



Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Holmfirth Dyers Limited

Ribblesden Dye Works
Dunfield Road
Holmfirth
West Yorkshire
HD9 2DP

Permit number

EPR/GP3544QB

Ribbleden Dye Works

Permit number EPR/GP3544QB

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

Holmfirth Dyers Limited operate a dyeing and finishing plant at Ribbleden Dye works by processing textiles made from natural, synthetic and multi-fibre blends for supply into the textile industry. The site is classified as an installation and regulated under the Environmental Permitting Regulations (England and Wales) 2016 (EPR):

- Section 6.4 Part A(1)(a) “Pre-treating (by operations such as washing, bleaching or mercerization) or dyeing fibres or textiles in plant with a treatment capacity of more than 10 tonnes per day.”
- Section 5.4 Part A(1)(a)(ii) “Disposal of Non-Hazardous Waste with a Capacity Exceeding 50 tonnes/day (or 100 tonnes/day if only waste treatment is Anaerobic Digestion (AD)) involving physico-chemical treatment” for the associated Effluent Treatment Plant (ETP).

Directly Associated Activities (DAA) are included for the operation of two gas-fired boilers providing steam and heat each with a thermal input of 5.2MWth (only one boiler operated at a time), storage and handling of raw materials, handling and storage of waste materials and storage of finished products. Holmfirth Dyers Limited operates an environmental management system, certified to ISO 14001.

The site is located on Dunford Road in Holmfirth, West Yorkshire with a National Grid Reference (NGR) of SE 14300 08000 and is located next to and directly over the River Ribble. The South Pennine Moors Special Area of Conservation (SAC) and the Peak District Moors (South Pennine Moors Phase 1) Special Protection Area (SPA) are both within a radius of 7.5km of the site.

The principal releases from the site are emissions to air from the finishing process and water discharged from dyeing, which is pH corrected by an onsite ETP and discharged to sewer as consented by Yorkshire Water. Other significant impacts include noise and odour which are both controlled by management plans.

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

Status log of the permit		
Description	Date	Comments
Application EPR/GP3544QB/A001 received	02/08/2022	Application for an environmental permit for an installation.
Application EPR/GP3544QB/A001	Duly made 06/10/2023	Application for an environmental permit for an installation.
Additional information received	09/08/2023	Application form B6.
Additional information received	14/09/2023	Updated F1 form.
Additional information received	30/11/2023	Pesticide test results.
Additional information received	15/12/2023	Noise impact assessment.
Additional information received	25/01/2024	Updated drainage plan.
Additional information received	01/03/2024	Updated BAT assessment.
Additional information received	23/04/2024	4 Stack operating profile.
Additional information received	23/05/2024	Ordinance survey site plan.
Permit determined EPR/GP3544QB (Billing ref. GP3544QB)	28/06/2024	Permit issued to Holmfirth Dyers Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/GP3544QB

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

Holmfirth Dyers Limited (“the operator”),

whose registered office is

**The Watermill
Wheatley Park
Mirfield
West Yorkshire
WF14 8HE**

company registration number 02180957

to operate an installation at

**Ribblesden Dye Works
Dunfield Road
Holmfirth
West Yorkshire
HD9 2DP**

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

Name	Date
Vicky Patchett	28/06/24

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

2.3 Operating techniques

2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.

2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

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

2.4 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 and S3.2.

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

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

3.1.4 The first monitoring measurements shall be carried out within four months of the issue date of the permit or of the date when the MCP is first put into operation, whichever is later.

3.2 Emissions of substances not controlled by emission limits

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

3.3 Odour

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

3.4 Noise and vibration

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

3.5 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;
- 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.

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.

4.3 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.
- 4.3.7 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	Limits of specified activity
AR1	S6.4 A1 (a)	Pre-treating, dyeing, and finishing of textiles.	Receipt of raw materials to despatch of finished products.
AR2	S5.4 A1 (a) (ii)	Treatment of effluent in on site effluent treatment plant prior to discharge to sewer.	Receipt of effluent from process to discharge to sewer.
Directly Associated Activity			
AR3	Steam and heating supply to process activities.	Medium Combustion plants: Comprising of 2 x 5.2MWth natural gas boilers (operated alternately).	Includes fuel receipt and storage.
AR4	Storage and handling of raw materials.	Storage and handling of raw materials and finished products.	Receipt of raw materials to despatch of finished product.
AR5	Cooling and refrigeration.	Ammonia and F-Gas storage providing cooling and refrigeration of process activity areas.	Receipt of raw materials to despatch of finished product.
AR6	Storage of finished product.	Storage of finished product within the site warehouse.	Receipt of raw materials to despatch of finished product.
AR7	Dry Cleaning	Dry cleaning is a solvent scouring process that involves the treatment of fabrics such as polyester and wool using a medium of organic solvent to remove impurities, such as dirt and oil.	Receipt of raw materials to despatch of finished product.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The responses to Parts B2 and B3 of the application and all submitted supporting information.	Duly Made 06/10/2023
Application	Odour management plan reference – Holmfirth Dyers Odour Management Plan 02082022	02/08/2022
Response to Schedule 5 Notice dated 15/12/2023	Noise Impact Assessment and Noise Management Plan.	15/12/2023

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	<p>The operator shall submit a written report to the Environment Agency for assessment and written approval.</p> <p>The report must contain:</p> <ul style="list-style-type: none"> • A revised Noise Impact Assessment upon completion of the proposed mitigation measures in the Noise Management Plan. <p>The operator must implement the proposals in the report in line with the timescales agreed with the Environment Agency's written approval.</p>	Within 12 months
IC2	<p>The operator shall submit a written report to the Environment Agency for assessment and written approval.</p> <p>The report must contain:</p> <ul style="list-style-type: none"> • Proposal for providing containment from spills and firewater run off • Demonstration that proposals meet appropriate CIRIA C736 standard <p>The operator must implement the proposals in the report in line with the timescales agreed with the Environment Agency's written approval.</p>	Within 6 months
IC3a	<p>The operator shall submit a report for written approval by the Environment Agency of the characterisation of effluent discharges from the site in order to establish the parameters, including but limited to:</p> <ul style="list-style-type: none"> • Pesticides • Toxicity <p>Following characterisation of the effluent, the operator shall submit for written approval by the Environment Agency, a risk assessment for effluent discharges from the site, including but not limited to, pesticides and toxicity parameters in accordance with Environment Agency guidance:</p> <ul style="list-style-type: none"> • Risk assessments for your environmental permit - Risk assessments for your environmental permit - GOV.UK (www.gov.uk) (updated 21 November 2023) <p>Where identified substances cannot be screened out as insignificant, proposals shall be submitted for written approval by the Environment Agency to improve the quality of the effluent samples such that a quantifiable risk assessment can be made, following the Environment Agency guidance:</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). (updated 25 February 2022) • Sanitary substances – H1 annex D2: assessment of sanitary and other pollutants in surface water discharges 1076_14 H1 Annex D2 - Assessment of sanitary and other pollutants within Surface Water Discharges (publishing.service.gov.uk) (published 1st September 2014) 	Within 6 months of permit issue

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC3b	<p>Following completion of IC3a, the operator shall submit for written approval by the Environment Agency, a sampling and monitoring plan for the wastewater streams generated at the installation.</p> <p>The sampling and monitoring plan shall detail the sampling methods and standards to be used as well as the analysis and reporting methods for all relevant substances and must be designed to fully characterise the waste waters to be discharged to sewer including, but not limited to:</p> <ul style="list-style-type: none"> • Pesticides • Toxicity <p>The sampling methodology shall include, but not be limited to, the collection of a minimum of a 24-hour flow proportional sample a month for a period of 12 months.</p> <p>The sampling and monitoring plan shall be produced in accordance with the following Environment Agency guidance:</p> <ul style="list-style-type: none"> • Specific substances and priority hazardous substances – <u>Surface water pollution risk assessment for your environmental permit - GOV.UK (www.gov.uk)</u> (updated 25th February 2022) • Monitoring discharges to water: guidance on selecting a monitoring approach - <u>Monitoring discharges to water: guidance on selecting a monitoring approach - GOV.UK (www.gov.uk)</u> (updated 18th May 2021) 	Within 3 months of completion of IC3a

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC3c	<p>The operator shall carry out 12 months sampling and monitoring programme for the substances and in accordance with sampling and monitoring plan approved under IC 3a.</p> <p>Following the completion of the approved sampling and monitoring programme, the operator shall submit a report to the Environment Agency for written approval. The report shall include, but not be limited to; a summary of the monitoring results, a completed H1 risk assessment and/or modelling results (where appropriate).</p> <p>The operator shall provide conclusions in the report on whether or not the waste waters discharged to sewer from the installation are/have been likely to have/have had significant/adverse impact on the final receiving waters following further treatment at the Wastewater Treatment Works (WwTW).</p> <p>The conclusion 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 – <u>Surface water pollution risk assessment for your environmental permit - GOV.UK (www.gov.uk)</u> (updated 25th February 2022) • Sanitary substances – <i>H1 annex D2: assessment of sanitary and other pollutants in surface water discharges 1076_14 H1 Annex D2 - Assessment of sanitary and other pollutants within Surface Water Discharges</i> (publishing.service.gov.uk) (published 1st September 2014) <p>Where results of the H1 assessment and/or modelling indicate that significant/adverse impact on the final receiving waters is likely from waste waters discharged to sewer from the installation, the operator shall cease further discharge of waste waters to sewer from the installation and shall submit a proposal of additional measures to be implemented to prevent or minimise any significant/adverse impact on the final receiving waters, along with timescales for implementation to the Environment Agency for written approval.</p>	<p>Within 13 months of completion of IC3b, or, at any other date agreed in writing in advance with the Environment Agency.</p>
IC3d	<p>The operator shall implement/install any improvements and/or additional measures approved under IC3b & IC3c in accordance with the Environment Agency's written approval and provide written confirmation to the Environment Agency that the improvements and/or additional measures have been implemented/installed.</p>	<p>6 months following the Environment Agency's approval of the reports submitted for IC3b and IC3c, or at any other date agreed in writing with the Environment Agency.</p>

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
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Schedule 3 – Emissions and monitoring

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 [Point A1 on site plan in Schedule 7]	Boiler Plant and production tumbler unit	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	200 mg/Nm ³	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 16 February 2021	Once every 3 years	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 16 February 2021
		Carbon Monoxide	--			
A2 [Point A2 on site plan in schedule 7]	Tenter heating frame unit	Dust	10 mg/Nm ³	Periodic	Once every year	EN 13284-1
		Carcinogenic, mutagenic, or toxic for reproduction (CMR) (other than formaldehyde)	--	Periodic	Once every year	EN TS 13649
		Formaldehyde	5 mg/Nm ³	Periodic	Once every year	EN TS 17638
		Ammonia (NH ₃)	10 mg/Nm ³	Periodic	Once every year	EN ISO 21877
		Total volatile organic carbon (TVOC)	40 mg/Nm ³	Periodic	Once every year	EN 12619
A3 [Point A3 on site plan in schedule 7]	Bypass stack for tenter frame heating unit	--	--	--	--	--
A4 [Point A4 on site plan in schedule 7]	Dyehouse building winch dyeing process	--	--	--	--	--
A5 [Point A5 on site plan in schedule 7]	Sperotto and KD Machine	--	--	--	--	--

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 [Point S1 on site plan in schedule 7 emission to sewer]	Site effluent treatment plant	Adsorbable organically bound halogens (AOX)	0.8 mg/l	24-hour flow-proportional composite samples	Once every three months	EN ISO 9652
		Brominated Flame Retardants	--	24-hour flow-proportional composite samples	Once every three months	EN standard available for some polybrominated diphenyl ethers (i.e. EN 16694)
		Chemical Oxygen Demand (COD)	--	24-hour flow-proportional composite samples	Once every month	ISO 6060
		Colour	--	24-hour flow-proportional composite samples	Once every three months	EN ISO 7887
		Antimony (Sb)	1.2 mg/l	24-hour flow-proportional composite samples	Once every three months	ISO 17378-1
		Chromium (Cr)	0.3 mg/l	24-hour flow-proportional composite samples	Once every three months	EN 1233
		Copper (Cu)	0.4 mg/l	24-hour flow-proportional composite samples	Once every three months	EN ISO 11885
		Nickel (Ni)	0.1 mg/l	24-hour flow-proportional composite samples	Once every three months	EN ISO 11885

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
		Zinc (Zn)	0.8 mg/l	24-hour flow-proportional composite samples	Once every three months	EN ISO 11885
		Hexavalent Chromium (Cr(VI))	--	24-hour flow-proportional composite samples	Once every month	ISO 11083
		Pesticides	--	24-hour flow-proportional composite samples	To be decided, after effluent characterisation ^(Note 1)	EN 12918
		Per- and polyfluoroalkyl substances (PFAS)	--	24-hour flow-proportional composite samples	Once every three months	ISO 21675
		Sulphide, easily released (S ²⁻)	<1 mg/l	24-hour flow-proportional composite samples	Once every three months	ISO 10530
		Surfactants: Alkylphenols and alkylphenol ethoxylates	--	24-hour flow-proportional composite samples	Once every three months	EN ISO 18857-1
		Other surfactants	--	24-hour flow-proportional composite samples	Once every six months	EN 903 for anionic Surfactants, EN ISO 2871-1 for cationic surfactants
		Total Nitrogen (TN)	--	24-hour flow-proportional composite samples	Once every month	EN 12260
		Total Organic Carbon (TOC)	--	24-hour flow-proportional composite samples	Once every month	EN 1484
		Total Phosphorus (TP)	--	24-hour flow-proportional composite samples	Once every month	EN ISO 6878

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
		Total Suspended Solids (TSS)	--	24-hour flow-proportional composite samples	Once every month	EN 872
		Toxicity: Fish eggs (Danio Rerio) ^(Note 1)	--	24-hour flow-proportional composite samples	To be decided based on a risk assessment, after effluent characterisation ^(Note 1)	EN ISO 15088
		Toxicity: Daphnia (Daphnia Magna Straus) ^(Note 1)	--	24-hour flow-proportional composite samples	To be decided based on a risk assessment, after effluent characterisation ^(Note 1)	EN ISO 6341
		Toxicity: Luminescent bacteria (Vibrio fischeri) ^(Note1)	--	24-hour flow-proportional composite samples	To be decided based on a risk assessment, after effluent characterisation ^(Note 1)	Various EN standards available (e.g. EN ISO 11348-1, EN ISO 11348-2, EN ISO 11348-3)
		Toxicity: Duckweed (Lemna minor) ^(Note1)	--	24-hour flow-proportional composite samples	To be decided based on a risk assessment, after effluent characterisation ^(Note 1)	Various EN standards available (e.g. EN ISO 20079, EN ISO 20227)
		Toxicity: Algae ^(Note 1)	--	24-hour flow-proportional composite samples	To be decided based on a risk assessment, after effluent characterisation ^(Note 1)	Various EN standards available (e.g. EN ISO 8692, EN

^(Note 1) Monitoring frequencies to be set after a report confirming the effluent characterisation of pesticides and toxicity is submitted to the Environment Agency. Monitoring frequency of toxicity parameters to be set based on a risk assessment after effluent characterisation is submitted to the Environment Agency. Toxicity parameter may be removed from Table S3.2 based on the risk assessment after the effluent characterisation is submitted to the Environment Agency as per IC 3.

Schedule 4 – Reporting

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

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Point source emissions to air Parameters as required by condition 3.5.1	A1	Every 3 years	1 January
	A2	Every 12 months	1 January
Point source emissions to sewer Parameters as required by condition 3.5.1	S1	Every 12 months	1 January

Parameter	Units
Annual treatment of textiles and fibres	Tonnes / year

Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Energy usage	Annually	MWh

Parameter	Reporting form	Form version number and date
Point source emissions to air	Emissions to Air Reporting 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
Ambient air monitoring	Ambient Air Monitoring Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Process monitoring	Process Monitoring 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.	

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.

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

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

“emissions to land” includes emissions to groundwater.

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

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission 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, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

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

“Medium Combustion Plant” or “MCP” means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW.

“Medium Combustion Plant Directive” or “MCPD” means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

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

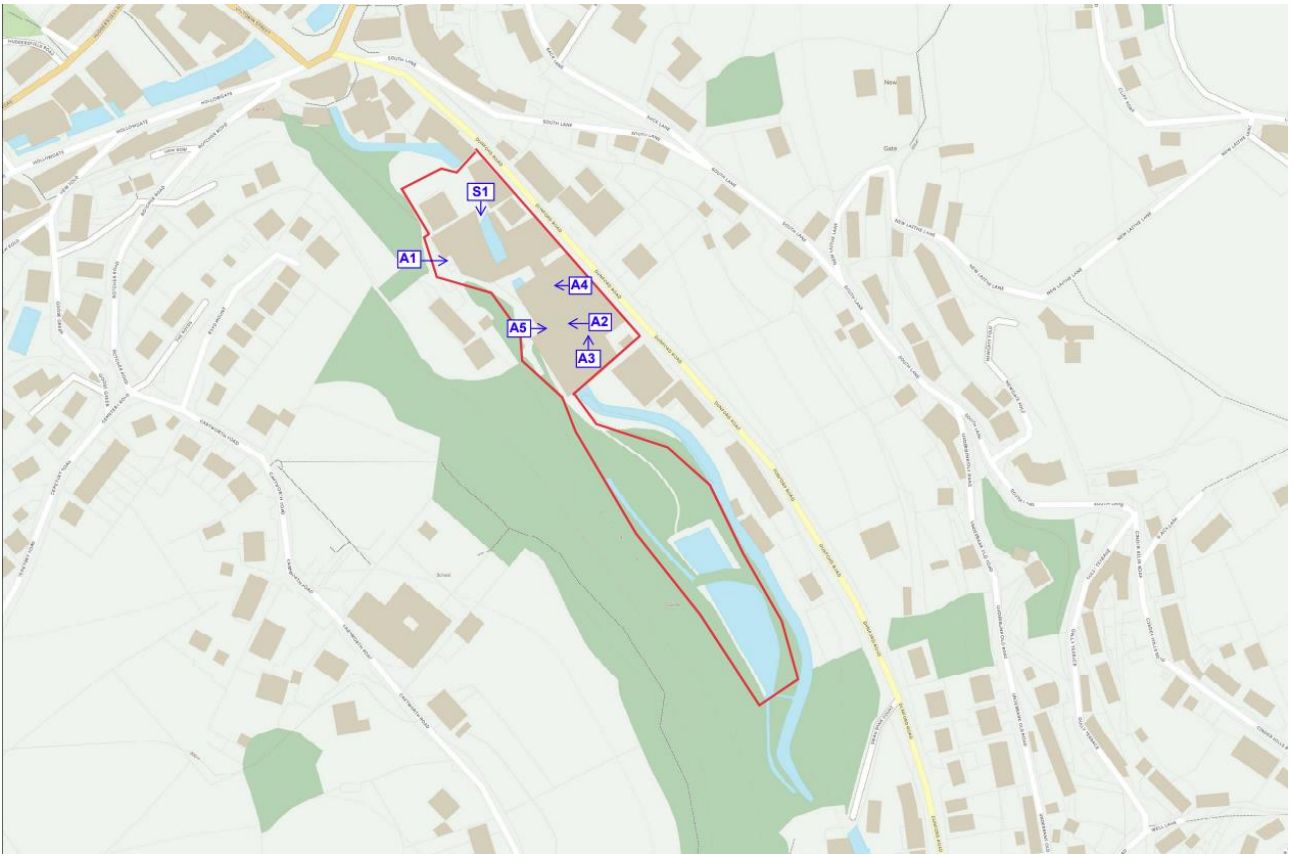
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from gas engines or gas turbines, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 15% dry for liquid and gaseous fuels; and/or

in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content “year” means calendar year ending 31 December.

Schedule 7 – Site plan



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END OF PERMIT

Reporting Forms

Emissions to Air Reporting Form

Permit number: *[EPR/AB1234CB]*

Operator: *[A Company Name Limited]*

Facility name: *[Unit A, Anytown]*

Emissions to Air Reporting Form: version 1, 08/03/2021

Reporting of emissions to air for the period from *[DD/MM/YY]* to *[DD/MM/YY]*

Emission point	Substance / parameter	Emission Limit Value	Reference period	Test method ¹	Result ²	Sample dates and times ³	Uncertainty ⁴
<i>[e.g. A1]</i>	<i>[e.g. Oxides of nitrogen (NO and NO₂ expressed as NO₂)]</i>	<i>[e.g. 200 mg/m³]</i>	<i>[e.g. daily average]</i>	<i>[e.g. BS EN 14181]</i>	<i>[State result]</i>	<i>[State relevant dates and time periods]</i>	<i>[State uncertainty if not 95% confidence interval]</i>

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

- ¹ Where an internationally recognised standard test method is used, give the reference number. Where another method that has been formally agreed with the Environment Agency, give the appropriate identifier. In other cases state the principal technique, for example gas chromatography.
- ² Give the result as the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, give the result as the 'minimum to maximum' of the measured values.
- ³ For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.
- ⁴ Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

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- ² Give the result as the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, give the result as the 'minimum to maximum' of the measured values.
- ³ For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.
- ⁴ Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.

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- ² Give the result as the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, give the result as the 'minimum to maximum' of the measured values.
- ³ For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.
- ⁴ Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

- ¹ Where an internationally recognised standard test method is used, give the reference number. Where another method that has been formally agreed with the Environment Agency, give the appropriate identifier. In other cases state the principal technique, for example gas chromatography.
- ² Give the result as the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, give the result as the 'minimum to maximum' of the measured values.
- ³ For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.
- ⁴ Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

Water Usage Reporting Form

Permit number: [EPR/AB1234CB]

Operator: [A Company Name Limited]

Facility name: [Unit A, Anytown]

Water Usage Reporting Form: version 1, 08/03/2021

Reporting of water usage for the year [YYYY]

Water source	Water usage (m ³)	Specific water usage (m ³ /unit) ²
Mains water	[insert annual usage in m ³ where mains water is used]	[insert annual usage in m ³ /unit where mains water is used]
Site borehole	[insert annual usage in m ³ where water is used from a site borehole]	[insert annual usage in m ³ /unit where water is used from a site borehole]
River abstraction	[insert annual usage in m ³ where abstracted river water is used]	[insert annual usage in m ³ /unit where abstracted river water is used]
Other – [specify other water source where applicable. Add extra rows where needed]	[insert annual usage in m ³ where applicable]	[insert annual usage in m ³ /unit where applicable]
Total water usage	[insert total annual water usage in m ³]	[insert total annual water usage in m ³ /unit]

Operator's comments

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your annual water usage.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Add additional rows as necessary.

Energy Usage Reporting Form

Permit number: [EPR/AB1234CB]

Operator: [A Company Name Limited]

Facility name: [Unit A, Anytown]

Energy Usage Reporting Form: version 1, 08/03/2021

Reporting of energy usage for the year [YYYY]

Energy source	Energy consumption / production (MWh)	Specific energy consumption (MWh/unit) ²
Electricity imported as delivered - source [specify source, e.g. supplied from the national grid]	<i>[insert annual consumption in MWh where electricity is imported]</i>	<i>[insert annual consumption in MWh/unit where electricity is imported]</i>
Electricity imported as primary energy 1 – conversion factor of [specify conversion factor used to convert electricity delivered to primary energy]	<i>[insert annual consumption in MWh where electricity is imported]</i>	<i>[insert annual consumption in MWh/unit where electricity is imported]</i>
Natural gas	<i>[insert annual consumption in MWh where natural gas is used]</i>	<i>[insert annual consumption in MWh/unit where natural gas is used]</i>
Gas oil – conversion factor of [specify conversion factor used to convert tonnes to MWh]	<i>[insert annual consumption in MWh where gas oil is used]</i>	<i>[insert annual consumption in MWh/unit where gas oil is used]</i>
Imported heat	<i>[insert annual consumption in MWh where heat is imported]</i>	<i>[insert annual consumption in MWh/unit where heat is imported]</i>
Other – <i>[specify other energy source and conversion factors where applicable, e.g. renewable fuel. Add extra rows where needed]</i>	<i>[insert annual consumption in MWh where applicable]</i>	<i>[insert annual consumption in MWh/unit where applicable]</i>
Electricity exported	<i>[insert annual production in MWh where electricity is exported]</i>	Not applicable
Heat exported	<i>[insert annual production in MWh where heat is exported]</i>	Not applicable

Operator's comments

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your annual energy usage.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Add additional rows as necessary.

¹ Multiply delivered electricity by 2.4 to convert to primary energy where the electricity is supplied from the national grid. If the electricity is supplied from another source, specify the conversion factor used. Add additional rows as needed if electricity is imported from multiple sources.

² Divide energy consumption by an appropriate unit of raw material processed or product output.

Other Performance Parameters Reporting Form

Permit number: [EPR/AB1234CB]

Operator: [A Company Name Limited]

Facility name: [Unit A, Anytown]

Other Performance Parameters Reporting Form: version 1, 08/03/2021

Reporting of other performance parameters for the period from [DD/MM/YY] to [DD/MM/YY]

Parameter	Units
<i>[e.g. Total raw material usage]</i>	<i>[e.g. tonnes per production unit]</i>

Operator's comments

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report the performance parameters (other than water and energy) required by your permit. Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. The parameters to report and units to be used can be found in the 'Performance parameters' table in schedule 4 of your permit. Add additional rows as necessary.