

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Esken Renewables Limited
Fort Road Biomass Processing Plant
Station Approach Road
Off Fort Road
West Tilbury
RM18 8UL

Variation application number

EPR/AP3634DG/V005

Permit number

EPR/AP3634DG

Fort Road Biomass Processing Plant

Permit number EPR/AP3634DG

Introductory note

This introductory note does not form a part of the notice

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

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

Changes introduced by this variation notice:

This permit variation has been issued to implement the following guidance “Non-hazardous and inert waste: appropriate measures for permitted facilities” and to implement the relevant requirements Best Available Techniques (BAT) Conclusions set out in implementing decision (EU) 2018/1147 of 10 August 2018.

The Industrial Emissions Directive (IED) came into force on 7 January 2014 with the requirement to implement all relevant Best Available Techniques (BAT) Conclusions as described in the Commission Implementing Decision.

Article 21(3) of the IED requires the Environment Agency to review conditions in permits that it has issued and to ensure that the permit delivers compliance with relevant standards, within four years of the publication of updated decisions on Best Available Techniques (BAT) Conclusions. The BAT Conclusions for Waste Treatment (the BREF) was published on 17 August 2018 following a European Union wide review of BAT, implementing decision (EU) 2018/1147 of 10 August 2018.

The non-hazardous and inert waste: appropriate measures for permitted facilities guidance was published on the gov.uk website on 12 July 2021. This guidance sets out the standards that are relevant to regulated facilities with a permit to store, treat or transfer (or both) non-hazardous and inert wastes.

This variation has consolidated the original permit and subsequent variations.

Brief summary of the process

The permit allows for the storage and treatment of non-hazardous waste wood, for incineration or co-incineration. The operator undertakes this under Schedule 1, Section 5.4 Part A(1)(a)(iii) Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day; pre-treatment of waste for incineration or co-incineration. No hazardous materials will be accepted on site. The annual throughput for the site will be less than 240,000 tonnes. The permit contains Directly Associated Activities (including the storage of waste pre and post shredding, storage of raw materials and surface water collection, storage, and discharge) but no other listed activities or additional waste operations.

All incoming wastes will comprise of non-hazardous waste wood, which will be inspected, shredded and blended to an in-house specification and then exported from the site for incineration or co-incineration. All waste processing and storage areas are located on impermeable surfacing fitted with sealed drainage systems that prevent any discharge to controlled water. There will be 3 distinct areas of the site: A materials reception and storage area for the delivery and receipt of waste feedstocks; an external waste processing area for the processing and final preparation of waste feedstocks, and; storage areas for the stockpiling and storage of fuels prior to export from the site.

With the exception of fugitive dust emissions, the activity does not give rise to any airborne emissions. All waste wood piles and processing areas are subject to dust control and mitigations measures. These include misting sprays, slow speed shredding equipment, stockpile management and housekeeping.

There will be no process emissions to water from the site. All rainfall associated with the external storage and treatment of waste wood is collected within a sealed drainage system. The drainage system feeds a water containment lagoon, located in the south-eastern side of the site. There is no routine release of any emission to sewer. Prior to discharge into the lagoon, all run-off will pass through a three stage oil water interceptor which will remove any separable solids and oils. In the event of high rainfall this lagoon will overflow to sewer.

The site has an approved Fire Prevention Plan (FPP) in place that has been incorporated into the permit.

There are sensitive receptors in relatively close proximity to the Installation. The closest residential receptors are situated approximately 175 m to the north west of the site, with a number of other receptors, which are industrial in nature, slightly closer.

The Thames Estuary & Marshes Special Protection Area (SPA) and Ramsar is situated to the east and south east of the site. The Thames Estuary & Marshes SPA is approximately 3 km away at the closest point, which is located to the south east of the site, on the south bank of the river Thames. The Thames Estuary & Marshes Ramsar is approximately 2.8 km away from the site at its closest point and this is also located to the south east of the site, on the south bank of the river Thames. There are 9 Local Wildlife Sites (LWS) located within approximately 2 km of the site, with the closest site being Tilbury Centre LWS, which is situated approximately 175 m to the west of the site.

The schedules specify the changes made to the permit.

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

Status log of the permit		
Description	Date	Comments
Application EPR/AP3634DG/A001	Duly made 27/10/16	Application for the storage and treatment of non-hazardous waste wood, for incineration or con-incineration.
Response to Schedule 5 Notice dated 14/11/2016	30/11/16	Fire prevention plan and associated annexes.
Additional information received	30/11/16	Revised noise impact assessment submitted and associated modelling files.
Response to Schedule 5 Notice dated 11/01/17	20/01/17	Details of pre-acceptance procedures and quarantine area, dust emissions, together with fire prevention plan and associated annexes.
	03/02/17	Details on trigger temperatures provided.
	24/02/17	Updated emissions management plan.
	10/03/17	Details of firefighting foam provided.
	11/04/17	Details of firefighting foam provided.
	04/05/17	Updated site plan, information on water supplies, trigger temperatures, quarantine areas and out of hours cover.
	10/05/17	Updated quarantine area details provided.
	19/05/17	Out of hours cover information provided.
	19/05/17	Updated fire prevention plan V7 and associated appendices.
Additional information received	13/02/17	Clarification on operational hours and location of noise bunds provided.
Permit determined EPR/AP3634DG	08/06/17	Permit issued to Stobart Biomass Products Limited.

Status log of the permit		
Description	Date	Comments
(PAS billing ref. AP3634DG)		
Notified of Registered office	30/01/18	Registered office changed Third Floor, 15 Stratford Place, London, W1C 1BE.
Variation issued EPR/AP3634DG	30/01/18	Varied permit issued to Stobart Biomass Products Limited.
Application EPR/AP3634DG/V003 (variation)	Duly made 04/05/18	Application to vary the fire prevention plan and associated appendices.
Additional information received	26/07/18	Submission of documents missing from list of FPP annexes and document revisions, including: Drainage plan FPP training syllabus Firefighting foam information Foam data sheet Spontaneous combustion article Fire tender specification Fire tender training programme Sensitive receptor plan Revised site layout plan WRA/CFOA fire test provisional results
Additional information received	09/08/18	Response to Schedule 5 notice dated 31/07/18, including: Response summary document BF 026 Site checklist GOP 121 Electricity at work BGOI 009 Fire response action BGOP 044 Fire safety CCTV plan Revised fire prevention plan (v10) Revised BOI 025 Inbound material inspection Revised BOP 028 Site walkover inspection Revised FPP matrix Revised site layout plans (processed/unprocessed)
Additional information received	13/09/18	Further response to Schedule 5 notice dated 31/07/18, including: Response summary document Revised fire prevention plan (v11) Revised FPP matrix Revised FPP site layout plan Revised BOI 025 Inbound material inspection Revised BGOI 009 Fire response action
Additional information received	26/09/18	Further response to Schedule 5 notice dated 31/07/18, including:

Status log of the permit		
Description	Date	Comments
		Revised FPP site layout plan Revised fire response action plan
Variation determined EPR/AP3634DG/V003	09/10/18	Varied permit issued to Stobart Biomass Products Limited.
Notified of change of Company Name	06/04/2020	Name changed to Stobart Energy Limited
Variation issued EPR/AP3634DG/V004	09/06/2020	Varied permit issued to Stobart Energy Limited
Environment Agency Non-hazardous Waste Sector Review Variation number EPR/AP3634DG/V005 (variation and consolidation)	Duly Made 09/03/2022	Non-hazardous Waste Sector Review – documents received in response to the Regulation 61 Notice dated 08/11/21. Incorporated admin variation to encompass name change to Esken Renewables Limited
Emails received in response to the Draft Request for Further Information (RFI) dated 10/07/23	13/07/2023	RFI email response outlining time scale for completion or Improvement Programme options.
Variation determined and consolidation issued EPR/DB3601GP	13/12/2023	Variation issued.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

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

Permit number

EPR/AP3634DG

Issued to

Esken Renewables Limited (“the operator”)

whose registered office is

**Viking House
Mathieson Road
Widnes
Cheshire
WA8 0NX**

company registration number 7042490

to operate a regulated facility at

**Fort Road Biomass Processing Plant
Station Approach Road
Off Fort Road
West Tilbury
RM18 8UL**

to the extent set out in the schedules.

The notice shall take effect from 13/12/2023

Name	Date
Vicky Patchett	13/12/2023

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions and tables were varied or added as a result of an Environment Agency initiated variation:

Conditions	Amendment
Condition 2.1.2	Condition deleted.
Condition 3.5.1	Addition of point (a) for table S3.1 emissions to sewer. Process monitoring condition removed.
Condition 3.5.3	Added in line with modern template.
Condition 3.5.4	Added in line with modern template.
Table S1.1 as referenced in condition 2.1.1	Updates to activities, removal of descriptions for DAA's and waste table reference for AR3.
Table S1.2 as referenced in condition 2.3.1	Operating techniques updated to include Regulation 61 response and management plans approved by area, FPP and Emissions Management Plan.
Table S1.3 as referenced in condition 2.4.1	Addition of improvement programme IP1 – IP8.
Table S2.1 as referenced in condition 2.3.3	Addition of raw materials and fuel descriptions.
Table S3.1 as referenced in condition 3.1.1	Emission limits and monitoring added in line with BAT.
Table S3.2 as referenced in condition 3.5.1	Table updated to modern formatting for ambient air monitoring.
Table S3.3 as referenced in condition 3.5.1	Table removed as dust monitoring incorporated within ambient air monitoring table S3.2.
Table S4.1 as referenced in condition 4.2.3	Reporting added for emissions to sewer.
Table S4.4 as referenced in condition 4.2.3 (b)	Reporting form for emissions to sewer added and ambient air monitoring reporting form added. Forms updated.
Schedule 5 as referenced in conditions 4.3.2 and 4.3.4 has been amended	A new paragraph (c) to Part A requiring notification of breach of permit conditions not relating to limits has been added.
Schedule 6	Interpretations have been updated

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/AP3634DG

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/AP3634DG/V005 authorising,

Esken Renewables Limited (“the operator”),

whose registered office is

**Viking House
Mathieson Road
Widnes
Cheshire
WA8 0NX**

company registration number 7042490

to operate an installation at

**Fort Road Biomass Processing Plant
Station Approach Road
Off Fort Road
West Tilbury
RM18 8UL**

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

Name	Date
Vicky Patchett	13/12/2023

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Energy efficiency

- 1.2.1 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”).

2.2 The site

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

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table S2.2; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 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.

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

3.3 Odour

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

3.4 Noise and vibration

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

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1
 - (b) ambient air monitoring specified in table S3.2;
- 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 Fire prevention

- 3.6.1 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.

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 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	S5.4 A (1)(a)(iii)	D9: Pre-treatment of waste for incineration or co-incineration	Physical treatment including manual and mechanical sorting/separation, screening, chipping and shredding of non-hazardous waste for disposal, Pre-treatment of waste destined for incineration or co-incineration. Waste types as specified in Table S2.2.
Directly Associated Activity			
AR2	N/A	Temporary storage of non-hazardous waste prior to treatment D15: storage of non-hazardous waste	Storage of non-hazardous wood waste prior to treatment. Waste types as specified in table S2.2.
AR3	N/A	Storage of waste after treatment D15: storage of non-hazardous waste	Storage of processed wood waste prior to dispatch off site for disposal.
AR4	N/A	Storage of raw materials including gas oil / diesel, lubrication and hydraulic oils	From receipt of raw materials to use within the facility.
AR5	N/A	Collection of surface water from the site drainage in lagoon prior to discharge in foul sewer	Collected surface water to pass through retention interceptor and lagoon to foul sewer.

Table S1.2 Operating techniques		
Description	Parts	Date received
Application	Documents provided in response to section 3a – technical standards, Part B3 of the application form. Application Document – EPR Permit Application, ref: SOL1607SB01, dated October 2016: - Section 3.3.1 Raw Materials – waste feedstock characteristics. Email dated 26/10/2016 – Wood specification details.	Duly made 27/10/2016
Response to Schedule 5 Notice dated 11/01/2017	Responses to questions 10 - 14 detailing dust emission management. Response to question 15 - 18 detailing surface water management. Response to question 19 detailing pre-acceptance procedures. Response to question 20 detailing quarantine procedures.	20/01/2017

Table S1.2 Operating techniques		
Description	Parts	Date received
Additional information	Confirmation of site operational hours (including weekend working) provided by email.	13/02/2017
Permit Review update	Emissions Management Plan Version 5b dated October 2021.	02/01/2021
Regulation 61 Notice Response EPR/AP3634DG/V005	Documents received in response to the Regulation 61 Notice and annex 1 spreadsheet titled ' <i>NHI Installations Reg 61 notice - Annex 1 tranche 2 SEL Tilbury 2</i> '.	09/03/2022
Permit Review update	Approved Fire Prevention Plan consisting of the following documents: Fire Prevention and Management Plan reference SEF 149/A Version 13a and Annexes 1 – 6 dated June 2022.	13/06/2022

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IP1	<p>The operator shall carry out a survey of the site drainage infrastructure. The operator shall submit a written report to the Environment Agency for approval.</p> <p>The report shall include:</p> <ul style="list-style-type: none"> An annotated drainage drawing (drawn to the appropriate scale). details of the survey undertaken to ascertain the drainage routes for the contaminated and uncontaminated waters along with relevant discharge points. 	13/06/2024
IP2	<p>The operator shall submit to the Environment Agency for approval a plan which includes proposals for the implementation of techniques for the capture and re-use of uncontaminated waters on site. The plan should also include but not be limited to:</p> <ul style="list-style-type: none"> Timescales for any improvement works associated with the techniques for the water capture. A water savings plan in line with the <u>Non-hazardous and inert waste: appropriate measures for permitted facilities</u> guidance. Water efficiency objectives. <p>The operator shall implement any improvement within the timescale agreed with the Environment Agency.</p>	13/03/2024
IP3	<p>The operator shall carry out a detailed review of the site including waste treatment areas, storage areas and handling equipment to ensure that they are in accordance with the requirements specified in the <u>Non-hazardous and inert waste: appropriate measures for permitted facilities</u> guidance and BAT 14 of the <u>Waste Treatment BAT Conclusions</u>.</p> <p>Following the review, the operator shall submit a written report to the Environment Agency for approval outlining the outcomes of the review and measures and procedures that are in place on site to prevent and/or reduce fugitive emissions of dust.</p> <p>The report shall include recommendations for improvements and timescales for implementation of the identified improvements. The improvements shall include but not be limited to:</p> <ul style="list-style-type: none"> Building enclosure <i>and/or</i> enclosed equipment 	13/06/2024

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<ul style="list-style-type: none"> • <i>Enclosure of processes on site likely to give rise to fugitive dust</i> • Installation of dust suppression systems. • Housekeeping practices 	
IP4	Following the completion of IP3, the operator shall implement any improvements by the deadline specified in this improvement condition unless otherwise agreed in writing with the Environment Agency.	13/12/2024
IP5	<p>The operator shall carry out a review of noise generated on site. The review shall focus on whether there has been any change in noise generating activities since permit issue.</p> <p>Where changes are identified, the operator shall carry out a Noise Impact Assessment (NIA) following <u>Noise impact assessments involving calculations or modelling - GOV.UK (www.gov.uk)</u> guidance to assess the impact of noise on receptors around the site.</p> <p>Depending on the outcome of the NIA the operator shall submit a noise management plan to the Environment Agency for approval.</p>	13/06/2024
IP6	<p>The operator shall update their EMS to include updates for the following:</p> <ul style="list-style-type: none"> • Energy efficiency plan • Energy balance record • Raw materials inventory • Water saving plan • Decommissioning plan • Climate change risk assessment 	13/03/2024
IP7	<p>The operator shall undertake a representative monitoring and sampling programme for fugitive particulate/dust emissions to air at one upwind and one downwind location at the site. The monitoring programme shall be conducted over the months of May-August to identify levels of dust emissions produced on site and determine the composition of the deposited dust.</p> <p>Monitoring shall be undertaken to the frequency and appropriate standards specified in table S3.2.</p>	31/08/2024
IP8	<p>Following the completion of IP7, the operator shall submit a written report to the Environment Agency for approval and shall continue monitoring at the frequency contained within table S3.2 until alternative monitoring frequency is agreed with the Environment Agency. The report shall contain a review of the results of the particulate/dust monitoring. The report shall include analysis of the dust collected to determine the contribution to dust samples from the sites operations.</p> <p>If necessary the report shall include further measures to be undertaken to reduce particulate emissions at the facility and dates for implementation. The actions and outcomes of the report shall be implemented by the operator from the date of written approval by the Environment Agency.</p> <p>The operator shall submit a revised Dust Management Plan (DMP) to include the agreed changes.</p>	6 months from the completion of IP7
IP9a	The operator shall undertake 6 months sampling and monitoring programme for the waste water that is discharged to sewer from the emission point to Anglian Water sewer via outfall pipe identified on	13/06/2024

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<p>Drainage Plan 115442/2000 dated 18/08/2016 and shall submit the results to the Environment Agency for written approval.</p> <p>The monitoring programme shall fully characterise the waste waters and shall include, but not be limited to, the parameters listed in Table S3.1.</p> <p>The sampling and monitoring programme shall be carried out at a frequency of a minimum of two samples a month and must total a minimum of 12 samples overall and be in line with the Environment Agency guidance https://www.gov.uk/guidance/surface-water-pollution-risk-assessment-for-your-environmental-permit and at standards outlined in Table S3.1.</p>	
IP9b	<p>Following the completion of IP9a, the operator shall submit a completed H1 risk assessment and/or modelling report (where appropriate) to the Environment Agency for written approval.</p> <p>The operator shall include in the report, an assessment on whether the wastewaters discharged to sewer from the site are likely to have significant or adverse impact on the final receiving waters following treatment of the waste water at the Anglian Water, Waste water Treatment Works.</p> <p>The H1 assessment and/or modelling shall take into consideration relevant environmental standards specified within the following guidance for the substances analysed:</p> <ul style="list-style-type: none"> • Specific substances and priority hazardous substances – Surface water pollution risk for your environmental permit Surface water pollution risk assessment for your environmental permit - GOV.UK (www.gov.uk). <p>Where the results of the H1 assessment and/or modelling indicate that significant/adverse impact is likely, the operator shall cease further discharge of waste water to sewer. The operator shall then submit a proposal of additional measures to be implemented to prevent or minimise any significant/adverse impact on the receiving waters, along with timescales for implementation to the Environment Agency for written approval.</p>	3 months following the completion of with IP9a.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Gas, oil, diesel, lubrication and hydraulic oils	--

Table S2.2 Permitted waste types and quantities for activities AR1 and AR2 – Wood treatment and storage	
Maximum quantity	The total quantity of waste accepted at the site shall be less than 240,000 tonnes per annum.
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
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 cork
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
15	Waste packaging
15 01	Packaging
15 01 03	wooden 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 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
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 38	wood other than that mentioned in 20 01 37
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste (wood and bark only)

Schedule 3 – Emissions and monitoring

Table S3.1 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) ⁽¹⁾⁽²⁾	Reference period	Monitoring frequency ⁽⁴⁾⁽⁵⁾	Monitoring standard or method	
Emission to Anglian Water sewer via outfall pipe identified on Drainage Plan 115442/2000 dated 18/08/2016	Collected surface water in on-site lagoon from site drainage passing through an interceptor	Hydrocarbon oil index (HOI) ⁽³⁾	10 mg/l	Instantaneous (spot sample)	Monthly or prior to discharge	EN ISO 9377-2	
		Arsenic (expressed as As) ⁽³⁾	0.05 mg/l			Various EN standards available (e.g. EN ISO 11885, EN ISO 17294-2, EN ISO 15586)	
		Cadmium (expressed as Cd) ⁽³⁾	0.05 mg/l				
		Chromium (expressed as Cr) ⁽³⁾	0.15 mg/l				
		Copper (expressed as Cu) ⁽³⁾	0.5 mg/l				
		Lead (expressed as Pb) ⁽³⁾	0.1 mg/l				
		Nickel (expressed as Ni) ⁽³⁾	0.5 mg/l				
		Mercury (expressed as Hg) ⁽³⁾	5 µg/l				Various EN standards available (i.e. EN ISO 17852, EN ISO 12846)
		Zinc (expressed as Zn) ⁽³⁾	1 mg/l				Various EN standards available (e.g. EN ISO 11885, EN ISO 17294-2, EN ISO 15586)
<p>(1) The averaging periods are defined in the General considerations.</p> <p>(2) The BAT-AELs may not apply if the downstream wastewater treatment plant abates the pollutants concerned, provided this does not lead to a higher level of pollution in the environment.</p> <p>(3) The monitoring and BAT-AELs only applies when the substance concerned is identified as relevant in the wastewater inventory mentioned in BAT 3. Where the results of the monitoring indicate that any of the parameters in this table is not identified to be present, the operator may cease further monitoring of such parameter(s) after the completion of the improvement conditions IP9a and IP9b.</p> <p>(4) The monitoring frequency may be reduced if the downstream treatment plant abates the pollutant concerned.</p> <p>(5) Monitoring frequencies may be reduced if the emission levels are proven to be sufficiently stable.</p>							

Table S3.2 Ambient air monitoring requirements				
Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
In accordance with the emissions management plan (Version 5b, October 2021) section 3.2.5 or as agreed in writing with the Environment Agency.	Particulate matter	Note 1	In accordance with the emissions management plan (Version 5b, October 2021) section 3.2.5, M17 guidance or as agreed in writing with the Environment Agency.	-
	Particulate matter PM ¹⁰			
	Particulate matter PM ^{2.5}			
Processing and storage areas.	Particulate matter (Dust)	Daily	Visual assessment	Dust detection at the site boundary
<p>Note 1 - Sampling shall be undertaken at a two-week interval for a period of 12 weeks and shall be conducted over the months of May-August. Monitoring frequency to be reviewed by the Environment Agency following the completion of the initial 12 weeks of monitoring. Any changes or improvements shall be agreed with the Environment Agency in writing.</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
Ambient air monitoring Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.2	Every 12 months	1 January
Point source emissions to sewer Parameters as required by condition 3.5.1	Emission to Anglian Water sewer via outfall pipe identified on Drainage Plan 115442/2000 dated 18/08/2016	Every 12 months	1 January

Table S4.2 Annual production/treatment	
Parameter	Units
Wood processed	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
Ambient air monitoring	Ambient Air Monitoring Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Point source emissions to sewer	Emissions to Sewer Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Water usage	Water Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Energy usage	Energy Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Other performance parameters	Other Performance Parameters Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

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

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

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

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

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

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

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	

The dates of any unauthorised emissions from the facility in the preceding 24 months.	
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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 the Waste Framework Directive.

“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 limit.

“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.

“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.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

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

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

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

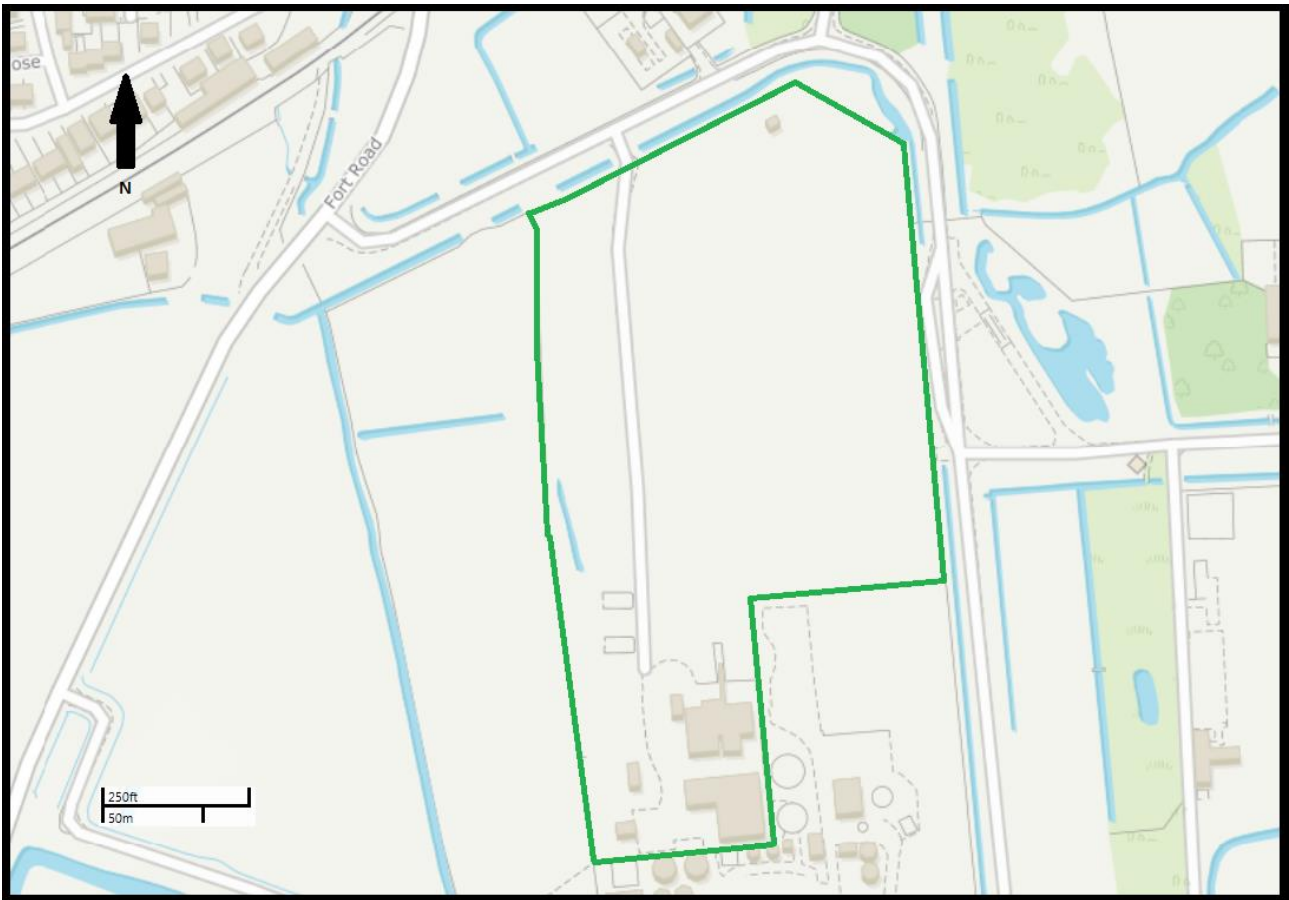
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

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

“year” means calendar year ending 31 December.

Schedule 7 – Site plan



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