Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

SRCL Limited

Knowsley Healthcare Waste Treatment and Transfer Site
Bradman Road
Knowsley Industrial Park
Merseyside
L33 7UR

Variation application number

EPR/KP3436NL/V006

Permit number

EPR/KP3436NL

Knowsley Healthcare Waste Treatment and Transfer Site Permit number EPR/KP3436NL

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.

SRCL Ltd., Knowsley is a clinical waste treatment and transfer installation. The site is located at national grid reference (NGR) SJ4375099240, approximately 15 km from Liverpool city centre.

The regulated facility comprises:

- pre-shredding and steam disinfection of infectious waste (co-treated with blood bags) compaction and storage of treatment residues;
- repackaging of hazardous waste;
- temporary storage of hazardous waste;
- steam generation, container washing and raw material storage;
- mechanical shredding of non-hazardous (offensive) waste, compaction, and storage of treatment residues;
- light compaction of offensive waste;
- repackaging of non-hazardous waste;
- temporary storage of non-hazardous waste.
- treatment of medicinally contaminated effluent.

This variation adds two new thermal auger lines for the treatment of, clinical waste, medicinally contaminated and infectious wastes, and offensive wastes. This variation adds two new medium combustion plant (MCP) steam boilers fired on natural gas. Each line will also have a dedicated air emission abatement system with a high efficiency particulate air (HEPA) filter, a coalescing vessel and a carbon filter bed that in combination are designed to remove any infectious bioaerosols, excess moisture and any residual organic compounds and odours from the off-gases before their release to atmosphere. Non-hazardous process effluent is discharged to foul sewer. The treatment of effluent resulting from operating Mode 2 has been added, subject to the conclusion of PO8. This variation also increases the storage capacity at the site for both hazardous and non-hazardous waste, both prior and post treatment.

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/KP3436NL/A001	Duly made 25/06/2013	Application for clinical waste treatment and transfer station.

Status log of the permit		
Description	**Date**	**Comments**
Additional information received	05/09/2013	Email entitled SRCL Knowsley application Ref: EPR/KP3436NL/A001- Request for further Information.
Permit determined	16/12/2013	Permit issued to SRCL Limited.
Application EPR/KP3436NL/V002	Duly made 30/03/2016	Application to vary the permit to add waste codes.
Variation determined EPR/KP3436NL	09/06/2016	Varied permit issued.
Application EPR/KP3436NL/V003	Duly made 12/05/2016	Application to vary the permit to extend the installation boundary.
Variation determined EPR/KP3436NL	09/08/2016	Varied permit issued.
Application EPR/KP3436NL/V004	Duly made 05/03/2019	Application to vary the permit to extend the permit boundary, increase storage capacity and add disposal and recovery codes.
Variation determined EPR/KP3436NL	21/05/2019	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	12/03/2021	Response received from the operator.
Application (variation and consolidation) EPR/KP3436NL/V005	Environment Agency Initiated Variation	Statutory review of permit occasioned by Waste Treatment BAT Conclusions published on 17 August 2018 and Healthcare waste: appropriate measures for permitted facilities published 13 July 2020.
Environment Agency Waste Treatment Sector Review Permit reviewed Variation determined EPR/KP3436NL/V005	05/10/2022	Varied and consolidated permit issued.
Application EPR/KP3436NL/V006	Duly made 06/10/2023	
Additional information	30/11/2023	Schedule 5 response received.
Variation determined EPR/KP3436NL/V006	22/12/2023	Varied permit issued to SRCL Limited.

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/KP3436NL

Issued to

SRCL Limited ("the operator")

whose registered office is

Indigo House
Sussex Avenue
Leeds
West Yorkshire
LS10 2LF

company registration number 03226910

to operate regulated facilities at

Knowsley Healthcare Waste Treatment and Transfer Site
Bradman Road
Knowsley Industrial Park
Merseyside
L33 7UR

to the extent set out in the schedules.

The notice shall take effect from 22/12/2023

Name	Date
Peter Maksymiw	**22/12/2023**

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions were varied as a result of the application made by the operator:

- Condition 2.3.4 (a) was amended to add the new waste tables.
- Table S1.1, referenced in conditions, 1.2.1, 1.3.1, 2.1.1, 2.1.2, 2.3.7 and 4.2.2 was amended to reflect the new activities and capacity.
- Table S1.3 was amended to add improvement condition IC6 and update IC2.
- Table S1.4 was amended to remove pre-operational measures PO1 & PO2 and to add pre-operational measures PO3 to PO8.
- Table S2.2 was amended to update the activity references, tonnages and to add two new waste codes.
- Table S2.3 was amended to update the activity references.
- Table S2.4 was amended to remove reference to activity AR7, update the activity reference for the light compaction activity and to increase the maximum tonnage.
- Table S2.5 was added to specify waste types for AR9.
- Table S3.1 referenced in conditions 3.1.1 and 3.5.1 has had the following amendments:
    - Six new air emission points were added.
    - All air emission points were renumbered.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/KP3436NL

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/KP3436NL/V006 authorising,

SRCL Limited ("the operator"),

whose registered office is

Indigo House
Sussex Avenue
Leeds
West Yorkshire
LS10 2LF

company registration number **03226910**

to operate an installation and waste operations at

Knowsley Healthcare Waste Treatment and Transfer Site
Bradman Road
Knowsley Industrial Park
Merseyside
L33 7UR

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

Name	Date
Peter Maksymiw	**22/12/2023**

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 to S2.5; and

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

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

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

(b) the composition of the waste;

(c) the handling requirements of the waste;

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

(e) the waste code of the waste.

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

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

2.4 Improvement programme

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

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

2.5 Pre-operational conditions

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

3 Emissions and monitoring

3.1 Emissions to water, air or land

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

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

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

3.2 Emissions of substances not controlled by emission limits

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

3.2.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;

(b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

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

3.3.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;

(b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

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

3.4.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;

(b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

(a) point source emissions specified in tables S3.1 and S3.2;

(b) fugitive microbial emissions 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 3.2 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 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.

4.3.4 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.

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

4.4 Interpretation

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

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

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	**Activity listed in Schedule 1 of the EP Regulations**	**Description of specified activity and WFD Annex I and II operations**	**Limits of specified activity and waste types**
AR1	Section 5.3 Part A(1)(a)(ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment.	Treatment of infectious waste by thermal treatment in three steam augers (including pre-treatment shredding and compaction of treated floc) as follows: Mode 1 (Lines 1, 2 and 3): Treatment of infectious waste (co-treated with blood bags) continuous thermal treatment in a single chamber steam auger (including pre-shredding of waste and moving floc to walking floor trailers). Mode 2 (Lines 1 and 2 only): All wastes permitted for Mode 1 plus treatment of infectious sharps containing or contaminated with non-hazardous medicines by continuous thermal treatment in a steam auger (including pre-shredding of waste). R3 Recycling / reclamation of organic substances which are not used as solvents. D9 Physico-chemical treatment.	From treatment of waste to storage of treated floc. All treatment shall take place within a building on an impermeable surface with sealed drainage. No more than 188 tonnes per day of hazardous and non-hazardous waste shall be treated in aggregate (AR1 and AR9). No more than 10% of the input to the co-treatment of hazardous waste with non-hazardous blood bags shall be non-hazardous blood bags. The steam augers shall be operated in accordance with Notes 1 and 2. Treated floc shall be stored within fully enclosed, waterproof and leak-proof containers for no longer than 14 days if stored in a building or for no longer than 7 days located on impermeable surfacing in a dedicated area of the external yard prior to transfer off-site. No more than 212 tonnes of treated floc (in aggregate) shall be stored on site at any one time. No more than 50 tonnes per day of non-hazardous healthcare waste shall be treated for disposal in aggregate (AR1 & AR9). Infectious sharps containing or contaminated with non-hazardous medicines shall not be treated with other wastes (unless otherwise agreed in accordance with pre-operational measures PO5 & PO6. All waste from Mode 2 (including residues, condensate, and effluent) resulting from the treatment of waste contaminated with non-hazardous medicines must be sent for incineration. Aqueous effluent from the process shall be stored in leak-proof containers for no longer than 14

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**
			days within a building on an impermeable surface with sealed drainage. No waste types shall be submitted to this activity other than those wastes specified in Schedule 2, Table S2.2.
AR2	Section 5.3 Part A(1)(a)(iv) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving repackaging.	Repackaging of hazardous waste. R12 Exchange of waste for submission to any of the operations numbered R1 to R11. D14 Repackaging prior to submission to any of the operations numbered D1 to D13.	Repackaging is limited to: • 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 • taking a waste package from a pallet and placing it into a cart or bulk container (for example, skip) Waste shall not be transferred, removed or separated from its primary packaging (for example bags, bins, boxes and blister packs). Repackaging of waste shall not change either the maximum storage times for waste on site or the amount that can be stored. No waste types shall be submitted to this activity other than those hazardous wastes specified in Schedule 2, Table S2.3.
AR3	Section 5.6 Part A(1)(a) Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes.	Storage of hazardous waste. R13 Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced). D15 Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site	From receipt and storage of hazardous waste on site to its treatment or repackaging on site; or its transfer off-site. The amount of hazardous waste stored on site at any one time shall not exceed 390 tonnes. The total amount of waste stored on site at any one time, including both hazardous and non-hazardous waste, shall not exceed 695 tonnes. The total amount of waste stored on site within a building at any one time, including both hazardous and non-hazardous waste, shall not exceed 465 tonnes.

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**
		where the waste is produced).	The total amount of waste stored on site in the external storage area at any one time, including both hazardous and non-hazardous waste, shall not exceed 230 tonnes. Waste shall be stored on impermeable surfacing with sealed drainage. On completion of IC2, 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). Pharmaceutical, chemical, anatomical and palletised waste shall be stored securely within designated areas of the building. Infectious clinical waste shall be stored for no longer than 7 days if outside, or for no longer than 14 days if stored in a building. Unrefrigerated anatomical waste shall be stored for no longer than 24 hours, or up to 72 hours if over a weekend. The following waste types shall be stored on site for no longer than 6 months: • non-infectious cytotoxic and cytostatic medicines • dental amalgam • other hazardous chemicals or other hazardous wastes Notwithstanding the limits given above where a shorter storage time period is given in an agreed management plan then that time period shall take precedence. No waste types shall be submitted to this activity other than those hazardous wastes specified in Schedule 2, Table S2.3.
Note 1 – The steam auger shall only be operated: (i) at the treatment settings (e.g. time, temperature, pressure) the plant is currently validated for (ii) for a total load weight of waste no greater than that proven during validation			

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**
(iii) for waste types and where relevant quantities of each type proven during validations (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). Note 2 – The Lines 1 and 2 shall never switch directly from operational Mode 2 to Mode 3.			
	Directly Associated Activity		
AR4	Steam supply	Natural gas fired steam-raising boilers. 1 x 0.8 MWth input 2 x 1.25 MWth input	No fuel shall be used other than natural gas.
AR5	Cleaning and disinfection of carts	Automated washers that clean and disinfect.	Handling, cleaning and storage of containers and carts prior to dispatch. Bin, container, or cart washing equipment shall be purpose-built, contained and located in a designated area of the facility provides with self-contained drainage. The cart or bin wash must be designed to collect and contain all wash waters, including any spray.
AR6	Raw material handling and storage	Raw material handling and storage.	From receipt and storage to point of use.
AR7	Storage of medicinally contaminated effluent.	Storage of effluent following the treatment of medicinally contaminated sharps.	From production of effluent to despatch offsite for incineration. Contaminated effluent must be stored in a bunded area with an impermeable surface and a sealed drainage system. Aqueous effluent shall be stored in leak-proof containers for no longer than 14 days within a building on an impermeable surface with sealed drainage. The total amount of stored contaminated effluent shall not exceed 60 m^3.
AR8	Treatment of medicinally contaminated effluent	Effluent treatment plant to treat medicinally contaminated effluent produced by AR1 operating in mode Mode 2. Two step treatment process comprises: electrochemical oxidation	Waste water treatment shall not exceed 26 m^3 per day. The waste water should be treated in accordance with the limits and techniques agreed upon completion of the trial in PO7 & PO8. All waste from AR8 (Mode 2) (including residues, condensate, and effluent) resulting from the treatment

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**
		and carbon absorption with electrochemical oxidation.	of waste contaminated with non-hazardous medicines must be captured and sent for incineration unless otherwise agreed in writing by the Environment Agency.

Waste Operations		
Activity reference	**Description of activities for waste operations**	**Limits of activities**
AR9	Mechanical processing of non-hazardous healthcare, offensive waste in any of the 3 steam augers with the heat turned off, (including pre-shredding of waste and post-treatment, moving floc to walking floor trailers) for recovery. R3 Recycling / reclamation of organic substances which are not used as solvents. D9 Physico-chemical treatment.	Operating Mode 3 (Lines 1, 2 and 3): – Mechanical processing of non-hazardous healthcare waste for recovery or disposal. From treatment of waste to storage of treated floc. All treatment shall take place within a building on an impermeable surface with sealed drainage. Treated floc shall be stored within fully enclosed, waterproof, and leak-proof containers located on impermeable surfacing in a dedicated area of the external yard. No more than 188 tonnes per day of non-hazardous waste shall be treated in aggregate (AR1 & AR9). No more than 50 tonnes per day of non-hazardous healthcare waste shall be treated for disposal in aggregate (AR1 & AR9). 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-hazardous waste. R12 Exchange of waste for submission to any of the operations numbered R1 to R11. D14 Repackaging prior to submission to any of the operations numbered D1 to D13.	From light compaction of waste to storage of compacted waste. No more than 188 tonnes per day of non-hazardous waste shall be compacted. All compaction shall take place on an impermeable surface with sealed drainage. Compaction of waste shall not change either the maximum storage times for waste on site or the amount that can be stored. Bin, container, or cart washing equipment shall be purpose-built, contained and located in a designated area of the facility provided with self-contained drainage. The cart or bin wash must be designed to collect and contain all wash waters, including any spray.

Waste Operations		
Activity reference	**Description of activities for waste operations**	**Limits of activities**
		No waste types shall be submitted to this activity other than those non-hazardous wastes specified in Schedule 2, Table S2.4.
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 operations numbered D1 to D13.	Repackaging is limited to: • taking a waste package (for example a bag, drum or box) out of one cart or bulk container (for example a skip) and placing it into another cart or bulk container (for example, a skip) • taking a waste package from a cart or bulk container (for example, skip) and placing it onto a pallet or vehicle • taking a waste package from a pallet and placing it into a cart or bulk container (for example, skip) Waste shall not be transferred, removed, or separated from its primary packaging (for example bags, bins, boxes and blister packs. Repackaging shall take place on an impermeable surface with sealed drainage. Repackaging of waste shall not change either the maximum storage times for waste on site or the amount that can be stored. Bin, container or cart washing equipment shall be purpose-built, contained and located in a designated area of the facility provided with self-contained drainage. The cart or bin wash must be designed to collect and contain all wash waters, including any spray. No waste types shall be submitted to this activity other than those non-hazardous wastes specified in Schedule 2, Table S2.3.
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 amount of non-hazardous waste stored on site at any one time shall not exceed 305 tonnes. The total amount of waste stored on site at any one time, including both hazardous and non-hazardous waste, shall not exceed 695 tonnes. The total amount of waste stored on site within a building at any one time, including both hazardous and non-hazardous waste, shall not exceed 465 tonnes. The total amount of waste stored on site in the external storage area at any one time, including both hazardous and non-hazardous waste, shall not exceed 230 tonnes. Waste shall be stored on impermeable surfacing with sealed drainage. On completion of IC2, waste shall not be stored in vehicles or vehicle trailers, unless they are being received for immediate offloading or prepared for imminent transfer (that

Waste Operations		
Activity reference	**Description of activities for waste operations**	**Limits of activities**
		is, they will be removed from site within 24 hours, or 72 hours if over a weekend). Pharmaceutical, chemical, anatomical, and palletised waste shall be stored securely within designated areas of the building. Non-infectious offensive waste shall be stored for no longer than 7 days if outside, or for no longer than 14 days if stored in a building. 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, non-hazardous medicines • other non-hazardous chemicals or other non-hazardous wastes Notwithstanding the limits given above where a shorter storage time period is given in an agreed management plan then that time period shall take precedence. No waste types shall be submitted to this activity other than those non-hazardous wastes specified in Schedule 2, Table S2.3.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Healthcare waste: appropriate measures for permitted facilities Version published 13 July 2020	All parts of the appropriate measures guidance shall apply other than: • those parts to which an improvement programme requirement applies in Table S1.3 (and only until the date that the improvement has been or must be met, whichever is the earlier.) • those parts listed below which are not applicable; • those parts for which an alternative measure has been proposed below. The following alternative measures have been agreed: • Waste acceptance appropriate measure 22 and Waste tracking appropriate measure 6 as detailed in section 5.2 of document SRCL_FP3930XX_LAR_REG61 in response to Regulations 61 Notice Requiring information dated June 2021 version 2 and e-mail dated 05/11/2021 – updated response to EPR Regulation 61 notices and email of 23/08/22 clarifying alternative measures. • Waste storage, segregation and handling appropriate measures- measure 4 and 19 as detailed in section 3.5 Repackaging onto pallets/pallet boxes of document	N/A June 2021 , 05/11/21 and 23/08/22 June 2021

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
	SRCL_KP3436NL_KNO_REG61 in response to Regulation 61 Notice Requiring information dated June 2021 version 2. • Waste treatment appropriate measures – measures 9&10 and Emission control appropriate measure 12 as detailed in section 7.2 of document SRCL_KP3436NL_KNO_REG61 in response to Regulation 61 Notice Requiring information dated 2021 version 2.	June 2021
Operating Techniques	Application Document Number 06, sections: • 1.1.4. Future State Overview • 4.2 Emission Parameters, Limits & Controls • 4.4 BAT and Supplementary Information • 8. Waste Treatment Process • 9. Techniques for Pollution Control • 10. Emission Monitoring • Part C. Processing of Medicinally Contaminated Sharps	15/09/2023

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1 – General Management Infrastructure plans and prevention of accidental emission points.	1)The operator shall review the site infrastructure plan and submit to the Environment Agency for approval a written report providing an action plan to ensure they meet the requirements of our guidance Healthcare waste: appropriate measures for permitted facilities. Specially the following appropriate measures:- - Containment of emergency firefighting water; surges and storm water flows and buffer capacity to achieve containment. The action plan shall provide details of any proposed changes to site infrastructure, an implementation plan and timescales for implementation	05/01/23 - Complete
	2)The operator shall implement any improvements required by the action plan.	12 months following approval of 1) (31/03/2024)
IC2 Waste pre-acceptance or acceptance procedures	The operator shall cease the use of trailers for storage of waste other than:- • Where they are being received for immediate offloading or prepared for imminent transfer (that is, they will be removed from site within 24 hours, or 72 hours if over a weekend) or • otherwise agreed in writing by the Environment Agency.	31/12/23
IC3 Light Compaction of offensive waste	The operator shall submit detailed procedures for the light compaction of offensive waste to ensure body fluids, micro-organisms and liquid discharges are contained and minimised. They should also include details of proposed monitoring and timescales to demonstrate the procedures and associated measure are effective.	05/01/23 Complete

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC4 Updated emissions inventory and H1 (air and water)	1)The operator shall submit a written report to the Environment Agency for approval that proposes a monitoring programme to characterise and assess the facility's point source emissions to air and water (including sewer) in accordance with the Emissions monitoring and limits appropriate measures of technical guidance Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020. 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.	05/12/22 Complete
	2)A written report shall be submitted to the Environment Agency for approval detailing the results and conclusions of the emissions monitoring and assessment undertaken, including a completed H1 Environmental Risk Assessment and proposals for any ongoing monitoring or further assessment.	6 months following approval of 1) Pending approval
IC5 Odour Management Plan	The operator shall submit an odour management plan to the Environment Agency for written agreement. The plan shall take into account the appropriate measures for odour control specified in our guidance Healthcare waste: appropriate measures for permitted facilities and H4 - Odour Management. Once the odour management plan has been agreed with the Environment Agency, the installation must be operated in accordance with this management plan.	05/01/23 Complete
IC6	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 completed pre-operational condition PO6. 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)

Table S1.4 Pre-operational measures for future development		
Reference	**Operation**	**Pre-operational measures**
PO3	Discharge of any process effluent to sewer from Lines 1 & 2	The operator shall provide for approval to the Environment Agency: (i) an updated 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 from Lines 1 & 2 shall be made until the Environment Agency has given prior written approval under this condition.
PO4	Operation of steam auger (Lines 1 & 2) and associated activities	The operator shall submit a written validation report to the Environment Agency for approval, that demonstrates and confirms: I. the treatment efficacy of the permitted treatment plant, 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 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 waste types that the plant is permitted to treat. The operation shall not be made operational until the Environment Agency has given prior written approval under this condition.
PO5	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, (Lines 1 & 2).	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

Table S1.4 Pre-operational measures for future development		
Reference	**Operation**	**Pre-operational measures**
		(iv) the proposals for routine monitoring of emissions comply with the Emissions monitoring and limits appropriate measures of technical guidance Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020. The treatment efficacy tests must take into account the range of permitted waste types that the plant may treat at the same time as the additional waste in question (18 01 03* with 18 01 09 infectious waste with non-hazardous medicines). Any alternative operating scenarios where the waste in question would be steam treated without first being shredded must also be fully assessed and validated in accordance with the waste treatment appropriate measures of technical guidance Healthcare waste: appropriate measures for permitted facilities (dated 13 July 2020) as part of this pre-operational measure prior to operation. The operation shall not be made operational until the Environment Agency has given prior written approval under this condition.
PO6	Shredding and steam treatment of infectious waste contaminated with non-hazardous medicines (18 01 03* with 18 01 09), (Lines 1 & 2).	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.
PO7	Medicinally contaminated effluent treatment trial (AR8)	The operator shall undertake the proposed trial (AR8) for in accordance with an approved written proposal. The proposal submitted to the Environment Agency shall include the following information as a minimum: 1. Description of trial proposal – including: a. detailed risk assessment and/or revised HAZOP study summary b. detailed framework, describing and breaking down all the phases of the trial c. the length of time the proposed trial will run, d. milestones where assessment of work can be evaluated

Table S1.4 Pre-operational measures for future development		
Reference	**Operation**	**Pre-operational measures**
		e. a comparison of the process against BAT and or appropriate measures f. initial laboratory or small scale testing g. abatement techniques h. assessment of materials and substances being used including the potential of transformation products being produced i. An explanation of how the trial will consider the full range of medicines that could be present in the effluent, how these will be fully treated along with any transformation products. j. measures taken to prevent accidents and mitigate their consequences k. success criteria 2. Descriptions and location of plant, equipment on site and associated storage 3. Plant design capacity of the system and containment. 4. Proposed trial capacity a. per batch / run b. per day c. total 5. Characterisation of effluent a. generic waste description, waste producer and process b. EWC codes c. chemical composition d. hazards and substances that the process is targeting e. other hazards not being targeted f. substances that are most likely to be resistant to or interfere with the treatment process g. defined worst case challenge load h. sampling and analysis of effluent following treatment 6. Proposed raw material types a. generic description b. chemical composition 7. Emissions, including emission points, concentrations, quantities and abatement, to a. air b. water c. soil d. groundwater 8. Characterisation of waste produced a. anticipated waste streams b. physical characteristics c. chemical composition d. chemical properties (e.g. toxicity) e. final recovery or disposal method The trials shall not commence until the Environment Agency has given prior written approval under this condition.

Table S1.4 Pre-operational measures for future development		
Reference	**Operation**	**Pre-operational measures**
PO8	Medicinally contaminated effluent treatment trial (AR8)	After completion of the trials specified in PO7 the operator shall submit a report to the Environment Agency for approval, to include: • A report detailing the outcome of the trials, including measurement of performance against the success criteria defined in the trial protocol • A final specification for the permanent waste water treatment plant • Proposals for the validation testing of the permanent set up of the installation (insofar as possible to be aligned with the trial protocol) in accordance with the appropriate measures for validation tests for treating infectious wastes and for treating wastes contaminated with or containing medicines. All waste from AR8 (Mode 2) (including residues, condensate, and effluent) resulting from the treatment of waste contaminated with non-hazardous medicines must be captured and sent for incineration until agreed in writing by the Environment Agency.

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 thermal treatment of hazardous waste (AR1)	
Maximum quantity	**The maximum annual throughput for the treatment activity is 68,500 tonnes**
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	non-infectious blood bags and blood preserves
18 01 03*	infectious waste, not contaminated with chemicals or medicines (Note 1)
18 01 03* and 18 01 09	infectious waste, medicinally contaminated (not cytotoxic or cytostatic) – (may contain sharps) (Note 2)
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 (Note1)
Note 1: Excluding: sharps; 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**: Entries dual-coded under 18 01 03* and 18 01 09 are limited to wastes received in yellow lidded, rigid yellow containers that are contaminated with non-hazardous medicines only and do not include other pharmaceutical or pharmaceutically contaminated wastes.	

Table S2.3 Permitted waste types and quantities for repackaging (AR2 and AR11) and storage (AR3 and AR12)	
Maximum quantity	**The total quantity of wastes accepted at the site shall not exceed 25,000 tonnes per year.**
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

Table S2.3 Permitted waste types and quantities for repackaging (AR2 and AR11) and storage (AR3 and AR12)	
Maximum quantity	**The total quantity of wastes accepted at the site shall not exceed 25,000 tonnes per year.**
Waste code	**Description**
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 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 04	lead foils from dental care
18	**WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (EXCEPT KITCHEN AND RESTAURANT WASTES NOT ARISING FROM IMMEDIATE HEALTH CARE)**
18 01	**wastes from natal care, diagnosis, treatment or prevention of disease in humans**
18 01 01	non-infectious sharps, not contaminated with chemicals or medicines
18 01 01 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) sharps from vaccinations delivered in hospitals or GP surgeries
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

Table S2.3 Permitted waste types and quantities for repackaging (AR2 and AR11) and storage (AR3 and AR12)	
Maximum quantity	**The total quantity of wastes accepted at the site shall not exceed 25,000 tonnes per year.**
Waste code	**Description**
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	sharps (except 18 02 02)
18 02 02*	infectious waste, not contaminated with chemicals or medicines (may contain sharps) infectious anatomical waste, not chemically preserved infectious gypsum wastes (for example, plaster casts and moulds)
18 02 02* and 18 02 05* or 18 02 06	infectious waste, contaminated with chemicals infectious anatomical waste, chemically preserved
18 02 02* and 18 02 07* or 20 01 31*	infectious waste, contaminated with cytotoxic and cytostatic medicines (may contain sharps)
18 02 02* and 18 02 08	infectious waste, medicinally contaminated (not cytotoxic or cytostatic) (may contain sharps)
18 02 03	non-infectious anatomical waste, not chemically preserved non-infectious offensive waste non-infectious gypsum wastes (for example, plaster casts and moulds)
18 02 03 and 18 02 05*	non-infectious anatomical waste, chemically preserved, hazardous chemicals
18 02 03 and 18 02 06	non-infectious anatomical waste, chemically preserved, non-hazardous chemicals
18 02 05*	chemicals consisting of or containing hazardous 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 S2.4 Permitted waste types and quantities for light compaction (AR10)	
Maximum quantity	**188 tonnes per day, combined with non-hazardous waste in AR1.**
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
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

Table S2.5 Permitted waste types and quantities for cold shredding treatment of non-hazardous waste (AR10)	
Maximum quantity	**188 tonnes per day, combined with non-hazardous waste in AR1.**
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 01	sharps (except 18 01 03)
18 01 04	wastes whose collection and disposal is not subject to special requirements in order to prevent infection (for example dressings, plaster casts, linen, disposable clothing, diapers)
18 02	**wastes from research, diagnosis, treatment or prevention of disease involving animals**
18 02 01	sharps (except 18 02 02)
18 02 03	wastes whose collection and disposal is not subject to special requirements in order to prevent infection
20	**Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions**
20 01	**separately collected fractions (except 15 01)**

Table S2.5 Permitted waste types and quantities for cold shredding treatment of non-hazardous waste (AR10)	
Maximum quantity	**188 tonnes per day, combined with non-hazardous waste in AR1.**
Waste code	**Description**
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)

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (including unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
A1 – Emission point on site plan Schedule 7	Point source emission from Line 1 shredder / and steam Auger via the abatement system (HEPA filter, vent condenser and carbon filter beds)	Bacillus spores	1000 cfu per cubic metre (Note 1)	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020	Annually	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020
		Total volatile organic compounds (TVOC)	30 mg per cubic metre (Note 2)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 3)	BS EN 12619
		Speciated volatile organic compounds	No limit set	Average value of 3 consecutive measurements of at least 30 minutes each	(Note 4)	BS CEN/TS 13649
		Particulate matter	5 mg per cubic metre (Note 2)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 3)	BS EN 13284-1
A2 – Emission point on site plan Schedule 7	Point source emission from Line 2 shredder / and steam Auger via the abatement system (HEPA filter, vent condenser and carbon filter beds)	Bacillus spores	1000 cfu per cubic metre (Note 1)	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020	Annually	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020
		Total volatile organic compounds (TVOC)	30 mg per cubic metre (Note 2)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 3)	BS EN 12619

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**
		Speciated volatile organic compounds	No limit set	Average value of 3 consecutive measurements of at least 30 minutes each	(Note 4)	BS CEN/TS 13649
		Particulate matter	5 mg per cubic metre (Note 2)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 3)	BS EN 13284-1
A3 – Emission point on site plan Schedule 7	Point source emission from Line 3 shredder / and steam Auger via the abatement system (HEPA filter, vent condenser and carbon filter beds)	Bacillus spores	1000 cfu per cubic metre (Note 1)	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020	Annually	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020
		Total volatile organic compounds (TVOC)	30 mg per cubic metre (Note 2)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 3)	BS EN 12619
		Particulate matter	5 mg per cubic metre (Note 2)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 3)	BS EN 13284-1
A4 – Emission point on site plan Schedule 7	MCP natural gas fired boiler stack. 1.25 MWth	Oxides of Nitrogen (NO and NO_2 expressed as NOx)	100 mg/Nm^3	Periodic	Every 3 years from the date of acceptance of first monitoring acceptance.	MCERTS BS 14792
		Carbon monoxide (CO)	No limit set			MCERTS BS 15058
A5 – Emission point on site plan Schedule 7	MCP natural gas fired boiler stack. 1.25 MWth	Oxides of Nitrogen (NO and NO_2 expressed as NOx)	100 mg/Nm^3	Periodic	Every 3 years from the date of acceptance of first	MCERTS BS 14792

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**
		Carbon monoxide (CO)	No limit set		monitoring acceptance.	MCERTS BS 15058
A6 - Emission point on site plan Schedule 7	Gas fired boiler exhaust 0.8 MWth	No parameters set	No limit set	---	---	---
A7 - Emission point on site plan Schedule 7	Wastewater treatment plant exhaust	Limits and monitoring to be agreed in writing following completion of Improvement Condition PO8.				

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 dose of $1x10^6$ spores per gram of waste load, and would need to be adjusted if the seed dose were higher or lower. The units of the limit (per cubic metre) relate to the overall monitoring period so the limit applies to each individual sample of air, with a calculation made to report the result per cubic metre.

Note 2: An alternative limit agreed in writing with Environment Agency following completion of IC6.

Note 3: An alternative monitoring frequency may be agreed in writing with Environment Agency following completion of IC6.

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 PO8. The ongoing frequency of this monitoring may be reduced subject to completion of improvement condition IC6 and the agreement of the Environment Agency.

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (incl. unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
S1 – Emission point on site plan Schedule 7	Effluent discharge Condensate from treatment process and storage process	Bacillus Spores (spiked organisms)	300 cfu per litre (Note 1)	-	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 IC6 and PO8.				
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 dose 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	Note 2
Air – sample points >10 m from the treatment plant	Bacillus Spores	300 cfu per cubic metre (Note 1)	Annually	Note 2
Surface – sample point <10 m from the treatment plant	Bacillus Spores	20,000 cfu per square metre per hour (Note 1)	Annually	Note 2
Surface – sample point >10 m from the treatment plant	Bacillus Spores	5,000 cfu per square metre per hour (Note 1)	Annually	Note 2

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

- each individual sample of air taken, with a calculation made to report the result per cubic metre.
- for each individual settling plate (this is not an average) - a calculation made to adjust for surface area of settle plate and exposure time (for example if settle plates are deployed for only fifteen minutes of every hour then the result must be multiplied by four).

The limit is based on a seeding dose of 1×10^6 spores per gram of waste load. You should adjust it accordingly if you use a higher or lower seeding dose.

The units relate to the overall monitoring period so the cfu limit applies to each individual:

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

Table S3.3 Fugitive microbial emissions monitoring (spiked organisms)				
Emission point ref. & location	**Parameter**	**Limit (incl. unit)**	**Monitoring frequency**	**Monitoring standard or method**
• settle plate (this is not an average) a calculation is made to adjust for surface area of a settle plate and exposure time (for example, if you use settle plates for only 15 minutes of every hour then you must multiply the result by 4). Note 2: In accordance with Emissions monitoring and limits appropriate measures of Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020.				

Table S3.4 Process monitoring requirements				
Emission point reference or source or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
Steam treatment of infectious waste in steam auger	Routine efficacy monitoring	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020.	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020.	The Environment Agency shall be notified immediately of any test failures.
	Repeated plant validation	Plant commissioning validation must be repeated in accordance with Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020: • periodically, at intervals of 4 years or less during the operational life of the plant and if: • any process parameters or conditions change from those assessed and approved during plant commissioning or plant validation • any changes are made to plant design or engineering • changes to the waste types accepted for treatment mean that the challenge load considered during plant commissioning or plant validation is no longer the worst case scenario • the plant fails routine treatment efficacy monitoring to the extent that the plant validation is required		Results of repeated plant validation shall be submitted to the Environment Agency for approval.

Schedule 4 – Reporting

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

Table S4.1 Reporting of monitoring data			
Parameter	**Emission or monitoring point/reference**	**Reporting period**	**First period begins**
Emissions to air Parameters as required by condition 3.5.1	A1, A2, A3, A4, A5 & A6.	Annually	1 January
Emissions to sewer Parameters as required by condition 3.5.1	S1	Annually	1 January
Fugitive microbial emissions Parameters as required by condition 3.5.1	Air and surface monitoring points as detailed in table S3.3	Annually	1 January
Routine efficacy monitoring Parameters as required by condition 3.5.1	Steam treatment of waste in steam auger	Quarterly	1 January
Repeated plant validation Parameters as required by condition 3.5.1	Steam treatment of waste in steam auger	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
Non-hazardous waste thermally treated	tonnes
Treated floc produced	tonnes

Table S4.3 Performance parameters		
Parameter	**Frequency of assessment**	**Units**
Water usage	Annually	cubic metres
Energy usage	Annually	MWh

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

Table S4.4 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Emissions to Sewer	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
Routine efficacy monitoring	Monitoring report submitted in writing to the Environment Agency	-
Repeated plant validation	Validation report submitted in writing to the Environment Agency	-

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

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

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

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

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

(c) Notification requirements for the breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

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

Part B – to be submitted as soon as practicable

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

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

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

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

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

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

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

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

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

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

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

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

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

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

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

“emissions to land” includes emissions to groundwater.

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

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

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

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

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

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

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

- cosmetic body piercing and body art

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

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

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

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

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

“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.

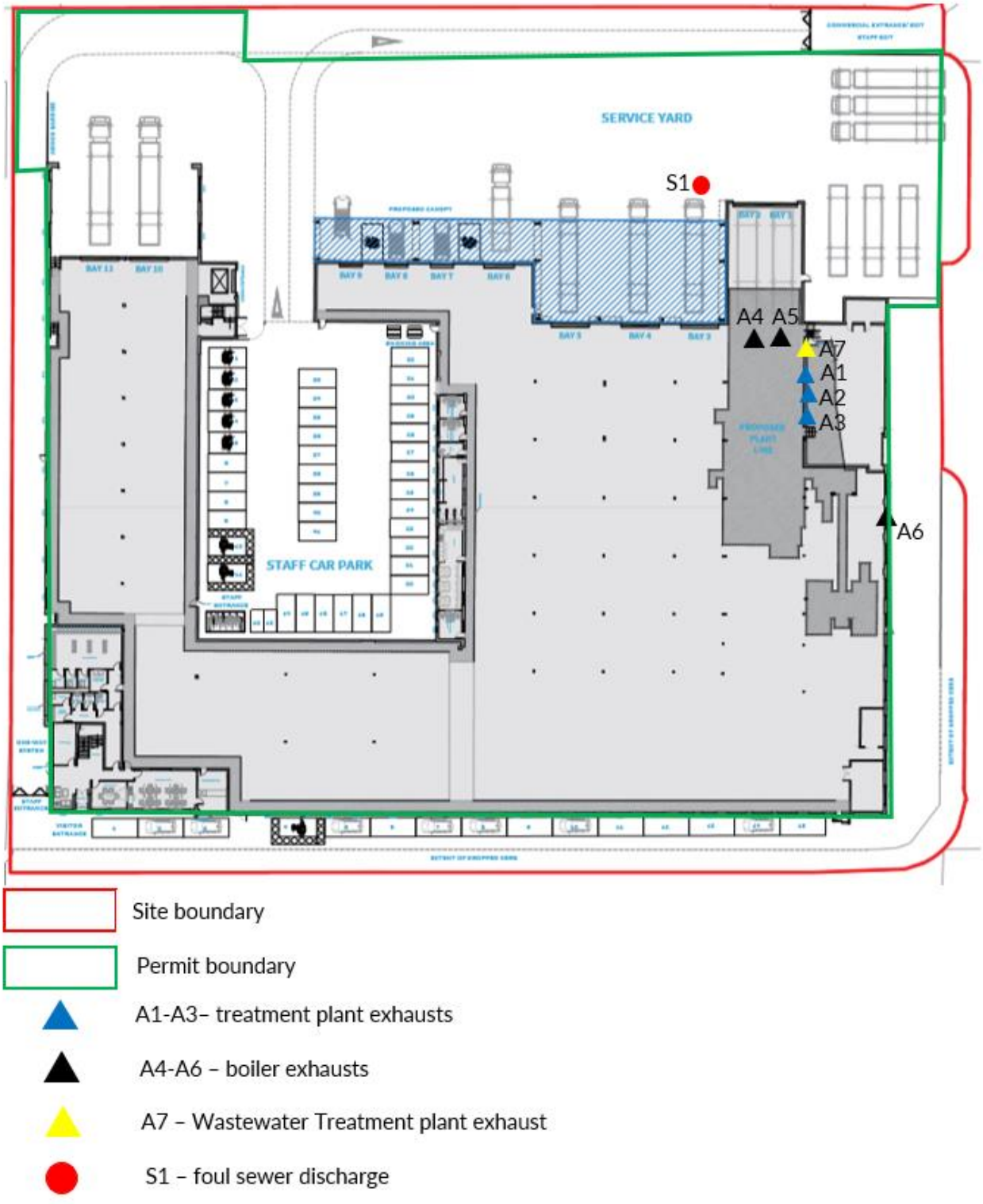
“year” means calendar year ending 31 December.

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.

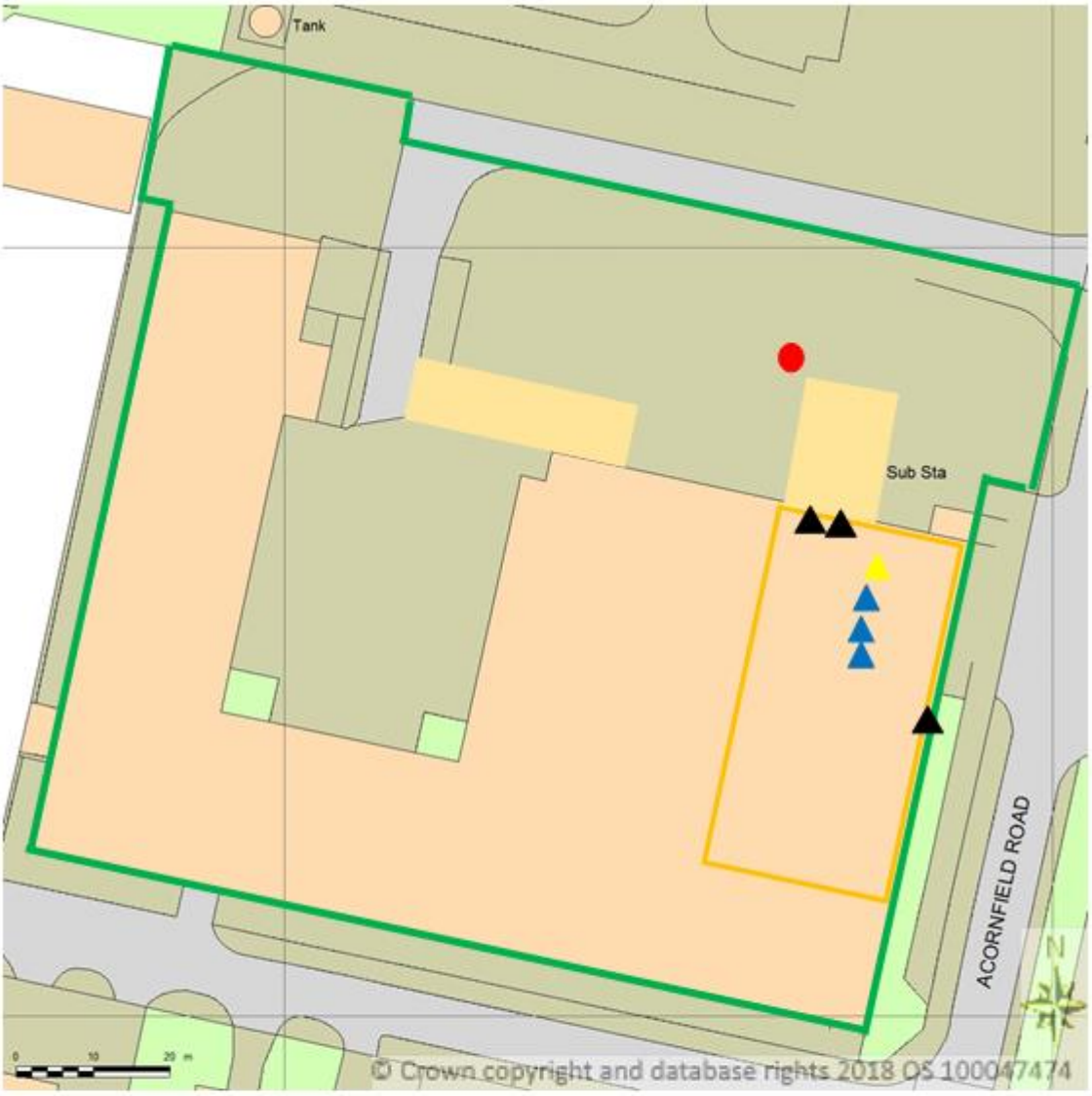
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- 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 Plan 1: Detailed site plan with emission points. SRCL Ltd.



Permit boundary

A1-A3– treatment plant exhausts

A4-A6 – boiler exhausts

A7 – Wastewater Treatment plant exhaust

S1 – foul sewer discharge

Site plan 2; Basic OS site plan.

END OF PERMIT