



Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Eurotech Waste Treatment Limited
Eurotech Waste Treatment Facility
Northern Road
Newark
NG24 2EU

Permit number

EPR/PP3531DN

Eurotech Waste Treatment Facility

Permit number EPR/PP3531DN

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The facility comprises the following activities listed in schedule 1 of the EP regulations:

- Section 5.3 Part A(1) (a)(ii)
- Section 5.4 Part A(1) (a)(ii)
- Section 5.6 Part A(1) (a)

And the following directly associated activated (DAA):

- Temporary storage of non-hazardous waste

Eurotech Waste Treatment Facility is located in Newark on Trent at approximate grid reference SK8056554555. The site comprises of a warehouse building, offices and a yard area. The surrounding land use comprises a railway station, residential and commercial properties.

The installation will treat hazardous and non-hazardous liquid and sludge waste via physio-chemical treatment, at a maximum of 50 m³/hr in any one waste stream. A sample of the waste will be taken prior to off-loading to ensure compatibility. Waste is brought in via tankers and discharged into storage tanks. Oils and solids will be screened and separated from the waste liquids/sludges, once separated washed, compacted and stored, will be removed off site for treatment by a third party contractor.

The waste is treated via an enclosed dissolved air flotation (DAF) cell system incorporating flocculator and white water system. Effluent is dosed with caustic to correct the pH, ferric chloride and polymer prior to DAF treatment. Once treated the effluent will be pumped to a storage tanks, one for non-hazardous and one for hazardous prior to discharge to sewer.

The receiving tanks to the rear of the building are housed outside, while the rest of the process and storage tanks are inside a building. An odour abatement system is installed which treats odours from all vessels. Non-hazardous wastes which have a high odour potential are treated via biotrickling biofilter and a pre-treated carbon absorber, which then vents outside the building to a 10 m stack. Hazardous wastes which have a lower odour potential are treated via the carbon filter alone before being discharged. The treatment building is enclosed and the air within is also under extraction via the carbon filter to deal with fugitive odours from within the building.

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

Status log of the permit		
Description	Date	Comments
Application EPR/PP3531DN/A001	Duly made 27/10/17	
Additional information received	21/02/18	Confirmation of process details, odour management, noise management, monitoring and drainage
Additional information received	22/08/18	Resubmission of proposals
Additional information received	30/11/18	Odour management plan (OMP) and accident management
Additional information received	18/02/19	Revised OMP

Status log of the permit		
Description	Date	Comments
Additional information received	01/08/19	Revised OMP (dated July 2019)
Additional information received	12/09/19	Revised OMP (dated September 2019)
Permit determined EPR/PP3531DN (PAS Billing ref. PP3531DN).	03/10/19	Permit issued to Eurotech Waste Treatment Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/PP3531DN

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

Eurotech Waste Treatment Limited (“the operator”),

whose registered office is

Northern Road

Newark

NG24 2EU

company registration number 10411896

to operate an installation at

Eurotech Waste Treatment Facility

Northern Road

Newark

NG24 2EU

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

Name	Date
Philip Lamb	03/10/19

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 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 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 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 red on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 tables S2.2 and S2.3; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.6 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

2.4 Improvement programme

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

2.5 Pre-operational conditions

- 2.5.1 The 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 and S3.2.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Where a substance is specified in schedule 3 table S3.2 but no limit is set for it, the concentration of such substance in emissions to water from the relevant emission point shall be no greater than the background concentration.
- 3.1.4 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

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

3.3 Odour

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

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
 - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1 and S3.2;
 - (b) process monitoring specified in table S3.3.
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2 unless otherwise agreed in writing by the Environment Agency.

3.6 Pests

- 3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.
- 3.6.2 The operator shall:
- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
 - (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.7 Fire prevention

- 3.7.1 The operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.

3.7.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to a risk of fire, submit to the Environment Agency for approval within the period specified, a fire prevention plan which prevents fires and minimises the risk of pollution from fires;
- (b) implement the fire prevention plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
- (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
- (b) the annual production/treatment data set out in schedule 4 table S4.2; and
- (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
- (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.3 Notifications

4.3.1 In the event:

- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
- (i) inform the Environment Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
- (b) of a breach of any permit condition the operator must immediately—
- (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

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

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

4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

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

- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

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

4.4 Interpretation

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

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

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR1	S5.3 Part A1 (a)(ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physio-chemical treatment.	Disposal of hazardous waste (physio-chemical treatment) via a DAF cell system (D9)	From receipt of wastes for treatment to storage of residues. Maximum of 100 tonnes per day. 25,000 tonnes per year. Hazardous waste types as specified in Schedule 2 table S2.2.
AR2	S5.4 Part A1 (a)(ii) Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving physio-chemical treatment.	Disposal/treatment of non-hazardous waste (physio-chemical treatment) via a DAF cell system (D9)	From receipt of wastes for treatment to storage of residues. Maximum of 150 tonnes per day. 49,000 tonnes per year. Non-hazardous waste types as specified in Schedule 2 table S2.3.
AR3	Section 5.6 Part A1 (a) Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes	Storage of hazardous waste (D15)	Hazardous waste types as specified in Schedule 2 table S2.2.
Directly Associated Activity			
AR4	-	Temporary storage of non-hazardous waste (D15)	Temporary storage of non-hazardous waste pending section 5.4 Part A1 (a)(ii) disposal of non-hazardous waste (physio-chemical treatment) 200 tonnes per day as per waste list in table S2.3.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	Sections 1.2, 1.4, 1.6 and 1.8 of the application document(s) provided in response to section 3a – technical standards, Part B3 of the application form	Duly Made 27/10/17 Amended forms 22/08/18
Application	Discharge consent to foul sewer	22/08/18
Response to schedule 5 Notice dated 22/11/18	Updated drainage plan and accident management plan	30/11/18
Response to Schedule 5 Notice dated 07/03/19	Response - Excluding Odour Management Plan	14/03/19

Table S1.2 Operating techniques		
Description	Parts	Date Received
Response to Schedule 5 Notice dated 01/07/19	Response to questions 1 to 7.	01/08/19
	Supporting Information: Odour Abatement BAT Assessment A22 Incident Form	06/08/19
	Supporting Information: Planning Permission (April 2017)	08/08/19
	Additional response and Flow –Mass Balance	23/08/19
	Excluding: Revised Odour Management Plan (July 2019).	
Additional Information Received	Odour Management Plan (September 2019)	12/09/19

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	<p>The Operator shall submit a written report to the Environment Agency on the commissioning of the installation. The report shall summarise the environmental performance of the plant as installed against the design parameters set out in the Application. The main focus shall be on providing evidence that the installation facilities including but not limited to the effluent treatment plant, storage tanks, ventilation and abatement systems are operating to design operating parameters. The report shall also include a review of the performance of the facility against the conditions of this permit and details of procedures developed during commissioning for achieving and demonstrating compliance with permit conditions and confirm that the Environmental Management System (EMS) has been updated accordingly.</p>	Within 4 months of the completion of commissioning.
IC2	<p>The operator shall carry out a monitoring study to verify the assumptions made in the application in relation to the releases of pollutants to air from emission point A1. The study shall include the monitoring of point source releases to air odour abatement stack during normal operation, having regard to the Environment Agency technical guidance M2 and to MCERTS standards. As a minimum, two separate monitoring campaigns in a year shall be completed (one monitoring survey six months following commissioning of the odour abatement system).</p> <p>The pollutants to be monitored shall include:</p> <ul style="list-style-type: none"> • total volatile organic compounds; • hydrogen sulphide; • ammonia; • Mercaptans; and • Odour (oue/m³) <p>If the emissions monitoring showed final emissions are not compliant with emissions target set out in the application then an action plan shall be submitted with this improvement program to ensure emissions are compliant with justification of effectiveness of proposals and timescales for completion.</p> <p>The improvement condition shall be deemed complete only after written approval from the Environment Agency.</p>	02/10/2020
IC3	<p>Following the completion of IC2, the operator shall undertake an environmental impact assessment of all point source releases to air, using the information obtained through the emissions monitoring. The environmental impact assessment report and all associated monitoring reports and assessments shall be submitted in writing to the Environment Agency for review.</p> <p>The environmental impact assessment shall, as a minimum, include:</p> <ul style="list-style-type: none"> • reports showing details of the monitoring undertaken and the results obtained; • results of the assessment of long and short term impacts from the emissions in accordance with Environment Agency Guidance – Air emissions risk assessment for your environmental permit; • a completed H1 assessment software tool or appropriate modelling assessment. <p>If the assessment shows potential long or short term impacts from the emissions, the operator shall propose an action plan to reduce the impacts of the substances identified with timescales for completion.</p> <p>The improvement condition shall be deemed complete only after written approval from the Environment Agency.</p>	Within 6 months of approval of IC2

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC4	<p>The Operator shall submit a revised Odour Management Plan (OMP) to the Environment Agency. The revised OMP shall take account of all findings from the improvement programme for the prevention and reduction of odours from the installation.</p> <p>The improvement condition shall be deemed complete only after written approval from the Environment Agency.</p>	Within 3 months of approval of IC3

Table S1.4 Pre-operational measures	
Reference	Pre-operational measures
PO1	<p>At least 8 weeks before operation the operator shall submit a report with the final effluent treatment plant design and associated final ventilation and abatement systems design. The pre-operation condition report shall include a final process air flow design for the ventilation and abatement systems including:</p> <ul style="list-style-type: none"> • Main pollutant sources; • Ventilation main duct diameter sizes; • Air flowrates along main final extract and closed couple ducts; • Air flowrates through both abatement systems and final discharge flow to atmosphere. <p>The pre-operation condition shall be deemed complete only after written approval from the Environment Agency.</p>
PO2	<p>At least 2 weeks before operation the operator shall submit a report demonstrating that the necessary procedures are in place for the operation of the treatment plant and that staff have received the necessary training.</p> <p>The pre-operation condition shall be deemed complete only after written approval from the Environment Agency.</p>
PO3	<p>At least 8 weeks (or any other date as agreed with the Environment Agency) prior to the commencement of commissioning of the installation, the operator shall carry out background sampling of bioaerosols upwind of the plant and submit a written report of the monitoring to the Environment Agency and for approval. The sampling shall be undertaken in accordance with the Technical Guidance Note M9 – Environmental monitoring of bioaerosols at regulated facilities (January 2017).</p> <p>The pre-operation condition shall be deemed complete only after written approval from the Environment Agency.</p>
PO4	<p>The operator shall submit a report demonstrating that all bulk liquid storage tanks, pipelines and secondary containment have been leak-tested at least 4 weeks before the start of operations.</p> <p>The pre-operation condition shall be deemed complete only after written approval from the Environment Agency.</p>
PO5	<p>At least 8 weeks (or any other date as agreed with the Environment Agency) prior to the commencement of commissioning of all odour abatement units, the operator shall provide a written commissioning plan (including timescales for completion) for approval by the Environment Agency.</p> <p>The commissioning plan shall include:</p> <ul style="list-style-type: none"> • the expected emissions to the environment during the different stages of commissioning; • the expected durations of commissioning activities; • the measures to be taken to protect the environment and report to the Environment Agency in the event that actual emissions exceed expected emissions;

Table S1.4 Pre-operational measures	
Reference	Pre-operational measures
	<ul style="list-style-type: none"> • emissions testing, to MCERTS standard for both sampling and testing and personnel, a demonstration of the effectiveness of each abatement system which will include parallel pre and post abatement testing of emissions, and will include testing and measurement of odour, NH₃, H₂S, mercaptans and speciation of VOCs from each odour abatement unit in accordance with technical guidance note M2 standards; • demonstration that the building extraction and closed couple extraction systems are balanced; • smoke testing of the air extraction system in the building to demonstrate effectiveness of air extraction systems. <p>Commissioning shall be carried out in accordance with the commissioning plan as approved by the Environment Agency.</p> <p>As part of commissioning, the operator shall, on an agreed upon date, with the Regulatory Officer in attendance, demonstrate through a smoke test that the building, odour abatement and all associated pipes and vessels are fit for purpose and will prevent the release of odour emissions to the atmosphere.</p> <p>Waste shall not be accepted at the installation unless the Environment Agency has given prior written permission under this condition.</p>

Schedule 2 – Waste types, raw materials and fuels

Raw materials and fuel description	Specification
-	-

Maximum quantity	100 tonnes per day for treatment (no acids/alkalis, flammable, corrosive or oxidising wastes). Total storage of 300 tonnes of hazardous and non-hazardous
Waste code	Description
13 05 02*	Sludges from oil/water separators
13 05 03*	Interceptor sludges
13 05 06*	Oil from oil/water separators
13 05 07*	Oily water from oil/water separators
13 05 08*	Mixtures of wastes from grit chambers and oil/water separators
16 07 08*	Wastes containing oil
16 10 01*	Aqueous liquid wastes containing dangerous substances

Maximum quantity	150 tonnes per day for treatment. Total storage of 300 tonnes of hazardous and non-hazardous
Waste code	Description
01 05 04	Freshwater drilling muds and waste
02 01 01	Sludges from washing and cleaning
02 02 01	Sludges from washing and cleaning
02 02 04	Sludges from on-site effluent treatment
02 03 01	Sludges from washing, cleaning, peeling, centrifuging and separation
02 03 05	Sludge from on-site effluent treatment
02 04 03	Sludges from on-site effluent treatment
02 05 01	Materials unsuitable for consumption or processing
02 05 02	Sludges from on-site effluent treatment
02 06 01	Materials unsuitable for consumption or processing
02 06 03	Sludges from on-site effluent treatment
03 03 11	Sludges from on-site effluent treatment other than mentioned in 03 03 10
04 02 20	Sludges from on-site effluent treatment other than mentioned in 04 02 19
07 05 12	Sludges from on-site effluent treatment other than mentioned in 07 05 11
07 06 12	Sludges from on-site effluent treatment other than mentioned in 07 06 11

Table S2.3 Permitted non-hazardous waste types and quantities for storage and physio-chemical treatment	
Maximum quantity	150 tonnes per day for treatment. Total storage of 300 tonnes of hazardous and non-hazardous
Waste code	Description
08 01 16	Aqueous sludges containing paint or varnish other than mentioned in 08 01 15
08 01 20	Aqueous suspensions containing paint or varnish other than mentioned in
08 03 08	Aqueous liquid waste containing ink
08 04 16	Aqueous liquid waste containing adhesives or sealants other than those mentioned in 08 04 15
10 01 23	Aqueous sludges from boiler cleansing
10 01 26	Wastes from cooling-water treatment
16 10 02	Aqueous liquid wastes other than those mentioned in 16 10 01
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 09	Grease and oil mixture from oil/water separation containing only edible oil and fats
19 08 12	Sludges from biological treatment of industrial waste water other than mentioned in 19 08 13
19 08 14	Sludges from other treatment of industrial waste water other than mentioned in 19 08 13
19 09 02	Sludges from water clarification
19 09 03	Sludges from decarbonisation
19 09 06	Solutions and sludges from regeneration of ion exchangers
19 13 08	Aqueous liquid wastes and aqueous concentrates from groundwater remediation other than those mentioned in 19 13 07
20 03 03	Street cleaning residues
20 03 04	Septic tank sludge
20 03 06	Waste from sewage cleaning

Schedule 3 – Emissions and monitoring

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 Flue as shown on site plan 2008915-DWG01-v2.2	Odour abatement plant stack	Hydrogen Sulphide	No limit set	--	Every 6 months	Procedural requirements of BS CEN/TS 13649 for sampling, NIOSH 6013 for analysis
		Ammonia NH ₃	No limit set	--		EN 14791
		TVOC	20 mg/m ³	--		EN 12619
		Odour concentration	No limit set	--		BS EN 13725

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 Outlet on site plan in schedule 7 2008915-DWG01-v2.2	Site effluent treatment plant	Hydrocarbon Oil index	10 mg/l	24-hour flow proportional sample (1)	Monthly (2)(3)	EN ISO 9377-2
		Arsenic (As)	No limit set	24-hour flow proportional sample (1)	Monthly (2)(3)	BS ISO 17378 -1 BS ISO 17378 -2 BS EN 26595 ISO 6595
		Cadmium (Cd)	No limit set	24-hour flow proportional sample (1)	Monthly (2)(3)	BS EN ISO 5961
		Chromium (Cr)	No limit set	24-hour flow proportional sample (1)	Monthly (2)(3)	BS EN 1233
		Copper (Cu)	No limit set	24-hour flow proportional sample (1)	Monthly (2)(3)	BS EN ISO 11885 BS EN ISO 17294-1 BS EN ISO 17294-2 BS EN ISO 15586
		Hexavalent chromium (Cr(VI))	No limit set	24-hour flow proportional sample (1)	Monthly (2)(3)	BS 6068-2.47 ISO 11083 BS EN ISO 18412 BS EN ISO 23913
		Lead (Pb)	No limit set	24-hour flow proportional sample (1)	Monthly (2)(3)	BS EN ISO 11885 BS EN ISO 17294-1 BS EN ISO 17294-2 BS EN ISO 15586

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
		Mercury (Hg)	No limit set	24-hour flow proportional sample (1)	Monthly (2)(3)	BS EN 12846 BS EN ISO 17852
		Nickel (Ni)	No limit set	24-hour flow proportional sample (1)	Monthly (2)(3)	BS EN ISO 11885 BS EN ISO 17294-1 BS EN ISO 17294-2 BS EN ISO 15586
		Zinc (Zn)	No limit set	24-hour flow proportional sample (1)	Monthly (2)(3)	BS EN ISO 11885 BS EN ISO 17294-1 BS EN ISO 17294-2 BS EN ISO 15586
<p>(1) In the case of batch discharge, average values over the release duration taken as flow-proportional composite samples, or, provided that the effluent is appropriately mixed and homogeneous, a spot sample taken before discharge.</p> <p>(2) In the case of batch discharge less frequent than the minimum monitoring frequency, monitoring is carried out once per batch.</p> <p>(3) The monitoring frequency may be reduced to annually after the first 12 monitoring rounds if the results are sufficiently stable and the Environment Agency has agreed to the reduced frequency in writing.</p>						

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
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	<p>Odour abatement system shall be regularly checked and maintained to ensure appropriate temperature and moisture content.</p> <p>Carbon filter(s) to be replaced when saturated in accordance with manufacturer's recommendations.</p>

Schedule 4 – Reporting

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

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.5.1.	A1	Every 12 months	1 January

Table S4.2 Annual production/treatment	
Parameter	Units
Non-hazardous waste treated	tonnes
Hazardous waste treated	tonnes

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

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Environment Agency	03/10/2019
Sewer	Form sewer 1 or other form as agreed in writing by the Environment Agency	03/10/2019
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	03/10/2019
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	03/10/2019
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	03/10/2019

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

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

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

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

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

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

Part B – to be submitted as soon as practicable

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

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

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

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

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

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

“emissions to land” includes emissions to groundwater.

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

“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 limit.

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

“Hazardous property” has the meaning in Annex III of the Waste Framework Directive.

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

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

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

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

“Pests” means Birds, Vermin and Insects.

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

“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.

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk.

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

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

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

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or

- in relation to emissions from gas engines or gas turbines, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 15% dry for liquid and gaseous fuels ; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

“year” means calendar year ending 31 December.

When the following terms appear in the waste code list in Schedule 2, table 2.2 and table 2.3 for those tables, they have the meaning given below:

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

“heavy metal” means any compound of antimony, arsenic, cadmium, chromium (VI), copper, lead, mercury, nickel, selenium, tellurium, thallium and tin, as well as these materials in metallic form, as far as these are classified as hazardous substances.

“PCBs” means

- polychlorinated biphenyls
- polychlorinated terphenyls
- monomethyl-tetrachlorodiphenyl methane, Monomethyl-dichloro-diphenyl methane, Monomethyldibromo-diphenyl methane
- any mixture containing any of the above mentioned substances in a total of more than 0.005% by weight.

“transition metals” means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified as hazardous substances.

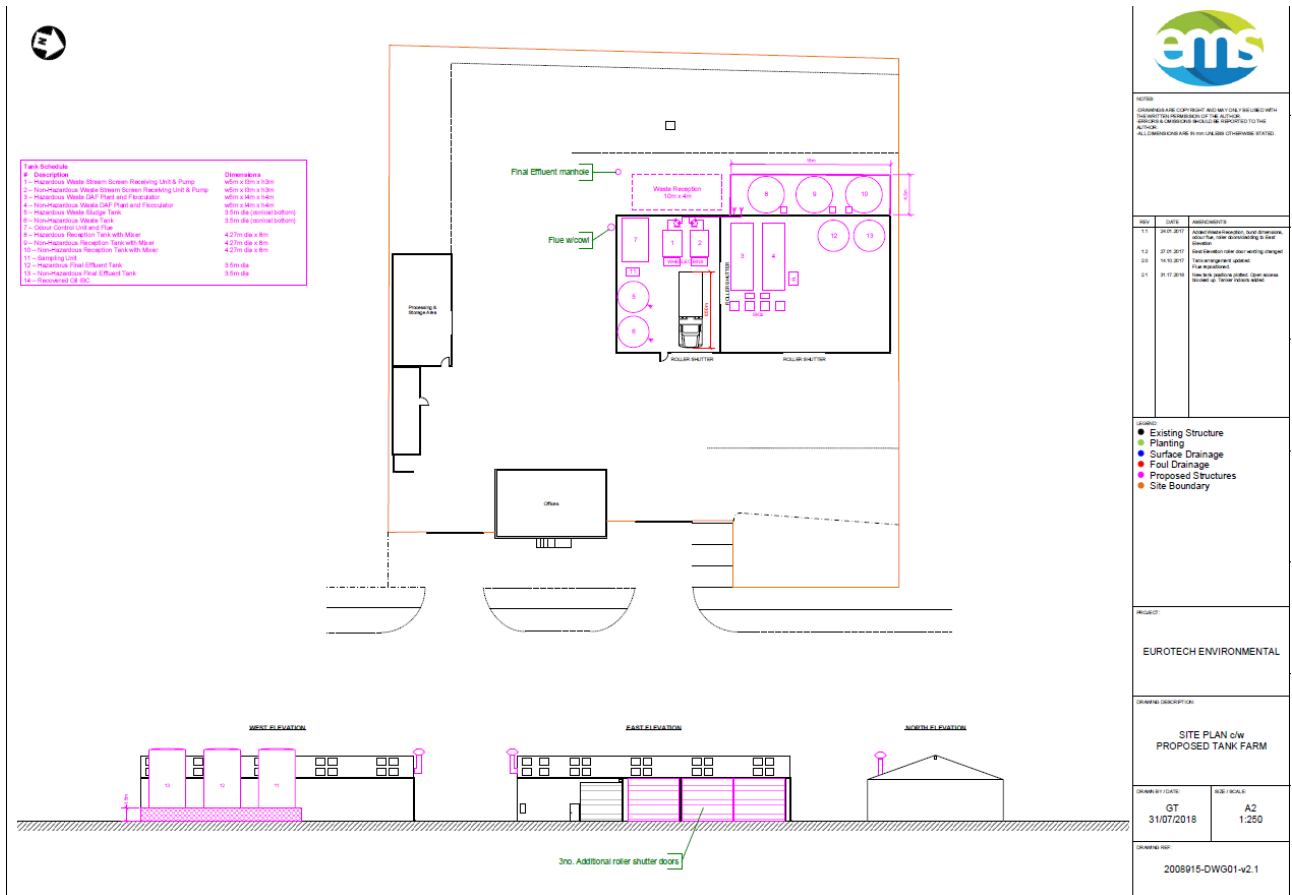
“stabilisation” means processes which change the hazardousness of the constituents in the waste and transform hazardous waste into non-hazardous waste.

“solidification” means processes which only change the physical state of the waste by using additives without changing the chemical properties of the waste.

“partly stabilised wastes” means wastes containing, after the stabilisation process, hazardous constituents which have not been changed completely into non-hazardous constituents and could be released into the environment in the short, middle or long term.

Schedule 7 – Site plan





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