[1] per litre	-	Annually	In accordance with Emissions monitoring and limits appropriate measures of Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020
		Any additional monitoring to be agreed in writing following completion of Improvement condition IC2.				
W2 discharge to surface water drainage system on Schedule 7 Site Plan	Uncontaminated surface water from yard and roof only	No parameter set	No limit set	-	-	-
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. 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	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020.
Air – sample points >10 m from the treatment plant	Bacillus Spores	300 cfu per cubic metre (Note 1)	Annually	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020.

Table S3.3 Fugitive microbial emissions monitoring (spiked organisms)				
Emission point ref. & location	**Parameter**	**Limit (incl. unit)**	**Monitoring frequency**	**Monitoring standard or method**
Surface – sample point <10 m from the treatment plant	Bacillus Spores	20,000 cfu per square metre per hour (Note 1)	Annually	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020.
Surface – sample point >10 m from the treatment plant	Bacillus Spores	5,000 cfu per square metre per hour (Note 1)	Annually	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020.

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 four).

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**
Shredding of waste and subsequent steam treatment in 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 Waste treatment appropriate measures of 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		Results of repeated plant validation shall be submitted to the Environment Agency for approval.

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**
		• the plant fails routine treatment efficacy monitoring.		

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, A4, A5, combined emission point	Every 6 months	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	Emissions to Air Reporting Form: form A1 or other form as agreed in writing by the Environment Agency	26/06/2024
Fugitive microbial emissions	Fugitive Microbial Emissions Reporting Form: version 1 or other form as agreed in writing by the Environment Agency	17/06/2021
Emissions to Sewer	Emissions to Sewer Reporting Form: version 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Water usage	Water Usage Reporting Form: version 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Energy usage	Energy Usage Reporting Form: version 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Other performance indicators	Other Performance Parameters Reporting Form: version 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)	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

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

(c) Notification requirements for the 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.

“LPG” means liquefied petroleum gas.

“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.

“LEV” means local exhaust ventilation.

“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.

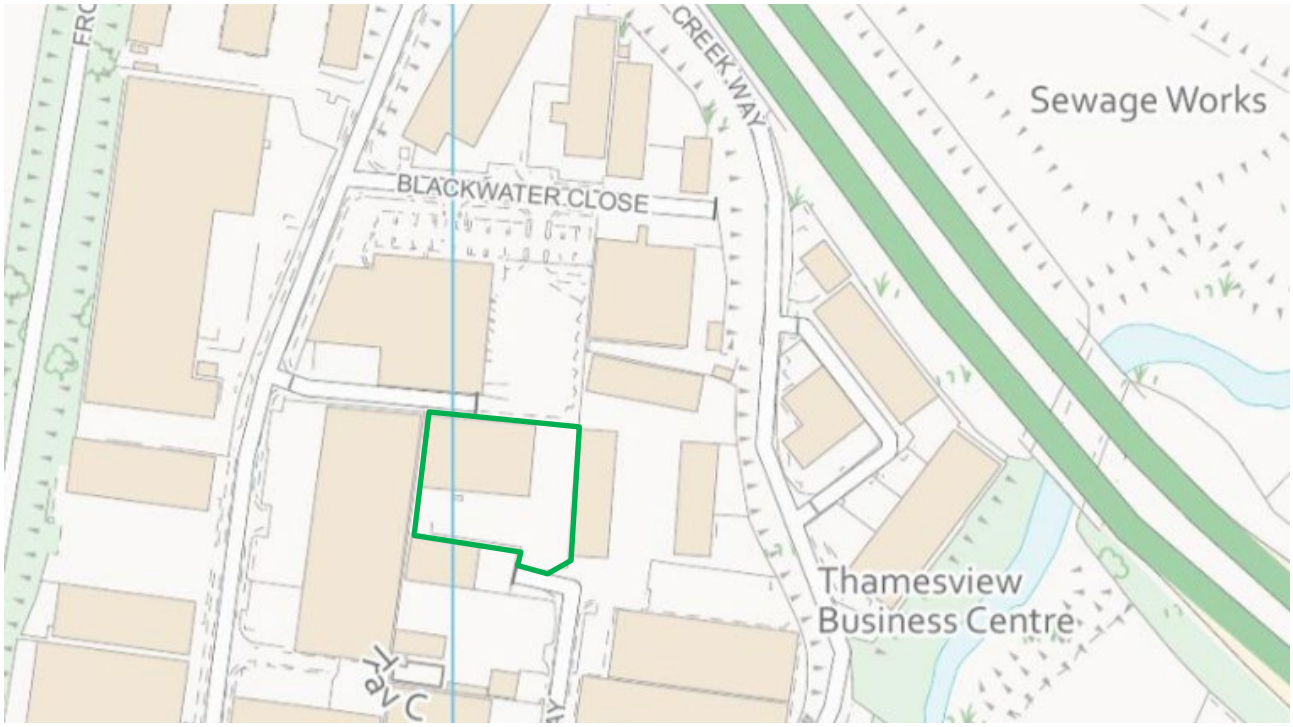
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

Site location plan



Site layout plan

END OF PERMIT