Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Shanks Waste Management Limited

South Kirkby Waste Management Facility
South Kirkby Industrial Park
Wakefield
West Yorkshire
WF9 3SD

Variation application number

EPR/VP3535CL/V004

Permit number

EPR/VP3535CL

South Kirkby Waste Management Facility

Permit number EPR/VP3535CL

Introductory note

This introductory note does not form a part of the notice.

Under the Environmental Permitting (England & Wales) Regulations 2010 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

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

The Industrial Emissions Directive (IED) was transposed in England and Wales by the Environmental Permitting (England and Wales)(Amendment) Regulations 2013 on 27 February 2013. This variation implements the changes brought about by the IED for "existing facilities operating newly prescribed activities" and completes the transition of this facility from a waste operation to an IED Installation

The schedules to this variation specify the changes made to the original permit due to the "newly prescribed activities" as a result of the Industrial Emissions Directive (IED). For this site, the regulatory changes implemented by IED mean that the facility type for the Residual Waste Facility and Waste Material Recovery Facility changes from being a waste activity to being an installation activity. The installation, directly associated activities and waste operations now onsite are:

Activity	Process	Description
Waste Activity – storage of non-hazardous waste (D15/R13).	Waste Reception	Storage of non-hazardous waste prior to treatment or disposal in the activities below.
5.4 A1(a)(ii) – Treatment of non hazardous waste for disposal (D9, D14, D13, D15).	Waste sorted by hand and mechanically and Waste Management Recovery Facility	Sorting of waste by hand and mechanically to separate recyclable and non-recyclable waste and the storage of treated waste.
Waste Activity – Treatment of non-hazardous waste for recovery (R3/R4/R5, R13).		Sorting of waste by hand and mechanically to separate recyclables or waste will go for recovery and the storage of treated waste.
5.4 A1(b)(i) – Treatment of non hazardous waste for recovery (R3)	Anaerobic Digestion (AD)	Anaerobic Digestion of non-hazardous waste producing bio gases to be burned in CHP engines producing electricity and the storage of treated waste.
DAA to AD plant - Treatment of non–hazardous waste in the Autoclave (R3)	AD- AC	Waste treated prior to anaerobic digestion process.
DAA to AD plant – Combustion of biogas in CHP engines (R1)	AD - CHP	Combustion of biogas from the AD process in CHP engines producing electricity and heat.

Activity	Process	Description
DAA to AD plant – Operation of an emergency flare (D10)	AD - Flare	Incineration of bio gases from the AD process in flare due to low quality and quantity or in the event of CHP engine breakdown or maintenance.
DAA to AD plant – De-watering of the digestate.	AD - Dewatering	De-watering of the digestate from the AD process to allow its recovery offsite.
5.4 A1(b)(i) – Treatment of non hazardous waste for recovery (R3).	In-vessel composting (IVC)	Composting of organic materials to produce compost.
DAA to IVC – Physical treatment of non-hazardous waste		Physical treatment of waste prior to composting
DAA to IVC – Storage of non-hazardous waste		Storage of processed compost
5.4 A1(a)(i) – Treatment of non hazardous waste for disposal – Biological treatment (D8).	Effluent treatment plant (ETP)	Treatment of non-hazardous liquid waste prior to discharge to sewer.
5.4 A1(a)(ii) – Treatment of non hazardous waste for disposal – Physico-chemical treatment (D9).		
DAA to ETP – Discharge to sewer (D6)		Discharge of treated liquids to sewer.
DAA to ETP – Discharge to sewer (D6)		Effluent tankered offsite during commissioning of the site and during breakdown periods.
DAA – Discharge to surface water	Balancing pond and reed bed	Discharge of treated liquids to sewer.
Waste Activity – Storage of non-hazardous waste (R3, R4, R5, R13, D9, D14 and D15)	Household waste recovery centre (HWRC)	Storage and manual sorting, separation and bulking up of the waste and also compaction prior to it being sent for recovery or disposal

The main features of the permit are as follows:

The installation is located to the south east of Hemsworth and 1 km north-west of South Kirkby. The former land use at the site was the South Kirkby and Ferrymoor Riddings collieries. The site is now part of the South Kirkby Industrial Park at Grid reference SE 4470 1180.

The land to the north and west of the site is designated for proposed industrial development. An educational training centre is located 20 metres to the west of the proposed development. The closest residential receptors are associated with the settlement of South Kirkby located approximately 300 metres to the south. The predominant land use surrounding the site is agricultural or areas of open space. Two fishing lakes are located approximately 10 metres to the south.

The installation is designed to process up to 242,600 tonnes per annum of predominantly household, commercial and industrial waste.

The South Kirkby facility will comprise the following installation activities:

- Anaerobic Digestion (AD)
- Residual Waste Treatment Facility (RWTF) and Mixed Dry Recyclables Materials Recycling Facility (MDR MRF)
- In-vessel Composting Facility (IVC)

- Effluent Treatment Plant (ETP)

The South Kirkby facility will comprise the following directly associate activities:

- Gas Combustion
- Gas Flaring
- Discharge to sewer
- Dewatering of digestate

The South Kirkby facility will comprise the following waste operations:

- Autoclave (AC)
- Residual Waste Treatment Facility MRF and Mixed Dry Recyclables Facility (MDR MRF)
- Household waste recycling centre (HWRC)

Co-mingled mixed dry recyclate including paper, card, plastics, cans and glass is accepted on site and sorted in the MDR MRF. The segregated recyclate is then baled and dispatched off site for recovery. Any rejected material going through the MDR MRF is transferred to the RWTF.

The IVC facility processes source segregated green waste, where it is shredded to create a more consistent bulked material which is then loaded into the composting tunnels. This material is then transferred into the maturation area where it is stored for typically 2 weeks before being screened and dispatched as compost. Any rejects from the screening process are shredded, and mixed back in with the input material.

The RWTF processes the residual waste streams as well as any rejects from the composting and MDR MRF input material which can be accepted. The material is sorted into organic fractions and several separate output streams including RDF which is sent to an energy recovery facility. The organic fractions of the incoming waste will be separated and processed in the autoclave prior to treatment at the AD plant.

The AD plant receives the organic fractions generated from the autoclave process or directly from the MRF in the RWTF. The biogas obtained from the AD will be used to generate electricity and heat from two CHP engines with an aggregated thermal input of 5.6 MW_{th}. The heat produced from the engines will be recovered and integrated in the process heating requirements within the facility including a district heating system. The digestate from the process will be de-watered, stored temporarily on site and despatched for use on land or landfills. The spreading of digestate is not included in this Environmental Permit.

The ETP on site will collect the streams of waste liquid from the processes including IVC leachate & centrifuged AD water after anaerobic digestion, apply treatment and settlement as required before disposing of water to the sewer.

Main releases to the environment are to air and sewer. Uncontaminated site surface water is collected in a balancing pond with excess water discharged to an off-site reed bed. Process effluent from the activity is re-circulated within the anaerobic digestion process or treated via the ETP.

There are no European Habitat sites within 10 km of the installation. There are no Sites of Special Scientific Interest (SSSIs) within 2 km of the installation. The following Local Wildlife Sites are within 2 km from the installation:

- South Kirby Colliery Yard
- South Kirkby Quarry
- Mutton Flats
- Johnny Brown's Common
- Hull to Barnsley Disused Railway

Assessment by the Environment Agency has indicated that emissions from the installation are unlikely to have a significant impact at the ecological sites

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/VP3535CL/A001	Duly made 29/03/12	Application for a waste management facility incorporating household waste recycling centre, materials recycling plant, composting, anaerobic digestion and combustion operations.
Request for additional information dated 15/05/12	Response received 07/06/12	Revised list of wastes to be accepted on site and detailed plant description.
Request for additional information dated 15/06/12	Response received 21/06/12	Clarification of point source emissions to off-site reed bed and sewer.
Request for additional information dated 25/06/12	Response received 25/06/12	Revised site plan.
Permit determined EAWML 103892	29/06/12	Permit issued to Shanks Waste Management Limited.
Agency variation determined EPR/ EPR/VP3535CL/V002	30/05/13	Agency variation to implement the changes introduced by IED.
Application EPR/VP3535CL/V003 received (variation)	Duly made 05/05/15	Application for a variation to incorporate an additional drawing showing buildings and emission points; allow the “transfer” of waste from the site for treatment elsewhere and to update the site plan.
Variation determined EPR/VP3535CL	02/07/15	Varied permit issued.
Application EPR/VP3535CL/V004 received (variation and consolidation)	Duly made 26/08/14	Application to vary permit to include newly prescribed activities under the Industrial Emissions Directive (IED) and update the permit to modern conditions.
Additional Information Received	Received 13/04/15	Site Activity Overview
Additional Information Received	Received 28/07/15	Process Flow Diagram
Additional Information Received	Received 07/09/15	Confirmation of Effluent Treatment Plant activities.
Additional Information Received	Received 15/12/15	Confirmation of the removal of animal waste codes from IVC activity
Variation determined EPR/VP3535CL (Billing Ref:- UP3233RG)	18/12/15	Varied and consolidated permit issued in modern condition format including the changes introduced by IED.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

Permit number
EPR/VP3535CL

Issued to

Shanks Waste Management Limited ("the operator")

whose registered office is

Dunedin House
Auckland Park
Milton Keynes
Buckinghamshire
MK1 1BU

company registration number **02393309**

to operate regulated facilities at

South Kirkby Waste Management Facility
South Kirkby Industrial Park
Wakefield
West Yorkshire
WF9 3SD

to the extent set out in the schedules.

The notice shall take effect from 18/12/2015.

Name	Date
Claire Roberts	**18/12/2015**

Authorised on behalf of the Environment Agency

Schedule 1

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

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/VP3535CL

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/VP3535CL/V004 authorising,

Shanks Waste Management Limited ("the operator"),

whose registered office is

Dunedin House
Auckland Park
Milton Keynes
Buckinghamshire
MK1 1BU

company registration number **02393309**

to operate an installation and waste operations at

South Kirkby Waste Management Facility
South Kirkby Industrial Park
Wakefield
West Yorkshire
WF9 3SD

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

Name	Date
Claire Roberts	**18/12/2015**

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 activities referenced A1 to A14 in schedule 1, table S1.1, 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 activities referenced A1 to A14 in schedule 1, table S1.1, 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 activities referenced A1 to A14 in schedule 1, table S1.1, 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 specified in schedule 1, table S1.2 or otherwise required under this permit, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

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

2.3.4 Waste shall only be accepted if:

(a) it is of a type and quantity listed in schedule 2 tables S2.2, S2.3, S2.4, S2.5, S2.6 and S2.7.

(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.

2.4 Hazardous waste storage and treatment

2.4.1 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.

2.5 WEEE treatment

2.5.1 The storage (including temporary storage) and treatment of WEEE shall be carried out in accordance with the technical requirements of Annex VIII of the WEEE Directive.

2.6 Improvement programme

2.6.1 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.

2.6.2 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.

2.7 Pre-operational conditions

2.7.1 The activities shall not be brought into operation until the measures specified in schedule 1 table S1.4 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, S3.2 and S3.3.

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;

(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;

(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, S3.2 and S3.3;

(b) 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, S3.2 and S3.3 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, hazard or annoyance 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 activities referenced A1 to A14 in schedule 1, table S1.1, 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 one 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.

4.2.6 The operator shall submit to the Environment Agency a bi-annual report of the efficiency of the biofilter in the first year of compost operations. This shall include but not be limited to, the assessment of the efficiency to reduce odours, the summary of maintenance and any re-commissioning planned or conducted, assessment of back pressure, venting and cracking. Thereafter the operator shall submit the report within one month of the end of each year, unless otherwise agreed in writing by the Environment Agency.

4.3 Notifications

4.3.1 (a) For the following activities referenced in schedule 1, table S1.1 A1 and A14, in the event 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) for the following activities referenced in schedule 1, table S1.1 A1 and A14, in the event 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) for the following activities referenced in schedule 1, table S1.1, A1 and A14, in the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 For the following activities referenced in schedule 1, table S1.1, A15 and A16, the Environment Agency shall be notified without delay following the detection of:

(a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;

(b) the breach of a limit specified in the permit; or

(c) any significant adverse environmental effects.

4.3.4 Any information provided under condition 4.3.3 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.5 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.6 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:

(c) any change in the operator's name or address; and

(d) any steps taken with a view to the dissolution of the operator.

In any other case:

(e) the death of any of the named operators (where the operator consists of more than one named individual);

(f) any change in the operator's name(s) or address(es); and

(g) 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

4.3.7 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.

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

4.3.9 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:

(a) a decision by the Secretary of State not to re-certify the agreement;

(b) a decision by either the operator or the Secretary of State to terminate the agreement; and

(c) any subsequent decision by the Secretary of State to re-certify such an agreement.

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 For the following activities referenced in schedule 1, table S1.1, A1 and A14, 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.

4.4.3 For the following activities referenced in schedule 1, table S1.1, A15 and A16, in this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", 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**
A1 Anaerobic Digestion	S5.4 A(1) b) (i) - Recovery or a mix of recovery and disposal of non hazardous waste with a capacity exceeding 75 tonnes per day involving biological treatment.	**R3**: Recycling/reclamation of organic substances which are not used as solvents.	Anaerobic digestion of permitted waste. Waste types suitable for acceptance are limited to those specified in Table S2.6.
A2 Residual Waste Treatment Facility and Materials Recycling Facility	S5.4 A(1) (a) (ii) - Disposal of non hazardous waste with a capacity exceeding 50 tonnes per day involving physico-chemical treatment	**D9**: Physico-chemical treatment which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12. **D14**: Repackaging prior to submission to any of the operations numbered D1 to D13.	Treatment consisting only of manual sorting, separation, screening, baling, shredding (non-metal waste only) crushing or compaction of wastes into different components for disposal or recovery**.** Waste types suitable for acceptance are limited to those specified in Tables S2.2 and S2.5. Material stored at the site may be transferred for treatment elsewhere to a third party facility.
A3 Composting Facility	S5.4 A(1) (b) (i) - Recovery or a mix of recovery and disposal of non hazardous waste with a capacity exceeding 75 tonnes per day involving biological treatment.	**R3**: Recycling/reclamation of organic substances which are not used as solvents.	From receipt of waste through to composting and recovery of by-products. Composting of waste under aerobic conditions in closed composting reactors or in closed vessels/buildings fitted with appropriate odour abatement. Waste types suitable for acceptance are limited to those specified in Table S2.4.
A4 Effluent Treatment plant	S5.4 A(1) a) (ii) - Disposal of non-hazardous waste in a facility with a capacity of more than 50 tonnes per day by physico-chemical treatment.	**D9**: Physico-chemical treatment which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12.	From receipt of site effluent at the effluent treatment plant to discharge to sewer. Waste types suitable for acceptance are limited to those

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**
			specified in Table S2.7.
	S5.4 A(1) a) (i) - Disposal of non-hazardous waste in a facility with a capacity of more than 50 tonnes per day by biological treatment	**D8**: Biological treatment which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12.	
	Directly Associated Activity		
A5	Storage of waste pending recovery or disposal	**R13**: Storage of waste pending any of the operations numbered R1 to R12. **D15**: Storage of waste pending any of the operations numbered D1 to D14.	From the receipt of waste to despatch for anaerobic digestion, composting or despatch off site for recovery and/or disposal. Storage of waste in an enclosed building fitted with appropriate odour abatement and on an impermeable surface with sealed drainage. Storage of solid and/or liquid digestate in designated tanks. Storage of biogas in a designated gas holder - from storage of biogas produced from anaerobic digestion on-site to despatch for combustion via CHP engines, boilers or flare From the receipt of waste to despatch for composting or despatch off site for recovery.
A6	Raw material storage	Storage of chemicals	From receipt of chemicals to use within the facility.
A7	Physical treatment for the purpose of recycling – pre-treatment of waste prior and post-treatment of compost	**R3**: Recycling / reclamation of organic substances which are not used as solvents.	From the receipt of waste to despatch for composting or despatch off site for recovery. Pre-treatment of waste prior to composting in an enclosed building and on an impermeable surface including shredding and screening. Post-treatment of processed compost in an enclosed building and on an impermeable surface including screening to remove contraries.

Table S1.1 activities			
Activity reference	**Activity listed in Schedule 1 of the EP Regulations**	**Description of specified activity and WFD Annex I and II operations**	**Limits of specified activity and waste types**
			Waste types suitable for acceptance are limited to those specified in Table S2.4.
A8	Storage of post treated compost	**R13**: Storage of waste pending any of the operations numbered R1 to R12. Storage of processed compost on an impermeable surface.	From the receipt of processed compost produced at the facility to despatch for use off-site. Compost storage shall be in the appropriate building.
	Storage of post treated waste	**R13**: Storage of waste pending any of the operations numbered R1 to R12. Storage of processed waste on an impermeable surface.	From the receipt of processed waste produced at the facility to despatch for use off-site. Processed waste storage shall be in the appropriate building.
A9	Physical treatment for the purpose of recycling – pre-treatment of waste prior to anaerobic digestion including autoclaving	**R3**: Recycling / reclamation of organic substances which are not used as solvents.	Pre-treatment of waste from the RWTF and MRF prior to anaerobic digestion including autoclaving pasteurisation and chemical addition, within an enclosed building and on an impermeable surface including screening to remove contraries. Gas cleaning by biological or chemical scrubbing. Waste types suitable for acceptance are limited to those specified in Tables S2.2 and S2.5.
A10	Physical treatment for the purpose of recycling – dewatering of waste after anaerobic digestion	**R3**: Recycling/reclamation of inorganic materials.	Post treatment of digestate – dewatering within an enclosed building and on an impermeable surface.
A11	Surface water collection, storage, treatment and discharge to surface water	Release into a water body except seas/oceans.	From the collection of uncontaminated roof and site surface water from non-operational areas only to re-use within the facility or discharge off-site. Collection and storage of uncontaminated site surface water - from collection and storage of uncontaminated site surface water in the balancing pond (via interceptor) to its re-use within the facility or discharge to an off-site engineered reed bed.

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**
	Tankering of effluent off site		From receipt of site effluent at the effluent treatment plant to discharge to sewer. Only undertaking during commissioning and during breakdown periods.
A12 Gas Combustion	The combustion of biogas for the purpose of generation of electricity and heat for use within the installation and export to the grid.	**R1**: Use principally as a fuel or other means to generate energy.	Combustion of biogas in two combined heat and power (CHP) engines each of thermal input of 2.8 MW_{th}. Raising of steam for autoclaves using 2 auxiliary boilers each of thermal input of 1.24 MW_{th} **CHP engines**: from the receipt of biogas produced at the on-site anaerobic digestion process to combustion via CHP engines with the release of combustion gases **Steam boilers**: from the receipt of fuel (natural gas or biogas) to despatch to boilers for combustion with release of combustion gases.
A13 Gas Flaring	The combustion of biogas in flare.	**D10**: Incineration on land.	From the receipt of biogas produced on-site to incineration with the release of combustion gases. Use of an auxiliary flare required only for periods of breakdown or maintenance of the CHP engines and during commissioning.
A14 Autoclave	Material being processed into Autoclave prior to treatment in Anaerobic Digestion plant.	**R3**: Recycling/reclamation of organic substances which are not used as solvents	Physical treatment of waste using steam prior to the waste being sent offsite for the production of RDF. Waste types accepted for treatment at the part of the site used for materials recycling operations are specified in Table S2.6.
	Description of activities for waste operations		**Limits of activities**

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**
A15 Materials Recycling Facility- MDR and RWTF	**R3**: Recycling/reclamation of organic substances which are not used as solvents **R4**: Recycling/reclamation of metals and metal compounds **R5**: Recycling/reclamation of inorganic materials **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)		Treatment consisting only of manual sorting, separation, screening, baling, shredding (non metal waste only), and compaction of wastes into different components for disposal or recovery**.** Waste types accepted for treatment at the part of the site used for materials recycling operations are specified in Table S2.2 and S2.5. Material stored at the site may be transferred for treatment elsewhere to a third party facility.
A16 Household Waste Amenity Site	**R3:** Recycling/reclamation of organic substances which are not used as solvents **R4**: Recycling/reclamation of metals and metal compounds **R5**: Recycling/reclamation of inorganic materials **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) **D9:** Physico-chemical treatment which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 **D14**: Repackaging prior to submission to any of the operations numbered D1 to D13 **D15**: Storage of waste pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection on the site where the waste is produced)		Treatment consisting only of manual sorting, separation repackaging or compaction of waste into different components for disposal (no more than 50 tonnes per day) or recovery. Waste types accepted for treatment at the part of the site used for the household waste recycling centre are specified in Table S2.3. Material stored at the site may be transferred for treatment elsewhere to a third party facility.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application	Appendix B2_3, EMS in response to section 3d, Part B2 of the application form. Drawings 1 to 5 in response to section 6a, Part B2 of the application form. Site Condition Report: 412.01796.00031/SCR and Appendix SC1 in response to section 6b, Part B2 of the application form. Non-Technical Summary: 412.01796.00031/NTS and Appendix NTS1 in response to section 6c, Part B2 of the application form. H1 Risk Assessment: 412.01796.00031/H1 in response to section 7, Part B2 of the application form. Air Quality Assessment: 412.01796.00031/AQD including all associated drawings in response to section 2, Parts B3 and B4 of the application form. Odour Impact Assessment: 412.01796.00031/OIA including all associated drawings in response to section 2, Parts B3 and B4 of the application form. Appendix BATOT4_Odour Management Plan Appendix BATOT5_Bioaerosol Risk Assessment Appendix 6_Supporting Information Noise and vibration assessment_Appendix 1 H1 Risk Assessment: 412.01796.00031/H1_Annex_D in response to section 2, Part B3 of the application form. Document reference: 412.01796.00031/BATOT in response to sections 3a, 3b, 3c, 4a, 6a, 6b, 6c, 6d and 6e, Parts B3 and B4 of the application form. Document reference: 412.01796.00031/BATOT in response to Appendix 1, 2 and 5, section 2, Parts B3 and B4 of the application form. Appendix 2_2 WAMITAB Drawings SK-HWRC-1016; SK-AC-1006; SK-RH-9005; SK-MRF-1010	29/03/12

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Response to Schedule 5 Notice dated 15/05/12	Treatment and odour abatement plant description, revised list of wastes to be accepted on site, control of fugitive emissions of dust and particulates at HWRC, desulphurisation of biogas prior to combustion in CHPs	07/06/12
Response to email dated 15/06/12	Clarification of point source emissions to sewer and off-site engineered reed bed on site plan; additional waste codes	21/06/12
Response to email dated 25/06/12	Revised site plan - Drawing SK-EXT-1068	25/06/12
Additional information Received	Overall Process diagram	28/07/15

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1	The Operator shall undertake noise modelling in order to validate the conclusions of the noise and vibration assessment submitted with the application. The monitoring should aim to validate the following: • background noise levels at the identified relevant receptors including the Learning Centre located to the west of the installation • specific noise levels generated by all existing activities at the identified relevant receptors • the attenuation properties • the reverberant sound pressure levels are as predicted • the potential for noise impact due to frequent entry to and exit from the site buildings • proposals to include details of locations, time and duration of monitoring and all monitoring parameters, including appropriate frequency analysis used. The results of this monitoring together with conclusions and recommendations shall be submitted to the Environment Agency for approval.	01/09/16

Table S1.4 Pre-operational measures	
Reference	Pre-operational measures
POC1	At least 4 weeks prior to the commissioning of the facility, the Operator shall provide the Environment Agency with a written report that includes details of the Consent to Discharge issued by the Sewerage Undertaker (Yorkshire Water), the monitoring programme established under the Consent and a suite of representative monitoring data to enable the Environment Agency to consider whether any additional limits and monitoring requirements need to be imposed under the conditions of the permit.

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Chemicals	-
Fuel oil	Sulphur content not exceeding 0.1% by mass

Table S2.2 Permitted waste types and quantities for treatment at the MDR Materials Recycling Facility[1]	
Maximum quantity	**The total annual throughput for the facility shall not exceed 60,000 tonnes.** **Note 1 – waste in this table shall be accepted for R3, R4, R5 and R13 operations at the Materials Recycling Facility (Table S1.1, activities A2 and A15)**
Waste Code	**Description**
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 01	paper and cardboard packaging
15 01 02	plastic packaging
15 01 03	wooden packaging
15 01 04	metallic packaging
15 01 05	composite packaging
15 01 06	mixed packaging
15 01 07	glass packaging
15 01 09	textile packaging
15 02	**absorbents, filter materials, wiping cloths and protective clothing**
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
19	**WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE**
19 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 01	paper and cardboard
19 12 02	ferrous metal
19 12 03	non-ferrous metal
19 12 04	plastic and rubber
19 12 05	glass
19 12 07	wood other than that mentioned in 19 12 06
19 12 08	textiles
19 12 09	minerals (for example sand, stones)
19 12 10	combustible waste (refuse derived fuel)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11

Table S2.2 Permitted waste types and quantities for treatment at the MDR Materials Recycling Facility[1]	
Maximum quantity	**The total annual throughput for the facility shall not exceed 60,000 tonnes.** **Note 1 – waste in this table shall be accepted for R3, R4, R5 and R13 operations at the Materials Recycling Facility (Table S1.1, activities A2 and A15)**
Waste Code	**Description**
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 01	paper and cardboard
20 01 02	glass
20 01 08	biodegradable kitchen and canteen waste
20 01 10	clothes
20 01 11	textiles
20 01 38	wood other than that mentioned in 20 01 37
20 01 39	plastics
20 01 40	metals
20 03	**other municipal wastes**
20 03 01	mixed municipal waste
20 03 02	waste from markets

Table S2.3 Permitted waste types and quantities for treatment at the Household Waste Recycling Centre[1]	
Maximum quantity	**The total annual throughput for the Household Waste Recycling Centre shall not exceed 12,000 tonnes.** **Note 1 – waste in this table shall be accepted for R3, R4, R5, R13, D9, D14 and D15 operations at the Household Waste Recycling Centre (Table S1.1, activity A16)**
Waste Code	**Description**
17	**CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**
17 01	**concrete, bricks, tiles and ceramics**
17 01 01	concrete
17 01 02	bricks
17 01 03	tiles and ceramics
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 06	**insulation materials and asbestos-containing construction materials**
17 06 01*	insulation materials containing asbestos
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
17 06 05*	construction materials containing asbestos
17 08	**gypsum-based construction material**
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01
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 01	paper and cardboard

Table S2.3 Permitted waste types and quantities for treatment at the Household Waste Recycling Centre[1]	
Maximum quantity	**The total annual throughput for the Household Waste Recycling Centre shall not exceed 12,000 tonnes.** **Note 1 – waste in this table shall be accepted for R3, R4, R5, R13, D9, D14 and D15 operations at the Household Waste Recycling Centre (Table S1.1, activity A16)**
Waste Code	**Description**
20 01 02	glass
20 01 08	biodegradable kitchen and canteen waste
20 01 10	clothes
20 01 11	textiles
20 01 13*	solvents
20 01 14*	acids
20 01 15*	alkalines
20 01 17*	photochemicals
20 01 19*	pesticides
20 01 21*	fluorescent tubes and other mercury-containing waste
20 01 23*	discarded equipment containing chlorofluorocarbons
20 01 25	edible oil and fat
20 01 26*	oil and fat other than those mentioned in 20 01 25
20 01 27*	paint, inks, adhesives and resins containing dangerous substances
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
20 01 29*	detergents containing dangerous substances
20 01 30	detergents other than those mentioned in 20 01 29
20 01 33*	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries
20 01 34	batteries and accumulators other than those mentioned in 20 01 33
20 01 35*	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 01 37*	wood containing dangerous substances
20 01 38	wood other than that mentioned in 20 01 37
20 01 39	plastics
20 01 40	metals
20 01 41	wastes from chimney sweeping
20 02	**garden and park wastes (including cemetery waste)**
20 02 01	biodegradable waste
20 02 02	soil and stones
20 02 03	other non-biodegradable wastes
20 03	**other municipal wastes**
20 03 01	mixed municipal waste
20 03 07	bulky waste

Table S2.4 Permitted waste types and quantities for treatment at the Composting Facility[1]	
Maximum quantity	**The total annual throughput for the facility shall not exceed 25,000 tonnes.** **Note 1 – waste in this table shall be accepted for R3 and R13 operations at the Composting Facility (Table S1.1, activity A3)**
Waste Code	**Description**
02	**WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING**
02 01	**wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing**
02 01 03	plant-tissue waste
02 01 07	wastes from forestry
02 02	**wastes from the preparation and processing of meat, fish and other foods of animal origin**
02 02 03	materials unsuitable for consumption or processing
02 03	**wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation**
02 03 01	sludges from washing, cleaning, peeling, centrifuging and separation
02 03 04	materials unsuitable for consumption or processing
02 03 05	sludges from on-site effluent treatment
02 04	**wastes from sugar processing**
02 04 01	soil from cleaning and washing beet
02 04 03	sludges from on-site effluent treatment
02 05	**wastes from the dairy products industry**
02 05 01	materials unsuitable for consumption or processing
02 05 02	sludges from on-site effluent treatment
02 06	**wastes from the baking and confectionery industry**
02 06 01	materials unsuitable for consumption or processing
02 06 03	sludges from on-site effluent treatment
02 07	**wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)**
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	wastes from spirits distillation
02 07 04	materials unsuitable for consumption or processing
02 07 05	sludges from on-site effluent treatment
03	**WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD**
03 01	**Wastes from wood processing and the production of panels and furniture**
03 01 01	waste bark and wood
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
03 03	**wastes from pulp, paper and cardboard production and processing**
03 03 01	waste bark and wood
03 03 10	fibre rejects, fibre-, filler-and coating sludges from mechanical separation

Table S2.4 Permitted waste types and quantities for treatment at the Composting Facility[1]	
Maximum quantity	**The total annual throughput for the facility shall not exceed 25,000 tonnes.** **Note 1 – waste in this table shall be accepted for R3 and R13 operations at the Composting Facility (Table S1.1, activity A3)**
Waste Code	**Description**
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 01	paper and cardboard packaging
15 01 03	wooden packaging
15 01 05	composite packaging
15 01 09	textile packaging
17	**CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**
17 02	**wood, glass and plastic**
17 02 01	Wood
19	**WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE**
19 05	**wastes from aerobic treatment of solid waste**
19 05 03	off-specification compost
19 06	**wastes from anaerobic treatment of waste**
19 06 03	liquor from anaerobic treatment of municipal waste
19 06 04	digestate from anaerobic treatment of municipal waste
19 06 05	liquor from anaerobic treatment of animal and vegetable waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste
19 08	**wastes from waste water treatment plants not otherwise specified**
19 08 05	sludges from treatment of urban waste water
19 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 01	paper and cardboard
19 12 07	wood other than that mentioned in 19 12 06
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 01	paper and cardboard
20 01 08	biodegradable kitchen and canteen waste
20 01 25	edible oil and fat
20 01 38	wood other than that mentioned in 20 01 37
20 02	**garden and park wastes (including cemetery waste)**
20 02 01	biodegradable waste
20 03	**other municipal wastes**
20 03 02	waste from markets

Table S2.5 Permitted waste types and quantities for treatment at the RWTF and Materials Recycling Facility [1]	
Maximum quantity	**The total annual throughput for the facility shall not exceed 145,600 tonnes.** **Note 1 – waste in this table shall be accepted for R3, R4, R5, R13, D9, D14 and D15 activities at the Residual Waste Treatment Facility (Table S1.1, activities A2 and A15)**
Waste Code	**Description**
01	**WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS**
01 01	**wastes from mineral excavation**
01 01 01	wastes from metalliferous excavation
01 01 02	wastes from non-metalliferous excavation
01 03	**wastes from physical and chemical processing of metalliferous minerals**
01 03 06	tailings other than those mentioned in 01 03 04 and 01 03 05
01 03 09	red mud from alumina production other than the wastes mentioned in 01 03 07
01 04	**wastes from physical and chemical processing of non-metalliferous minerals**
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
01 04 11	wastes from potash and rock salt processing other than those mentioned in 01 04 07
01 04 12	tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11
01 04 13	wastes from stone cutting and sawing other than those mentioned in 01 04 07
02	**WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING**
02 01	**wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing**
02 01 01	sludges from washing and cleaning
02 01 02	animal-tissue waste
02 01 03	plant-tissue waste
02 01 04	waste plastics (except packaging)
02 01 06	animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site
02 01 07	wastes from forestry
02 01 09	agrochemical waste other than those mentioned in 02 01 08
02 01 10	waste metal
02 02	**wastes from the preparation and processing of meat, fish and other foods of animal origin**
02 02 01	sludges from washing and cleaning
02 02 02	animal-tissue waste
02 02 03	materials unsuitable for consumption or processing
02 02 04	sludges from on-site effluent treatment
02 03	**wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation**
02 03 01	sludges from washing, cleaning, peeling, centrifuging and separation
02 03 02	wastes from preserving agents
02 03 03	wastes from solvent extraction
02 03 04	materials unsuitable for consumption or processing

Table S2.5 Permitted waste types and quantities for treatment at the RWTF and Materials Recycling Facility [1]	
Maximum quantity	**The total annual throughput for the facility shall not exceed 145,600 tonnes.** **Note 1 – waste in this table shall be accepted for R3, R4, R5, R13, D9, D14 and D15 activities at the Residual Waste Treatment Facility (Table S1.1, activities A2 and A15)**
Waste Code	**Description**
02 03 05	sludges from on-site effluent treatment
02 04	**wastes from sugar processing**
02 04 01	soil from cleaning and washing beet
02 04 02	off-specification calcium carbonate
02 04 03	sludges from on-site effluent treatment
02 05	**wastes from the dairy products industry**
02 05 01	materials unsuitable for consumption or processing
02 05 02	sludges from on-site effluent treatment
02 06	**wastes from the baking and confectionery industry**
02 06 01	materials unsuitable for consumption or processing
02 06 02	wastes from preserving agents
02 06 03	sludges from on-site effluent treatment
02 07	**wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)**
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	wastes from spirits distillation
02 07 03	wastes from chemical treatment
02 07 04	materials unsuitable for consumption or processing
02 07 05	sludges from on-site effluent treatment
03	**WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD**
03 01	**wastes from wood processing and the production of panels and furniture**
03 01 01	waste bark and wood
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
03 03	**wastes from pulp, paper and cardboard production and processing**
03 03 01	waste bark and wood
03 03 07	mechanically separated rejects from pulping of waste paper and cardboard
03 03 08	wastes from sorting of paper and cardboard destined for recycling
03 03 10	fibre rejects, fibre-, filler-and coating sludges from mechanical separation
04	**WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES**
04 01	**wastes from the leather and fur industry**
04 01 08	waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium
04 01 09	wastes from dressing and finishing
04 02	**waste from the textile industry**
04 02 21	wastes from unprocessed textile fibres
04 02 22	wastes from processed textile fibres

Table S2.5 Permitted waste types and quantities for treatment at the RWTF and Materials Recycling Facility [1]	
Maximum quantity	**The total annual throughput for the facility shall not exceed 145,600 tonnes.** **Note 1 – waste in this table shall be accepted for R3, R4, R5, R13, D9, D14 and D15 activities at the Residual Waste Treatment Facility (Table S1.1, activities A2 and A15)**
Waste Code	**Description**
06	**WASTES FROM INORGANIC CHEMICAL PROCESSES**
06 09	**wastes from the MSFU of phosphorous chemicals and phosphorous chemical processes**
06 09 02	phosphorous slag
06 09 04	calcium-based reaction wastes other than those mentioned in 06 09 03
06 11	**wastes from the manufacture of inorganic pigments and opacificiers**
06 11 01	calcium-based reaction wastes from titanium dioxide production
07	**WASTES FROM ORGANIC CHEMICAL PROCESSES**
07 02	**wastes from the MFSU of plastics, synthetic rubber and man-made fibres**
07 02 13	waste plastic
09	**WASTES FROM THE PHOTOGRAPHIC INDUSTRY**
09 01	**wastes from the photographic industry**
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
09 01 10	single-use cameras without batteries
09 01 12	single-use cameras containing batteries other than those mentioned in 09 01 11
10	**WASTES FROM THERMAL PROCESSES**
10 01	**wastes from power stations and other combustion plants (except 19)**
10 01 01	bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
10 01 05	calcium-based reaction wastes from flue-gas desulphurisation in solid form
10 01 07	calcium-based reaction wastes from flue-gas desulphurisation in sludge form
10 01 15	bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
10 01 19	wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
10 01 24	sands from fluidised beds
10 02	**wastes from the iron and steel industry**
10 02 01	wastes from the processing of slag
10 02 02	unprocessed slag
10 02 08	solid wastes from gas treatment other than those mentioned in 10 02 07
10 02 10	mill scales
10 02 14	sludges and filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15	other sludges and filter cakes
10 03	**wastes from aluminium thermal metallurgy**
10 03 02	anode scraps
10 03 05	waste alumina
10 03 16	skimmings other than those mentioned in 10 03 15
10 03 18	carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17
10 03 24	solid wastes from gas treatment other than those mentioned in 10 03 23
10 03 26	sludges and filter cakes from gas treatment other than those mentioned in 10 03 25

Table S2.5 Permitted waste types and quantities for treatment at the RWTF and Materials Recycling Facility [1]	
Maximum quantity	**The total annual throughput for the facility shall not exceed 145,600 tonnes.** **Note 1 – waste in this table shall be accepted for R3, R4, R5, R13, D9, D14 and D15 activities at the Residual Waste Treatment Facility (Table S1.1, activities A2 and A15)**
Waste Code	**Description**
10 03 28	wastes from cooling-water treatment other than those mentioned in 10 03 27
10 03 30	wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29
10 04	**wastes from lead thermal metallurgy**
10 04 10	wastes from cooling-water treatment other than those mentioned in 10 04 09
10 05	**wastes from zinc thermal metallurgy**
10 05 01	slags from primary and secondary production
10 05 09	wastes from cooling-water treatment other than those mentioned in 10 05 08
10 05 11	dross and skimmings other than those mentioned in 10 05 10
10 06	**wastes from copper thermal metallurgy**
10 06 01	slags from primary and secondary production
10 06 02	dross and skimmings from primary and secondary production
10 06 10	wastes from cooling-water treatment other than those mentioned in 10 06 09
10 07	**wastes from silver, gold and platinum thermal metallurgy**
10 07 01	slags from primary and secondary production
10 07 02	dross and skimmings from primary and secondary production
10 07 03	solid wastes from gas treatment
10 07 05	sludges and filter cakes from gas treatment
10 07 08	wastes from cooling-water treatment other than those mentioned in 10 07 07
10 08	**wastes from other non-ferrous thermal metallurgy**
10 08 09	other slags
10 08 11	dross and skimmings other than those mentioned in 10 08 10
10 08 13	carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12
10 08 14	anode scrap
10 08 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17
10 08 20	wastes from cooling-water treatment other than those mentioned in 10 08 19
10 09	**wastes from casting of ferrous pieces**
10 09 03	furnace slag
10 09 06	casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05
10 09 08	casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07
10 09 14	waste binders other than those mentioned in 10 09 13
10 09 16	waste crack-indicating agent other than those mentioned in 10 09 15
10 11	**wastes from manufacture of glass and glass products**
10 11 03	waste glass-based fibrous materials
10 11 10	waste preparation mixture before thermal processing, other than those mentioned in 10 11 09
10 11 12	waste glass other than those mentioned in 10 11 11
10 11 16	solid wastes from flue-gas treatment other than those mentioned in 10 11 15
10 11 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17

Table S2.5 Permitted waste types and quantities for treatment at the RWTF and Materials Recycling Facility [1]	
Maximum quantity	**The total annual throughput for the facility shall not exceed 145,600 tonnes.** **Note 1 – waste in this table shall be accepted for R3, R4, R5, R13, D9, D14 and D15 activities at the Residual Waste Treatment Facility (Table S1.1, activities A2 and A15)**
Waste Code	**Description**
10 12	**wastes from manufacture of ceramic goods, bricks, tiles and construction products**
10 12 01	waste preparation mixture before thermal processing
10 12 05	sludges and filter cakes from gas treatment
10 12 06	discarded moulds
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)
10 12 10	solid wastes from gas treatment other than those mentioned in 10 12 09
10 12 12	wastes from glazing other than those mentioned in 10 12 11
10 13	**wastes from manufacture of cement, lime and plaster and articles and products made from them**
10 13 01	waste preparation mixture before thermal processing
10 13 04	wastes from calcination and hydration of lime
10 13 07	sludges and filter cakes from gas treatment
10 13 10	wastes from asbestos-cement manufacture other than those mentioned in 10 03 09
10 13 11	wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10
10 13 13	solid wastes from gas treatment other than those mentioned in 10 13 12
10 13 14	waste concrete and concrete sludge
11	**WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY**
11 01	**wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)**
11 01 10	sludges and filter cakes other than those mentioned in 11 01 09
11 01 14	degreasing wastes other than those mentioned in 11 01 13
11 02	**wastes from non-ferrous hydrometallurgical processes**
11 02 03	wastes from the production of anodes for aqueous electrolytical processes
11 02 06	wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05
11 05	**wastes from hot galvanising processes**
11 05 01	hard zinc
11 05 02	zinc ash
12	**WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS**
12 01	**wastes from shaping and physical and mechanical surface treatment of metals and plastics**
12 01 01	ferrous metal filings and turnings
12 01 03	non-ferrous metal filings and turnings
12 01 05	plastics shavings and turnings
12 01 13	welding wastes
12 01 17	waste blasting material other than those mentioned in 12 01 16
12 01 21	spent grinding bodies and grinding materials other than those mentioned in 12 01 20

Table S2.5 Permitted waste types and quantities for treatment at the RWTF and Materials Recycling Facility [1]	
Maximum quantity	**The total annual throughput for the facility shall not exceed 145,600 tonnes.** **Note 1 – waste in this table shall be accepted for R3, R4, R5, R13, D9, D14 and D15 activities at the Residual Waste Treatment Facility (Table S1.1, activities A2 and A15)**
Waste Code	**Description**
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 01	paper and cardboard packaging
15 01 02	plastic packaging
15 01 03	wooden packaging
15 01 04	metallic packaging
15 01 05	composite packaging
15 01 06	mixed packaging
15 01 07	glass packaging
15 01 09	textile packaging
15 02	**absorbents, filter materials, wiping cloths and protective clothing**
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
16	**WASTES NOT OTHERWISE SPECIFIED IN THE LIST**
16 01	**end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)**
16 01 03	end-of-life tyres
16 02	**wastes from electrical and electronic equipment**
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15
16 03	**off-specification batches and unused products**
16 03 04	inorganic wastes other than those mentioned in 16 03 03
16 03 06	organic wastes other than those mentioned in 16 03 05
16 06	**batteries and accumulators**
16 06 04	alkaline batteries (except 16 06 03)
16 06 05	other batteries and accumulators
16 11	**waste linings and refractories**
16 11 02	carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11 01
16 11 04	other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
16 11 06	linings and refractories from non-metallurgical processes others than those mentioned in 16 11 05
17	**CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**
17 01	**concrete, bricks, tiles and ceramics**
17 01 01	concrete
17 01 02	bricks
17 01 03	tiles and ceramics

Table S2.5 Permitted waste types and quantities for treatment at the RWTF and Materials Recycling Facility [1]	
Maximum quantity	**The total annual throughput for the facility shall not exceed 145,600 tonnes.** **Note 1 – waste in this table shall be accepted for R3, R4, R5, R13, D9, D14 and D15 activities at the Residual Waste Treatment Facility (Table S1.1, activities A2 and A15)**
Waste Code	**Description**
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02	**wood, glass and plastic**
17 02 01	wood
17 02 02	glass
17 02 03	plastic
17 03	**bituminous mixtures, coal tar and tarred products**
17 03 02	bituminous mixtures other than those mentioned in 17 03 01
17 04	**metals (including their alloys)**
17 04 01	copper, bronze, brass
17 04 02	aluminium
17 04 03	lead
17 04 04	zinc
17 04 05	iron and steel
17 04 06	tin
17 04 07	mixed metals
17 04 11	cables other than those mentioned in 17 04 10
17 05	**soil (including excavated soil from contaminated sites), stones and dredging spoil**
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 08	track ballast other than those mentioned in 17 05 07
17 06	**insulation materials and asbestos-containing construction materials**
17 06 01*	insulation materials containing asbestos
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
17 06 05*	construction materials containing asbestos
17 08	**gypsum-based construction material**
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01
17 09	**other construction and demolition wastes**
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
19	**WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE**
19 01	**wastes from incineration or pyrolysis of waste**
19 01 02	ferrous materials removed from bottom ash
19 01 12	bottom ash and slag other than those mentioned in 19 01 11
19 01 14	fly ash other than those mentioned in 19 01 13
19 01 16	boiler dust other than those mentioned in 19 01 15
19 01 18	pyrolysis wastes other than those mentioned in 19 01 17
19 01 19	sands from fluidised beds

Table S2.5 Permitted waste types and quantities for treatment at the RWTF and Materials Recycling Facility [1]	
Maximum quantity	**The total annual throughput for the facility shall not exceed 145,600 tonnes.** **Note 1 – waste in this table shall be accepted for R3, R4, R5, R13, D9, D14 and D15 activities at the Residual Waste Treatment Facility (Table S1.1, activities A2 and A15)**
Waste Code	**Description**
19 02	**wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)**
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 03	**stabilised/solidified wastes**
19 03 05	stabilised wastes other than those mentioned in 19 03 04
19 03 07	solidified wastes other than those mentioned in 19 03 06
19 04	**vitrified waste and wastes from vitrification**
19 04 01	vitrified waste
19 04 04	aqueous liquid wastes from vitrified waste tempering
19 05	**wastes from aerobic treatment of solid wastes**
19 05 01	non-composted fraction of municipal and similar wastes
19 05 02	non-composted fraction of animal and vegetable waste
19 05 03	off-specification compost
19 06	**wastes from anaerobic treatment of waste**
19 06 03	liquor from anaerobic treatment of municipal waste
19 06 04	digestate from anaerobic treatment of municipal waste
19 06 05	liquor from anaerobic treatment of animal and vegetable waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste
19 08	**wastes from waste water treatment plants not otherwise specified**
19 08 01	screenings
19 08 02	waste from desanding
19 08 05	sludges from treatment of urban waste water
19 08 09	grease and oil mixture from oil/water separation containing only edible oils and fats
19 08 12	sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 08 14	sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
19 09	**wastes from the preparation of water intended for human consumption or water for industrial use**
19 09 01	solid waste from primary filtration and screenings
19 09 02	sludges from water clarification
19 09 03	sludges from decarbonation
19 09 04	spent activated carbon
19 09 05	saturated or spent ion exchange resins
19 09 06	solutions and sludges from regeneration of ion exchangers
19 10	**wastes from shredding of metal-containing wastes**
19 10 01	iron and steel waste

Table S2.5 Permitted waste types and quantities for treatment at the RWTF and Materials Recycling Facility [1]	
Maximum quantity	**The total annual throughput for the facility shall not exceed 145,600 tonnes.** **Note 1 – waste in this table shall be accepted for R3, R4, R5, R13, D9, D14 and D15 activities at the Residual Waste Treatment Facility (Table S1.1, activities A2 and A15)**
Waste Code	**Description**
19 10 02	non-ferrous waste
19 10 04	fluff-light fraction and dust other than those mentioned in 19 10 03
19 10 06	other fractions other than those mentioned in 19 10 05
19 11	**wastes from oil regeneration**
19 11 06	sludges from on-site effluent treatment other than those mentioned in 19 11 05
19 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 01	paper and cardboard
19 12 02	ferrous metal
19 12 03	non-ferrous metal
19 12 04	plastic and rubber
19 12 05	glass
19 12 07	wood other than that mentioned in 19 12 06
19 12 08	textiles
19 12 09	minerals (for example sand, stones)
19 12 10	combustible waste (refuse derived fuel)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13	**wastes from soil and groundwater remediation**
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
19 13 06	sludges from groundwater remediation other than those mentioned in 19 13 05
19 13 08	aqueous liquid wastes and aqueous concentrates from groundwater remediation other than those mentioned in 19 13 07
20	**MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**
20 01	**separately collected fractions (except 15 01)**
20 01 01	paper and cardboard
20 01 02	glass
20 01 08	biodegradable kitchen and canteen waste
20 01 10	clothes
20 01 11	textiles
20 01 13*	solvents
20 01 14*	acids
20 01 15*	alkalines
20 01 17*	photochemicals
20 01 19*	pesticides
20 01 21*	fluorescent tubes and other mercury-containing waste
20 01 23*	**discarded equipment containing chlorofluorocarbons**

Table S2.5 Permitted waste types and quantities for treatment at the RWTF and Materials Recycling Facility [1]	
Maximum quantity	**The total annual throughput for the facility shall not exceed 145,600 tonnes.** **Note 1 – waste in this table shall be accepted for R3, R4, R5, R13, D9, D14 and D15 activities at the Residual Waste Treatment Facility (Table S1.1, activities A2 and A15)**
Waste Code	**Description**
20 01 25	edible oil and fat
20 01 26*	oil and fat other than those mentioned in 20 01 25
20 01 27*	paint, inks, adhesives and resins containing dangerous substances
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
20 01 29*	detergents containing dangerous substances
20 01 30	detergents other than those mentioned in 20 01 29
20 01 31*	cytotoxic and cytostatic medicines
20 01 32	medicines other than those mentioned in 20 01 31
20 01 33*	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries
20 01 34	batteries and accumulators other than those mentioned in 20 01 33
20 01 35*	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 01 37*	wood containing dangerous substances
20 01 38	wood other than that mentioned in 20 01 37
20 01 39	plastics
20 01 40	metals
20 01 41	wastes from chimney sweeping
20 02	**garden and park wastes (including cemetery waste)**
20 02 01	biodegradable waste
20 02 02	soil and stones
20 02 03	other non-biodegradable wastes
20 03	**other municipal wastes**
20 03 01	mixed municipal waste
20 03 02	waste from markets
20 03 03	street-cleaning residues
20 03 04	septic tank sludge
20 03 06	waste from sewage cleaning
20 03 07	bulky waste

Table S2.6 Permitted waste types and quantities for treatment at the Anaerobic Digestion Facility[1]	
Maximum quantity	**The total annual throughput for the facility shall not exceed 65,345 tonnes.** **Note 1 – waste in this table shall be accepted for R3 and R13 activities at the Residual Waste Treatment Facility (Table S1.1, activity A1)**
Waste Code	**Description**
02 01	**wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing**
02 01 01	sludges from washing and cleaning – food processing waste, food washing waste
02 01 02	animal-tissue waste including blood, animal flesh, fish processing waste, fish carcasses, poultry waste
02 01 03	plant-tissue waste including husks, cereal dust, waste animal feeds, off-cuts from vegetable and fruit and other vegetation waste
02 01 06	animal faeces, urine and manure including spoiled straw
02 01 07	wastes from forestry
02 01 99	residues from commercial mushroom cultivation
02 02	**wastes from the preparation and processing of meat, fish and other foods of animal origin**
02 02 01	sludges from washing and cleaning, process water, food washing waste
02 02 02	animal-tissue waste including blood, animal flesh, fish processing waste, fish carcasses, poultry waste
02 02 03	materials unsuitable for consumption or processing
02 02 04	sludges from on-site effluent treatment
02 02 99	sludges from gelatine production, animal gut contents
02 03	**wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation**
02 03 01	sludges from washing, cleaning, peeling, centrifuging and separation
02 03 04	materials unsuitable for consumption or processing
02 03 05	sludges from on-site effluent treatment
02 03 99	sludge from production of edible fats and oils, seasoning residues, molasses residues, residues from production of potato, corn or rice starch only
02 04	**wastes from sugar processing**
02 04 03	sludges from on-site effluent treatment
02 04 99	other wastes
02 05	**wastes from the dairy products industry**
02 05 01	materials unsuitable for consumption or processing including solid and liquid dairy products, milk, food processing wastes, yoghurt, whey
02 05 02	sludges from on-site effluent treatment
02 06	**wastes from the baking and confectionery industry**
02 06 01	materials unsuitable for consumption or processing including condemned food, food processing wastes, biscuits, chocolate, yeast, bread, bakery wastes
02 06 02	wastes from preserving agents
02 06 03	sludges from on-site effluent treatment
02 07	**wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)**
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials including brewing waste, food processing waste, fermentation waste

Table S2.6 Permitted waste types and quantities for treatment at the Anaerobic Digestion Facility[1]	
Maximum quantity	**The total annual throughput for the facility shall not exceed 65,345 tonnes.** **Note 1 – waste in this table shall be accepted for R3 and R13 activities at the Residual Waste Treatment Facility (Table S1.1, activity A1)**
Waste Code	**Description**
02 07 04	materials unsuitable for consumption or processing including brewing waste, food processing waste, fermentation waste, beer, alcoholic drinks, fruit juice
02 07 05	sludges from on-site effluent treatment
02 07 99	spent grains, hops and whisky filter sheets/cloths, yeast and yeast-like residues, sludge from production process
03	**WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD**
03 01	**wastes from wood processing and the production of panels and furniture**
03 01 01	waste bark and wood – untreated only
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04 – untreated wood only
03 03	**wastes from pulp, paper and cardboard production and processing**
03 03 02	green liquor sludge
03 03 08	paper and cardboard – not allowed if any non-biodegradable coating or preserving substance is present
03 03 10	fibre rejects and sludges i.e. paper pulp (de-inked only), paper fibre
03 03 11	sludges from on-site effluent treatment other than those mentioned in 03 03 10
04	**WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES**
04 01	**wastes from the leather and fur industry**
04 01 01	fleshings and lime split wastes
04 01 05	tanning liquor free of chromium
04 01 07	sludges not containing chromium
04 02	**waste from the textile industry**
04 02 10	organic matter from natural products (for example grease, wax)
07	**WASTES FROM ORGANIC CHEMICAL PROCESSES**
07 01	**Wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals**
07 01 08*	glycerol waste from bio-diesel manufacture from non-waste vegetable oils only
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 01	paper and cardboard packaging – not allowed if any non biodegradable coating or preserving substance is present
15 01 02	biodegradable plastic packaging – must be independently certified to BS EN 13432
15 01 03	untreated wooden packaging – not allowed if any non biodegradable coating or preserving substance is present
15 01 05	composite packaging – must conform to BS EN 13432 and not allowed if any non biodegradable coating or preserving substance is present
16	**WASTES NOT OTHERWISE SPECIFIED IN THE LIST**
16 10	**Aqueous liquid wastes destined for off-site treatment**

Table S2.6 Permitted waste types and quantities for treatment at the Anaerobic Digestion Facility[1]	
Maximum quantity	**The total annual throughput for the facility shall not exceed 65,345 tonnes.** **Note 1 – waste in this table shall be accepted for R3 and R13 activities at the Residual Waste Treatment Facility (Table S1.1, activity A1)**
Waste Code	**Description**
16 10 02	liquor/leachate from a composting process that accepts waste input types listed in this table only
19	**WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE**
19 02	**wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)**
19 02 03	waste types listed in this table, Table S2.6, that have been mixed together only
19 02 06	sludge types from waste listed in this table, Table S2.6, that have been heat treated only
19 02 10	glycerol not designated as hazardous i.e. excludes EWC code 19 02 08
19 05	**wastes from aerobic treatment of solid wastes**
19 05 01	non-composted fraction of municipal and similar wastes – acceptable only if derived solely from input types allowed by the AD Quality Protocol and remains segregated from, and uncontaminated by, any other waste type
19 05 02	non-composted fraction of animal and vegetable waste – acceptable only if derived solely from input types allowed by the AD Quality Protocol and remains segregated from, and uncontaminated by, any other waste type
19 05 03	off-specification compost – acceptable only if derived solely from input types allowed by the AD Quality Protocol and remains segregated from, and uncontaminated by, any other waste type
19 06	**wastes from anaerobic treatment of waste**
19 06 03	liquor from anaerobic treatment of municipal waste (from a process that treats wastes which are listed in this table only)
19 06 04	digestate from anaerobic treatment of source segregated biodegradable waste (from a process that treats wastes which are listed in this table only)
19 06 05	liquor from anaerobic treatment of animal and vegetable waste (from a process that treats wastes which are listed in this table only)
19 06 06	digestate from anaerobic treatment of animal and vegetable waste (from a process that treats wastes which are listed in this table only)
19 08	**wastes from waste water treatment plants not otherwise specified**
19 08 09	grease and oil mixture containing edible oils and fats
19 08 12	sludges from industrial biological treatment
19 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 12	waste types listed in this table, Table S2.6, that have been subjected to mechanical treatment only
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 01	paper and cardboard – not allowed if any non biodegradable coating or preserving substance is present. Excludes laminates such as Tetrapaks.
20 01 08	kitchen and canteen waste
20 01 25	edible oil and fat
20 01 38	untreated wood where no non biodegradable coating or preserving substance is present

Table S2.6 Permitted waste types and quantities for treatment at the Anaerobic Digestion Facility[1]	
Maximum quantity	**The total annual throughput for the facility shall not exceed 65,345 tonnes.** **Note 1 – waste in this table shall be accepted for R3 and R13 activities at the Residual Waste Treatment Facility (Table S1.1, activity A1)**
Waste Code	**Description**
20 02	**garden and park wastes (including cemetery waste)**
20 02 01	biodegradable waste
20 03	**other municipal wastes**
20 03 01	mixed municipal waste – separately collected biowastes
20 03 02	waste from markets – allowed only if source segregated biodegradable fractions e.g. plant material, fruit and vegetables

Table S2.7 Permitted waste types and quantities for treatment at the Effluent Treatment Plant[1]	
Maximum quantity	**The total annual throughput for the facility shall not exceed 76,285 tonnes.** **Note 1 – waste in this table shall be accepted for D8 D9 and D15 activities at the Residual Waste Treatment Facility (Table S1.1, activity A4)**
Waste Code	**Description**
19	**WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE**
19 06	**Wastes from anaerobic treatment of waste**
19 06 03	Liquor from anaerobic treatment of municipal waste
19 06 99	Compost leachate

Schedule 3 - Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Parameter**	**Source**	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
EP06 [Point EP06 on site plan in drawing SK-EXT-9140, issue A07, dated 21/04/15.]	Oxides of Nitrogen (NO and NO_2 expressed as NO_2)	Steam boiler [1]	500 mg/m^3	Hourly average	Annually	BS EN 14792
	Carbon monoxide		1,400 mg/m^3			BS EN 15058
	Total Volatile Organic Compounds (VOCs)		1,000 mg/m^3			BS EN 12619:2013
	Sulphur dioxide		350 mg/m^3			BS EN 14791
EP07 [Point EP07 on site plan in drawing SK-EXT-9140, issue A07, dated 21/04/15.]	Oxides of Nitrogen (NO and NO_2 expressed as NO_2)	Steam boiler [1]	500 mg/m^3	Hourly average	Annually	BS EN 14792
	Carbon monoxide		1,400 mg/m^3			BS EN 15058
	Total Volatile Organic Compounds (VOCs)		1,000 mg/m^3			BS EN 12619:2013
	Sulphur dioxide		350 mg/m^3			BS EN 14791
EP09 [Point EP09 on site plan in drawing SK-EXT-9140, issue A07, dated 21/04/15.]	Oxides of Nitrogen (NO and NO_2 expressed as NO_2)	CHP engine stack [1]	500 mg/m^3	Hourly average	Annually	BS EN 14792
	Carbon monoxide		1,400 mg/m^3			BS EN 15058
	Total Volatile Organic Compounds (VOCs)		1,000 mg/m^3			BS EN 12619:2013
	Sulphur dioxide		350 mg/m^3			BS EN 14791

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Parameter**	**Source**	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
EP10 [Point EP10 on site plan in drawing SK-EXT-9140, issue A07, dated 21/04/15.]	Oxides of Nitrogen (NO and NO_2 expressed as NO_2)	CHP engine stack [1]	500 mg/m^3	Hourly average	Annually	BS EN 14792
	Carbon monoxide		1,400 mg/m^3			BS EN 15058
	Total Volatile Organic Compounds (VOCs)		1,000 mg/m^3			BS EN 12619:2013
	Sulphur dioxide		350 mg/m^3			BS EN 14791
EP12 [Point EP12 on site plan in drawing SK-EXT-9140, issue A07, dated 21/04/15.]	Oxides of Nitrogen (NO and NO_2 expressed as NO_2)	Flare stack [2]	150 mg/m^3	Hourly average	Note [3]	BS EN 14792
	Carbon monoxide		50 mg/m^3			BS EN 15058
	Total Volatile Organic Compounds (VOCs)		10 mg/m^3			BS EN 12619:2013
EP01 [Point EP01 on site plan in drawing SK-EXT-9140, issue A07, dated 21/04/15.]	No parameter set	Bag filter	No limit set	--	--	--
EP02 [Point EP02 on site plan in drawing SK-EXT-9140, issue A07, dated 21/04/15.]	No parameter set	Barrier 1 biofilter	No limit set	--	--	--
EP03 [Point EP03 on site plan in drawing SK-EXT-9140, issue A07, dated 21/04/15.]	No parameter set	Barrier 2 biofilter	No limit set	--	--	--

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Parameter**	**Source**	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
EP04 [Point EP04 on site plan in drawing SK-EXT-9140, issue A07, dated 21/04/15.]	No parameter set	Carbon filter	No limit set	--	--	--
EP05 [Point EP05 on site plan in drawing SK-EXT-9140, issue A07, dated 21/04/15.]	No parameter set	Carbon filter	No limit set	--	--	--
EP08 [Point EP08 on site plan in drawing SK-EXT-9140, issue A07, dated 21/04/15.]	No parameter set	Bioscrubber and carbon polishing	No limit set	--	--	--
EP11 [Point EP11 on site plan in drawing SK-EXT-9140, issue A07, dated 21/04/15.]	No parameter set	Bioscrubber and carbon polishing	No limit set	--	--	--
Pressure relief valves	No parameters set	Digesting tanks; Gas storage tank	No limit set	--	--	--

Note 1 - These limits are based on normal operating conditions and load. Temperature: 0°C (273K); pressure: 101.3 KPa and oxygen: 5 percent (dry gas)

Note 2 - These limits are based on normal operating conditions and load. Temperature: 0°C (273K); pressure: 101.3 KPa and oxygen: 3 percent (dry gas)

Note 3 – Annual emissions testing is only required if the flare has been operational for more than 10 per cent of a year (876 hours)

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	**Parameter**	**Source**	**Limit (incl. unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
W1 on site plan in schedule 7 - outfall from attenuation pond to off-site reed bed	No visible oil or grease	Uncontaminated site surface water from roofs and non-operational areas	No limit set	--	Daily	Visual assessment

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements						
Emission point ref. & location	**Parameter**	**Source**	**Limit (incl. Unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
S1 on site plan in schedule 7 - emission to Yorkshire Water South Elmsall Sewage Treatment Works	No parameter set	Site effluent treatment plant	No limit set	--	--	--

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**
Biogas from Digesting	Flow	Continuous	In accordance with EU Weights and Measures Regulations	--
Biogas from Digesting	Methane Hydrogen sulphide	Continuous	None specified	Gas monitors to be calibrated every 6 months or in accordance with the manufacturer's recommendations.
All waste treatment buildings; Digesting and Storage tanks	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary
Composting Facility Internal for each composting batch during sanitisation stage	Temperature	At least daily	Temperature probe	Monitoring equipment shall be available on site and used as required to maintain aerobic conditions and ensure compliance
	Moisture	None specified	None specified	

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**
Composting Facility Internal for each composting batch during stabilisation stage	Temperature	At least weekly	Temperature probe	with this permit. Equipment shall be calibrated on a 4 monthly basis or as agreed in writing by the Environment Agency.
	Moisture	None specified	None specified	
Composting Facility Biofilter	Temperature	As required	Temperature probe	Biofilter shall be regularly checked and maintained to ensure appropriate temperature and moisture content.
	Moisture	As required	None specified	
	Thatching/compaction	As required	None specified	
Scrubber / Carbon filtration system	Key process parameters to include pH, temperature and air flow	In accordance with manufacturer's recommendations	None specified	Scrubber / Carbon filtration system shall be regularly checked and maintained to ensure appropriate temperature and moisture content. Carbon filters shall be replaced when fully saturated in accordance with manufacturer's recommendations.
Digesting and Storage tanks	Integrity checks	Weekly	Visual assessment	--

Schedule 4 - Reporting

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

Table S4.1 Reporting of monitoring data			
Parameter	**Emission or monitoring point/reference**	**Reporting period**	**Period begins**
Emissions to air Parameters as required by condition 3.5.1.	EP06, EP07, EP09, EP10	Every 12 months	1 January

Table S4.2 Annual production/treatment	
Parameter	**Units**
Electricity generated	MWh
Liquid digestate	m^3 or litres
Solid digestate	tonnes
Compost	tonnes
Processed compost	tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
CHP gas engine usage	Annually	hours
Boiler usage	Annually	hours
CHP engine efficiency	Annually	%
Flare operation	Annually	hours
Electricity exported	Annually	MWh
Water usage	Annually	tonnes or m^3
Energy usage	Annually	MWh
Raw material usage	Annually	tonnes or m^3
Emergency flare operation	Annually	hours
Sewer	Annually	kilograms or litres or m^3

Table S4.4 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Air	Form air 1 or other form as agreed in writing by the Environment Agency	29/06/12
Energy usage	Form energy 1 or other form as agreed in writing by the Agency	29/06/12
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	29/06/12
Quarterly waste returns	Form WMS1	29/06/12

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	
Measures taken, or intended to be taken, to stop the emission	

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

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

Part B - to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 - Interpretation

"accident" means an accident that may result in pollution.

"ADQP" means Anaerobic Digestion Quality Protocol

"*anaerobic digestion*" means a process of controlled decomposition of biodegradable materials under managed conditions where free oxygen is absent, at temperatures suitable for naturally occurring mesophilic or thermophilic anaerobe and facultative anaerobe bacteria species, which convert the inputs to a methane-rich biogas and whole digestate.

"*animal waste*" means any waste consisting of animal matter that has not been processed into food for human consumption

"Annex I" means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"Annex II" means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"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.

"background concentration" means such concentration of that substance as is present in:

- for emissions to surface water, the surface water quality up-gradient of the site; or
- for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

"building" means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

"compost" means a solid particulate material that is the result of composting, which has been sanitised and stabilised, and which confers beneficial effects when added to soil, used as a component of growing media or used in another way in conjunction with plants.

"*compostable plastics*" means plastics that are certified to meet the standards of EN 13432, EN 14995 or equivalent.

"*composting batch*" means an identifiable quantity of material that progresses through the composting system and when fully processed has similar characteristics throughout. For composting systems that operate on a continuous or a plug-flow basis, batches will be taken to mean a series of "portions of production".

"*composting*" means the biological decomposition of organic materials, under conditions that are predominantly aerobic and that allow the development of thermophilic temperatures as a result of biologically produced heat and that result in compost.

"*closed system*" means a closed composting reactor or closed area (such as a building) in which waste is fully contained and efficient air management abatement systems are demonstrated. This may cover a wide range of technology and where necessary is in compliance with the Animal By-Products Regulations.

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

"digestate" means material resulting from an anaerobic digestion process

"emissions to land" includes emissions to groundwater.

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

"*enclosed reactor vessel*" means an enclosed system in which waste is fully contained and efficient air management abatement systems are demonstrated. This may cover a wide range of technology and, where necessary, is in compliance with Animal By-Products Regulations 2005 (SI No. 2347) and/or the Animals By-Products (Wales) Regulations 2006 (SI No 1293, W.127).

"EP Regulations" means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

"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.

"groundwater protection zones 1 and 2" have the meaning given in the document titled "Groundwater Protection: Policy and Practice" published by the Environment Agency in 2006.

"*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

"*Industry Standard Protocol*" means "A standardised protocol for the monitoring of bioaerosols at open composting facilities" published by the Association for Organics Recycling and developed in conjunction with the Environment Agency.

"MCERTS" means the Environment Agency's Monitoring Certification Scheme*.*

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

"pests" means Birds, Vermin and Insects

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

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

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

"treated wood" means any wood that has been chemically treated (e.g. to enhance or alter the performance of the original wood). Treatments may include penetrating oils, tar oil preservatives, water-borne preservatives, organic-based preservatives, boron and organo-metallic based preservatives, boron and halogenated flame retardants and surface treatments (including paint and venner).

"Waste code" means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

"Waste Framework Directive" or "WFD" means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste.

"year" means calendar year ending 31 December.

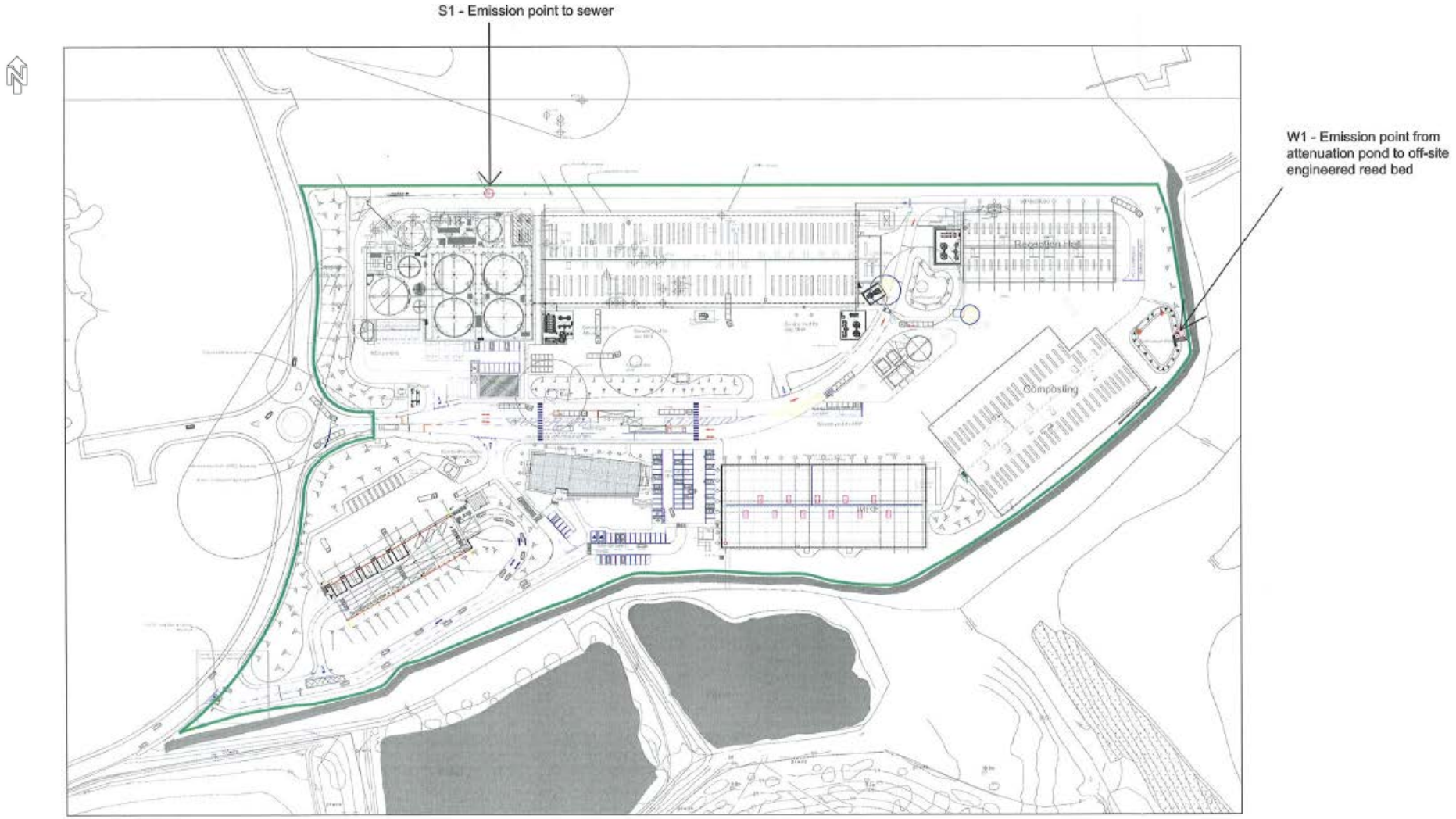
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

(a) 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

(b) in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

Schedule 7 - Site plan



END OF PERMIT