Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Northwood Tissue (Disley) Limited

Disley Paper Mill
Waterside
Disley
Stockport
Cheshire
SK12 2HW

Variation application number

EPR/PP3539TJ/V006

Permit number

EPR/PP3539TJ

Disley Paper Mill
Permit number EPR/PP3539TJ

Introductory note

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

The following notice gives notice of the variation and consolidation of an environmental permit.

Changes introduced by this variation notice/statutory review

This variation has been issued to update some of the conditions following a statutory review of the permits in the industry sector for the production of pulp, paper and board. The opportunity has also been taken to consolidate the original permit and subsequent variations.

The Industrial Emissions Directive (IED) came into force on 7th January 2014 with the requirement to implement all relevant Best Available Techniques (BAT) conclusions as described in the Commission Implementing Decision. The BAT conclusions for production of pulp, paper and board were published on 30 September 2014 in the Official Journal of the European Union (L284) following a European Union wide review of BAT, implementing decision 2014/687/EU of 26 September 2014. The relevant BAT conclusions that apply from 1 October 2018 are 1, 2, 5 to 8, 10, 12, 13, 14, 16, 17, 18, 42 to 47, 52 and 53. The operator is compliant with the exception of BAT 1, 2, 5, 6, 16 and 45. We have set improvement conditions to track progress against future compliance.

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

Brief description of the process

The installation is located approximately 0.5 km northeast of Disley at National Grid Reference SJ9805 8535 and approximately 6 km west of the Peak District Moors (South Pennine Moors), a designated Special Area of Conservation (SAC) and Special Protection Area (SPA). The installation is a paper mill where tissue and towel products are manufactured from both recycled and virgin pulp. The plant is designed to operate continuously.

PM1 produces up to approximately 25,000 tonnes of tissue towel product per annum principally from recycled pulp obtained from the on-site de-inking facility which uses a range of wastepaper grades as feedstock. Incoming waste paper is stored in bales and then pulped and transferred to the de-inking process for removal of filler, inks and other undesirable materials. The reclaimed fibre pulp is thickened and sent either to the paper-machine or to the wetlap machine where it is dewatered to form bales.

PM2 will produce tissue paper made from imported, virgin wood pulp and when operational, will increase the production capacity of the site to approximately 95,000 tonnes per annum. Operation of PM2 is also associated with new stock preparation plant, a new boiler and a co-generation combined heat and power plant.

Recycled and virgin fibre is pulped and transferred to Pulp storage tanks prior to being blended to the required ratios and to the machine chest. Stock is diluted to the required consistency and passed to the headbox of the paper machine where it is sprayed between two wires on the belt. Water is progressively removed from the formed paper sheet which is then dried by direct and indirect heating in the Yankee Drier. The sheet is transferred off the drier onto large rolls for off-site conversion to the required size.

Steam for PM1 is provided by one gas fired boiler. The boiler can be fired on gas oil if the gas supply is unavailable. Boiler blowdown effluent is released to the effluent treatment plant.

The proposed co-generation plant incorporates a gas turbine and Heat Recovery Steam Generator (HRSG). The gas turbine has a thermal input capacity of 40MW, the two gas-fired burners which are used to dry the paper each have a thermal input of 7.5MW and the new gas-fired boiler (which is fired on gas oil in the event of a gas outage) has a thermal input of 15MW. The aggregated thermal input capacity has increased from 14.46MW to approximately 85MW as a result of this variation. The main emissions to air associated with the new combustion plant are oxides of nitrogen (NO_x) and carbon monoxide (CO). These will be released to air via four new emission points (A11, A12, A13 and A17). The new combustion plant is not subject to the Large Combustion Plant Directive (LCPD).

Process water is principally obtained by abstraction from the River Goyt, with additional sources being an on-site borehole (for boiler feed water) and towns mains water (critical applications within the process). The borehole and river abstractions are not included within the installation as their use is regulated under an abstraction licence.

Water is extensively recycled within the process and excess water from the paper machine is transferred to the de-inking plant. Surplus water from the de-inking plant is discharged to the effluent system.

Process effluent is directed to the on-site biological effluent treatment plant via two balancing tanks. Final effluent is discharged to the River Goyt at a maximum daily volume of 3,000 m^3.

Sludge from the deink plant and the effluent treatment system is dewatered by belt press to produce a filter cake approximately 35% solids content which is sent for off-site recovery.

Rejected material (plastics etc) from the de-inking plant is collected for off-site disposal.

The schedules specify changes made to the original 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 BJ6666 received (Reference EPR/BJ6666IF/A001)	28/02/01	
Additional information requested	26/06/01	Response dated 28/08/01
Additional information requested	23/01/02	Response dated 04/03/02
Permit BJ6666 determined (Reference EPR/BJ6666IF)	28/06/02	Permit issued to Kruger Inc.
Application for variation (Reference EPR/BJ6666IF/V002)	02/06/02	
Variation determined (Reference EPR/BJ6666IF/V002)	08/12/03	
Application to transfer EPR/PP3539TJ/T001	01/03/10	Transfer from Kruger Inc. to Disley Tissue Limited
Permit EPR/PP3539TJ transferred	26/03/10	
Environment Agency Paper and Pulp Sector Review 2011. Variation EPR/PP3539TJ/V002 determined. Permit EPR/PP3539TJ	21/09/11	Varied and consolidated permit issued in modern condition format
Variation application EPR/PP3539TJ/V003	Duly made 16/12/11	Application to operate a 40 MW natural gas-fired co-generation plant and second paper machine
Additional Information Requested	21/03/12	
Additional Information Received	02/04/12	Updated plan of Emission Points to Air
Variation EPR/PP3539TJ/V003 determined	11/05/12	Varied permit issued
Agency variation determined EPR/PP3539TJ/V004	22/01/14	Environment Agency variation to implement the changes introduced by IED
Notified of change of company name	10/09/14	Name changed to Northwood Tissue (Disley) Limited (from Disley Tissue Limited).
Variation issued EPR/PP3539TJ/V005	09/10/14	Varied permit issued to Northwood Tissue (Disley) Limited
Regulation 60 Notice dated 21/11/14 (Notice requiring information for statutory review of permit)	Response Received 31/03/15	Technical standards detailed in response to the information notice. Information to demonstrate that relevant BAT conclusions are met for the production of pulp, paper and board as detailed in document reference L284.
Request for Further Information	Response Received 03/10/15	
EPR/PP3539TJ/V006 (variation and consolidation) determined (Billing Ref: GP3432AS)	01/08/16	Statutory review of permit - BAT Conclusions published 30 September 2014 Varied and consolidated permit issued

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

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

Permit number

EPR/PP3539TJ

Issued to

Northwood Tissue (Disley) Limited ("the operator")

registered office is

Waterside
Disley
Stockport
Cheshire
SK12 2HW

company registration number **07022309**

to operate a regulated facility at

Disley Paper Mill
Waterside
Disley
Stockport
Cheshire
SK12 2HW

to the extent set out in the schedules.

The notice shall take effect from 01/08/2016

Name	Date
SIMON HEWITT	**01/08/2016**

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions/tables were changed by the consolidated permit EPR/PP3539TJ/V006 as a result of an Environment Agency initiated variation:

CONDITIONS	
2.1.2	**added**
2.3.2	**amended** to current permit template format
3.1.3	**added** to current permit template format
3.1.4	**added** to implement the requirements of the Industrial Emissions Directive (IED)
3.2.2	**amended** to current permit template format
3.3.1	**amended** to current permit template format
3.4.2	**amended** to current permit template format
3.5.1	**amended** to current permit template format
3.6.1 and 3.6.2	**added** due to the storage of recycled fibre
4.3.1 and 4.3.2	**amended** to implement the requirements of the IED
4.3.3	**deleted** and 4.3.4 to 4.3.7 renumbered
4.4.2	**amended** to implement the requirements of the IED
Schedule 6	**updated**
TABLES	
1.1	**amended** for clarity on description of activities
1.2	**amended** to introduce new operating techniques
1.3	**amended** to reflect current improvement conditions and delete completed improvements
1.4A	**amended** to add a condition
3.1	**amended** to clarify emissions to air
3.2	**amended** to revise discharge to the River Goyt
3.3	annual limits
3.4	**added** to include process monitoring
4.2	**amended** performance parameters
4.3	**amended** reporting forms

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/PP3539TJ

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/PP3539TJ/V006 authorising,

Northwood Tissue (Disley) Limited ("the operator"),

whose registered office is

Waterside
Disley
Stockport
Cheshire
SK12 2HW

company registration number **07022309**

to operate an installation at

Disley Paper Mill
Waterside
Disley
Stockport
Cheshire
SK12 2HW

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

Name	Date
SIMON HEWITT	**01/08/2016**

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.

1.2 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;

(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 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.

2.5 Pre-operational conditions

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

3 Emissions and monitoring

3.1 Emissions to water, air or land

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

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

3.1.3 Total annual emissions from the emission point(s) set out in schedule 3 table S3.2 of a substance listed in schedule 3 table S3.3 shall not exceed the relevant limit in table S3.3.

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.

3.3.2 The operator shall:

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

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

3.4 Noise and vibration

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

3.4.2 The operator shall:

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

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

3.5 Monitoring

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

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

(b) annual limits specified in table S3.3;

(c) process monitoring specified in table S3.4.

3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and 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.

3.6.2 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 performance parameters set out in schedule 4 table S4.2 using the forms specified in table S4.3 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 S4.3 ; 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, if during that quarter the total amount accepted exceeds 100 tonnes of non-hazardous waste or 10 tonnes of hazardous waste.

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 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.

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

(a) the Environment Agency shall be notified at least 14 days before making the change; and

(b) the notification shall contain a description of the proposed change in operation.

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

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

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

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

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

4.4 Interpretation

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

4.4.2 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**
A1	Section 6.1 Part A(1)(a)	Producing, in industrial plant, pulp from timber or other fibrous materials. Production of pulp by conversion of recycled papers and formation of pulp bales, including screening to remove contraries and cleaning by de-inking	From receipt of waste paper to storage of pulp bales.
A2	Section 6.1 Part A(1)(b)	Producing, in industrial plant, paper and board where the plant has a production capacity of more than 20 tonnes per day. Manufacture of tissue towel products from virgin and recycled pulp on two paper machines.	From receipt and storage of raw materials (including waste paper for de-inking and virgin pulp) to storage of rolls for off-site conversion and disposal of wastes arising.

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**
A3	Section 1.1 Part A(1)(a)	Burning any fuel in an appliance with a rated thermal input of 50 or more megawatts. Operation of combustion plant comprising: 40 MW natural gas-fired co-generation plant incorporating a gas turbine and Heat Recovery Steam Generator (HRSG) to supply steam, heat and electrical power to the installation. 15 MW natural gas-fired boiler (using gas oil as a standby fuel) to supply steam for use in the process 2 x 2.205 MW natural gas-fired burners on PM1 paper drying system 2 x 7.5 MW natural gas-fired burners on PM2 paper drying system 10.5 MW natural gas-fired boiler (using gas oil as a standby fuel) to supply steam for PM1	From receipt of raw materials and storage of gas oil to combustion of fuel and release of exhaust gases to atmosphere. Distribution of steam, heat and electrical power to the installation. Disposal of wastes arising. The 15 MW boiler replaces the 10.5 MW boiler. The two boilers shall therefore not be operated simultaneously. The 40 MW co-generation plant shall not be operated at the same time as the15 MW boiler and 2 x 7.5 MW gas burners. (The only exception to this shall be during co-generation plant start up and restart of the 15 MW boiler).
A4	Section 5.4 A (1)(a)(i)	Disposal of non-hazardous waste in a facility with a capacity exceeding 50 tonnes per day by biological treatment (D8). Treatment of effluent from paper production and combustion plant via settlement and filtration.	From receipt of mill effluent and associated sludge treatment to point of discharge to River Goyt.
	Directly Associated Activity		
A5	Treatment of Water	Treatment of water abstracted from the River Goyt and 1 x borehole for use in permitted installation.	Discharge of site drainage via oil interceptor.
A6	Surface Water Drainage System	Discharge of site drainage via oil interception.	Discharge of site drainage via oil interceptor.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Operating techniques	Revised operating techniques document entitled „2.3 The Main Activities And Abatement". Replaces previous operating techniques submitted with the permit application.	18/08/11
Application EPR/PP3539TJ/V003	RPS Permit variation application document detailing the operational controls and standards used. Appendix E Environmental Risk Assessments, specifically the risk management control measures described in: - Odour risk assessment and management plan - Noise risk assessment and management plan - Fugitive emissions risk assessment and management plan - Accidents risk assessment and management plan RPS "Phase II Geo-Environmental Site Investigation for Disley Tissue Ltd" (November 2011) (report ref. RCEI16993) representing the baseline reference data for the site condition at the time of variation. RPS "Disley Tissue Ltd, Appendix F – Application Site Condition Report" (November 2011)	16/11/11
Further Information received for Duly Making Application EPR/PP3539TJ/V003	Operator response to question 4 confirming that PM2 will be configured to use virgin wood pulp only.	16/12/11
Response to pre-operational condition 1 as approved in writing by the Environment Agency.	As stated in written approval to the response to Pre-Operational Condition 1.	Post permit issue
Response to improvement condition 5 as approved in writing by the Environment Agency.	As stated in written approval to the response to IC4.	Post permit issue
Response to Regulation 60 Notice dated 21/11/14	Technical standards detailed in response to BAT conclusions of the notice provided under Regulation 60 of Environmental Permitting Regulations. Best available techniques as described in BAT conclusions under Directive 2010/75/EU of the European Parliament and of the Council on industrial emissions for production of pulp, paper and board	Received 31/03/15
Receipt of additional information to the regulation 60(1) Notice. requested by letter dated 03/08/15	Technical standards detailed in response to BAT conclusions 1, 5, 6, 13, 15, 17, 45, 47, 52, 53 of the notice provided under Regulation 60 of Environmental Permitting Regulations. Best available techniques as described in BAT conclusions under Directive 2010/75/EU of the European Parliament and of the Council on industrial emissions for production of pulp, paper and board	Received 03/10/15

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1	The operator shall submit, for approval by the Environment Agency, a report setting out progress to achieving the BAT conclusion AELs where BAT is currently not achieved, but will be achieved before 30 September 2018. The report shall include, but not be limited to, the following: 1. Current performance against the BATc AEL. 2. Methodology for reaching the AELs. 3. Associated targets / timelines for reaching compliance by 30 September 2018 4. Any alterations to the initial plan The report shall address BATc 45 The operator shall submit reports on progress with the approved compliance plan on a six monthly frequency specified by this condition	Initial Report 01/09/16 Progress reports by 01/03/17 01/09/17 01/03/18 01/09/18
IC2	The operator shall submit, for approval by the Environment Agency, a report setting out progress to achieving the 'Narrative' BAT where BAT is currently not achieved, but will be achieved before 30 September 2018. The report shall include, but not be limited to, the following: 1. Methodology for achieving BAT. 2. Associated targets / timelines for reaching compliance by 30 September 2018 *3.* Any alterations to the initial plan – The report shall address the following BATc: 1, 2, 5, 6, 16(c) The operator shall submit reports on progress with the approved compliance plan on a six monthly frequency specified by this condition	Initial Report 01/09/16 Progress reports by 01/03/17 01/09/17 01/03/18 01/09/18
IC3	Following successful commissioning of PM2 and associated plant together with the co-generation plant and 15 MW boiler and establishment of routine steady operation, the Operator shall undertake noise monitoring at the nearest local receptors. This shall include: - An assessment meeting the BS4142:1997 standard - 1/3rd octave and narrow band (FFT) measurements to identify any tonal elements or low frequency noise - Reference to the World Health Organisation guidelines for community noise. Upon completion of the work, a written report shall be submitted to the Environment Agency. The report shall make reference to the predictions in the acoustics report in appendix D of the variation application. If noise at levels likely to cause complaints at sensitive receptors is detected, the report shall include an assessment of the most suitable abatement techniques and an estimate of the cost and a proposed timetable for their installation.	Within 4 months of the completion of commissioning

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC4	The operator shall submit a written post-commissioning report for the new combustion plant and PM2 to the Environment Agency. The report shall include as a minimum: - a review of performance of the new combustion plant, PM2 and effluent treatment plant under a representative range of operating conditions - Details of procedures developed during commissioning for achieving and demonstrating satisfactory process control. The report should clearly demonstrate how the commissioning plan has been implemented during the commissioning period. Where differences are identified between the new combustion plant, PM2 and effluent treatment plant and that presented within the EPR variation application the Operator shall: - review the environmental impact assessment submitted as part of the application where appropriate, and - propose a time-tabled plan for upgrades to optimise plant performance. Any control procedures or upgrades shall be implemented in accordance with the Environment Agency's written approval.	Within 4 months of the completion of commissioning
IC5	The operator shall carry out an assessment of the thermal impact of the discharge from emission point W1 on the aquatic environment of the River Goyt, using an appropriate model as agreed with the Environment Agency. The assessment shall consider but not be limited to: - Continuous temperature monitoring of the final effluent discharged to the River Goyt to provide a year round temperature profile; - The impact of the discharge on river temperature; - The predicted mixing zone; and - An assessment against the temperature standards set out in H1 Annex D, specifically 28°C for a "good" status cyprinid river and no increase of more than 3°C above the ambient river temperature. A written report on the findings of the assessment shall be submitted to the Environment Agency for approval.	Within 12 months of the issue of variation EPR/PP3539TJ/V006
IC 6	The Operator shall submit to the Environment Agency for approval, a report detailing the process monitoring required under Table S3.3 / S3.4 of this permit, for particulate emissions from air emission points from non-combustion sources listed in table S3.1 of this permit. The submission shall make reference to techniques used to minimise and manage the release of particulate matter including; the source of particulate matter; available abatement/control measures; monitoring techniques/methods and inspection frequencies.	12 months from date of issue of variation EPR/PP3539TJ/V006 . .
IC7	The operator shall submit for agreement with the Environment Agency details of use of Sodium Hypochlorite at the Effluent Treatment Plant. The review shall include parameters when chemical addition may occur and cease and quantities historically used.	Within 6 months of issue of variation EPR/PP3539TJ/V006

Table S1.4A Pre-operational measures for future development		
Reference	**Operation**	**Pre-operational measures**
PO1	New combustion plant & Paper Mill 2	At least four weeks before the start of commissioning of the new combustion plant and Paper Mill 2, the operator shall submit to the Environment Agency for approval a written commissioning plan. The commissioning plan shall include but not be restricted to: - details of the tasks necessary to commission the new plant, - a timetable of the scheduled commissioning tasks and associated timescales for completion; - any additional (beyond that required by the Permit) monitoring to be undertaken, such as planned process monitoring for each commissioning task. - details of the control measures and techniques to be employed for each task in order to prevent pollution of the air, water, groundwater and land; and - a noise impact assessment as regards the test running of equipment during the commissioning phase. For the new combustion plant, the assessment shall evaluate the appropriateness of applying temporary attenuation to any venting activities undertaken as part of the purging of the pipe work and equipment before normal duty operation. The assessment shall also detail how commissioning activities will be scheduled such that the potential noise impact on sensitive receptors is minimised. Commissioning shall not commence until the commissioning plan is approved in writing by the Environment Agency.
PO2		The operator shall update the installation's Environmental Management System (EMS) to include all plant, equipment and techniques associated with the new combustion plant and paper mill. At least two months before the start of operations, the operator shall submit confirmation that the EMS has been updated as required by this condition and provide a summary of the contents, clearly identifying where updates have been made and how these cover the new facilities to which this variation applies. The updated EMS shall be developed in line with Part 1 of EPR 1.00 "How to comply with your Environmental Permit", Horizontal Guidance Note H6 "Environmental Management Systems" and the additional requirements set out in Section 1 of EPR 1.01 "Combustion Activities" and Section 1 of EPR 6.01 "Paper and Pulp" guidance documents. The EMS shall include an accident management plan which shall cover fire risk, potential spillages and prevention of ground, surface water and groundwater contamination. Operation of the new combustion plant and paper mill 2 shall not commence until the accident management plan is approved in writing by the Environment Agency.
PO3		At least 12 months prior to the operation of plant permitted under Variation EPR/PP3539TJ/V003 (eg PM2, Stock preparation, gas turbine, gas fired boiler) the operator shall submit a report comparing the new plant against the BAT conclusions of the Paper and Pulp BREF 2014 and any other relevant BREF applicable to the proposed operations. The report shall identify where improvements at the installation from these proposals are able to upgrade BAT associated techniques used on the existing infrastructure (e.g. PM1).

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	**Specification**
-	-

Table S2.2 Permitted waste types and quantities for production of tissue	
Maximum quantity	No maximum tonnage subject to appropriate storage
Waste code	**Description**
15	**Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified**
15 01	**packaging (including separately collected municipal packaging waste)**
15 01 01	paper and cardboard packaging
19	**Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use**
19 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 01	paper and cardboard
20	**Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions**
20 01	**separately collected fractions (except 15 01)**
20 01 01	paper and cardboard

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location **Identified on Figure 3 "Emission Points to Air" Rev. B in variation application**	**Source**	**Parameter**	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
A1	10.5 MW Boiler Plant (PM1)	Oxides of Nitrogen (NO and NO2 expressed as NO2)	-	-	-	-
		Carbon Monoxide (CO)				
B2-B4	10.5MW Boiler Hot Water Well and Safety Vents	-	-	-	-	-
B5 – B10	Safety and Exhaust Vents	-	-	-	-	-
A11	Gas Turbine Exhaust Stack	Oxides of Nitrogen (NO and NO2 expressed as NO2)				
		Carbon Monoxide (CO)				
A12	PM2 Hood Exhaust Stack	Oxides of Nitrogen (NO and NO2 expressed as NO2)				
		Carbon Monoxide (CO)				

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location **Identified on Figure 3 "Emission Points to Air" Rev. B in variation application**	**Source**	**Parameter**	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
A13	HRSG / Evaporator Stack	Oxides of Nitrogen (NO and NO2 expressed as NO2)	50mg/m3	Hourly Average	Every 6 months	BS EN 14792
		Carbon Monoxide (CO)	100mg/m3			BS EN 15058
A14 – A16	PM2 Building Vents	-	-	-	-	-
A17	15MW Boiler Stack (PM1 & PM2)	Oxides of Nitrogen (NO and NO2 expressed as NO2)				
		Carbon Monoxide (CO)				
A18, A19 & B11	Fire Pump Exhausts	-	-	-	-	-
A20 – A26, A28	Safety Vents	-	-	-	-	-
A27	15MW Boiler Hotwell Vent	-	-	-	-	-
A28	15MW Boiler Steam Safety Vent	-	-	-	-	-

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (incl. unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
W1 as detailed on drawing 007 Appendix E of the application	Effluent Treatment plant	Flow Rate	34.7 litres/sec	Instantaneous	Continuous	MCERTS self-monitoring of effluent flow scheme
		Maximum Daily Flow	3000 m^3/day	24 hours	Daily	MCERTS self-monitoring of effluent flow scheme
		pH (units)	6 (min) 9 (max)	Instantaneous	Continuous	MCERTS Approved instrumentation
		Temperature	40 °C note 5,	Instantaneous	Continuous	Standard temperature sensor
		Chemical oxygen demand (COD) or Total organic carbon (TOC) note 1	-	24-hour flow proportional sample	Daily note 2	COD: BS ISO 15705 TOC: BS EN 1484
		Biochemical oxygen demand (BOD_5)	20 mg/l	24-hour flow proportional sample	Weekly note 4 (once a week)	BS EN 1899-1
		Total suspended solids (TSS)	30 mg/l	24-hour flow proportional sample	Daily note 2	BS EN 872
		Total suspended solids (TSS)	45 mg/l	Spot sample	Weekly note 4 (once a week)	BS EN 872
		Total nitrogen	No limit	24-hour flow proportional sample	Weekly notes 2,4 (once a week)	BS EN 12260
		Total phosphorus	No limit	24-hour flow proportional sample	Weekly notes 2,4 (once a week)	BS EN ISO 15681- 1 Or BS EN ISO 15681- 2
		AOX	-	24-hour flow proportional sample	Once every two months	AOX = BS EN ISO 9562
		Metals Total and Dissolved	-	Spot sample	twice a year	BS EN ISO 15586

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (incl. unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
		(Zn, Cu, Cd, Pb, Ni, Hg)				BS EN ISO 17852 for Hg only
		Hazardous Pollutants screen note 3	-	Spot sample	twice a year	GCMS analysis at UKAS accredited laboratory
W2 as detailed on drawing 007 Appendix E of the application	French drain	No parameters set	No limit set	-	-	-
W3 & W4 as detailed on drawing 007 Appendix E of the application	Uncontaminated surface water	No parameters set	No limit set	-	-	-

Note 1: If TOC is already monitored as a key process parameter, there is no need to measure COD, however the correlation between the two parameters must established and checked regularly.

Note 2: If internal rapid test methods are used, they must be cross referenced by external tests to EN or ISO standards monthly.

Note 3: Hazardous pollutants screen substances are: Chlorpyriphos, Cypermethrin, Endosulphan (A & B), 4-nonylphenols & Nonylphenol ethoxylates, PCP, TBT.

Note 4: Weekly samples shall be collected by following a randomised sampling program as far as is practicable.

Note 5: Following commission of PM2 the limit shall be reduced to 35^{o}C

Table S3.3 Annual limits		
Substance	Medium	Limit (including unit)
Chemical Oxygen Demand (COD)	Water note 1	0.9 – 4.0kg/t note 2
Total suspended solids (TSS)	Water note 1	0.1 – 0.4kg/t note 2
Total nitrogen	Water note 1	0.01- 0.15kg/t note 2
Total phosphorus	Water note 1	0.002 – 0.015kg/t note 2
Adsorbable organically bound halogens (AOX)	Water note 1	0.05kg/t note 2

Note 1: For integrated or multi product mills where the BAT AEL range has been calculated according to a mixing rule based on their share of the discharge, based on information supplied by the Operator, the Operator must notify the Environment Agency if the product/ raw material mix changes by more than 10% in any direction.

Note 2: All annual emission limits that impose BAT-AEL's for direct discharges to water apply from 01 October 2018.

Table S3.4 Process monitoring requirements				
Emission point reference or source or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
Abstracted water inlet	Hazardous Pollutants screen note 1	Twice per annum as per discharge monitoring	GCMS analysis at UKAS accredited laboratory	Spot sample
A13	Temperature	as relevant to reference emissions monitoring		
	Pressure			
	Oxygen content		BS EN 15267-3	
	Water vapour content		BS EN 15267-3	Unless Sample Dried
Emission Points identified in IC 6	Particulate Matter	As agreed in writing with the Environment Agency		

Note 1: Hazardous pollutants screen substances are: Chlorpyriphos, Cypermethrin, Endosulphan (A & B), 4-nonylphenols & Nonylphenol ethoxylates, PCP, TBT.

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.	A13	Every 6 months	1 January, 1 July
Emissions to water Parameters as required by condition 3.5.1	W1	Every 6 months	1 January, 1 July

Table S4.2 Performance parameters			
Parameter note 1	**Frequency of assessment**	**Units**	**Units**
Water inputs to the Mill note 1	Annually	tonnes	m^3/t
Water used in manufacturing note 1	Annually	tonnes	m^3/t
Other inputs of water/moisture note 1	Annually	tonnes	m^3/t
Water outputs note 1	Annually	tonnes	m^3/t
Waste/raw material inputs note 1	Annually	tonnes	
Waste/raw material outputs note 1	Annually	tonnes	
Net total annual production note 1	Annually	tonnes	

Note 1: All to be monitored and reported in accordance with associated guidance note issued with the permit.

Table S4.3 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Air	Form air 1 or other form as agreed in writing by the Environment Agency	01/08/16
Water and Land	Form water 1 or other form as agreed in writing by the Environment Agency	01/08/16
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	01/08/16

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

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

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

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

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

Part B – to be submitted as soon as practicable

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

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6

Interpretation

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

“ADt” means Air Dried Tonnes (of pulp) expressed as 90% dryness. ADt for paper should be reported at “normal” or average moisture content for the production over the course of any one year, noted but not corrected.

AOX is adsorbable organic halides measured according to the EN ISO:9562 standard method for waste waters.

“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 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

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

“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.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

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

Metals monitoring as follows: Zn (Zinc), Cu (Copper), Cd (Cadmium), Pb (Lead), Ni (Nickel), Hg (Mercury).

Net production is as follows:

i) For paper mills: the unpacked, saleable production after the last slitter winder, i.e. before converting.

(ii) For off-line coaters: production after coating.

(iii) For tissue mills: saleable tonnes after the tissue machine before any rewinding processes and excluding any core.

(iv) For market pulp mills: tonnage after packing (pulp at 90 % dryness, i.e. 'air dry' - AD).

(v) For integrated pulp mills: net pulp production refers to the tonnage after packing (pulp at 90 % dryness, i.e. AD) plus the pulp transferred to the paper mill (pulp calculated at 90 % dryness, i.e. air dry). For the net paper production of the integrated mill refer to (i)

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

Total nitrogen (Tot-N). Total nitrogen (Tot-N) given as N, The sum of organic nitrogen, free ammonia and ammonium (NH_4^+-N), nitrites (NO_2^- -N) and nitrates (NO_3^- -N).

Total phosphorus (Tot-P). Total phosphorus (Tot-P) given as P, includes dissolved phosphorus plus any insoluble phosphorus carried over into the effluent in the form of precipitates or within microbes.

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

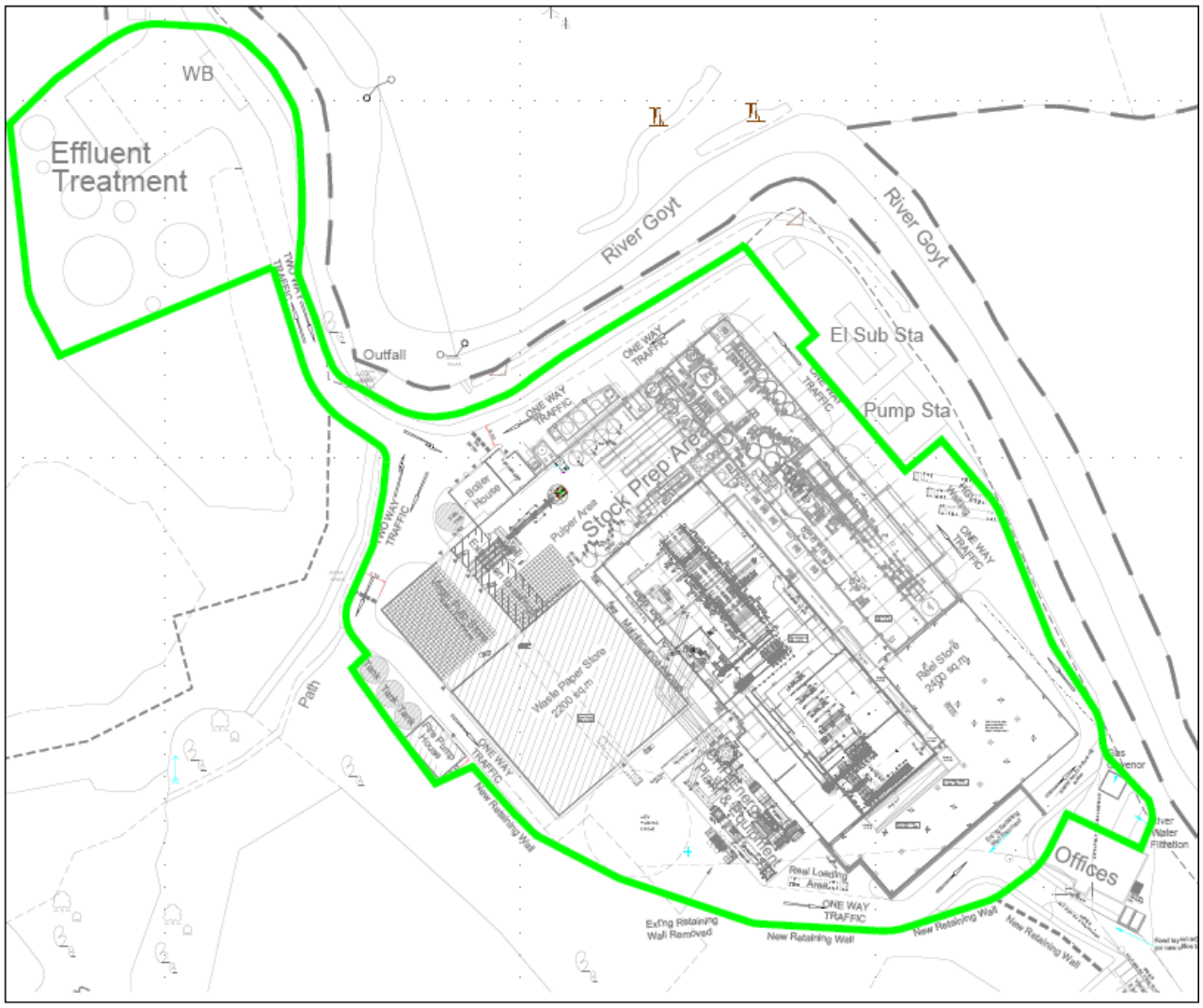
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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, 15% dry for Gas Turbines; 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



END OF PERMIT