

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

SRCL Limited

Stericycle Telford Healthcare Waste Treatment Plant and Transfer Station

Unit G

Stafford Park 18

Telford

TF3 3BN

Permit number

EPR/MP3303SQ

Stericycle Telford Healthcare Waste Treatment Plant and Transfer Station

Permit number EPR/MP3303SQ

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The installation comprises of the following activities:

- Section 5.3 A(1)(a)(ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment;
- Section 5.6 A(1)(a) Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes.

And directly associated activities:

- Steam generation;
- Storage of residues from the treatment process;
- Container washing.

The following waste operations are also carried out:

- Physico-chemical treatment non-hazardous healthcare waste (blood products);
- Mechanical shredding of offensive waste;
- Repackaging of offensive waste – light compaction;
- Storage of non-hazardous waste.

The hazardous waste treatment plant consists of a shredder, a single chamber steam auger and pollution abatement equipment. Waste is shredded under negative pressure before transfer to the auger chamber where a combination of heat, moisture and residence time is sufficient to disinfect the waste to produce a waste flock. Steam is supplied to the auger from the gas fired steam raising plant.

There is a separate shredder (the cold shred line) for mechanical re-processing of non-hazardous healthcare wastes. Waste is shredded under negative pressure and is then transferred through an enclosed transportation screw. This meets the inactivated flock from the treatment process (post auger) before being discharged into a walking floor trailer where it is stored prior to transfer off-site.

Off-gases from the auger are cooled in a condenser with the resulting water being discharged to foul sewer. Any residual gases are transferred through the abatement system with the off-gases from the shredder system.

The abatement system comprises a high efficiency particulate air (HEPA) filter and carbon filters serving each shredder. A coalescing vessel and a carbon filter serve the steam auger. 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.

There is a single emission point to air from the treatment processes where the final off-gases are released, and a further associated emission point to air from the gas-fired steam raising plant. There is also an emission point to foul sewer for effluent arising from the treatment process condensate and for effluent arising from the container washing process. There are no emissions to surface water arising from the activities at the site.

The shredded and treated residue is stored on site pending transfer off-site for disposal to landfill or for recovery and use as a refuse derived fuel.

The thermal waste treatment process and mechanical treatment of offensive waste is undertaken wholly within the process building with no treatment activities being undertaken outside the building. Light compaction of offensive waste is the only activity which occurs externally however this will be under a canopy enclosed on three sides. Waste is stored in designated storage areas inside the building and in a designated trailer holding area outside of the building. All designated storage areas have impermeable surfaces with sealed drainage and all waste is stored in fully enclosed, leak-proof containers.

The site is located on at the end of Stafford Park 18 Industrial Estate. All adjacent property and land is in commercial/industrial use and the site is less than two miles from Junction 4 of the M54 motorway. The nearest built up residential area to the site is the Hollinswood Estate approximately 580 m to the West. The site is located within flood zone 1 with a low probability of flooding and the nearest watercourse is Wesley Brook, 1.3 km to the North East.

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

Status log of the permit		
Description	Date	Comments
Application EPR/MP3303SQ/A001	Duly made 26/03/2020	Application for a Healthcare Waste Treatment Plant and Transfer Station.
Permit determined EPR/MP3303SQ (PAS Billing ref. MP3303SQ EAWML Billing ref. EAWML 406912).	22/07/2020	Permit issued to SRCL Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/MP3303SQ

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

SRCL Limited (“the operator”),

whose registered office is

**Indigo House
Sussex Avenue
Leeds
West Yorkshire
LS10 2LF**

company registration number 03226910

to operate an installation and waste operations at

**Stericycle Telford Healthcare Waste Treatment Plant and Transfer Station
Unit G
Stafford Park 18
Telford
TF3 3BN**

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

Name	Date
Philip Lamb	22/07/2020

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 AR5), 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 AR5), 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 AR5), 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 and S2.4; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.
- 2.3.7 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

2.4 Pre-operational conditions

- 2.4.1 The operations specified in schedule 1 table S1.3 shall not commence until the measures specified in that table have been completed.

3 Emissions and monitoring

3.1 Emissions to water, air or land

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

3.2 Emissions of substances not controlled by emission limits

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

3.3 Odour

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

3.4 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) process monitoring specified in table S3.3;
- (c) ambient air 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 AR5) 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 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 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 A(1)(a)(ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment.	D9, R3: Physico-chemical treatment of waste. Thermal treatment (including pre-shredding) in a steam auger.	From receipt and segregation of waste to storage and despatch of treated waste. No more than 48 tonnes/day of waste shall be treated. The maximum storage capacity for treated waste on site shall not exceed 72 tonnes at any time. Treated waste storage times shall not exceed 7 days if stored outside, or 14 days if stored in a building. No waste types shall be submitted to this treatment activity other than those hazardous wastes specified in Schedule 2, Table S2.2.
AR2	Section 5.6 A(1)(a) Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes.	D15, R13: Storage of hazardous waste.	Storage of hazardous waste prior to thermal treatment in steam auger and/or off-site transfer. The aggregated maximum storage capacity for all waste on site shall not exceed 372 tonnes. The maximum storage capacity for all hazardous waste on site shall not exceed 240 tonnes at any time. All waste shall be stored inside a building. Hazardous waste storage times shall not exceed the following: <ul style="list-style-type: none"> • Infectious clinical waste: 14 days; • Unrefrigerated anatomical waste: 24 hours, (up to 72 hours if over a weekend); • Cytotoxic and cytostatic drugs: 6 months • Other medicines or drugs: 6 months; • Dental amalgam: 6 months; • Other chemicals or other wastes: 6 months. Only hazardous waste types as specified in Schedule 2, Table S2.3.
Directly Associated Activity			
AR3	Steam raising boiler.	Raising of steam in a gas fired boiler. Net rated thermal input approx. 0.8 MW.	No fuel shall be used other than natural gas.
AR4	Raw material handling and storage.	Raw material handling and storage.	From receipt to point of use, including storage.

Table S1.1 activities			
AR5	Bin washing.	Cleaning of empty containers.	Washing and disinfection of mobile containers shall only take place in designated areas with impermeable surface and a sealed drainage system.
Activity reference	Description of activities for waste operations	Limits of activities	
AR6	D9: Physico-chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12. R3: Recycling/reclamation of organic substances which are not used as solvents.	<p>Thermal treatment (including pre-shredding) in the stream auger of non-hazardous waste (co-treatment with hazardous waste).</p> <p>No more than 10% of the treatment capacity of activity AR1 shall be used for non-hazardous waste treatment at any time (up to a maximum 4.8 tonnes/day).</p> <p>The aggregated maximum treatment for disposal capacity for all non-hazardous waste on site shall not exceed 50 tonnes/day.</p> <p>No waste types shall be submitted to this treatment activity other than those non-hazardous wastes specified in Schedule 2, Table S2.2.</p>	
AR7	D9: Physico-chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12. R3: Recycling/reclamation of organic substances which are not used as solvents.	<p>Shredding of non-hazardous waste.</p> <p>The aggregated maximum treatment capacity for activities AR7 and AR8 site shall not exceed 20 tonnes/day.</p> <p>The aggregated maximum treatment for disposal capacity for all non-hazardous waste on site shall not exceed 50 tonnes/day.</p> <p>Treated waste storage times shall not exceed 7 days if stored outside, or 14 days if stored in a building:</p> <p>No waste types shall be submitted to this treatment activity other than those specified in Schedule 2, Table S2.4.</p>	
AR8	D14: Repackaging prior to submission to any of the operations numbered D1 to D13; R12: Exchange of waste for submission to any of the operations numbered R1 to R11.	<p>Light compaction of non-hazardous offensive waste.</p> <p>The aggregated maximum treatment capacity for activities AR7 and AR8 site shall not exceed 20 tonnes/day.</p> <p>The aggregated maximum treatment for disposal capacity for all non-hazardous waste on site shall not exceed 50 tonnes/day.</p> <p>Treated waste storage times shall not exceed 7 days if stored outside, or 14 days if stored in a building:</p> <p>No waste types shall be submitted to this treatment activity other than those specified in Schedule 2, Table S2.4.</p>	

Table S1.1 activities		
AR9	D15: Storage pending any of the operations numbered D1 to D14; R13: Storage of waste pending any of the operations numbered R1 to R12; (excluding temporary storage, pending collection, on the site where the waste is produced).	From receipt and segregation of non-hazardous waste to storage and despatch of waste. The aggregated maximum storage capacity for all waste on site shall not exceed 372 tonnes. No more than 95 tonnes of non-hazardous waste shall be stored on site at any one time. All waste shall be stored inside a building. Non-hazardous waste storage times shall not exceed the following: <ul style="list-style-type: none"> • Offensive waste: 14 days; • Unrefrigerated anatomical waste: 24 hours, (up to 72 hours if over a weekend); • Other medicines or drugs: 6 months; • Other chemicals or other wastes: 6 months. Only non-hazardous waste types as specified in Schedule 2, Table S2.3.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	Responses provided in Application Forms Part B2, B3 and B4 and relevant supporting information. Excluding: Environmental Permit Application Report (Doc. Number 07) Treatment of blood products justification (Doc. Number 15) Odour Management Plan (Doc. Number 16, March 2020, Version 1.0)	Duly Made 26/03/2020
Response to Schedule 5 Notice dated 27/04/2020	Response to questions 1 to 7. Including: Environmental Permit Application Report (Doc. Number 07a, March 2020, Version 2.1) Treatment of blood products justification (Doc Number 15a) Odour Management Plan (Doc. Number 16a, March 2020, Version 2.1)	04/06/2020
Additional Information Received	Drainage Strategy, Fire Water Retention Strategy and supporting plans	19/06/2020

Table S1.3 Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
PO1	Discharge of any process effluent to sewer	The operator shall provide for approval to the Environment Agency: <ul style="list-style-type: none"> (i) a copy of the Trade Effluent Discharge Consent for the site; (ii) written confirmation that the works required for the Drainage and Fire Water Retention Strategies are completed. Any changes made during construction shall be submitted. No discharge of process effluent shall be made until the Environment Agency has given prior written approval under this condition.

Table S1.3 Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
PO2	Thermal treatment of waste	<p>The operator shall submit a written site commissioning validation report to the Environment Agency for approval, that demonstrates:</p> <ul style="list-style-type: none"> (i) the treatment efficacy of the waste facility, in accordance with the appropriate measures in Sections 2.1, 2.3 and Annex 1 of the sector guidance note EPR S5.07 on clinical wastes; (ii) the proposals for routine monitoring of treatment efficacy comply with the appropriate measures in section 3.2 and Annex 2 of the sector guidance note EPR S5.07 on clinical wastes; (iii) the installation's emissions, in accordance with the appropriate measures in Section 3.3 and Annex 3 of the sector guidance note EPR S5.07 on clinical wastes; (iv) the proposals for routine monitoring of emissions comply with the appropriate measures in section 3.3 and Annex 3 of the sector guidance note EPR S5.07 on clinical wastes. <p>The thermal treatment process shall not be made operational until the Environment Agency has given prior written approval under this condition.</p>

Schedule 2 – Waste types, raw materials and fuels

Raw materials and fuel description	Specification
-	-

Maximum quantity	Maximum treatment capacity shall not exceed 48 tonnes/day. No more than 10% of the treatment capacity shall be used for non-hazardous waste treatment at any time (up to a maximum 4.8 tonnes/day). Annual treatment capacity shall not exceed 17,500 tonnes. Hazardous wastes restricted to hazard property HP9 only.
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 02 ¹	blood bags and blood preserves only (except 18 01 03)
18 01 03* ¹	wastes whose collection and disposal is subject to special requirements in order to prevent infection
18 02	wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 02* ¹	wastes whose collection and disposal is subject to special requirements in order to prevent infection
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 ¹	other fractions not otherwise specified (comprising only of separately collected fractions of municipal clinical waste (not arising from healthcare and/or related research i.e. not including waste from natal care, diagnosis, treatment or prevention of disease) which is subject to special requirements in order to prevent infection).
<p>¹ Note: In addition, the following wastes are specifically excluded from waste treatment activities:</p> <ul style="list-style-type: none"> (i) Any waste containing waste medicines and chemicals, waste contaminated with cytotoxic and cytostatic medicines, anatomical waste (identifiable human or animal tissue arising from healthcare), or Dental amalgam; (ii) Sharps boxes containing any of the excluded wastes from (i) and (iii) or Sharps that are contaminated with pharmaceuticals in any quantity (including syringes that are fully discharged, partially discharged or undischarged); (iii) Biohazard waste: Any waste known or likely to contain ACDP Hazard Group 4 biological agents; Any waste from a containment level 3 laboratory; and All Microbiological cultures from any source, and, any potentially infected waste from pathology departments and other clinical or research laboratories (Unless autoclaved before leaving the site of production). 	

Table S2.3 Permitted waste types and quantities for waste storage (activities AR2 and AR9)	
Maximum quantity	<p>The aggregated maximum storage capacity for all waste on site shall not exceed 372 tonnes.</p> <p>No more than 240 tonnes of hazardous waste shall be stored on site at any one time.</p> <p>No more than 95 tonnes of non-hazardous waste shall be stored on site at any one time.</p> <p>Annual throughput of non-hazardous waste shall be less than 25,000 tonnes.</p> <p>Hazardous wastes restricted to hazard properties HP3, HP4, HP5, HP6, HP7, HP8, HP9, HP10, HP11, HP14 only.</p>
Waste code	Description
07	Wastes from organic chemical processes
07 05	wastes from the MFSU of pharmaceuticals
07 05 13*	solid wastes containing hazardous substances (hazardous medicines only)
07 05 14	solid wastes other than those mentioned in 07 05 13 (non-hazardous medicines only)
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 solutions and bleach fixer solutions
09 01 06*	wastes containing silver from on-site treatment of photographic wastes
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
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)
15 01 10*	packaging containing residues of or contaminated by hazardous substances (lead foils from dental care only)
18	Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care)
18 01	wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 01	sharps (except 18 01 03)
18 01 02	body parts and organs including blood bags and blood preserves (except 18 01 03)
18 01 03*	wastes whose collection and disposal is subject to special requirements in order to prevent infection
18 01 04	wastes whose collection and disposal is not subject to special requirements in order to prevent infection (for example dressings, plaster casts, linen, disposable clothing, diapers)
18 01 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	medicines other than those mentioned in 18 01 08
18 01 10*	amalgam waste from dental care

Table S2.3 Permitted waste types and quantities for waste storage (activities AR2 and AR9)	
Maximum quantity	The aggregated maximum storage capacity for all waste on site shall not exceed 372 tonnes. No more than 240 tonnes of hazardous waste shall be stored on site at any one time. No more than 95 tonnes of non-hazardous waste shall be stored on site at any one time. Annual throughput of non-hazardous waste shall be less than 25,000 tonnes. Hazardous wastes restricted to hazard properties HP3, HP4, HP5, HP6, HP7, HP8, HP9, HP10, HP11, HP14 only.
Waste code	Description
18 02	wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 01	sharps (except 18 02 02)
18 02 02*	wastes whose collection and disposal is subject to special requirements in order to prevent infection
18 02 03	wastes whose collection and disposal is not subject to special requirements in order to prevent infection
18 02 05*	chemicals consisting of or containing hazardous substances
18 02 06	chemicals other than those mentioned in 18 02 05
18 02 07*	cytotoxic and cytostatic medicines
18 02 08	medicines other than those mentioned in 18 02 07
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
20 01 32	medicines other than those mentioned in 20 01 31
20 01 99	other fractions not otherwise specified (comprising only of separately collected fractions of municipal clinical waste (not arising from healthcare and/or related research i.e. not including waste from natal care, diagnosis, treatment or prevention of disease) which is subject to special requirements in order to prevent infection).
20 01 99 ¹	other fractions not otherwise specified (comprising only of non-clinical human and animal offensive/hygiene waste (not arising from healthcare and/or related research (i.e. not including waste from natal care, diagnosis, treatment or prevention of disease) which is not subject to special requirements in order to prevent infection)
1 Note: These entries are limited to those wastes that are not described, packaged, labelled or transported as infectious or clinical wastes.	

Table S2.4 Permitted waste types and quantities for shredding and/or light compaction (activities AR7 and AR8)	
Maximum quantity	Maximum aggregated treatment capacity for both AR7 and AR8 shall not exceed 20 tonnes/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 04 ¹	wastes whose collection and disposal is not subject to special requirements in order to prevent infection (for example dressings, plaster casts, linen, disposable clothing, diapers)

Table S2.4 Permitted waste types and quantities for shredding and/or light compaction (activities AR7 and AR8)	
Maximum quantity	Maximum aggregated treatment capacity for both AR7 and AR8 shall not exceed 20 tonnes/day.
Waste code	Description
18 02	wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 03 ¹	wastes whose collection and disposal is not subject to special requirements in order to prevent infection
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 ¹	other fractions not otherwise specified (comprising only of non-clinical human and animal offensive/hygiene waste (not arising from healthcare and/or related research (i.e. not including waste from natal care, diagnosis, treatment or prevention of disease) which is not subject to special requirements in order to prevent infection)
¹ Note: These entries are limited to those wastes that are not described, packaged, labelled or transported as infectious or clinical wastes.	

Schedule 3 – Emissions and monitoring

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 on site plan in Schedule 7	Treatment plant abatement system	Bacillus Spores	1000 cfu per cubic metre ¹	-	Annually	In accordance with the sector guidance note for Clinical Waste EPR 5.07.
A2 on site plan in Schedule 7	Steam raising boiler	No parameters set	No limit set	-	-	Permanent sampling access not required.

¹ Note: These units relate to the overall monitoring period so the 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 dose of 1x10⁶ spores per gram of waste load, and would need to be adjusted if the seed dose were higher or lower.

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 on site plan in Schedule 7	Condensate from steam treatment and condensers; and effluent from boiler blowdown, bin washing, vehicle washing and cleaning.	Bacillus Spores (spiked organisms)	300 cfu per litre ¹	-	Annually	In accordance with the sector guidance note for Clinical Waste EPR 5.07.

¹ Note: These benchmarks are indicative only, and will be reviewed periodically.

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Thermal treatment plant with shredding of untreated waste	Treatment efficacy (routine monitoring)	Weekly for the first six months of operation, then monthly	-	In accordance with guidance in Annex 2 of the sector guidance note for Clinical Waste EPR 5.07.

Table S3.4 Fugitive bioaerosol 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 ¹	Annually	In accordance with the sector guidance note for Clinical Waste EPR 5.07.
Air – sample points >10 m from the treatment plant	Bacillus Spores	300 cfu per cubic metre ¹	Annually	In accordance with the sector guidance note for Clinical Waste EPR 5.07.
Surface – sample point <10 m from the treatment plant	Bacillus Spores	20,000 ² cfu per square metre per hour ¹	Annually	In accordance with the sector guidance note for Clinical Waste EPR 5.07.
Surface – sample point >10 m from the treatment plant	Bacillus Spores	5,000 ² cfu per square metre per hour ¹	Annually	In accordance with the sector guidance note for Clinical Waste EPR 5.07.
<p>¹ Note: 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).</p> <p>² Note: These benchmarks are indicative only, and will be reviewed periodically.</p>				

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	Period begins
Emissions to air Parameters as required by condition 3.1.2	A1	Every 12 months	From issue of the permit
Emissions to sewer Parameters as required by condition 3.1.2	S1	Every 12 months	From issue of the permit
Ambient air monitoring Parameters as required by condition 3.1.2	Air – sample points <10 m from the treatment plant Surface – sample points <10 m and >10 m from the treatment plant	Every 12 months	From issue of the permit
Treatment efficacy (routine monitoring) as specified in Table S3.3	Thermal treatment plant with pre-shredding of untreated waste as specified in Table S3.3	Quarterly	To be agreed in writing as part of pre-operational condition PO2 in table S1.3.

Table S4.2 Annual production/treatment	
Parameter	Units
Hazardous waste treated	tonnes
Hazardous waste accepted for transfer	tonnes
Non-hazardous waste treated	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
Air	Form air 1 to other form as agreed in writing by the Environment Agency	22/07/2020
Sewer	Form sewer 1 or other form as agreed in writing by the Environment Agency	To be agreed in writing as part of pre-operational condition PO2 in table S1.3.

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Bioaerosols	Form bioaerosol 1 or other form as agreed in writing by the Environment Agency	To be agreed in writing as part of pre-operational condition PO2 in table S1.3.
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	22/07/2020
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	22/07/2020
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	22/07/2020

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

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

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

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

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

(c) Notification requirements for the 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” means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

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

- contains viable micro-organisms or their toxins which are known or reliably believed to cause disease in humans or other living organisms;
- contains or is contaminated with a medicine that contains a biologically active pharmaceutical agent; or
- 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.

“cytotoxic and cytostatic medicines” are medicinal products that possess one or more of the hazardous properties toxic, carcinogenic, mutagenic or toxic for reproduction. Cytotoxic and cytostatic waste is the fraction of waste medicines, as described below for “medicines”, that contains or is contaminated with cytotoxic and cytostatic medicines.

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

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

“emissions to land” includes emissions to groundwater.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit.

“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 III of the Waste Framework Directive.

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

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

“Healthcare waste” means a waste classified under Chapter 18 of the List of Wastes, that is both:

- produced by human and animal healthcare and/or related activities; and
- is of a type specifically associated with such activities.

“Impermeable surface” means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface, and should be read in conjunction with the term “sealed drainage system” below.

“Industrial Emissions Directive” means Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions.

“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, as amended from time to time.

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

“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.

“notify/notified without delay” means that a telephone call can be used, whereas all other reports and notifications must be supplied in writing, either electronically or on paper.

“offensive waste” means waste that:

- is not clinical waste;
- contains body fluids, secretions or excretions; and

falls within the description of code 18 01 04, 18 02 03 or 20 01 99 in the list of wastes.

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

“Pests” means Birds, Vermin and Insects.

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

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

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

“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 system” 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, 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.

“year” means calendar year ending 31 December.

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

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





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

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

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

Schedule 7 – Site plan



-  Permit boundary
-  A1 – treatment plant
-  A2 – boiler exhaust
-  S1 – foul sewer discharge

Centre coordinates 371628, 308538

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END OF PERMIT