

**Holmfirth Dyers Limited**  
Environmental Permitting Regulations  
Part A Permit Management System

# Document control

## Responsibilities

Role	Responsibility
Group Risk & Compliance Manager	Originator, Reviewer
Commercial Director	Approver

## Review & approval

Version	Date	Summary	Status
R0.1	11/01/2022	Originated	Draft
R1	29/07/2022	Approved	Published

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## Company overview

### About Holmfirth Dyers Limited

*EA ref: part A, sections 1, 5a, 5b, 6a, 6b, & part B2, sections 1a, 2a, 2b, 2c*

Holmfirth Dyers Limited is a wholly owned subsidiary of Camira Fabrics Limited, with the ultimate parent company being Camira Group Holdings Limited. Holmfirth Dyers Limited is registered with Companies House under Company number 02180957, and incorporated on 19th October 1987.

Holmfirth Dyers Limited registered head office address is The Watermill, Wheatley Park, Mirfield, West Yorkshire, United Kingdom, WF14 8HE. National grid reference SE211185.

Holmfirth Dyers Limited operational address is Ribbleden Dye Works Dunford Road, Holmfirth, West Yorkshire, United Kingdom, HD9 2DP. National grid reference: SE143080.

For more information on the Camira Group organisational structure, please refer to Group Structure, dated 31/12/2021, which is available in under External Documents. Also, please refer to the corporate website Legal Notice.

The application made in 2022 to the Environment Agency for a Part A permit is made in compliance with the Environmental Permitting Regulations 2016, and is made for a new bespoke installation at one regulated facility.

Prior to the application made in 2022 to the Environment Agency for a a Part A permit, no other application for

[Group Structure - Legal Format as at 31st December 2021.pdf](#)  
[Legal Notice \(camirafabrics.com\)](#)

### Directors

*EA ref: part A, section 5c, and appendix 1, section 4*

Title	First name(s)	Surname	DOB	Role
Ms	Lucy Caroline	Bolton	May 1981	Chief Financial Officer
Mr	Alan Lloyd	Williams	July 1972	Chief Executive Officer

### Legal & financial

*EA ref: part B2, section 3a, 3c, & appendix 2, & part B2.5 section 3a, 3b*

Holmfirth Dyers Limited confirms that it has no relevant convictions that could affect its application for an installation Part A permit, nor do any of its Directors. Holmfirth Dyers Limited, including its Directors, considers itself to be a competent operator for the purposes of managing a regulated facility.

Holmfirth Dyers Limited, nor its holding companies have any current or historical bankruptcy or insolvency proceedings, and furthermore, is considered a 'going concern'.

## Contacts

EA ref: part A, sections 7a, 7b, 7c

### Alan Williams

CEO and point of contact for corporate governance matters

Telephone: 03330 324 680 / 07983 628 760

Email: alan.williams@camirafabrics.com

Address: The Watermill, Wheatley Park, Mirfield, West Yorkshire, United Kingdom, WF14 8HE

### Gavin Thatcher

Director of UK Operations and point of contact for operational governance matters

Telephone: 03330 324 778 / 07880 054 382

Email: gavin.thatcher@camirafabrics.com

Address: Ribblesden Dye Works Dunford Road, Holmfirth, West Yorkshire, United Kingdom, HD9 2DP

### David Ducker

Technical Operations Manager and site point of contact for permit matters

Telephone: 03330 324 781 / 07393 802 185

Email: david.ducker@camirafabrics.com

Address: Ribblesden Dye Works Dunford Road, Holmfirth, West Yorkshire, United Kingdom, HD9 2DP

### Natalie Walker

Group Risk & Compliance Manager and group point of contact for permit matters

Telephone: 03330 324 687

Email: natalie.walker@camirafabrics.com

Address: Meltham Mills, Meltham, West Yorkshire, United Kingdom, HD9 4FA

### Accounts Payable

Accounts Payable, point of contact for financial matters

Telephone: 03330 324 568

Email: accounts.payable@camirafabrics.com

Address: The Watermill, Wheatley Park, Mirfield, West Yorkshire, United Kingdom, WF14 8HE

# Control systems

## Environmental Management System

*EA ref: part B2, sections 3d, & part B2.5, sections 3c*

<https://www.gov.uk/guidance/develop-a-management-system-environmental-permits>

### Certification

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Holmfirth Dyers Limited operates its environmental management system in accordance with the requirements of ISO 14001: 2015 and the requirements of Camira's group management systems. Extension to the scope of Camira's UKAS accredited ISO 14001 certification, to include Holmfirth Dyers Limited, is planned for 2022 Q4.

In the absence of current and valid UKAS accredited certification, Holmfirth Dyers has summarised the key aspects of its environmental management system in this chapter of the manual. Where required, supplementary evidence is referenced at the end of this manual as an 'external document'.

### Context of the organisation

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#### Introduction

Established in 1987, Holmfirth Dyers Limited is a dyer and finisher of textile fabrics, with an excellent reputation built on continual investment in equipment, strict control of raw materials and energy usage, and stringent quality control checks by experienced technologists. These elements ensure that Holmfirth Dyers production processes are amongst the more efficient in the industry.

Acquired in 2019, Holmfirth Dyers Limited is now part of the Camira Group. Camira's core purpose is 'Delivering Style with Substance', bringing colour, design, comfort, and personality to a wide range of interior environments, whilst ensuring supply chain and manufacturing integrity, along with environmental best practice. Camira's stated mission is 'to celebrate textile design and manufacturing, pushing boundaries, valuing people, and bringing interiors to life'.

#### Risk

Principle risk and uncertainty faced by Holmfirth Dyers is centered on the high reliance on energy and water to operate their production processes, the volatile pricing of those commodities, and the restricted size and location of the facility. Furthermore, although compliance with environmental legislation is a continual challenge for Holmfirth Dyers, it strives to ensure compliance at all times, and operate as a positive contributor to its local environments and neighbourhoods.

#### Context & interested parties

As part of the Camira Group Management System, Holmfirth Dyers has completed analysis of its interested parties, and its strengths, weaknesses, opportunities and threats which can be reviewed in the Context and Issues Survey saved to External Documents.

#### Scope of the management system

Holmfirth Dyers Limited has determined that the scope of its environmental management system is "Dyeing and finishing of cloths and yarns made from natural, synthetic and multi fibre blends for supply into textile manufacturing."

[Scope of the Environmental Management System](#)

[Organisational Context \(sharepoint.com\)](#)

[HFD Context & Issues Survey - 2021](#)

## Leadership

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Holmfirth Dyers Limited, under the leadership of the Camira Group and its Board of Directors, aims to exemplify environmental best practice within the textile industry. Camira's Board recognises and takes accountability for the effectiveness of the Group environmental management system, and for the performance of each Group entity. Commitment to the Group environmental management system is communicated through the Group Environmental Policy with improvement driven through its strategy, vision, mission, values, and objectives. Controls required to achieve the objectives of the environmental management system are integrated into operational processes, and clear responsibilities and communication channels are established and defined.

[Environmental Policy UK - Group.pdf](#)  
[Leadership \(sharepoint.com\)](#)

## Planning

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### General

In planning its environmental management system, Holmfirth Dyers Limited has considered its context, the scope of its management system, and the risks and opportunities related to its environmental aspects and compliance obligations. The primary aim of the planning process is to ensure that the environmental management system achieves its intended outcomes; prevents or reduces undesired effects, including those arising from emergency situations; and, achieves continual improvement.

### Aspects & Impacts

With the aid of process descriptions, and in consultation with interested parties, Holmfirth Dyers Limited has determined and documented the environmental aspects of its activities, and their associated environmental impacts. It has taken into account normal, abnormal, and emergency situations, and using its own established criteria, has determined those aspects that have or can have a significant environmental impact. Significant environmental aspects are communicated via the Group Business Management System on the Camira Group intranet.

[Planning \(sharepoint.com\)](#)  
[Environmental Aspects & Impacts \(sharepoint.com\)](#)  
[Environmental Aspects & Impacts - HFD July22.xlsx](#)  
[Risk Assessment](#)  
[Objectives Tracker.url](#)  
[HFD DISASTER PLAN - Appendix 92 Rev 1 04092020.docx](#)

## Support

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### Resources

Holmfirth Dyers Limited has determined and provided the resources needed for the establishment, implementation, maintenance and continual improvement of its environmental management system. These resources include; people with necessary competencies and awareness of relevant controls and obligations, equipment and infrastructure that is routinely serviced maintained and calibrated when required, and the appropriate materials and documents required to ensure all activities are conducted to the expected standard of work.

### Documented Information

Holmfirth Dyers Limited manage their documented information in accordance with the group *Documented Information Protection and Control Policy*. All documents and records have designated owners, are traceable and retrievable by the intended users and are stored digitally wherever possible to protect them from deterioration. Documents and records stored on the *HFD Document Library* are supported by metadata detailing; Document Name, Document Type (Policy, Procedure, Form, Reference), Document Owner, Document Number, Issue Date, Revision Number, Review Period, Information Classification & Record Retention



basis and duration as per the *Information Classification, Labelling and Handling Procedure* .

[HFD Asset & Calibration Register](#)

[HFD SKILLS MATRIX \(REF-HFD-003\).xlsx](#)

[HFD - ISO9001 Doc Library HFD - All Documents \(sharepoint.com\)](#)

[Group Documented Information Protection and Control Policy.pdf](#)

[Information Classification, Labelling and Handling procedure .pdf](#)

## Operation

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### **Planning and Control**

Holmfirth Dyers Limited has established operating criteria for its processes and has implemented suitable control of the processes, in accordance with defined operating criteria. Planned changes are controlled and reviews of unintended changes are regularly conducted to ensure actions to mitigate any adverse effects are implemented whenever necessary. Holmfirth Dyers Limited do not currently outsource any manufacturing processes.

### **Life Cycle Perspective**

During the design and development process, Holmfirth Dyers Limited establishes controls which ensure that environmental requirements are addressed at each life cycle stage; including material procurement, transportation, use, end-of-life and final disposal. Relevant environmental requirements are communicated to all interested parties such as contractors or service providers.

### **Emergency Preparedness**

Holmfirth Dyers Limited has established processes needed to prepare for and respond to potential emergency situations such as fire, flood, effluent contamination, gas leak, chemical explosion and infrastructural damage. These processes are periodically tested and actions to improve effectiveness of controls are implemented whenever required.

[HFD DISASTER PLAN - Appendix 92 Rev 1 04092020.docx](#)

[Planning \(sharepoint.com\)](#)

[Environmental Aspects & Impacts \(sharepoint.com\)](#)

## Performance Evaluation

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### **General Environmental Monitoring**

Holmfirth Dyers Limited monitor significant environmental aspects such as energy use, water abstraction, effluent volumes and COD, emissions to air and the concentration of hazardous compounds in raw materials processed. Assessments of noise, inspection of air conditioning units and monitoring of waste are also conducted routinely. Environmental compliance requirements applicable to Holmfirth Dyers Limited have been identified, recorded on the Group Legal Register and are evaluated for compliance status at a risk based frequency.

### **Audit & Management Review**

The activities at Holmfirth Dyers Limited are audited internally as part of Camira Group's 3 Year Audit Programme which is based on importance of the processes concerned, risk to environment and historical audit results. Camira Group is also periodically audited by external bodies, such as BSI and LUS to verify its conformity with applicable ISO standards and compliance requirements. The results of all audits are communicated with auditees, reported to relevant management and trends considered during the annual leadership review of the Business Management Systems. This review also includes changes in risks and opportunities, interested parties, compliance obligations, significant environmental aspects, monitoring and measuring results and any incidents or complaints.

[Risk & Compliance - Legal Register - Summary View \(sharepoint.com\)](#)

[Energy Dashboard.xlsx \(sharepoint.com\)](#)

[LNO 15340 Camira Holmfirth Dyers Polyester FR Treated Report V1.pdf](#)

[Group Chemical Compound Analysis \(FORM-COMP-031 R0\).xlsx \(sharepoint.com\)](#)  
[Yorkshire Water Effluent Sampling Results \(sharepoint.com\)](#)

## Improvement

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### **Nonconformity, Corrective action and Improvements**

When a process nonconformity occurs, Holmfirth Dyers Limited utilise the group Process Non Conformance SOP to ensure appropriate correction, corrective action, controlled changes and communication with any internal or external interested parties is implemented. Nonconformity of products is managed by the site Non-Conforming Product Procedure.

Environmental incidents are managed using the group Accident & Incident Reporting Standard and Incident Investigation Pack and complaints are managed by the group risk and compliance function with actions recorded on a Compliants Log.

[Non-Conforming Process SOP.xlsx](#)

[Non-Conforming Product Procedure.doc](#)

[Accident & Incident Reporting Standard .pdf](#)

[Incident Investigation Form.pdf](#)

[Complaints Log- \(sharepoint.com\)](#)

# Permits & exemptions

## Effluent discharge

*EA ref: part B2, sections 4*

Holmfirth Dyers Limited operates under the conditions of an effluent discharge consent (Y-4824-20D) issued by Yorkshire Water. The latest version was issued in 2021 and incorporated an allowance for increased volume.

To help maintain compliance with the permitted volume, this is measured and monitored daily. Furthermore, the discharge rate is throttled to prevent exceeding the 26 l/s limit. Results of HFD's monitoring of volume are available in External Documents.

Due to the chemicals and dyes used in the process, the effluent can become acidic and therefore must be treated before it is discharged. Automatic sampling and dosing is used to maintain compliant pH levels at the discharge point.

Apart from the volume and pH, none of the other conditions are routinely monitored or measured by the site. Instead, the site relies on the routine sampling conducted by Yorkshire Water for monitoring and measurement against the conditions relating to temperature, COD, COD load, settleable solids, or easily liberated Sulphide. Results of Yorkshire Water's monitoring and measurement are available in External Documents.

[Y-4824-20D Yorkshire Water Effluent Discharge Consent](#)

[HFD daily effluent discharge](#)

[Yorkshire Water sampling results 2021 - various](#)

## Abstraction

*EA ref: part B2, sections 4*

The facility utilises both the local inland water source of the River Ribble, as well as a borehole not exceeding a depth of 49 metres for water abstraction and supply to the site.

These activities are permitted by the Environment Agency until permits are revoked, effective from March 2000, for the purpose of supplying the dyeing processes undertaken on site.

The limits of abstraction are currently agreed at 90,000m<sup>3</sup> per year from the borehole under licence 2-27-10-082 and 85,000m<sup>3</sup> from the river under licence 2-27-10-83).

Water consumption through both methods of abstraction is measured monthly and recorded, to ensure compliance with the consumption limits set by the abstraction permits. Due to increased customer demand, Holmfirth Dyers Limited has applied for an increase to its licence for river water abstraction.

[2-27-10-082 Environment Agency Abstraction Licence River Rev2000.pdf](#)

[2-27-10-083 Environment Agency Abstraction Licence Borehole Rev2000.pdf](#)

[Water Abstraction.xlsx](#)

[Water Management SOP \(WI-COMP-021 R1\).pdf](#)

[Borehole Abstraction Returns](#)

[River Abstraction Returns](#)

## **Waste**

*EA ref: part B2, sections 4*

Holmfirth Dyers Limited is a wholly owned subsidiary of Camira Fabrics Limited. Holmfirth Dyers operates under the Camira Fabrics carrier dealer, upper tier waste carriers licence, registration CBDU213134, which expires 11th December 2023.

No exemptions or other special waste licences are considered as necessary for the Holmfirth Dyers facility.

[View registration CBDU213134 \(data.gov.uk\)](https://data.gov.uk)

## **Other permit requirements**

*EA ref: part B2, sections 4*

Prior to the application made in 2022 to the Environment Agency for a Part A permit under the control of this management system manual, no other application for a Part A permit has been made or discussed with the Environment Agency.

## Site plans

### Scope and boundaries

EA ref: part B2, sections 5a

Figure 1: Site boundary



Figure 2: Enhanced emission points



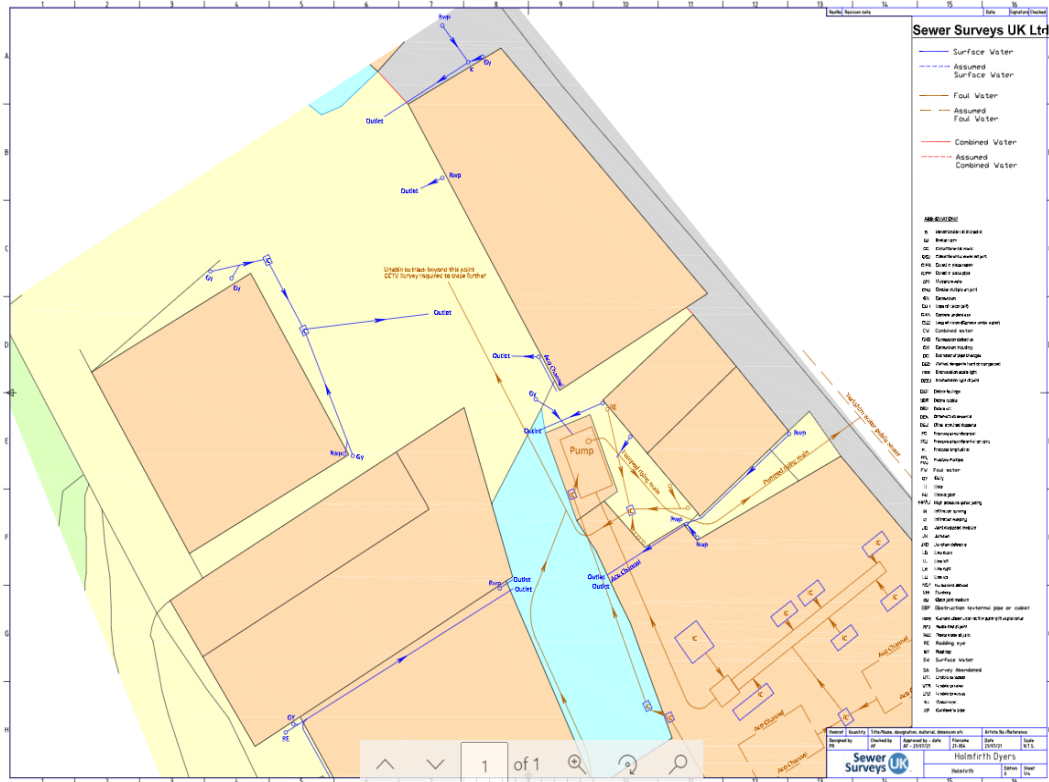
**Figure 3: Noise receptor points**



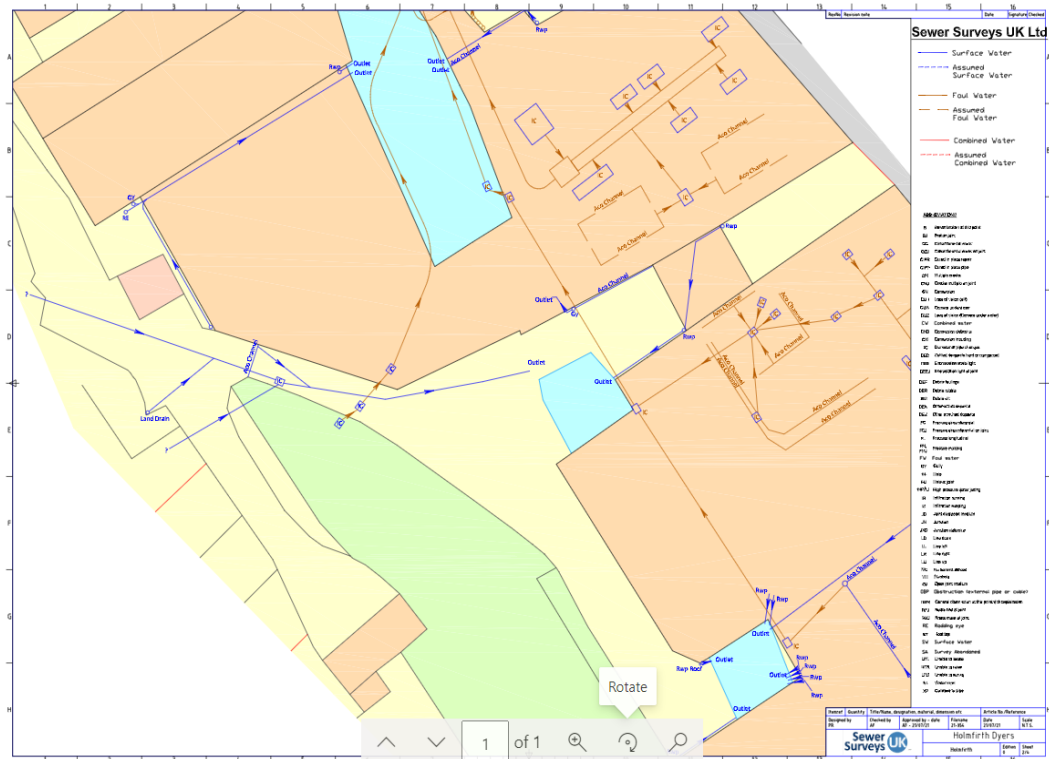
**Drainage plan**

EA ref: part B2, sections 5a

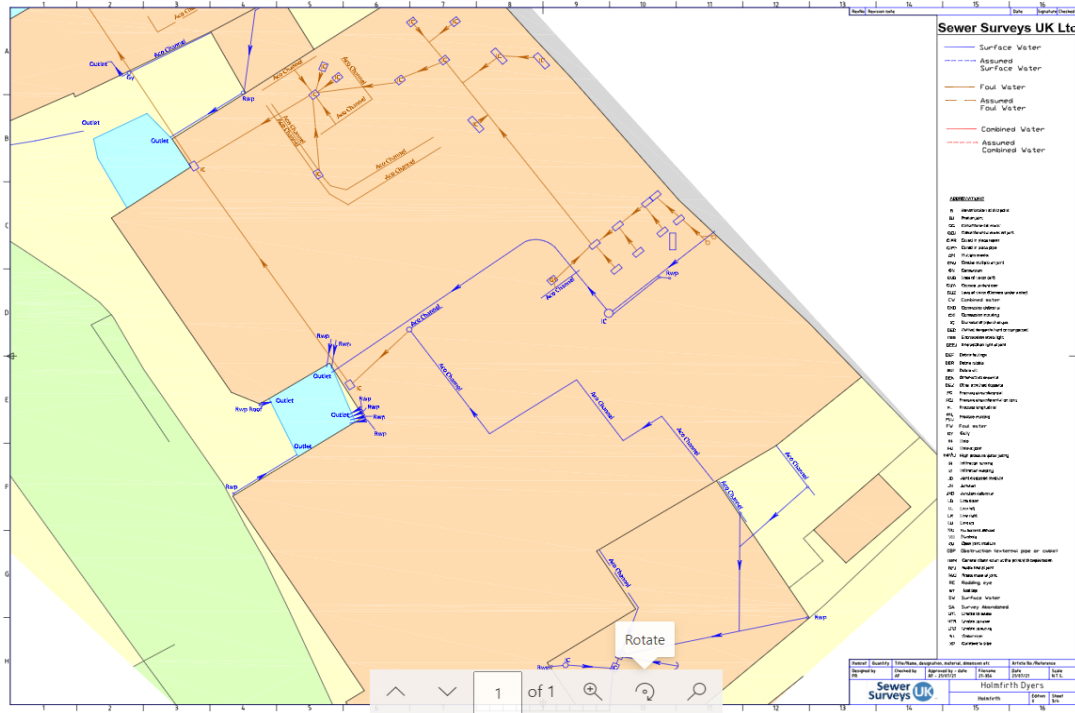
**Figure 4 - Drainage mapping 1**



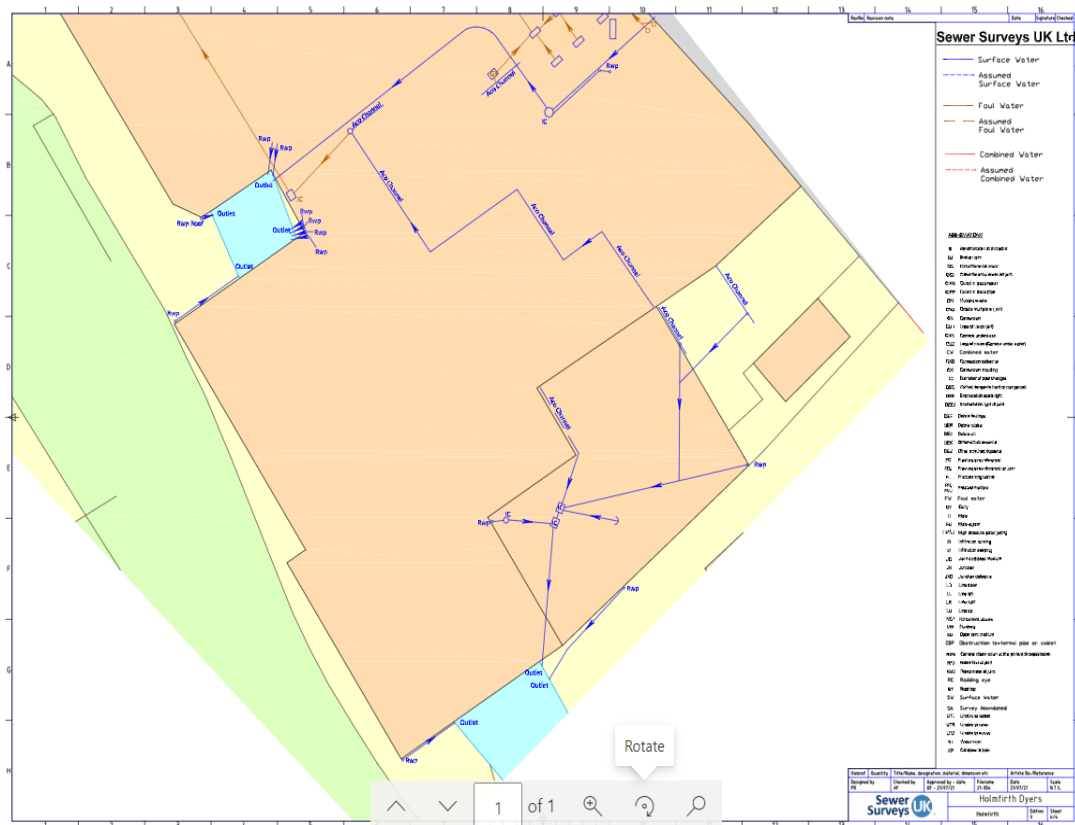
**Figure 5 - Drainage mapping 2**



**Figure 6 - Drainage mapping 3**



**Figure 7 - Drainage mapping 4**

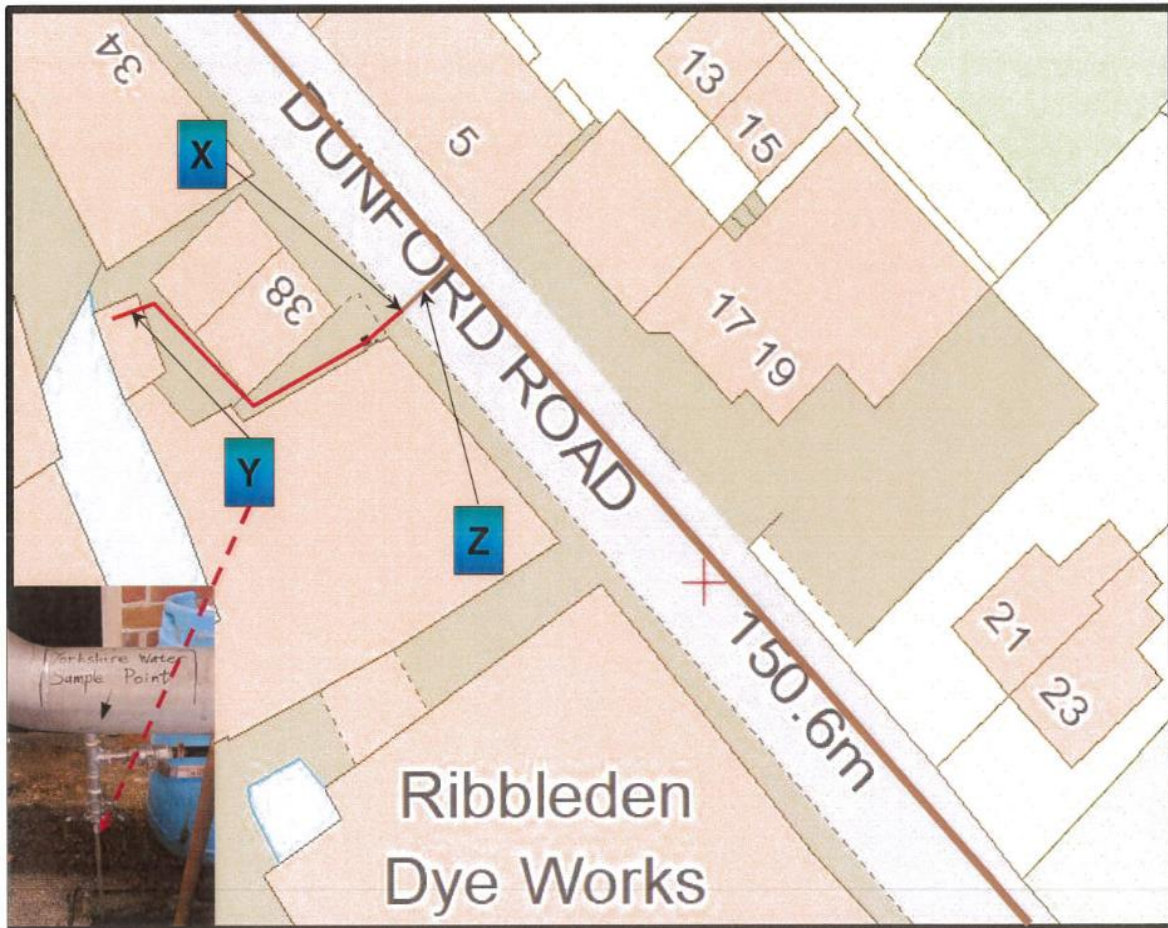




### Effluent plan

EA ref: part B2, sections 5a

Figure 8: Effluent discharge (Y: discharge point, X: sample point, Z: public sewer connection)



# Process descriptions

## Schedule 1 activities

EA ref: part B3, sections 1a, & part F, sections 1

Installation name	Reference	Activity description	Activity capacity
Coating Activities, Printing and Textile Treatments	Section 6.4, Part A(1)	Pre-treating (by operations such as washing, bleaching or mercerization) or dyeing fibres or textiles	>10 tonnes/day

## Directly Associated Activities

Name of DAA	Description of the DAA	Schedule 1 Activity for which the DAA Serves
Storage and handling of raw materials	Storage and handling of textile raw materials, dye and finishing (process) chemicals, product packaging, cleaning chemicals, ETP treatment chemicals and fuel.	6.4 Part A(1)(b)
Cooling and refrigeration	Ammonia and F-Gas storage providing cooling and refrigeration of process activity areas	6.4 Part A(1)(b)
Handling and storage of waste materials	Handling and storage of waste materials arising from product manufacturing and ETP treatment	6.4 Part A(1)(b)
Operation of gas-fired boilers	Operation of two gas-fired boilers providing steam and heating to the process activities	6.4 Part A(1)(b)
Storage of finished product	Storage of finished product within the site warehouse	6.4 Part A(1)(b)
Treatment of trade effluent	Treatment of effluent via caustic soda within an on-site effluent treatment plant prior to discharge through sewer	6.4 Part A(1)(b)

## Site capacity

Machine	Capacity (m)	Capacity (kgs)
Jet 1	6311	3240
Jet 2	4208	2160
Jet 3	2104	1080
Jet 4	4208	2160
Jet 5	3154	1619
Jet 6	4208	2160
Jet 7	3154	1619
Jet 16	2104	1080
Jet 17	2104	1080
Jet 18	510	262
<b>All Jets</b>	<b>32,064</b>	<b>16,458</b>

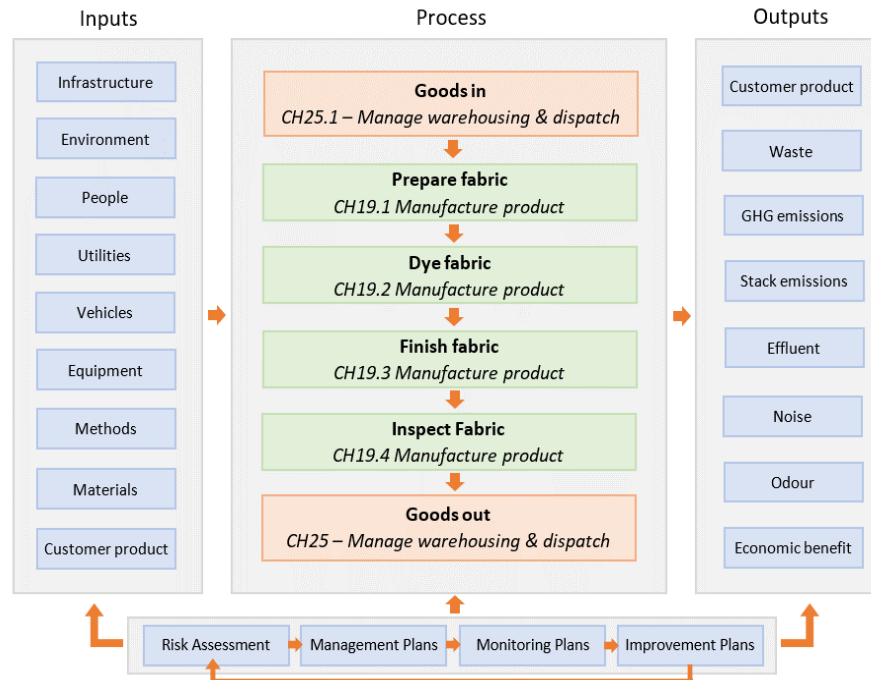
Machine	Capacity (m)	Capacity (kgs)
Winch 9	832	427
Winch 10	416	214
Winch 11	416	214
Winch 12	832	427
Winch 13	1040	534
Winch 14	1040	534
Winch 15	1664	854
<b>All Winch</b>	<b>6,240</b>	<b>3,203</b>

	Kgs	Tonnes
<b>All Vessels</b>	<b>19,661</b>	<b>19.66</b>

## Site activities

EA ref: part B2, sections 5a

The primary production process undertaken by Holmfirth Dyers Limited involves various methods, subject to the textile involved and the required output, however, it can be broken down into the following core processes:



The core processes listed above are available as integrated flowcharts. Where required, the integrated flowcharts are supported by more detailed standard operating procedures, work instructions and other administrative controls.

[System Map - Holmfirth.pdf](#)

[HFD - CH19 Manufacture Product SIPOC](#)

## Non-technical summary

EA ref: part B2, sections 5c, & part B2.5, sections 5a

### CH25 - Manage warehousing & despatch - (goods in and goods out)

Inputs	Outputs
Vehicles: 7.5ton HGV, and FLT's	Product: pre-production stock
Utilities: diesel, electric	Product: post-production stock
Infrastructure: loading bay, walkway & curb	GHG emissions: mobile combustion, electricity
Environment: mild-moderate weather, light	Abnormal situation: noise
Employees: drivers & operatives	Emergency situation: fuel spillage
Product: fabric in stillages	

The goods in and goods out process operates Monday to Friday, between the hours of 6am and 6pm. One 7.5 ton HGV is used to collect and deliver customer property from and to Camira Fabrics facility, travelling 3.8 miles to and from the Holmfirth Dyers facility. Up to six round trips are completed daily. The reported 2021 greenhouse gas emissions attributed to combustion of diesel fuel in road vehicles equated to 93.56 tCO<sub>2</sub>e.

Customer property is transported in steel-framed stillages. Fork-lift trucks are used to load and unload the stillages from the HGV, crossing from the Holmfirth Dyers loading bay across the pedestrian walkway to the curb side of Dunford Road. On the opposite side of Dunford Road, the front aspect of two residential properties are located directly facing the Holmfirth Dyers loading bay.

Dunford Road (B6106) is classed as an urban road. Utilising the Department for Transport Statistics, it is reasonable to estimate that up to approximately 2,500 vehicles travel past Holmfirth Dyers daily.

A noise assessment carried out in March 2022 determined the following impacts to receptors locations indicated in figure 5 under 'Site Plans':

Reference	Location	Daytime Impact	Night-time Impact
R1 - Residential	Southwest	Significant adverse	Adverse
R2 - Residential	West (Royd Mount)	Adverse	Adverse
R3 - Residential	Southeast (72 Dunford Rd)	Unlikely adverse	Low
R4 - Residential	East (22/23 Dunford Rd)	Significant adverse	Adverse
R5 - Residential	Northeast (20 South Lane)	Adverse	Adverse

### CH19 - Manufacture product - (preparation - unroll, cut, tumble)

Inputs	Outputs
Vehicles: FLT's	Product: mid-production stock
Utilities: gas, electric	Waste: fabric, pallets, card cores, polythene
Infrastructure: storage	GHG emissions: stationary combustion, electricity
Environment: stable temperature, humidity, light	Point source emissions: effluent, emissions to air
Employees: operatives	Abnormal situations: odour, noise
Equipment: perch, blades, tumbler	Emergency situations: fire
Method: product specification	
Product: pre-production stock	

Customer product is provided rolled over a cardboard core, and requires unrolling into a cart as the first step into the production environment. Cardboard cores cannot be reused and are therefore disposed of and recycled. Other waste streams may be present at this stage depending on how the product was packaged by the customer, therefore it may be required to also dispose of wooden pallets and polythene.

Woven lengths of fabric require breaking down into workable lengths, therefore Holmfirth Dyers cut the piece sizes to a suitable lengths for the processing required.

To help relax the fabric and improve dimensional stability in later processes, it is tumbled. Tumbling is a gas supplied, dry, heated process, with no point source emission.

### CH19 - Manufacture product - (dry cleaning, heat setting, winch dyeing, jet dyeing)

Inputs	Outputs
Vehicles: FLT's	Product: mid-production stock
Utilities: gas, electric, water	Waste: fabric, pallets, card cores, flock
Buildings: storage	Hazardous waste: substance containers
Environment: stable temperature, humidity, light	GHG emissions: stationary combustion, electricity
Employees: operatives	Point source emissions: effluent, stack
Equipment: dry cleaner, dye vessel, tenter, boilers	Abnormal situations: odour, noise

Substances: chemicals, dyes

Emergency situations: spillage, fire

Method: product specification, COSHH

Product: mid-production stock

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. After being transported through solvent, the fabric passes through a chamber where steam is injected, rapidly evaporating solvent soaked into the fabric, and removing impurities along with it. When the steam and vapor condense, the water and solvent are once again separated, allowing for some re-use of the solvents. This method therefore reduces water pollution as well as energy cost and consumption, in comparison to other scouring methods. Any oils removed during this process are collected in an IBC for disposal as waste oil.

Heat setting aims to impart shape retention, crease resistance and elasticity to the fabric fibres, and can be used for drying and heat setting. Heat setting aims to set the materials at their required weight and width, making the fabrics stable prior to further hot processes. Heat setting is achieved by the use of two tenter ('stenter') frames. These machines run continuously, applying heat uniformly across the inputted fabric while maintaining the desired product width. The process involves subjecting the fabrics to dry hot air for a few minutes, which is then followed by cooling. Holmfirth Dyers considers the initial heat setting as a critical process, as it must be done prior to the wet-processes involved in dyeing, to avoid issues such as discolouration. Holmfirth Dyers may in some circumstances also utilise a tenter frame before dry cleaning to pre-set fabric. The tenter frames on site provide the output stack emissions via the two air point sources identified within Figure 1 (Site Plans - scope & boundaries).

Winch dyeing is utilised as well as jet-dyeing by Holmfirth Dyers depending on fabric and output product to be processed. The two winch dyeing machines on site are utilised for lighter-weight textiles, using a process where dyeing liquor remains stationary while the textiles are transported through the machine via the winch.

Jet dyeing is a modern dyeing process primarily used for synthetic fabrics, where both the fabric and dye liquor are in motion, enabling a dyeing process which is quicker and more uniform than other methods. Fabric is moved by the force of water at different speeds around a tube, while a jet of dye liquor is also pumped out from an annular ring. The high force and pressure of the dye liquor passing through the tube pulls the fabric with it, which moves slowly in folds around the machine before passing through the jet once more. The process is economical as it uses a lower ration of dyeing liquor, while also using a lower consumption of water, providing further energy savings, and faster heating/cooling of fabric. Ten jet-dyeing units with measurable viewing glass are utilised on site, installed in 2018.

Dye liquor concentration is controlled using a check weigh system which provides automatic dosing of powder

### CH19 - Manufacture product - (finishing - chemical application, crop, press, steam)

Inputs	Outputs
Vehicles: FLT's	Product: mid-production stock
Utilities: gas, electric, water	Waste: fabric, pallets, card cores, flock
Buildings: storage	Hazardous waste: substance containers
Environment: stable temperature, humidity, light	GHG emissions: stationary combustion, electricity
Employees: operatives	Point source emissions: effluent, stack
Equipment: sperotto, KD, steam box, cropper, dye vessel, winch, de-twister	Abnormal situations: odour, noise
	Emergency situations: spillage, fire
Substances: chemicals	
Method: product specification, COSHH	

Product: mid-production stock

Holmfirth Dyers Limited provide a variety of chemical finishes that aim to imbue fabric with technical performance or physical attributes, such as flame retardancy, anti-microbial, or stain repellent properties. Chemical finishing being a wet process requires both use of water and production of effluent, followed by drying processes requiring the use of the tenters resulting in point source emissions to air. Fabrics are finished either through coating or exhaust methods, depending on the natural or synthetic fibre content.

To attain uniform surface fibre length, fabrics are cropped. This process generates short fibre length flock that is collected in bags and disposed of as general waste.

The 'Sperotto' and 'KD' are the two machines employed with the aim of further improving dimensional stability. While the KD performs decatizing, operating under tension, rolling over a perforated barrel, the Sperotto performs sanforizing and decatizing processes without tension over a conveyor belt. Both methods use steam to achieve the intended outcome of preventing fabrics from suffering shrinkage. The process creates a fugitive emission of steam, with the machine aiming to condense and collect the majority to avoid drips onto the fabric.

### CH19 - Manufacture product - (inspect)

Inputs	Outputs
Vehicles: FLT's	Product: fabric in stillages
Utilities: electric	Waste: fabric, pallets, card cores
Buildings: storage	GHG emissions: electricity
Environment: stable temperature, humidity, light	
Employees: operatives	
Equipment: perch	
Method: product specification	
Product: post-production stock	

Fabrics are inspected on site, checking for colour match and other physical flaws. Where non-conforming product is identified, this is reworked by reprocessing through earlier stages and then reinspected. Fabrics that pass inspection are packaged up either in a polythene wrap or stacked into a customer stillage and processed back through CH25 - Manage warehousing and despatch (goods in and goods out) process for delivery back to the customer.

# Input - Equipment & Vehicles

## Asset register

EA ref: part B2, sections 5c

Asset Number	Asset Name	Manufacturer	Facility Location	Unique Identifier	Serial Number	Plant Type	Year of Install	Current Age	Replacement Cost
126	Hot Water Recovery Tank	Brade Engineering	Dye House (Bottom)	BDH-HWT02	-	Services	1997	25	£10,000
16	Jet 1	MCS Dynamica Sprint		BDH/JET01	7440	Machinery	2018	4	£249,923
17	Jet 2	MCS Dynamica Sprint		BDH/JET02	7439	Machinery	2018	4	£249,923
18	Jet 3	MCS Dynamica Sprint		BDH/JET03	7434	Machinery	2018	4	£249,923
19	Jet 4	MCS Dynamica Sprint		BDH/JET04	7438	Machinery	2018	4	£249,923
20	Jet 5	MCS Dynamica Sprint		BDH/JET05	7436	Machinery	2018	4	£249,923
21	Jet 6	MCS Dynamica Sprint		BDH/JET06	7437	Machinery	2018	4	£249,923
22	Jet 7	MCS Dynamica Sprint		BDH/JET07	7435	Machinery	2018	4	£249,923
127	Skip Compactor	Caledonian Waste		BMV/SCR01	-	Services	1999	23	£8,000
1	Steam Boiler No. 1	Cochran	Boiler House	89A/BOH/BLR01	35/3118	Services	2002	20	£141,064
2	Steam Boiler No. 2	Cochran	Boiler House	89A/BOH/BLR02	35/3117	Services	2002	20	£141,064
5	Cold Well Tank	Holmes Heaton	Boiler House	89A/BOH/CWT01	-	Services	2002	20	£3,000
4	Hot Well Tank	Holmes Heaton	Boiler House	89A/BOH/HWT01	-	Services	2002	20	£8,000
3	Water Softener System	Pentair	Boiler House	89A/BOH/WSP01	H008482	Services	2002	20	£15,000
15	Dispensing System	Ozark Systems		89A/CDP/CDU01	-	Machinery	2018	4	£90,700
6	Chimney	-	Buildings	89A/CHY/CMY01	-	Buildings	1836	186	

47	Compressor 1	Atlas Copco		89A/CPS/CPR01	GA30VSD+FF	Machinery	2013	9	
48	Compressor 2	Atlas Copco		89A/CPS/SPR02	GA15+FF	Machinery	2013	9	
27	Colour Room Cooling System	Del Sol		89A/CWG/ACS01	-	Machinery	2018	4	£3,000
26	Colour Weighing Booth	Extract Technologies		89A/CWG/CWB01	9648	Machinery	2018	4	£33,136
136	Borehole Flow Meter	Kent-Taylor		89A/DMS/BFM01	V/22794/1/1	Services	2000	22	£1,592
135	River Flow Meter	Kent-Taylor		89A/DMS/RFM01	V/22795/1/1	Services	2000	22	£1,592
140	Effluent Datalogging and Totaliser	AWE Ltd		89A/EFF/EDL01	-	Services	2003	19	£4,500
139	Effluent Flow Meter	Emerson Rosemount		89A/EFF/EFM01	M0860155217	Services	2003	19	£2,500
54	Cropper 1	Sellers		89A/FNG/CPR01	35780	Machinery	2011	11	£105,000
55	72" Cropper 2	James Bailey		89A/FNG/CPR02	-	Machinery	2011	11	£15,250
52	Decofast 1	Sperotto Rimar		89A/FNG/DCF01	3817	Machinery	2003	19	£163,651
53	Decofast 2	Sperotto Rimar		89A/FNG/DCF02	4208	Machinery	2006	16	£188,305
49	Kier Decatising Machine	TMT		89A/FNG/KDR01	382/00.07	Machinery	2000	22	£215,887
50	Perch 1 Inspection	James Bailey		89A/FNG/PCH01	75424	Machinery	1995	27	£9,500
51	Perch 2 Inspection	James Bailey		89A/FNG/PCH02	-	Machinery	1990	32	£9,500
60	Rolling Table (Mobile)	Corino		89A/FNG/RTL01	53C/10	Machinery	2010	12	£114,545
61	Rolling Table (Fixed + Steam)	Corino		89A/FNG/RTL02	61/92	Machinery	1992	30	£25,000
58	Weft Straightener (Sperotto 1)	Mahlo FMC-10A		89A/FNG/WSR03	25/684/30276	Machinery	2001	21	£31,495
59	Weft Straightener (Sperotto 2)	Mahlo RVMC-12		89A/FNG/WSR04	01-02-20/000868	Machinery	2006	16	£46,425
8	Bagging Machine	Nesi & Pugi	Grey Room	89A/GRM/BGR01	55993061	Machinery	1999	23	£40,000
9	Grey Room Cutting Table (Near Tumbler)	ATF Automations	Grey Room	89A/GRM/CTT01	106.468	Machinery	2007	15	£25,000



10	Grey Room Cutting Table (Near Engineering Office)	ATF Automations	Grey Room	89A/GRM/CTT02	106.467	Machinery	2007	15	£25,000
11	Solvent Nova Dry Cleaner	Sperotto Rimar	Grey Room	89A/GRM/DCR01	3555	Machinery	1999	23	£750,000
14	De-twister (Bottom)	Corino Macchine	Bottom Dye House	89A/GRM/DTW01	53A/10	Machinery	2010	12	£40,909
13	Singeing Extraction Unit	-	Grey Room	89A/GRM/SEU01	1928/00192	Machinery	1999	23	£8,500
12	Singeing Machine	-	Grey Room	89A/GRM/SGR01	-	Machinery	1980	42	£60,500
7	Tumble Dryer Airo24	Biancalani	Grey Room	89A/GRM/TMB01	W080047	Machinery	2014	8	£182,453
65	Banding Machine 1	ATS		89A/INS/BDR01		Machinery	2017	5	£15,000
66	Banding Machine 2	ATS		89A/INS/BDR02		Machinery	2017	5	£15,000
67	Banding Machine 3	ATS		89A/INS/BDR03		Machinery	2017	5	£15,000
62	Inspection Table 1	Maag		89A/INS/ITB01	63840-1	Machinery	2017	5	£132,675
63	Inspection Table 2	Maag		89A/INS/ITB02	63840-2	Machinery	2017	5	£132,675
64	Inspection Table 3	Maag		89A/INS/ITB03	63840-3	Machinery	2017	5	£132,675
36	Dolly Scourer	-		89A/MAS/DLY01	-	Machinery	2006	16	£20,087
43	De-twister (Top)	Corino Macchine		89A/MAS/DTW02	53B/10	Machinery	2010	12	£40,909
37	Turbomat 4 Seasons	MAT (TMT)		89A/MAS/MAT01	979	Machinery	1997	25	£200,000
38	Turbomat 4 Seasons	MAT (TMT)		89A/MAS/MAT02	NF-1128T	Machinery	2015	7	£199,375
39	Turbomat 4 Seasons	MAT (TMT)		89A/MAS/MAT03	1168	Machinery	2008	14	£182,446
42	Multivac 3 Pass	Holmes Heaton		89A/MAS/MTV01	-	Machinery	2010	12	£230,000
40	SuperVelox 1	TMT CIMI		89A/MAS/SVX01	1016	Machinery	1998	24	£244,846
41	Supervelox 2	TMT CIMI		89A/MAS/SVX02	NF-1130S	Machinery	2014	8	£244,846
23	Jet 16	MCS Dynamica Sprint		89A/MDH/JET16	6747	Machinery	2013	9	£229,822

24	Jet 17	MCS Dynamica Sprint		89A/MDH/JET17	6748	Machinery	2013	9	£229,822
25	Jet 18	MCS Dynamica Sprint		89A/MDH/JET18	6746	Machinery	2013	9	£229,822
29	Winch 9	Holmes Heaton		89A/MDH/WNH09	9827	Machinery	2016	6	£61,209
30	Winch 10	Holmes Heaton		89A/MDH/WNH10	9827	Machinery	2016	6	£61,209
31	Winch 11	Holmes Heaton		89A/MDH/WNH11	9827	Machinery	2016	6	£61,209
32	Winch 12	Holmes Heaton		89A/MDH/WNH12	9827	Machinery	2016	6	£61,209
33	Winch 13	Holmes Heaton		89A/MDH/WNH13	9827	Machinery	2016	6	£61,209
34	Winch 14	Holmes Heaton		89A/MDH/WNH14	9827	Machinery	2016	6	£61,209
35	Winch 15	Holmes Heaton		89A/MDH/WNH15	9827	Machinery	2016	6	£61,209
132	Holmfirth 1000KVA Powerstar Unit	HV Powerstar		89A/TPY/TRF01	HPVS1000-2132	Services	2013	9	£84,571
133	Abatement System	Operational UK Ltd		89A/TTS/ABT01	-	Services	2016	6	£428,431
125	Hot Water Feed Plant	Brade Engineering	Torpedo Room	89A/TTS/HWT01	BRA/A3/046/A	Services	1997	25	£15,000
45	Bruckner Tenter	Bruckner		89A/TTS/TNT01	45384	Machinery	2018	4	£694,043
46	Unitech Tenter	Unitech		89A/TTS/TNT02	A316-0765-C2016154	Machinery	2016	6	£515,792
56	Weft Straightener (Bruckner)	Mahlo XRVMC-12		89A/TTS/WSR01	01-08-10/003118	Machinery	2010	12	£67,727
57	Weft Straightener (Unitech)	Mahlo XRVMC-12		89A/TTS/WSR02	-	Machinery	2010	12	£59,720
44	Wuzzer	CT Systems (Elec Panel)		89A/TTS/WZR01	CT12107	Machinery	1980	42	£15,000
68	Inspection Machine and Cradle	-	Top Shed		-	Machinery	2002	20	£10,500
128	Blue High Speed Roller Door 1	Crucial Engineering				Buildings	2019	3	£7,283
129	Blue High Speed Roller Door 2	Crucial Engineering				Buildings	2019	3	£7,283
130	Diesel Tank	-	Garage		-	Services	2006	16	£2,875

131	Diesel Tank	-	Top Shed	-	Services	2000	22	£2,151
134	Barriers (2 middle yard, 2 bottom yard)	CIS Barriers		-	Services	2019	3	£12,995
137	Borehole Pump				Services	2002	20	£2,240
138	River Pump				Services	2002	20	£2,000
141	Mathis Labomat Sample Dyeing Machine	-		-	Machinery	2008	14	£10,813
142	Mathis Labomat Sample Dyeing Machine	-		-	Machinery	2008	14	£10,813
143	CCTV System	-		-	Services	2019	3	£8,517
144	Extractor Fan 1 in Bottom Dye House	-		-	Machinery	2019	3	£7,833
145	Extractor Fan 2 in Bottom Dye House	-		-	Machinery	2019	3	£7,833
146	Jungheinrich EZS 010 Tugger Truck	Jungheinrich		91611937	Vehicles	2017	5	£5,057
147	Jungheinrich EZS 010 Tugger Truck	Jungheinrich		91647061	Vehicles	2020	2	£5,057
148	Linde CombiLift CS 1000	Linde		50182	Vehicles	2020	2	£7,000
149	Fork Truck with Fork Attachment	Nissan		Y1D1700357	Vehicles	2011	11	£17,000
150	Ford Transit				Vehicles			£16,286
151	4x2 Rigid truck				Vehicles			£44,800
152	Mitsubishi				Vehicles			£22,242
153	Iveco				Vehicles		2022	£45,040
154	Colour Match Equipment				IT	2016	6	£36,641
155	Electrical Services				Services	1985	37	
156	Compressed Air				Services	1985	37	
157	Steam Distribution System				Services	2000	22	

158	Jet Washer Machine	Karcher		Services	2001	21	£1,500
159	Fibre Glass Carts			Machinery	2019	3	£14,875
160	10 Roller security shutters	Excel Doors	-	Buildings	2002	20	£7,890
161	Reception Sliding Door	Bolton Gates	-	Offices	2011	11	£847
162	Defibrillator			Services	2018	4	
163	LED Lighting			Services	2014	8	£33,254
164	Air Conditioning			Services	1999	23	£1,235
165	Air Conditioning			Services	2008	14	£1,880
166	Spare						
167	Spare						
168	Spare						
169	Spare						
170	Spare						
69	Sewing Machine - (Butt-Ender)	EMSEW	B1	Machinery	2015	7	£3,500
70	Sewing Machine - (Butt-Ender)	EMSEW	B2	Machinery	2015	7	£3,500
71	Sewing Machine - (Butt-Ender)	EMSEW	B3	Machinery	2015	7	£3,500
72	Sewing Machine - (Butt-Ender)	EMSEW	B4	Machinery	2015	7	£3,500
73	Sewing Machine - (Butt-Ender)	EMSEW	B5	Machinery	2015	7	£3,500
74	Sewing Machine - (Butt-Ender)	EMSEW	B6	Machinery	2015	7	£3,500
75	Sewing Machine - (Butt-Ender)	EMSEW	B7	Machinery	2015	7	£3,500
76	Sewing Machine - (Butt-Ender)	EMSEW	B8	Machinery	2015	7	£3,500

77	Sewing Machine - (Butt-End)	EMSEW	B9	Machinery	2015	7	£3,500
78	Sewing Machine - (Butt-End)	EMSEW	B10	Machinery	2015	7	£3,500
79	Sewing Machine - (Butt-End)	EMSEW	B11	Machinery	2015	7	£3,500
80	Sewing Machine - (Butt-End)	EMSEW	B12	Machinery	2015	7	£3,500
81	Sewing Machine - (Butt-End)	EMSEW	B13	Machinery	2015	7	£3,500
82	Sewing Machine - (Butt-End)	EMSEW	B14	Machinery	2015	7	£3,500
83	Sewing Machine - (Butt-End)	EMSEW	B15	Machinery	2015	7	£3,500
84	Sewing Machine - (Butt-End)	EMSEW	B16	Machinery	2015	7	£3,500
85	Sewing Machine - (Chain-Stitch)	EMSEW	C1	Machinery	2015	7	£3,500
86	Sewing Machine - (Chain-Stitch)	EMSEW	C2	Machinery	2015	7	£3,500
87	Sewing Machine - (Chain-Stitch)	EMSEW	C3	Machinery	2015	7	£3,500
88	Sewing Machine - (Chain-Stitch)	EMSEW	C4	Machinery	2015	7	£3,500
89	Sewing Machine - (Chain-Stitch)	EMSEW	C5	Machinery	2015	7	£3,500
90	Sewing Machine - (Chain-Stitch)	EMSEW	C6	Machinery	2015	7	£3,500
91	Sewing Machine - (Chain-Stitch)	EMSEW	C7	Machinery	2015	7	£3,500
92	Sewing Machine - (Chain-Stitch)	EMSEW	C8	Machinery	2015	7	£3,500
93	Sewing Machine - (Chain-Stitch)	EMSEW	C9	Machinery	2015	7	£3,500
94	Sewing Machine - (Chain-Stitch)	EMSEW	C10	Machinery	2015	7	£3,500
95	Sewing Machine - (Chain-Stitch)	EMSEW	C11	Machinery	2015	7	£3,500
96	Sewing Machine - (Chain-Stitch)	EMSEW	C12	Machinery	2015	7	£3,500
97	Sewing Machine - (Chain-Stitch)	EMSEW	C13	Machinery	2015	7	£3,500

98	Sewing Machine - (Chain-Stitch)	EMSEW	C14	Machinery	2015	7	£3,500
99	Sewing Machine - (Chain-Stitch)	EMSEW	C15	Machinery	2015	7	£3,500
100	Sewing Machine - (Chain-Stitch)	EMSEW	C16	Machinery	2015	7	£3,500
101	Sewing Machine - (Chain-Stitch)	EMSEW	C17	Machinery	2015	7	£3,500
102	Sewing Machine - (Chain-Stitch)	EMSEW	C18	Machinery	2015	7	£3,500
103	Sewing Machine - (Chain-Stitch)	EMSEW	C19	Machinery	2015	7	£3,500
104	Cloth A-Frames Green 1	Zollig	900	Services	2003	19	£800
105	Cloth A-Frames Green 2	Zollig	901	Services	2003	19	£800
106	Cloth A-Frames Green 3	Zollig	902	Services	2003	19	£800
107	Cloth A-Frames Green 4	Zollig	903	Services	2003	19	£800
108	Cloth A-Frames Green 5	Zollig	904	Services	2003	19	£800
109	Cloth A-Frames Green 6	Zollig	905	Services	2003	19	£800
110	Cloth A-Frames Green 7	Zollig	906	Services	2003	19	£800
111	Cloth A-Frames Green 8	Zollig	907	Services	2003	19	£800
112	Cloth A-Frames Green 9	Zollig	908	Services	2003	19	£800
113	Cloth A-Frames Green 10	Zollig	909	Services	2003	19	£800
114	Cloth A-Frames Green 11	Zollig	910	Services	2003	19	£800
115	Cart, New Plastic Tub & Frame	Bryant Plastics	001	Services	2003	19	£750
116	Cart, New Plastic Tub & Frame	Bryant Plastics	002	Services	2003	19	£750
117	Cart, New Plastic Tub & Frame	Bryant Plastics	003	Services	2003	19	£750
118	Cart, New Plastic Tub & Frame	Bryant Plastics	004	Services	2003	19	£750

119	Cart, New Plastic Tub & Frame	Bryant Plastics	005	Services	2003	19	£750
120	Cart, New Plastic Tub & Frame	Bryant Plastics	006	Services	2003	19	£750
121	Cart, New Plastic Tub & Frame	Bryant Plastics	007	Services	2003	19	£750
122	Cart, New Plastic Tub & Frame	Bryant Plastics	008	Services	2003	19	£750
123	Cart, New Plastic Tub & Frame	Bryant Plastics	009	Services	2003	19	£750
124	Cart, New Plastic Tub & Frame	Bryant Plastics	010	Services	2003	19	£750

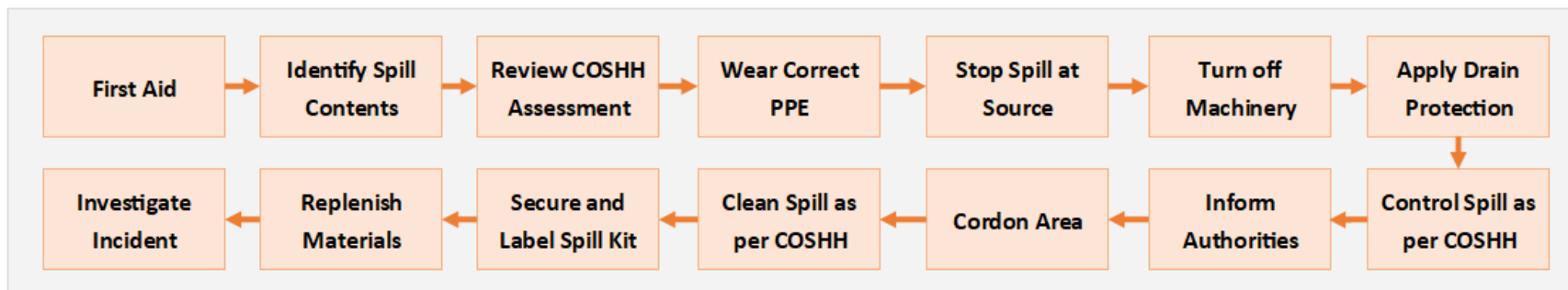
### Maintenance & Housekeeping

The site and processes use approximately 90 pieces of equipment that require planned preventive maintenance to ensure their good working order. Planned preventive maintenance is managed using specialist maintenance software. An export of the PPM schedule from July 2022 is available for review in the Part A permit management system.

The inhouse maintenance team is made up of three engineers who are responsible for conducting planned preventive and corrective maintenance activities. Where planned or corrective maintenance requires a specialist engineer, the team is responsible for identifying and managing contractors on site.

General housekeeping of office areas, canteens and welfare facilities is outsourced to a professional cleaning company. All chemicals used by the cleaning company are included in the HFD chemical inventory.

The site operates in accordance with the Group Incident Management Spill Procedure, which in linear form is:



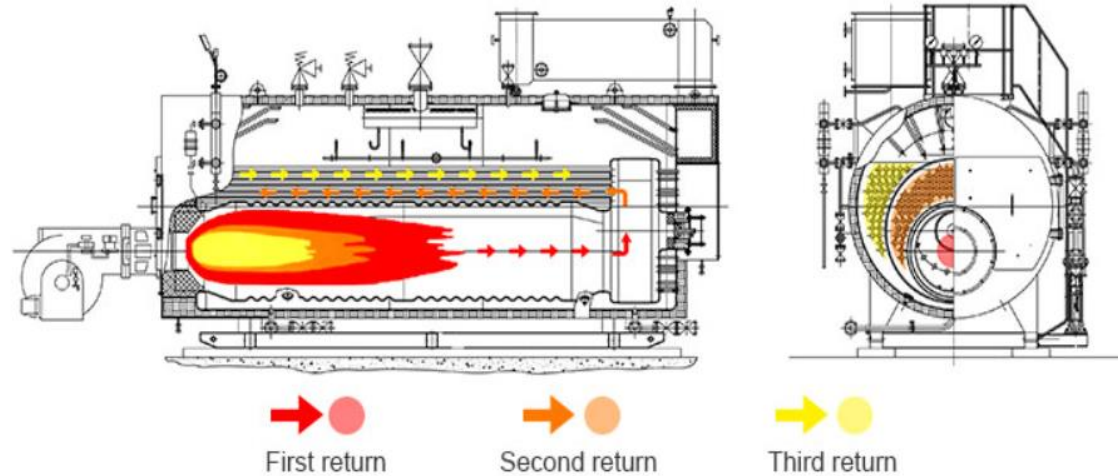
[HFD - Preventive Maintenance Schedule Export 250722.xlsx](#)

## Boilers

EA ref: part B2.5, sections 1b, & part B2.5, appendix 1

Holmfirth Dyers Limited uses steam or hot water for most of its operational processes.

Manufactured by Cochran Limited and installed in 2002, there are two Thermax 5.2MWth rated, three-pass wet,-back boilers (serial numbers 35/3117 & 35/3118). In accordance with the Medium Combustion Plant Directive (MCPD), Holmfirth Dyers aims to have in place an MCPD permit by 1st January 2024, and operate in compliance with that permit by 1st January 2025.



## Boiler Technical Data Schedule

### General Details

Boiler type:	Thermax Steam Three Pass Wet Back Boiler
Manufacturer:	Cochran Limited
Design & Construction:	BS 2790:1992
Quality:	ISO 9001
Country of Origin:	United Kingdom

### Boiler Details

Rating: kg/hr (100°C):	7260
Rating: lb/hr (212°C):	16005.4
Boiler Heat Output	4551.0
Net Thermal Heat Input (KW):	5220.0
Operating pressure (Bar.g):	10.34
Design Pressure (Bar.g):	11.00
Hydraulic Test Pressure (Bar.g):	16.50

### Performance Details - Natural Gas

Boiler Load	Fuel Consumption	Flue Gas Temperature
25%	130.9 m <sup>3</sup> /hr	215.0°C
50%	260.1 m <sup>3</sup> /hr	233.5°C
75%	390.1 m <sup>3</sup> /hr	249.9°C
100%	522.6 m <sup>3</sup> /hr	267.1°C



## Input - Materials

### Chemical register

EA ref: part B2, sections 5c, & part B3, section 3c

Chemicals are stored in the main chemical stores, dye store or by the machinery if in use or ready for use. An inventory of all chemicals on site is kept within the online COSHH management software; Sypol CMS, produced by Alcumus Group Limited. This inventory details the COSHH assessments and Safety Data Sheets (SDS) of all stored chemicals, as well as noting their recorded location on the site. The list below has been exported from this platform and is correct as of July 2022 to be reviewed and updated every 6 months.

Inventories of chemical stock on site are checked monthly in accordance with the Stock Management SOP. For further information on stock management, see Management Plans.

[Copy of Holmfirth Dyers Stock List - June 2022.xlsx](#)  
[Stock Management SOP .xism](#)

Sub Area	Material Code	Hazard Level	Tradename	Keyword	Supplier	Last Modified	Signal Word	Hazard Statements	Hazard Symbols	Constituent	Constituent Weight	CAS	EC Number
DYEING	303482	HIGH	ACETIC ACID 80%	Chemical (Acid)	WILKINSON & SCOTT LTD	20/05/2022	Danger	H226, H314	Flammable, Corrosive	Acetic acid	80%	64-19-7	200-580-7
DYEING	322588	LOW	ACID ALIZARINE BLACK R 150%	Dyestuff	DIXON CHEW (BATLEY) LTD	15/07/2019			Low Hazard				
DYEING	358423	LOW	ACID BLUE E-BGL NEW	Dyestuff	REGENCY FCB (UK) LTD	23/09/2021			Low Hazard	Not classified as hazardous in accordance with Directive EC/1272/2008			
DYEING	367763	HIGH	ACRYLENE BLUE 5G 300%	Dyestuff	TOWN END (LEEDS) PLC	20/05/2022	Danger	H331, H301, H318, H410, H400	Toxic, Corrosive, Environmental Hazard	3,7-bis(diethylamino)phenoxazin-5-ium nitrate	30 - 60%	73570-52-2	277-539-5
DYEING	367786	HIGH	ACRYLENE BLUE SL 200%	Dyestuff	TOWN END (LEEDS) PLC	20/05/2022	Danger	H301, H318, H332, H317, H373, H410, H400	Toxic, Corrosive, Health Hazard, Environmental Hazard	5-(diisopropylamino)-2-[[4-(dimethylamino)phenyl]azo]-3-methyl-1,3,4-thiadiazolium trichlorozincat	30 - 40%	93783-70-1	298-265-2
DYEING	367786	HIGH	ACRYLENE BLUE SL 200%	Dyestuff	TOWN END (LEEDS) PLC	20/05/2022	Danger	H301, H318, H332, H317, H373, H410, H400	Toxic, Corrosive, Health Hazard, Environmental Hazard	3,7-bis(diethylamino)phenoxazin-5-ium nitrate	5 - 10%	73570-52-2	277-539-5
DYEING	358620	MEDIUM	ACRYLENE FLAVINE 10GFF 300%	Dyestuff	TOWN END (LEEDS) PLC	28/09/2021	Warning	H302, H412	Harmful	2-[7-(diethylamino)-2-oxo-2H-1-benzopyran-3-yl]-1,3-dimethyl-1H-benzimidazolium chloride	100%	29556-33-0	249-694-9
DYEING	367765	HIGH	ACRYLENE RED GRL 200%	Dyestuff	TOWN END (LEEDS) PLC	20/05/2022	Danger	H318, H302, H412	Corrosive, Harmful	Alcohols, C16-18 and C18-unsatd., ethoxylated	0.25 - < 1%	68920-66-1	500-236-9
DYEING	367765	HIGH	ACRYLENE RED GRL 200%	Dyestuff	TOWN END (LEEDS) PLC	20/05/2022	Danger	H318, H302, H412	Corrosive, Harmful	3(or5)-[[4-[benzylmethylamino]phenyl]azo]-1,2(or1,4)-dimethyl-1H-1,2,4-triazolium bromide	50 - < 70%	89959-98-8	289-660-0
FINISHING	358811	MEDIUM	ALBAFLOW FFA-01	Chemical	HUNTSMAN TEXTILE EFFECTS GMBH	04/10/2021	Warning	H319, H315	Harmful	2-ethylhexan-1-ol	1 - 3%	104-76-7	203-234-3
FINISHING	358811	MEDIUM	ALBAFLOW FFA-01	Chemical	HUNTSMAN TEXTILE EFFECTS GMBH	04/10/2021	Warning	H319, H315	Harmful	Sodium bis(2-ethylhexyl) phosphate	13 - 30%	141-65-1	205-493-8
FINISHING	358663	MEDIUM	ALBAFLOW SF PLUS	Dyestuff	TOWN END (LEEDS) PLC	29/09/2021	Warning	H373, H411	Health Hazard, Environmental Hazard	1,2-benzisothiazol-3(2H)-one	0.0025 - < 0.025%	2634-33-5	220-120-9
FINISHING	358663	MEDIUM	ALBAFLOW SF PLUS	Dyestuff	TOWN END (LEEDS) PLC	29/09/2021	Warning	H373, H411	Health Hazard, Environmental Hazard	Bis(2-ethylhexyl) maleate	10 - < 20%	142-16-5	205-524-5
FINISHING	358505	MEDIUM	ALBEGAL A	Chemical	HUNTSMAN TEXTILE EFFECTS	27/10/2021	Warning	H319, H315, H412	Harmful	Quaternary ammonium compounds, C18-22-alkylbis(hydroxyethyl)methyl, ethoxylated, Me sulfates (salts)	20 - < 25%	68607-23-8	
FINISHING	358505	MEDIUM	ALBEGAL A	Chemical	HUNTSMAN TEXTILE EFFECTS	27/10/2021	Warning	H319, H315, H412	Harmful	Poly(oxy-1,2-ethanedijyl), .omega.-hydroxy-.omega.'-(sulfooxy)-	25 - < 30%	68917-86-2	682-229-1
DYEING	238864	HIGH	ALBEGAL B	Chemical	HUNTSMAN TEXTILE EFFECTS	19/07/2021	Danger	H318, H315, H411	Corrosive, Environmental Hazard				
DYEING	322609	MEDIUM	ALIZARINE BRILLIANT GREEN G 125%	Dyestuff	DIXON CHEW (BATLEY) LTD	30/09/2021	Warning	H319	Harmful	Lubricating Oils (petroleum), C15-30 hydrotreated neutral oil-based	1 - 5%	72623-86-0	276-737-9
DYEING	322609	MEDIUM	ALIZARINE BRILLIANT GREEN G 125%	Dyestuff	DIXON CHEW (BATLEY) LTD	30/09/2021	Warning	H319	Harmful	Acid Green 25	60 - 80%	4403-90-1	224-546-6
DYEING	322984	HIGH	AMMONIA 10 – 35% SOLUTION	Chemical	WILKINSON & SCOTT LTD	06/07/2022	Danger	H314, H335, H400	Corrosive, Harmful, Environmental Hazard	Ammonia, aqueous solution	10 - 35%	1336-21-6	215-647-6
DYEING	369845	LOW	AMMONIUM SULPHATE	Ammonium Sulphate	WILKINSON & SCOTT LTD	01/07/2022			Low Hazard	Ammonium sulphate		7783-20-2	231-984-1
DYEING	370363	HIGH	ASTRAZON RED FBL 200%	Dyestuff	DYSTAR COLOURS DISTRIBUTION GM	12/07/2022	Danger	H318, H302, H411	Corrosive, Harmful, Environmental Hazard	Reaction mass of bis[3-[[4-[benzylmethylamino]phenyl]azo]-1,4-dimethyl-1H-1,2,4-triazolium] tetra	70 - 80%		916-918-8
DYEING	322592	LOW	AVOPOL BLACK XPL	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	15/07/2019			Low Hazard	Full details of constituents not provided by supplier			
DYEING	322592	LOW	AVOPOL BLACK XPL	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	15/07/2019			Low Hazard				

DYEING	322610	LOW	AVOPOL BLUE X 3R	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	15/07/2019			Low Hazard	Full details of constituents not provided by supplier			
DYEING	322610	LOW	AVOPOL BLUE X 3R	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	15/07/2019			Low Hazard				
DYEING	322611	LOW	AVOPOL BLUE XB	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	15/07/2019			Low Hazard	Full details of constituents not provided by supplier			
DYEING	322611	LOW	AVOPOL BLUE XB	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	15/07/2019			Low Hazard				
DYEING	322612	LOW	AVOPOL BORDEAUX XFB	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	15/07/2019			Low Hazard	Full details of constituents not provided by supplier			
DYEING	322612	LOW	AVOPOL BORDEAUX XFB	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	15/07/2019			Low Hazard				
DYEING	358321	MEDIUM	AVOPOL BROWN XBRN	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	21/09/2021	Warning	H317, H411	Harmful, Environmental Hazard	Acid Yellow 059	< 7%	5601-29-6	227-022-5
DYEING	358321	MEDIUM	AVOPOL BROWN XBRN	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	21/09/2021	Warning	H317, H411	Harmful, Environmental Hazard	Acid Orange 142	> 85%	55809-98-8	259-830-9
DYEING	369809	MEDIUM	AVOPOL GREEN XB	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	01/07/2022	Warning	H319, H315	Harmful	Disodium 2,2'-(9,10-dioxoanthracene-1,4-diylidimino)bis(5-butylbenzenesulphonate)	> 25%	6408-57-7	229-061-3
DYEING	358320	MEDIUM	AVOPOL GREY X GLN	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	21/09/2021	Warning	H317	Harmful	Full details of constituents not provided by supplier			
DYEING	358320	MEDIUM	AVOPOL GREY X GLN	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	21/09/2021	Warning	H317	Harmful				
DYEING	322628	MEDIUM	AVOPOL NAVY XPL	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	15/07/2019	Warning	H319, H412	Harmful	Full details of constituents not provided by supplier			
DYEING	322628	MEDIUM	AVOPOL NAVY XPL	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	15/07/2019	Warning	H319, H412	Harmful				
DYEING	322624	LOW	AVOPOL ORANGE X MRT	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	15/07/2019		H412	Low Hazard	Acid Orange 142	< 20%	55809-98-8	259-830-9
DYEING	322648	MEDIUM	AVOPOL RED X3B	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	16/07/2019	Warning	H317	Harmful	1-amino-4-hydroxy-2-phenoxyanthraquinone	> 25%	17418-58-5	241-442-6
DYEING	322650	LOW	AVOPOL RED XBRT	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	16/07/2019			Low Hazard	Full details of constituents not provided by supplier			
DYEING	322650	LOW	AVOPOL RED XBRT	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	16/07/2019			Low Hazard				
DYEING	369843	LOW	AVOPOL SCARLET XR	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	01/07/2022			Low Hazard	Full details of constituents not provided by supplier			
DYEING	369843	LOW	AVOPOL SCARLET XR	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	01/07/2022			Low Hazard				
DYEING	322651	LOW	AVOPOL TURQUOISE XB	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	16/07/2019			Low Hazard	Full details of constituents not provided by supplier			
DYEING	322651	LOW	AVOPOL TURQUOISE XB	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	16/07/2019			Low Hazard				
DYEING	322659	LOW	AVOPOL VIOLET XRN	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	16/07/2019			Low Hazard	Acid Violet 48	< 10%	12220-51-8	602-080-8
DYEING	322660	LOW	AVOPOL YELLOW X3G	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	16/07/2019			Low Hazard	Full details of constituents not provided by supplier			
DYEING	322660	LOW	AVOPOL YELLOW X3G	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	16/07/2019			Low Hazard				
DYEING	322663	MEDIUM	AVOPOL YELLOW XPL 3R	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	16/07/2019	Warning	H319, H317	Harmful	Acid Yellow 059	< 14%	5601-29-6	227-022-5
DYEING	322663	MEDIUM	AVOPOL YELLOW XPL 3R	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	16/07/2019	Warning	H319, H317	Harmful	Acid Yellow 194	< 5%	61814-52-6	612-458-4
DYEING	322663	MEDIUM	AVOPOL YELLOW XPL 3R	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	16/07/2019	Warning	H319, H317	Harmful	Full details of constituents not provided by supplier			
CHEMICAL AREA	370389	HIGH	AVOSOL ALM 80%	Chemical	AVOCET DYE & CHEMICAL CO LTD	12/07/2022	Danger	H318, H302, H315, H317, H410, H400	Corrosive, Harmful, Environmental Hazard	Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one	0.08%	55965-84-9	911-418-6
CHEMICAL AREA	370389	HIGH	AVOSOL ALM 80%	Chemical	AVOCET DYE & CHEMICAL CO LTD	12/07/2022	Danger	H318, H302, H315, H317, H410, H400	Corrosive, Harmful, Environmental Hazard	2-(2-butoxyethoxy)ethanol	10%	112-34-5	203-961-6
CHEMICAL AREA	370389	HIGH	AVOSOL ALM 80%	Chemical	AVOCET DYE & CHEMICAL CO LTD	12/07/2022	Danger	H318, H302, H315, H317, H410, H400	Corrosive, Harmful, Environmental Hazard	Tallow alkyl amine ethoxylate	40 - 48%	61791-26-2	500-153-8
DYEING	369783	LOW	AVOSPERSER BLUE 3RL 150	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	30/06/2022			Low Hazard	Full details of constituents not provided by supplier			
DYEING	369783	LOW	AVOSPERSER BLUE 3RL 150	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	30/06/2022			Low Hazard				
DYEING	369842	LOW	AVOSPERSER TURQUOISE BLUE GAV 200	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	01/07/2022			Low Hazard	4,11-diamino-2-(3-methoxypropyl)-1H-naphth[2,3-f]isoindol-1,3,5,10(2H)-tetrone		12217-80-0	235-402-7
DYEING	369842	LOW	AVOSPERSER TURQUOISE BLUE GAV 200	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	01/07/2022			Low Hazard	Full details of constituents not provided by supplier			
DYEING	369842	LOW	AVOSPERSER TURQUOISE BLUE GAV 200	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	01/07/2022			Low Hazard				

DYEING	358588	HIGH	BASIC YELLOW GL 200%	Dyestuff	REGENCY FCB (UK) LTD	15/10/2021	Danger	H330, H301, H318, H312, H410, H400	Toxic, Corrosive, Environmental Hazard	2-[[[4-methoxyphenyl)methyl]hydrazono]methyl]-1,3,3-trimethyl-3H-indolium methyl sulphate	54060-92-3	258-946-7
DYEING	369928	HIGH	CAUSTIC SODA 25% SOLN	Chemical (Alkali)	WILKINSON & SCOTT LTD	05/07/2022	Danger	H314	Corrosive	Sodium hydroxide	25%	1310-73-2 215-185-5
FINISHING	358297	MEDIUM	CERABRITE LF-B	Additive	DIXON CHEW (BATLEY) LTD	20/09/2021	Warning	H302, H319, H315, H317, H351, H373sw, H400, H412	Health Hazard, Harmful, Environmental Hazard	Hydroxlammonium Sulphate	30 - 60%	10039-54-0 233-118-8
DYEING	358300	MEDIUM	CERACTIVE BLACK BFGR	Dyestuff	DIXON CHEW (BATLEY) LTD	20/09/2021	Danger	H334, H317	Health Hazard	Alcohols, C12-15, ethoxylated	< 1%	68131-39-5 500-195-7
DYEING	358300	MEDIUM	CERACTIVE BLACK BFGR	Dyestuff	DIXON CHEW (BATLEY) LTD	20/09/2021	Danger	H334, H317	Health Hazard	C.I. Reactive Black 5	60 - 100%	17095-24-8 241-164-5
DYEING	358723	LOW	CERACTIVE BRILLIANT BLUE R SPECIAL	Dyestuff	DIXON CHEW (BATLEY) LTD	30/09/2021			Low Hazard	Full details of constituents not provided by supplier		
DYEING	358723	LOW	CERACTIVE BRILLIANT BLUE R SPECIAL	Dyestuff	DIXON CHEW (BATLEY) LTD	30/09/2021			Low Hazard			
DYEING	358672	MEDIUM	CERACTIVE BRILLIANT ORANGE 3R 100%	Dyestuff	DIXON CHEW (BATLEY) LTD	29/09/2021	Danger	H334, H317	Health Hazard	Alcohols, C12-15, ethoxylated	0.1 - 1%	68131-39-5 500-195-7
DYEING	358672	MEDIUM	CERACTIVE BRILLIANT ORANGE 3R 100%	Dyestuff	DIXON CHEW (BATLEY) LTD	29/09/2021	Danger	H334, H317	Health Hazard	Lubricating Oils (petroleum), C15-30 hydrotreated neutral oil-based	0.1 - 1%	72623-86-0 276-737-9
DYEING	358672	MEDIUM	CERACTIVE BRILLIANT ORANGE 3R 100%	Dyestuff	DIXON CHEW (BATLEY) LTD	29/09/2021	Danger	H334, H317	Health Hazard	Reaction mass of disodium 6-acetamido-4-hydroxy-3-[[4-[[2-(sulphonatooxy)ethyl]sulfonyl]phenyl]dia...	60 - 80%	701-348-2
DYEING	358673	MEDIUM	CERACTIVE BRILLIANT YELLOW 4GL	Dyestuff	DIXON CHEW (BATLEY) LTD	29/09/2021	Warning	H317	Harmful	4-[[2-[[2,5-dimethoxy-4-[[2-(sulphooxy)ethyl]sulphonyl]phenyl]azo]-1,3-dioxobutyl]amino]-5-methoxy...	80 - 100%	94158-87-9 303-161-8
DYEING	358301	LOW	CERACTIVE RED RB 100%	Dyestuff	DIXON CHEW (BATLEY) LTD	20/09/2021			Low Hazard	Full details of constituents not provided by supplier		
DYEING	358301	LOW	CERACTIVE RED RB 100%	Dyestuff	DIXON CHEW (BATLEY) LTD	20/09/2021			Low Hazard			
DYEING	358666	LOW	CERACTIVE TURQUOISE BLUE G 133%	Dyestuff	DIXON CHEW (BATLEY) LTD	29/09/2021			Low Hazard	Full details of constituents not provided by supplier		
DYEING	358666	LOW	CERACTIVE TURQUOISE BLUE G 133%	Dyestuff	DIXON CHEW (BATLEY) LTD	29/09/2021			Low Hazard			
DYEING	322763	LOW	CERACTIVE YELLOW GR 133%	Dyestuff	DIXON CHEW (BATLEY) LTD	17/07/2019			Low Hazard	C.I. Reactive Yellow 15	60 - 100%	12226-47-0 602-427-3
DYEING	358724	MEDIUM	CERALAN FAST BLACK MR 200%	Dyestuff	DIXON CHEW (BATLEY) LTD	30/09/2021	Warning	H319, H317, H411	Harmful, Environmental Hazard	Trisodium bis[3-hydroxy-4-[[2-(hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(3	60 - 100%	57693-14-8 260-906-9
DYEING	358283	LOW	CERALAN FAST BLUE PRL 200%	Dyestuff	DIXON CHEW (BATLEY) LTD	20/09/2021			Low Hazard	Full details of constituents not provided by supplier		
DYEING	358283	LOW	CERALAN FAST BLUE PRL 200%	Dyestuff	DIXON CHEW (BATLEY) LTD	20/09/2021			Low Hazard			
DYEING	367439	LOW	CERALAN FAST RED PL	Dyestuff	DIXON CHEW (BATLEY) LTD	13/05/2022			Low Hazard	Full details of constituents not provided by supplier		
DYEING	367439	LOW	CERALAN FAST RED PL	Dyestuff	DIXON CHEW (BATLEY) LTD	13/05/2022			Low Hazard			
DYEING	358801	MEDIUM	CERALAN YELLOW PL	Dyestuff	DIXON CHEW (BATLEY) LTD	01/10/2021	Warning	H319	Harmful	Sodium 2,5-dichloro-4-[[4-[[2-((ethylphenylamino)sulphonyl]phenyl)azo]-4,5-dihydro-3-methyl-5-oxo-...	80 - 100%	12217-38-8 235-397-1
DYEING	358785	LOW	CERASPERSE BLUE BL 150%	Dyestuff	DIXON CHEW (BATLEY) LTD	01/10/2021			Low Hazard	Full details of constituents not provided by supplier		
DYEING	358785	LOW	CERASPERSE BLUE BL 150%	Dyestuff	DIXON CHEW (BATLEY) LTD	01/10/2021			Low Hazard			
FINISHING	358291	HIGH	CERATEX RAL	Additive	DIXON CHEW (BATLEY) LTD	01/10/2021	Danger	H318, H302, H315	Corrosive, Harmful	Sodium isodecyl sulphate	30 - 60%	68299-17-2 269-598-0
DYEING	358735	LOW	CERAVON BRILLIANT RED B 125%	Dyestuff	DIXON CHEW (BATLEY) LTD	30/09/2021			Low Hazard	Full details of constituents not provided by supplier		
DYEING	358735	LOW	CERAVON BRILLIANT RED B 125%	Dyestuff	DIXON CHEW (BATLEY) LTD	30/09/2021			Low Hazard			
DYEING	358770	LOW	CERAVON FAST BLUE A 200%	Dyestuff	DIXON CHEW (BATLEY) LTD	30/09/2021			Low Hazard	Full details of constituents not provided by supplier		
DYEING	358770	LOW	CERAVON FAST BLUE A 200%	Dyestuff	DIXON CHEW (BATLEY) LTD	30/09/2021			Low Hazard			
DYEING	322755	LOW	CERAVON FAST ORANGE G	Dyestuff	DIXON CHEW (BATLEY) LTD	17/07/2019			Low Hazard	Full details of constituents not provided by supplier		
DYEING	322755	LOW	CERAVON FAST ORANGE G	Dyestuff	DIXON CHEW (BATLEY) LTD	17/07/2019			Low Hazard			
DYEING	358344	LOW	CERAVON FAST ORANGE II 125%	Dyestuff	DIXON CHEW (BATLEY) LTD	21/09/2021			Low Hazard	Orange II sodium salt	60 - 100%	633-96-5 211-199-0
DYEING	322753	LOW	CERAVON FAST RED 3GP 200%	Dyestuff	DIXON CHEW (BATLEY) LTD	17/07/2019			Low Hazard	6-amino-5-[[2-((ethylphenylamino)sulphonyl]phenyl)azo]-4-hydroxynaphthalene-2-sulphonic acid	60 - < 100%	12217-34-4 235-396-6
DYEING	358726	LOW	CERAVON FAST YELLOW 2G	Dyestuff	DIXON CHEW (BATLEY) LTD	30/09/2021			Low Hazard	Alcohols, C12-15, ethoxylated	0.1 - 1%	68131-39-5 500-195-7
DYEING	358726	LOW	CERAVON FAST YELLOW 2G	Dyestuff	DIXON CHEW (BATLEY) LTD	30/09/2021			Low Hazard	Lubricating Oils (petroleum), C15-30 hydrotreated neutral oil-based	0.1 - 1%	72623-86-0 276-737-9

DYEING	358726	LOW	CERAVON FAST YELLOW 2G	Dyestuff	DIXON CHEW (BATLEY) LTD	30/09/2021			Low Hazard	Acid Yellow 17	60 - 80%	6359-98-4	228-819-0
DYEING	367487	LOW	CERAVON GREEN V 200%	Dyestuff	DIXON CHEW (BATLEY) LTD	16/05/2022			Low Hazard	Full details of constituents not provided by supplier			
DYEING	367487	LOW	CERAVON GREEN V 200%	Dyestuff	DIXON CHEW (BATLEY) LTD	16/05/2022			Low Hazard				
DYEING	322737	LOW	CERAVON MILLING BRILLIANT RED 10B	Dyestuff	DIXON CHEW (BATLEY) LTD	17/07/2019			Low Hazard	C.I. Acid Violet 54	60 - 100%	11097-74-8	601-022-9
DYEING	367375	LOW	CERAVON MILLING GREEN G 125%	Dyestuff	DIXON CHEW (BATLEY) LTD	11/05/2022			Low Hazard	Full details of constituents not provided by supplier			
DYEING	367375	LOW	CERAVON MILLING GREEN G 125%	Dyestuff	DIXON CHEW (BATLEY) LTD	11/05/2022			Low Hazard				
DYEING	367462	MEDIUM	CERAVON MILLING SCARLET GS 200%	Dyestuff	DIXON CHEW (BATLEY) LTD	13/05/2022	Warning	H319, H412	Harmful	Reaction mass of tetrasodium 8,8'-(1E,1'E)-(4,4'-(cyclohexane-1,1-diy))bis(4,1-phenylene)bis(dia...	60 - 80%		942-692-5
DYEING	358364	MEDIUM	CERAVON MILLING YELLOW R 300%	Dyestuff	DIXON CHEW (BATLEY) LTD	08/10/2021	Warning	H317	Harmful	Alcohols, C12-15, ethoxylated	0.1 - 1%	68131-39-5	500-195-7
DYEING	358364	MEDIUM	CERAVON MILLING YELLOW R 300%	Dyestuff	DIXON CHEW (BATLEY) LTD	08/10/2021	Warning	H317	Harmful	Lubricating Oils (petroleum), C15-30 hydrotreated neutral oil-based	0.1 - 1%	72623-86-0	276-737-9
DYEING	358364	MEDIUM	CERAVON MILLING YELLOW R 300%	Dyestuff	DIXON CHEW (BATLEY) LTD	08/10/2021	Warning	H317	Harmful	Acid Yellow 42	80 - 100%	6375-55-9	228-940-9
DYEING	322718	LOW	CERAVON RHODINE 2G 200%	Dyestuff	DIXON CHEW (BATLEY) LTD	17/07/2019			Low Hazard	Full details of constituents not provided by supplier			
DYEING	322718	LOW	CERAVON RHODINE 2G 200%	Dyestuff	DIXON CHEW (BATLEY) LTD	17/07/2019			Low Hazard				
DYEING	322716	LOW	CERAVON RHODINE 6B 150%	Dyestuff	DIXON CHEW (BATLEY) LTD	05/07/2022			Low Hazard	Full details of constituents not provided by supplier			
DYEING	322716	LOW	CERAVON RHODINE 6B 150%	Dyestuff	DIXON CHEW (BATLEY) LTD	05/07/2022			Low Hazard				
DYEING	358366	MEDIUM	CERAVON SKY BLUE RS 200%	Dyestuff	DIXON CHEW (BATLEY) LTD	08/10/2021	Warning	H319, H413	Harmful	Sodium 1-amino-4-(cyclohexylamino)-9,10-dihydro-9,10-dioxanthracene-2-sulphonate	80 - 100%	4368-56-3	224-460-9
DYEING	358369	LOW	CERAVON SULPHON BRILLIANT RED BL 150%	Dyestuff	DIXON CHEW (BATLEY) LTD	22/09/2021			Low Hazard	Full details of constituents not provided by supplier			
DYEING	358369	LOW	CERAVON SULPHON BRILLIANT RED BL 150%	Dyestuff	DIXON CHEW (BATLEY) LTD	22/09/2021			Low Hazard				
DYEING	358360	MEDIUM	CERAVON VIOLET 4BNS 200%	Dyestuff	DIXON CHEW (BATLEY) LTD	22/09/2021	Warning	H351	Health Hazard	Highly refined mineral oil (IP 346 DMSO extract < 3 percent)	1 - 5%	92062-35-6	295-550-3
DYEING	358360	MEDIUM	CERAVON VIOLET 4BNS 200%	Dyestuff	DIXON CHEW (BATLEY) LTD	22/09/2021	Warning	H351	Health Hazard	[4-[[4-(dimethylamino)phenyl][4-[ethyl(3-sulphonatobenzyl)amino]phenyl]methylene]cyclohexa-2,5-dien-	80 - 100%	1694-09-3	216-901-9
DYEING	322714	LOW	CETACID BLUE LFBL	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	01/07/2022			Low Hazard	Full details of constituents not provided by supplier			
DYEING	322714	LOW	CETACID BLUE LFBL	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	01/07/2022			Low Hazard				
DYEING	322796	LOW	CETACID BLUE LGRM	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	06/07/2022			Low Hazard	Full details of constituents not provided by supplier			
DYEING	322796	LOW	CETACID BLUE LGRM	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	06/07/2022			Low Hazard				
DYEING	322810	LOW	CETACID YELLOW L 2GP	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	06/07/2022			Low Hazard	Full details of constituents not provided by supplier			
DYEING	322810	LOW	CETACID YELLOW L 2GP	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	06/07/2022			Low Hazard				
DYEING	322922	HIGH	CETAFLAM DB 578 80%	Additive	AVOCET DYE & CHEMICAL CO LTD	22/07/2020	Danger	H318	Corrosive	polyary/phenylether sulfate, ammonium salt	1 - < 2.5%	119432-41-6	
DYEING	322922	HIGH	CETAFLAM DB 578 80%	Additive	AVOCET DYE & CHEMICAL CO LTD	22/07/2020	Danger	H318	Corrosive	Fatty alcohol ethoxylated	10 - 25%	68439-45-2	614-481-5
DYEING	322922	HIGH	CETAFLAM DB 578 80%	Additive	AVOCET DYE & CHEMICAL CO LTD	22/07/2020	Danger	H318	Corrosive	2-(2-(2-butoxyethoxy)ethoxy)ethanol	2.5 - 5%	143-22-6	205-592-6
FINISHING	323183	MEDIUM	CETAFLAM DB9	Flame retardant	AVOCET DYE & CHEMICAL CO LTD	21/09/2021	Warning	H302, H319, H315	Harmful	Full details of constituents not provided by supplier			
FINISHING	323183	MEDIUM	CETAFLAM DB9	Flame retardant	AVOCET DYE & CHEMICAL CO LTD	21/09/2021	Warning	H302, H319, H315	Harmful				
DYEING	323183	MEDIUM	CETAFLAM DB9	Flame retardant	AVOCET DYE & CHEMICAL CO LTD	21/09/2021	Warning	H302, H319, H315	Harmful	Full details of constituents not provided by supplier			
DYEING	323183	MEDIUM	CETAFLAM DB9	Flame retardant	AVOCET DYE & CHEMICAL CO LTD	21/09/2021	Warning	H302, H319, H315	Harmful				
DYEING	323528	MEDIUM	CETAPLEX SR	Additive	AVOCET DYE & CHEMICAL CO LTD	31/07/2019	Warning	H341	Health Hazard	Sodium bromate	5 - < 7%	7789-38-0	232-160-4
DYEING	367484	LOW	CHROME FAST BLACK TOO 250% FD	Dyestuff	DIXON CHEW (BATLEY) LTD	16/05/2022			Low Hazard	Solochrome black	80 - 100%	1787-61-7	217-250-3
DYEING	367451	LOW	CHROME FAST NAVY RL	Dyestuff	DIXON CHEW (BATLEY) LTD	13/05/2022			Low Hazard	Lubricating Oils (petroleum), C15-30 hydrotreated neutral oil-based	1 - 10%	72623-86-0	276-737-9

DYEING	367451	LOW	CHROME FAST NAVY RL	Dyestuff	DIXON CHEW (BATLEY) LTD	13/05/2022			Low Hazard	Mordant Blue 9	60 - 100%	3624-68-8	222-828-3
DYEING	367454	MEDIUM	CHROME FAST RED B 160%	Dyestuff	DIXON CHEW (BATLEY) LTD	13/05/2022	Warning	H319, H335, H315	Harmful	C.I. MORDANT RED 7	80 - 100%	3618-63-1	222-811-0
DYEING	323097	HIGH	CHT DISPERGATOR XHT-S UK	Additive	CHT R BEITLICH GMBH	26/07/2021	Danger	H318	Corrosive	2-(2-(2-butoxyethoxy)ethoxy)ethanol	1 - < 3%	143-22-6	205-592-6
DYEING	323097	HIGH	CHT DISPERGATOR XHT-S UK	Additive	CHT R BEITLICH GMBH	26/07/2021	Danger	H318	Corrosive	Polyethylene Glycol Mono(Tristyrylphenyl) Ether	10 - < 20%	99734-09-5	
DYEING	323097	HIGH	CHT DISPERGATOR XHT-S UK	Additive	CHT R BEITLICH GMBH	26/07/2021	Danger	H318	Corrosive	Alkyl(C9-11) alcohol, ethoxylated	3 - < 10%	68439-46-3	
DYEING	367209	MEDIUM	CITRIC ACID MONOHYDRATE	Chemical (Acid)	WILKINSON & SCOTT LTD	10/05/2022	Warning	H319	Harmful	Citric acid monohydrate	100%	5949-29-1	201-069-1
DYEING	323234	LOW	COMMON SALT PDV	Salt	DIXON CHEW (BATLEY) LTD	25/07/2019			Low Hazard	Sodium chloride		7647-14-5	231-598-3
LABORATORY	369857	MEDIUM	DIETHYL ETHER	Chemical (Solvent)	WILKINSON & SCOTT LTD	02/07/2022	Danger	H224, H302, H336, EUH066	Flammable, Harmful	diethyl ether		60-29-7	200-467-2
DYEING	358367	MEDIUM	DIRECT BRILLIANT BLUE BL 200%	Dyestuff	DIXON CHEW (BATLEY) LTD	22/09/2021	Warning	H319	Harmful	Disodium 6,13-dichloro-3,10-bis(phenylamino)triphenodioxazine-2,9-disulphonate	80 - 100%	6527-70-4	229-417-8
DYEING	367486	LOW	DIRECT FAST GREEN 5GL 150%	Dyestuff	DIXON CHEW (BATLEY) LTD	06/06/2022			Low Hazard	Full details of constituents not provided by supplier			
DYEING	367486	LOW	DIRECT FAST GREEN 5GL 150%	Dyestuff	DIXON CHEW (BATLEY) LTD	06/06/2022			Low Hazard				
DYEING	323240	LOW	DIRECT FAST GREEN BL 150%	Dyestuff	DIXON CHEW (BATLEY) LTD	22/09/2021			Low Hazard	Full details of constituents not provided by supplier			
DYEING	323240	LOW	DIRECT FAST GREEN BL 150%	Dyestuff	DIXON CHEW (BATLEY) LTD	22/09/2021			Low Hazard				
DYEING	323240	LOW	DIRECT FAST GREEN BL 150%	Dyestuff	DIXON CHEW (BATLEY) LTD	22/09/2021			Low Hazard	Full details of constituents not provided by supplier			
DYEING	323240	LOW	DIRECT FAST GREEN BL 150%	Dyestuff	DIXON CHEW (BATLEY) LTD	22/09/2021			Low Hazard				
DYEING	358734	MEDIUM	DIRECT FAST ORANGE 2GL 160%	Dyestuff	DIXON CHEW (BATLEY) LTD	15/10/2021	Warning	H335	Harmful	Tetrasodium 4,4'-bis[[p-(p-sulphonatophenyl)azo]phenyl]-N,N,O-azoxystilbene-2,2'-disulphonate	60 - 80%	32651-66-4	251-142-7
DYEING	358675	LOW	DIRECT FAST RED 6BL 200%	Dyestuff	DIXON CHEW (BATLEY) LTD	29/09/2021			Low Hazard	Full details of constituents not provided by supplier			
DYEING	358675	LOW	DIRECT FAST RED 6BL 200%	Dyestuff	DIXON CHEW (BATLEY) LTD	29/09/2021			Low Hazard				
DYEING	358716	LOW	DIRECT FAST RED F3B 150%	Dyestuff	DIXON CHEW (BATLEY) LTD	30/09/2021			Low Hazard	Direct Red 80	60 - 80%	2610-10-8	2210-027-3
DYEING	322797	LOW	DIRECT FAST SCARLET 4BS 200%	Dyestuff	DIXON CHEW (BATLEY) LTD	05/07/2022			Low Hazard	Full details of constituents not provided by supplier			
DYEING	322797	LOW	DIRECT FAST SCARLET 4BS 200%	Dyestuff	DIXON CHEW (BATLEY) LTD	05/07/2022			Low Hazard				
DYEING	358731	LOW	DIRECT FAST TURQUOISE BLUE FBL 400%	Dyestuff	DIXON CHEW (BATLEY) LTD	30/09/2021			Low Hazard	Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, aminosulfonyl sulfo derivs., sodium salts	60 - 100%	90295-11-7	291-001-7
DYEING	358747	MEDIUM	DIRECT FAST YELLOW 5GL 150%	Dyestuff	DIXON CHEW (BATLEY) LTD	30/09/2021	Warning	H317	Harmful	Benzene, C10-13-alkyl derivs.	1 - 5%	67774-74-7	267-051-0
DYEING	358747	MEDIUM	DIRECT FAST YELLOW 5GL 150%	Dyestuff	DIXON CHEW (BATLEY) LTD	30/09/2021	Warning	H317	Harmful	Sodium carbonate	5 - < 10%	497-19-8	207-838-8
DYEING	358747	MEDIUM	DIRECT FAST YELLOW 5GL 150%	Dyestuff	DIXON CHEW (BATLEY) LTD	30/09/2021	Warning	H317	Harmful	benzoic acid, 5-[(4-aminophenyl)azo]-2-hydroxy-, reaction products with 3-[(4-amino-3-	80 - 100%	8005-52-5	232-339-7
DYEING	358425	MEDIUM	DISPERSE BLACK GDSN	Dyestuff	REGENCY FCB (UK) LTD	23/09/2021	Warning	H317	Harmful	Disperse violet 93:1	10 - 15%	52697-38-8	258-110-1
DYEING	358425	MEDIUM	DISPERSE BLACK GDSN	Dyestuff	REGENCY FCB (UK) LTD	23/09/2021	Warning	H317	Harmful	N-[2-[(2-bromo-4,6-dinitrophenyl)azo]-5-(diethylamino)-4-methoxyphenyl]acetamide	10 - 15%	56548-64-2	260-255-0
DYEING	322798	MEDIUM	DISPERSE BROWN 2RFL	Dyestuff	REGENCY FCB (UK) LTD	18/07/2019	Warning	H317	Harmful	2-[N-(2-cyanoethyl)-4-[(2,6-dichloro-4-nitrophenyl)azo]anilino]ethyl acetate	40 - 50%	5261-31-4	226-070-4
DYEING	322799	MEDIUM	DISPERSE DARK BLUE SE-3RT	Dyestuff	REGENCY FCB (UK) LTD	18/07/2019	Warning	H317	Harmful	Methyl N-ethyl-N-[4-[(5-nitro-2,1-benzisothiazol-3-yl)azo]phenyl]-β-alaninate	30 - 40%	52239-04-0	257-779-7
DYEING	322800	LOW	DISPERSE RED EFB 200%	Dyestuff	REGENCY FCB (UK) LTD	18/07/2019			Low Hazard	Full details of constituents not provided by supplier			
DYEING	322800	LOW	DISPERSE RED EFB 200%	Dyestuff	REGENCY FCB (UK) LTD	18/07/2019			Low Hazard				
DYEING	322807	LOW	DISPERSE RED XF	Dyestuff	REGENCY FCB (UK) LTD	18/07/2019			Low Hazard	Full details of constituents not provided by supplier			
DYEING	322807	LOW	DISPERSE RED XF	Dyestuff	REGENCY FCB (UK) LTD	18/07/2019			Low Hazard				
DYEING	322849	LOW	DISPERSE RUBINE 3BL 150%	Dyestuff	REGENCY FCB (UK) LTD	19/07/2019			Low Hazard	2-[4-[(2-cyano-3-nitrophenyl)azo]-m-tolyl][(2-acetoxyethyl)amino]ethyl acetate	45 - 55%	30124-94-8	250-061-4
DYEING	323241	LOW	DISPERSE RUBINE GLSD 200%	Dyestuff	REGENCY FCB (UK) LTD	25/07/2019			Low Hazard	2-[4-[(2-cyano-3-nitrophenyl)azo]-m-tolyl][(2-acetoxyethyl)amino]ethyl acetate	45 - 55%	30124-94-8	250-061-4

DYEING	358446	LOW	DISPERSE TURQUOISE GLS 200%	Dyestuff	REGENCY FCB (UK) LTD	01/10/2021			Low Hazard	Full details of constituents not provided by supplier			
DYEING	358446	LOW	DISPERSE TURQUOISE GLS 200%	Dyestuff	REGENCY FCB (UK) LTD	01/10/2021			Low Hazard	Not classified as hazardous in accordance with Directive EC/1272/2008			
DYEING	358599	LOW	DISPERSE YELLOW 4G	Dyestuff	REGENCY FCB (UK) LTD	28/09/2021	Warning	H400, H410	Environmental Hazard	5-[[4-chloro-2-nitrophenyl]azo]-1-ethyl-1,2-dihydro-6-hydroxy-4-methyl-2-oxonicotinonitrile	40 - 60%	70528-90-4	274-660-5
GREY ROOM	138022	MEDIUM	DOWPER* MC PERCHLOROETHYLENE SOLVENT	Cleaner (Solvent)	DOW CHEMICAL COMPANY LIMITED	27/10/2020	Warning	H319, H315, H317, H351, H336, H411	Health Hazard, Harmful, Environmental Hazard	tert-Butyl glycidyl ether	0.41%	7665-72-7	231-640-0
GREY ROOM	138022	MEDIUM	DOWPER* MC PERCHLOROETHYLENE SOLVENT	Cleaner (Solvent)	DOW CHEMICAL COMPANY LIMITED	27/10/2020	Warning	H319, H315, H317, H351, H336, H411	Health Hazard, Harmful, Environmental Hazard	Tetrachloroethylene	99.5%	127-18-4	204-825-9
DYEING	358503	LOW	DURACET BLACK BFE	Dyestuff	TOWN END (LEEDS) PLC	24/09/2021			Low Hazard	Full details of constituents not provided by supplier			
DYEING	358503	LOW	DURACET BLACK BFE	Dyestuff	TOWN END (LEEDS) PLC	24/09/2021			Low Hazard				
DYEING	358484	LOW	DURACET RUBINE SD 100%	Chemical	TOWN END (LEEDS) PLC	24/09/2021			Low Hazard	Full details of constituents not provided by supplier			
DYEING	358484	LOW	DURACET RUBINE SD 100%	Chemical	TOWN END (LEEDS) PLC	24/09/2021			Low Hazard				
DYEING	322852	LOW	DURAMINE BLUE SPFN 125%	Dyestuff	TOWN END (LEEDS) PLC	05/07/2022		H412	Low Hazard	Coomassie Violet R200	1.125 - 3%	4129-84-4	
DYEING	322852	LOW	DURAMINE BLUE SPFN 125%	Dyestuff	TOWN END (LEEDS) PLC	05/07/2022		H412	Low Hazard	C.I. Acid Blue 324	2.775 - 3.145%	70571-81-2	274-675-7
DYEING	367444	LOW	DURAMINE VIOLET ME-2R	Dyestuff	TOWN END (LEEDS) PLC	13/05/2022			Low Hazard	Coomassie Violet R200	4.2 - 11.2%	4129-84-4	
DYEING	358679	MEDIUM	DURANTINE RED C7B	Dyestuff	TOWN END (LEEDS) PLC	29/09/2021			Caution	Sodium carbonate	1 - < 10%	497-19-8	207-838-8
DYEING	358679	MEDIUM	DURANTINE RED C7B	Dyestuff	TOWN END (LEEDS) PLC	29/09/2021			Caution	White mineral oil (petroleum)	1 - < 10%	8042-47-5	232-455-8
DYEING	358681	LOW	DURANTINE VIOLET 5BL 200%	Dyestuff	TOWN END (LEEDS) PLC	29/09/2021			Low Hazard	Disodium [[7,7'-iminobis[4-hydroxy-3-[[2-hydroxy-5-sulphamoylphenyl]azo]naphthalene-2-sulphona...	30 - 50%	6798-03-4	229-872-2
SCOURING	323186	HIGH	EXENOL XB	Cleaner	J & W WHEWELL LTD	25/07/2021	Danger	H314, H302	Corrosive, Harmful	Propan-2-ol	1 - 10%	67-63-0	200-661-7
SCOURING	323186	HIGH	EXENOL XB	Cleaner	J & W WHEWELL LTD	25/07/2021	Danger	H314, H302	Corrosive, Harmful	Fatty alcohol ethoxylated	10 - 30%	68439-45-2	614-481-5
DYEING	358598	MEDIUM	FANTAGEN BLACK BNW 150%	Dyestuff	FARBCHÉMIE BRAUN GMBH & CO. KG	28/09/2021	Warning	H317	Harmful	Methyl N-ethyl-N-4-[(5-nitro-2,1-benzothiazol-3-yl)azo]phenyl]-β-alaninate	3 - 6%	52239-04-0	257-779-7
DYEING	358598	MEDIUM	FANTAGEN BLACK BNW 150%	Dyestuff	FARBCHÉMIE BRAUN GMBH & CO. KG	28/09/2021	Warning	H317	Harmful	4-[[2-Methoxy-4-[(4-nitrophenyl)azo]phenyl]azo]phenol	3 - 7%	19800-42-1	243-325-5
DYEING	358598	MEDIUM	FANTAGEN BLACK BNW 150%	Dyestuff	FARBCHÉMIE BRAUN GMBH & CO. KG	28/09/2021	Warning	H317	Harmful	2-[[N-(2-cyanoethyl)-4-[(2,6-dichloro-4-nitrophenyl)azo]anilino]ethyl acetate	6 - 11%	5261-31-4	226-070-4
DYEING	358598	MEDIUM	FANTAGEN BLACK BNW 150%	Dyestuff	FARBCHÉMIE BRAUN GMBH & CO. KG	28/09/2021	Warning	H317	Harmful	Disperse violet 93:1	8 - 15%	52697-38-8	258-110-1
DYEING	358598	MEDIUM	FANTAGEN BLACK BNW 150%	Dyestuff	FARBCHÉMIE BRAUN GMBH & CO. KG	28/09/2021	Warning	H317	Harmful	N-[2-[[2-bromo-4,6-dinitrophenyl]azo]-5-(diethylamino)-4-methoxyphenyl]acetamide	8 - 15%	56548-64-2	260-255-0
DYEING	367406	LOW	FANTAGEN BLUE FBLN 165%	Dyestuff	REGENCY FCB (UK) LTD	12/05/2022			Low Hazard	Full details of constituents not provided by supplier			
DYEING	367406	LOW	FANTAGEN BLUE FBLN 165%	Dyestuff	REGENCY FCB (UK) LTD	12/05/2022			Low Hazard				
DYEING	358431	MEDIUM	FANTAGEN BLUE GL-SD	Dyestuff	FARBCHÉMIE BRAUN GMBH & CO. KG	23/09/2021	Warning	H317	Harmful	N-[2-[[2-bromo-4,6-dinitrophenyl]azo]-5-(diethylamino)-4-methoxyphenyl]acetamide	15 - 20%	56548-64-2	260-255-0
DYEING	358431	MEDIUM	FANTAGEN BLUE GL-SD	Dyestuff	FARBCHÉMIE BRAUN GMBH & CO. KG	23/09/2021	Warning	H317	Harmful	Disperse violet 93:1	5 - 10%	52697-38-8	258-110-1
DYEING	370318	LOW	FANTAGEN BRILLIANT RED G-HF	Dyestuff	FARBCHÉMIE BRAUN GMBH & CO. KG	12/07/2022			Low Hazard	3-phenyl-7-[4-(tetrahydrofurfuryloxy)phenyl]-1,5-dioxo-s-indacen-2,6-dione	14 - 24.7%	134724-55-3	413-330-9
DYEING	358435	LOW	FANTAGEN RED RX-SD NEW	Dyestuff	FARBCHÉMIE BRAUN GMBH & CO. KG	23/09/2021			Low Hazard	Full details of constituents not provided by supplier			
DYEING	358435	LOW	FANTAGEN RED RX-SD NEW	Dyestuff	FARBCHÉMIE BRAUN GMBH & CO. KG	23/09/2021			Low Hazard	Not classified as hazardous in accordance with Directive EC/1272/2008			
DYEING	358450	MEDIUM	FANTAGEN VIOLET BL-A 150%	Dyestuff	FARBCHÉMIE BRAUN GMBH & CO. KG	05/07/2022	Warning	H317, H410, H400	Harmful, Environmental Hazard	1-hydroxy-4-[[4-[(methylsulphonyloxy)phenyl]amino]anthraquinone	58 - 99%	1594-08-7	216-475-4
DYEING	358449	MEDIUM	FANTAGEN YELLOW GRLR-SD	Dyestuff	FARBCHÉMIE BRAUN GMBH & CO. KG	05/07/2022	Warning	H319, H410, H400	Harmful, Environmental Hazard	5-[[4-chloro-2-nitrophenyl]azo]-1-ethyl-1,2-dihydro-6-hydroxy-4-methyl-2-oxonicotinonitrile	19 - 32.2%	70528-90-4	274-660-5
DYEING	358449	MEDIUM	FANTAGEN YELLOW GRLR-SD	Dyestuff	FARBCHÉMIE BRAUN GMBH & CO. KG	05/07/2022	Warning	H319, H410, H400	Harmful, Environmental Hazard	lignosulfonic acid, sodium salt, (reactionproduct)	7 - 12.5%	105859-97-0	
DYEING	322924	MEDIUM	FLAMEBAN KBW	Additive	DIXON CHEW (BATLEY) LTD	22/07/2019	Warning	H317	Harmful	Dipotassium 3,4,5,6-tetrabromophthalate	30 - 60%	18824-74-3	242-604-9
DYEING	369854	HIGH	FORMIC ACID 85%	Chemical (Acid)	WILKINSON & SCOTT LTD	02/07/2022	Danger	H331, H314, EUH071, H302	Toxic, Corrosive	Formic acid solution	85%	64-18-6	200-579-1
FINISHING	345853	LOW	HEIQ VIROBLOCK NPJ03	Additive	CHT UK BRIDGEWATER LTD	27/09/2021		H411	Environmental Hazard	Reaction mass of titanium dioxide and silver chloride	0.1 - < 0.25%	944-224-5	

FINISHING	345853	LOW	HEIQ VIROBLOCK NPJ03	Additive	CHT UK BRIDGEWATER LTD	27/09/2021		H411	Environmental Hazard	Hexadecyltrimethylammonium chloride	0.25 - < 1%	112-02-7	203-928-6
FINISHING	345853	LOW	HEIQ VIROBLOCK NPJ03	Additive	CHT UK BRIDGEWATER LTD	27/09/2021		H411	Environmental Hazard	Polyoxyethylene 20 cetyl ether	2.5 - < 10%	9004-95-9	
DYEING	369855	HIGH	HYDROCHLORIC ACID 28%	Chemical (Acid)	WILKINSON & SCOTT LTD	02/07/2022	Danger	H314, H335	Corrosive, Harmful	Hydrochloric acid	28%	7647-01-0	231-595-7
DYEING	322931	HIGH	HYDROGEN PEROXIDE 35%	Hydrogen Peroxide	WILKINSON & SCOTT LTD	06/07/2022	Danger	H318, H302, H335, H315	Corrosive, Harmful	Hydrogen peroxide	35%	7722-84-1	231-765-0
GREY ROOM	273143	MEDIUM	IDA YELLOW INK	Ink	THE NEEDHAM GROUP	26/07/2019	Danger	H225, H319, H336, EUH066	Flammable, Harmful	Acetone	60 - 100%	67-64-1	200-662-2
DYEING	369944	MEDIUM	LANASOL BLACK CE	Dyestuff	TOWN END (LEEDS) PLC	05/07/2022	Danger	H334, H317	Health Hazard	Trisodium 2,4-diamino-3,5-bis-[4-(2-sulfonatoethoxy)sulfonyl]phenylazo]benzenesulfonate	2.5 - < 10%	182926-43-8	423-970-0
DYEING	369944	MEDIUM	LANASOL BLACK CE	Dyestuff	TOWN END (LEEDS) PLC	05/07/2022	Danger	H334, H317	Health Hazard	C.I. Reactive Black 5	50 - < 70%	17095-24-8	241-164-5
DYEING	367556	LOW	LANASOL BLUE 3G	Dyestuff	TOWN END (LEEDS) PLC	17/05/2022			Low Hazard	Full details of constituents not provided by supplier			
DYEING	367556	LOW	LANASOL BLUE 3G	Dyestuff	TOWN END (LEEDS) PLC	17/05/2022			Low Hazard				
DYEING	367528	MEDIUM	LANASOL BLUE 3R	Dyestuff	TOWN END (LEEDS) PLC	17/05/2022	Danger	H334, H317, H412	Health Hazard	Sodium 4-((4-(5-(2-Bromo-1-oxo-2-propenyl)amino)-	1 - < 10%	70247-70-0	274-499-0
DYEING	367528	MEDIUM	LANASOL BLUE 3R	Dyestuff	TOWN END (LEEDS) PLC	17/05/2022	Danger	H334, H317, H412	Health Hazard	Sodium 1-Amino-4-((3-(2,3-dibromo-1-oxopropyl)amino)-2,4,6-	70 - < 90%	70210-42-3	274-439-3
DYEING	367558	MEDIUM	LANASOL BLUE CE	Dyestuff	TOWN END (LEEDS) PLC	17/05/2022	Danger	H334, H317	Health Hazard	C.I. Reactive Black 5	1 - < 10%	17095-24-8	241-164-5
DYEING	367571	MEDIUM	LANASOL RED B	Dyestuff	TOWN END (LEEDS) PLC	17/05/2022	Danger	H334, H317	Health Hazard	Disodium 6-amino-5-[[4-[(2-bromo-1-oxoallyl)amino]-2-sulphonatophenyl]azo]-4-hydroxynaphthalene-....	50 - < 70%	70210-40-1	274-437-2
DYEING	358448	MEDIUM	LANASOL RED CE	Dyestuff	HUNTSMAN TEXTILE EFFECTS	23/09/2021	Warning	H317	Harmful	5-(((6-(ethyl(phenyl)amino)-1,3,5-triazin-2-yl)amino)-3-((E)-(5-(propanoyl)amino)-phenyl)diazanyl)-	13 - 30%	155522-14-8	415-950-5
DYEING	367776	MEDIUM	LANASOL YELLOW 4G	Dyestuff	TOWN END (LEEDS) PLC	20/05/2022	Danger	H334, H317	Health Hazard	Sodium 4-((4-(5-(2-Bromo-1-oxo-2-propenyl)amino)-	60 - 100%	70247-70-0	274-499-0
DYEING	358516	MEDIUM	LANASOL YELLOW CE	Dyestuff	HUNTSMAN TEXTILE EFFECTS	24/09/2021	Danger	H334, H317	Health Hazard	Sodium 4-((4-(5-(2-Bromo-1-oxo-2-propenyl)amino)-	60 - 100%	70247-70-0	274-499-0
DYEING	323035	HIGH	LEVECET ADSN	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	06/07/2022	Danger	H314	Corrosive	Formic acid solution	10 - 20%	64-18-6	200-579-1
DYEING	323035	HIGH	LEVECET ADSN	Dyestuff	AVOCET DYE & CHEMICAL CO LTD	06/07/2022	Danger	H314	Corrosive	Citric acid monohydrate	25 - 50%	5949-29-1	201-069-1
DYEING	323037	LOW	LEVECET DR	Chemical	AVOCET DYE & CHEMICAL CO LTD	23/07/2019		H411	Environmental Hazard	Full details of constituents not provided by supplier			
DYEING	323037	LOW	LEVECET DR	Chemical	AVOCET DYE & CHEMICAL CO LTD	23/07/2019		H411	Environmental Hazard				
DYEING	323039	LOW	LEVELLER WD	Dyestuff	ADVANCED COLOURS AND CHEMICALS	23/07/2019			Low Hazard	Full details of constituents not provided by supplier			
DYEING	323039	LOW	LEVELLER WD	Dyestuff	ADVANCED COLOURS AND CHEMICALS	23/07/2019			Low Hazard				
SCOURING	323042	HIGH	LUBREX N75	Lubricant	J & W WHEWELL LTD	07/06/2022	Danger	H314	Corrosive	Dodecylbenzenesulphonic acid	1 - 10%	121-65-3	
SCOURING	323042	HIGH	LUBREX N75	Lubricant	J & W WHEWELL LTD	07/06/2022	Danger	H314	Corrosive	Fatty alcohol ethoxylated	1 - 10%	68439-45-2	614-481-5
SCOURING	323042	HIGH	LUBREX N75	Lubricant	J & W WHEWELL LTD	07/06/2022	Danger	H314	Corrosive	Castor oil sulphated sodium salt	10 - 30%	68187-76-8	
DYEING	367762	HIGH	MAXILON BLUE 5G 200%	Dyestuff	TOWN END (LEEDS) PLC	20/05/2022	Danger	H331, H301, H318, H410, H400	Toxic, Corrosive, Environmental Hazard	3,7-bis(diethylamino)phenoxazin-5-ium nitrate	30 - 60%	73570-52-2	277-539-5
DYEING	369925	HIGH	MAXILON RED GRL 200%	Dyestuff	TOWN END (LEEDS) PLC	05/07/2022	Danger	H318, H302, H412	Corrosive, Harmful	Alcohols, C16-18 and C18-unsatd., ethoxylated	0.25 - < 1%	68920-66-1	500-236-9
DYEING	369925	HIGH	MAXILON RED GRL 200%	Dyestuff	TOWN END (LEEDS) PLC	05/07/2022	Danger	H318, H302, H412	Corrosive, Harmful	3(or5)-[[4-[benzyl(methylamino)phenyl]azo]-1,2(or1,4)-dimethyl-1H-1,2,4-triazolium bromide	50 - < 70%	89959-98-8	289-660-0
FINISHING	358488	LOW	NEUTRAFLOR NBNH	Water Treatment	TOWN END (LEEDS) PLC	24/09/2021			Low Hazard	Full details of constituents not provided by supplier			
FINISHING	358488	LOW	NEUTRAFLOR NBNH	Water Treatment	TOWN END (LEEDS) PLC	24/09/2021			Low Hazard				
DYEING	367348	HIGH	NEUTRASOL A	Chemical	TOWN END (LEEDS) PLC	11/05/2022	Danger	H318, H302, H315, H410, H400	Corrosive, Harmful, Environmental Hazard	Tallow alkyl amine ethoxylate	40 - 50%	61791-26-2	500-153-8
CHEMICAL AREA	323188	MEDIUM	NEUTRATEx DPC	Additive	TOWN END (LEEDS) PLC	24/07/2019	Warning	H319, H315	Harmful	Full details of constituents not provided by supplier			
CHEMICAL AREA	323188	MEDIUM	NEUTRATEx DPC	Additive	TOWN END (LEEDS) PLC	24/07/2019	Warning	H319, H315	Harmful				
DYEING	358452	MEDIUM	NYLON YELLOW BROWN M-EGLN	Dyestuff	REGENCY FCB LTD	11/07/2022	Warning	H319	Harmful	Full details of constituents not provided by supplier			
DYEING	358452	MEDIUM	NYLON YELLOW BROWN M-EGLN	Dyestuff	REGENCY FCB LTD	11/07/2022	Warning	H319	Harmful				

LABORATORY	303573	HIGH	OXALIC ACID	Oxalic Acid	WILKINSON & SCOTT LTD	02/07/2022	Danger	H318, H312, H302	Corrosive, Harmful	Oxalic acid		144-62-7	205-634-3
DYEING	323192	HIGH	PERIGEN CD	Additive	TEXTILCHEMIE DR. PETRY GMBH	12/07/2022	Danger	H318, H302, H400, H411	Corrosive, Harmful, Environmental Hazard	Propan-2-ol	1 - 2%	67-63-0	200-661-7
DYEING	323192	HIGH	PERIGEN CD	Additive	TEXTILCHEMIE DR. PETRY GMBH	12/07/2022	Danger	H318, H302, H400, H411	Corrosive, Harmful, Environmental Hazard	Poly(oxy-1,2-ethanediyl), alpha-undecyl-omega-hydroxy-, branched and linear	20 - < 25%	127036-24-2	
DYEING	323192	HIGH	PERIGEN CD	Additive	TEXTILCHEMIE DR. PETRY GMBH	12/07/2022	Danger	H318, H302, H400, H411	Corrosive, Harmful, Environmental Hazard	Alkyl(C9-11) alcohol, ethoxylated	5 - < 10%	68439-46-3	
DYEING	323192	HIGH	PERIGEN CD	Additive	TEXTILCHEMIE DR. PETRY GMBH	12/07/2022	Danger	H318, H302, H400, H411	Corrosive, Harmful, Environmental Hazard	benzyl benzoate	50 - < 55%	120-51-4	204-402-9
FINISHING	303353	MEDIUM	PHOBOL CP-S	Water-Proofing	HUNTSMAN TEXTILE EFFECTS GMBH	30/07/2019	Warning	H317	Harmful	Poly(oxy-1,2-ethanediyl), a-(1-oxooctadecyl)-?-hydroxy-	1 - 3%	9004-99-3	
FINISHING	303353	MEDIUM	PHOBOL CP-S	Water-Proofing	HUNTSMAN TEXTILE EFFECTS GMBH	30/07/2019	Warning	H317	Harmful	1,2-propanediol	3 - 7%	57-55-6	200-338-0
DYEING	323232	HIGH	POTASSIUM ZIRCONIUM HEXAFLUORIDE	Chemical	DIXON CHEW (BATLEY) LTD	26/07/2021	Danger	H301, H318	Toxic, Corrosive	Potassium hexafluorozirconate		16923-95-8	240-985-6
FINISHING	340863	HIGH	POWERCLEAN PLUS	Degreaser	YORKSHIRE PAINTS-OZCHEM LTD	14/07/2021	Danger	H318	Corrosive	1-Heptanol, 2-propyl-, 7EO	5 - 10%	160875-66-1	605-233-7
DYEING	323043	LOW	RUCOGAL ERB	Chemical	RUDOLF GMBH	23/07/2019			Low Hazard	Full details of constituents not provided by supplier			
DYEING	323043	LOW	RUCOGAL ERB	Chemical	RUDOLF GMBH	23/07/2019			Low Hazard				
CHEMICAL AREA	351552	HIGH	RUCOLAN WSH	Chemical	RUDOLF GmbH	22/03/2022	Danger	H314, H317	Corrosive, Harmful	Glycolic acid	1 - 5%	79-14-1	201-180-5
CHEMICAL AREA	351552	HIGH	RUCOLAN WSH	Chemical	RUDOLF GmbH	22/03/2022	Danger	H314, H317	Corrosive, Harmful	Methanamine	5 - 15%	100-97-0	202-905-8
DYEING	323049	HIGH	RUCORIT RAL	Chemical	RUDOLF CHEMICALS LTD	12/07/2022	Warning	H341, H361D, EUH032	Health Hazard	Sodium carbonate	1 - 5%	497-19-8	207-838-8
DYEING	323199	HIGH	RUCO-TEX MUS	Additive	RUDOLF CHEMICALS LTD	12/07/2022	Danger	H318, H302, H315, H411	Corrosive, Harmful, Environmental Hazard	2-aminoethanol	0.2 - 0.5%	141-43-5	205-483-3
DYEING	323270	LOW	RUCO-TEX OGX	Laboratory Reagent	RUDOLF CHEMICALS LTD	25/07/2019			Low Hazard	Alkenes, C7-9, hydroformylation products, distn. residues, heavy cracked fraction	1 - 5%	98072-31-2	308-482-7
DYEING	323270	LOW	RUCO-TEX OGX	Laboratory Reagent	RUDOLF CHEMICALS LTD	25/07/2019			Low Hazard	Propan-2-ol	1 - 5%	67-63-0	200-661-7
DYEING	322829	LOW	SANDOLAN VIOLET E2R 300%	Dyestuff	TOWN END (LEEDS) PLC	18/07/2019			Low Hazard	Full details of constituents not provided by supplier			
DYEING	322829	LOW	SANDOLAN VIOLET E2R 300%	Dyestuff	TOWN END (LEEDS) PLC	18/07/2019			Low Hazard				
DYEING	370312	LOW	SELLAN BLUE 2R	Dyestuff	FARBCEMIE BRAUN GMBH & CO. KG	12/07/2022		H412	Low Hazard	Sodium 1-amino-4-[[3-[[[(chloroacetyl)amino]methyl]-2,4,6-trimethylphenyl]amino]-9,10-dihydro-9,10-d	33 - 55.2%	70209-96-0	274-393-4
DYEING	370317	LOW	SELLAN BLUE 5G-C	Dyestuff	FARBCEMIE BRAUN GMBH & CO. KG	12/07/2022		H411	Environmental Hazard	Sodium [[[(Chloroacetyl)amino]methyl][4-[4-(cyclohexylamino)-9,10-dihydro-9,10-dioxo-1anthracenyl]am	59 - 100%	72391-24-3	276-635-4
DYEING	303492	MEDIUM	SODA ASH (LIGHT SODIUM CARBONATE)	Chemical	WILKINSON & SCOTT LTD	23/07/2019	Warning	H319	Harmful	Sodium carbonate		497-19-8	207-838-8
DYEING	323061	LOW	SODIUM ACETATE	Chemical	WILKINSON & SCOTT LTD	28/07/2019			Low Hazard	sodium acetate		127-09-3	204-823-8
FINISHING	358621	LOW	SODIUM CHLORIDE	Chemical	WILKINSON & SCOTT LTD	28/09/2021			Low Hazard	Sodium chloride		7647-14-5	231-598-3
DYEING	323335	MEDIUM	SODIUM HYDROSULPHITE	Chemical	CALDIC BELGIUM N.V.	26/07/2019	Danger	H251, H302, H319, EUH031	Flammable, Harmful	sodium dithionite		7775-14-6	231-890-0
FINISHING	358550	MEDIUM	SODIUM HYDROSULPHITE	Additive	WILKINSON & SCOTT LTD	27/09/2021	Danger	H302, H251, H319, EUH031	Flammable, Harmful	Sodium carbonate	10 - 25%	497-19-8	207-838-8
FINISHING	358550	MEDIUM	SODIUM HYDROSULPHITE	Additive	WILKINSON & SCOTT LTD	27/09/2021	Danger	H302, H251, H319, EUH031	Flammable, Harmful	sodium dithionite	50 - 100%	7775-14-6	231-890-0
DYEING	370002	HIGH	SODIUM HYPOCHLORITE SOLUTION 14/15%	Cleaner (Alkali)	WILKINSON & SCOTT LTD	06/07/2022	Danger	H314, EUH031, H400, H411	Corrosive, Environmental Hazard	Sodium hypochlorite	14 - 15%	7681-52-9	231-668-3
DYEING	323067	LOW	SODIUM SULPHATE ANHYDROUS	Chemical	WILKINSON & SCOTT LTD	23/07/2019			Low Hazard	sodium sulphate		7757-82-6	231-820-9
DYEING	358500	LOW	SOLOPHENYL BLUE FGLE 220%	Dyestuff	HUNTSMAN TEXTILE EFFECTS	24/09/2021			Low Hazard	Sodium carbonate	0.1 - 1%	497-19-8	207-838-8
DYEING	322833	LOW	SOLOPHENYL BORDEAUX 3BLE	Dyestuff	HUNTSMAN TEXTILE EFFECTS-GERMA	18/07/2019			Low Hazard	Sodium carbonate	0.1 - 1%	497-19-8	207-838-8
DYEING	358511	LOW	SOLOPHENYL ROYAL BLUE RFE	Dyestuff	HUNTSMAN TEXTILE EFFECTS	24/09/2021			Low Hazard	Lithium sodium 3-amino-10-(4-(10-amino-6,13-dichloro-4,11-disulfonatobenzo[5,6][1,4]oxazino[2,3-b...	30 - 60%	154212-58-5	418-870-9
DYEING	370025	HIGH	SULPHURIC ACID 77% - 96%	Chemical	WILKINSON & SCOTT LTD	06/07/2022	Danger	H314	Corrosive	Sulphuric acid	77 - 96%	7664-93-9	231-639-5
DYEING	369965	MEDIUM	TERASIL BLUE BGE-01 200%	Dyestuff	TOWN END (LEEDS) PLC	06/07/2022	Warning	H319	Harmful	2,4,7,9-tetramethyldec-5-yne-4,7-diol-	0.1 - < 0.25%	126-86-3	204-809-1
DYEING	369965	MEDIUM	TERASIL BLUE BGE-01 200%	Dyestuff	TOWN END (LEEDS) PLC	06/07/2022	Warning	H319	Harmful	4-anilino-3-nitro-N-phenylbenzenesulphonamide	0.1 - < 0.25%	5124-25-4	225-862-7



DYEING	369965	MEDIUM	TERASIL BLUE BGE-01 200%	Dyestuff	TOWN END (LEEDS) PLC	06/07/2022	Warning	H319	Harmful	lignosulfonic acid, sodium salt, (reactionproduct)	30 - < 50%	105859-97-0
DYEING	358422	LOW	TERASIL BLUE SD	Dyestuff	HUNTSMAN TEXTILE EFFECTS	23/09/2021			Low Hazard	Full details of constituents not provided by supplier		
DYEING	358422	LOW	TERASIL BLUE SD	Dyestuff	HUNTSMAN TEXTILE EFFECTS	23/09/2021			Low Hazard			
DYEING	358389	MEDIUM	TERASIL BROWN 2RFL 200%	Dyestuff	HUNTSMAN TEXTILE EFFECTS	22/09/2021	Warning	H317	Harmful	2-[N-(2-cyanoethyl)-4-[(2,6-dichloro-4-nitrophenyl)azo]anilino]ethyl acetate	60 - 100%	5261-31-4 226-070-4
DYEING	360419	MEDIUM	TERASIL RED FBN CONC	Dyestuff	HUNTSMAN TEXTILE EFFECTS	12/11/2021	Warning	H317	Harmful	lignosulfonic acid, sodium salt, (reactionproduct)	1 - < 10%	105859-97-0
DYEING	360419	MEDIUM	TERASIL RED FBN CONC	Dyestuff	HUNTSMAN TEXTILE EFFECTS	12/11/2021	Warning	H317	Harmful	1-amino-4-hydroxy-2-phenoxanthraquinone	30 - < 50%	17418-58-5 241-442-6
DYEING	358492	LOW	TERASIL RED WW-BFS 200%	Dyestuff	HUNTSMAN TEXTILE EFFECTS	24/09/2021		H413	Low Hazard	3-phenyl-7-[4-(tetrahydrofurfuryloxy)phenyl]-1,5-dioxo-s-indacen-2,6-dione	13 - 30%	134724-55-3 413-330-9
DYEING	358482	LOW	TERASIL YELLOW W-6GS	Dyestuff	HUNTSMAN TEXTILE EFFECTS	24/09/2021			Low Hazard	Full details of constituents not provided by supplier		
DYEING	358482	LOW	TERASIL YELLOW W-6GS	Dyestuff	HUNTSMAN TEXTILE EFFECTS	24/09/2021			Low Hazard			
GREY ROOM	323185	HIGH	TUBOTEX NOP NEW	Detergent (Alkali)	CHT UK BRIDGEWATER LTD	10/07/2022	Danger	H314, H335, H412	Corrosive, Harmful	Limonene	0.5 - < 0.75%	5989-27-5 227-813-5
GREY ROOM	323185	HIGH	TUBOTEX NOP NEW	Detergent (Alkali)	CHT UK BRIDGEWATER LTD	10/07/2022	Danger	H314, H335, H412	Corrosive, Harmful	Sodium carbonate	15 - < 20%	497-19-8 207-838-8
GREY ROOM	323185	HIGH	TUBOTEX NOP NEW	Detergent (Alkali)	CHT UK BRIDGEWATER LTD	10/07/2022	Danger	H314, H335, H412	Corrosive, Harmful	Sodium dodecyl benzenesulphonate	2 - < 3%	85117-50-6 285-600-2
GREY ROOM	323185	HIGH	TUBOTEX NOP NEW	Detergent (Alkali)	CHT UK BRIDGEWATER LTD	10/07/2022	Danger	H314, H335, H412	Corrosive, Harmful	Sodium metasilicate pentahydrate	25 - < 35%	10213-79-3 229-912-9
SCOURING	323354	HIGH	UNEX NS/B	Cleaner	J & W WHEWELL LTD	16/02/2022	Danger	H318	Corrosive	Cyclohexanone	1 - < 10%	108-94-1 203-631-1
SCOURING	323354	HIGH	UNEX NS/B	Cleaner	J & W WHEWELL LTD	16/02/2022	Danger	H318	Corrosive	D523 Alcohol Ethoxylate Surfactant	10 - 30%	24938-91-8
DYEING	358382	MEDIUM	UNION BLACK R NEW	Dyestuff	DIXON CHEW (BATLEY) LTD	22/09/2021	Warning	H319, H317, H412	Harmful	Highly refined mineral oil (IP 346 DMSO extract < 3 percent)	1 - 5%	92062-35-6 295-550-3
DYEING	358382	MEDIUM	UNION BLACK R NEW	Dyestuff	DIXON CHEW (BATLEY) LTD	22/09/2021	Warning	H319, H317, H412	Harmful	Sodium carbonate	1 - 5%	497-19-8 207-838-8
DYEING	358382	MEDIUM	UNION BLACK R NEW	Dyestuff	DIXON CHEW (BATLEY) LTD	22/09/2021	Warning	H319, H317, H412	Harmful	C.I. Direct Black 22	20 - 40%	6473-13-8
DYEING	358382	MEDIUM	UNION BLACK R NEW	Dyestuff	DIXON CHEW (BATLEY) LTD	22/09/2021	Warning	H319, H317, H412	Harmful	Disodium 8-(phenylamino)-5-[[4-[[5-sulphonatonaphthyl]azo]naphthyl]azo]naphthalenesulphonate	20 - 40%	3071-73-6 221-343-4
FINISHING	358682	LOW	UVITEX CF POWDER 200%	Dyestuff	TOWN END (LEEDS) PLC	29/09/2021			Low Hazard	Disodium 4,4'-bis[[4-anilino-6-methoxy-1,3,5-triazin-2-yl]amino]stilbene-2,2'-disulphonate	30 - 60%	3426-43-5 222-326-4
DYEING	322837	LOW	WOOL BLUE 6G	Dyestuff	REGENCY FCB (UK) LTD	18/07/2019			Low Hazard	Full details of constituents not provided by supplier		
DYEING	322837	LOW	WOOL BLUE 6G	Dyestuff	REGENCY FCB (UK) LTD	18/07/2019			Low Hazard			
DYEING	253339	HIGH	ZIRCONIUM ACETATE 22% SOLUTION	Additive	DIXON CHEW (BATLEY) LTD	24/07/2021	Danger	H318	Corrosive	Zirconium Acetate	22%	7585-20-8 231-492-7

**2021 Chemical Purchases**

Company Name	Chemical Name	Kgs
WILKINSON & SCOTT LTD	Acetic Acid	14000
REGENCY FCB UK LTD	Acid Blue 2G	125
REGENCY FCB UK LTD	Acid Blue EBGL	13
TOWN END PLC LEEDS	Acrylene Blue SL200%	325
TOWN END PLC LEEDS	Acrylene Flavine 10GFF	10
TOWN END PLC LEEDS	Acrylene Red GRL 200%	100
ADVANCED COLOURS CHEM	Adsolve SB New	4
TOWN END PLC LEEDS	Albaflow FFA-01	5990
TOWN END PLC LEEDS	Albegal A	4560
TOWN END PLC LEEDS	Albegal B	515
WILKINSON & SCOTT LTD	AMMONIUM SULPHATE	169
WILKINSON & SCOTT LTD	Aquasol	14225
AVOCET DYE CHEMICAL CO	Avopol Blue XB	1
AVOCET DYE CHEMICAL CO	Avopol Green XB	25
AVOCET DYE CHEMICAL CO	Avosol ALM	10202
AVOCET DYE CHEMICAL CO	Avosperse Blue 3RL 150%	100
REGENCY FCB UK LTD	Basic Yellow 28	50
REGENCY FCB UK LTD	Basic Yellow GL 200%	225
CHT UK BRIDGWATER	Bemacron Smart Black EE	20
WILKINSON & SCOTT LTD	Blethyl Ether	10
AVOCET DYE CHEMICAL CO	Blue LGRM	25
WILKINSON & SCOTT LTD	Caustic Soda	92265
DIXON CHEW	Cerabrite LF	550
DIXON CHEW	Ceractive Black BFGR	25
DIXON CHEW	Ceractive Blue R Spec	25
DIXON CHEW	Ceractive Orange 3R	25
DIXON CHEW	Ceractive Turquoise Blue G 1	5
DIXON CHEW	Ceractive Yellow GR	25
DIXON CHEW	Ceralan Black MR 200%	25
DIXON CHEW	Ceralan Blue PRL 200%	10
DIXON CHEW	Ceralan Fast Black MR 200%	50
DIXON CHEW	Ceralan Red PL 200%	10
DIXON CHEW	Ceralan Yellow PL	35
DIXON CHEW	Cerasperse Blue RL150%	700
DIXON CHEW	Ceratex Ral	1560
DIXON CHEW	Ceratine Orange 3R	10
DIXON CHEW	Ceravon Blue A	5
DIXON CHEW	Ceravon Brill Red GRL 150%	125
DIXON CHEW	Ceravon Fast Black MR	25
DIXON CHEW	Ceravon Fast Orange	25
DIXON CHEW	Ceravon Fast Red EBL 150%	150
DIXON CHEW	Ceravon Fast Yellow 2G	100
DIXON CHEW	Ceravon Green 333%	5
DIXON CHEW	Ceravon Milling Green	10
DIXON CHEW	Ceravon Orange G	125
DIXON CHEW	Ceravon Red 3GP 200%	475
DIXON CHEW	ceravon red l3gp	25
DIXON CHEW	Ceravon Red 3GP 200%	25
DIXON CHEW	Ceravon Red3gp200%	25
DIXON CHEW	Ceravon Sky Blue RS 200%	75
DIXON CHEW	Ceravon Sulphon Brill Red GI	150

DIXON CHEW	Ceravon Yellow 2G	525
DIXON CHEW	Ceretex Ral	120
AVOCET DYE CHEMICAL CO	Cetacid Blue LFBLL	725
AVOCET DYE CHEMICAL CO	Cetacid Blue LGRM	650
AVOCET DYE CHEMICAL CO	Cetacid Yellow L2GP	675
AVOCET DYE CHEMICAL CO	Cetaflam DB-9	39360
AVOCET DYE CHEMICAL CO	Cetaflam PB-S78 (80%)	120
AVOCET DYE CHEMICAL CO	cetaflam DB-578	1560
AVOCET DYE CHEMICAL CO	Cetaflam DB578 80%	2642
AVOCET DYE CHEMICAL CO	Cetaflam DB692	30
AVOCET DYE CHEMICAL CO	Cetaplex SRN	9482
AVOCET DYE CHEMICAL CO	Cetcid yellow L2GP	25
WILKINSON & SCOTT LTD	Citric Acid	2400
DYSTAR COLOUR DISTRIBUT	Dianix Red E-FB	500
REGENCY FCB UK LTD	diesperse red EFB 200%	50
WILKINSON & SCOTT LTD	diethylether ether	140
CHT UK BRIDGWATER	Dispergator XHTS	720
REGENCY FCB UK LTD	disperse brown 2RFL	100
REGENCY FCB UK LTD	disperse turquoise GLS 200	50
REGENCY FCB UK LTD	DISPERSE BLACK GDSN new	4950
REGENCY FCB UK LTD	Disperse Blue FBLN 150%	1725
REGENCY FCB UK LTD	Disperse Brown 2RFL	1675
REGENCY FCB UK LTD	Disperse Red 3BL 150%	50
REGENCY FCB UK LTD	Disperse Red EFB	100
REGENCY FCB UK LTD	Disperse Red EFB 200%	575
REGENCY FCB UK LTD	Disperse Red XF	75
REGENCY FCB UK LTD	Disperse Rubine GL-SD 200%	200
REGENCY FCB UK LTD	Disperse Turquoise GLS 200%	475
REGENCY FCB UK LTD	disperse yellow 4G	200
TOWN END PLC LEEDS	Duracet Black BFE	7450
TOWN END PLC LEEDS	Duracet Black CE	150
TOWN END PLC LEEDS	Duracet Rubine SD	25
TOWN END PLC LEEDS	Duralan Yellow 2R	100
ADVANCED COLOURS CHEM	Exenol XB X2	2406
REGENCY FCB UK LTD	Fanagen Yellow GRL-SD	25
REGENCY FCB UK LTD	Fantagan Dark Blue 3RN	25
REGENCY FCB UK LTD	fantagen red RX-SD	50
REGENCY FCB UK LTD	Fantagen Black BWN 150%	4392
REGENCY FCB UK LTD	Fantagen Blue GL-SD	550
REGENCY FCB UK LTD	Fantagen BR Red GHF	200
REGENCY FCB UK LTD	Fantagen Dk Blue 3RN	75
REGENCY FCB UK LTD	Fantagen Red RX-SD	1275
REGENCY FCB UK LTD	Fantagen Violet BLA 150%	150
REGENCY FCB UK LTD	Fantagen Yellow GRL-SD	1113
REGENCY FCB UK LTD	Fantaggen Black BNW 150%	100
REGENCY FCB UK LTD	fantagin blue GL-SD	50
REGENCY FCB UK LTD	FANTAGIN RED rx-sd	50
DIXON CHEW	Flameban BNW	13309
WILKINSON & SCOTT LTD	Formic Acid	26000
WILKINSON & SCOTT LTD	Glauber Salt (Kemsol)	500
CHT UK BRIDGWATER	HeiQ NPJ03 Viroblock	60
WILKINSON & SCOTT LTD	Hydrochloric Acid	5610
WILKINSON & SCOTT LTD	Hydrogen Peroxide	1600
WILKINSON & SCOTT LTD	Hydros	15130
DIXON CHEW	Hydroxylamine Sulphate	200

WILKINSON & SCOTT LTD	Hypochlorite	64
WILKINSON & SCOTT LTD	Kemsol (Glauber Salt)	1400
TOWN END PLC LEEDS	Lanaset Grey G	10
TOWN END PLC LEEDS	Lanasol Black CE	1325
TOWN END PLC LEEDS	Lanasol Red CE	124
TOWN END PLC LEEDS	Lanasol Yellow CE	125
AVOCET DYE CHEMICAL CO	Levecet DR	120
AVOCET DYE CHEMICAL CO	Levecet ADSN	9482
AVOCET DYE CHEMICAL CO	Levecet DR	120
ADVANCED COLOURS CHEM	Lubrex N75	2688
TOWN END PLC LEEDS	Maxilon Blue SL 200%	50
TOWN END PLC LEEDS	Maxilon Red GRL 200%	75
YORKSHIRE PAINT - OZCHEM	MPS Plus 500ml	12
TOWN END PLC LEEDS	Neutrasil A	240
TOWN END PLC LEEDS	Neutrutex DPC	5120
REGENCY FCB UK LTD	Nylon Yellow Brown MegIn	405
REGENCY FCB UK LTD	Perigen CD	13225
YORKSHIRE PAINT - OZCHEM	Perklone D	18
WILKINSON & SCOTT LTD	Peroxide	5
DIXON CHEW	Potassium Zirc Hexafluoride	1175
DIXON CHEW	Potassium Zirconium	250
DIXON CHEW	Rhodamine B	5
RUDOLF CHEMICALS	Rucogal ERB	2762
RUDOLF CHEMICALS	Rucolan WSH	120
RUDOLF CHEMICALS	Rucorit Ral	10600
RUDOLF CHEMICALS	Rucotex MUS	1749
RUDOLF CHEMICALS	Rucotex OGX	1202
RUDOLF CHEMICALS	Rustol ASN	102
WILKINSON & SCOTT LTD	Salt Tablets	1000
TOWN END PLC LEEDS	Sandolan Violet E2R 300%	160
TOWN END PLC LEEDS	Sandolan Violet ER 300%	12.5
WILKINSON & SCOTT LTD	Soda Ash	2900
WILKINSON & SCOTT LTD	Sodium Acetate	225
WILKINSON & SCOTT LTD	Sodium Hydrosulphite	360
WILKINSON & SCOTT LTD	sodium Hypochlorate	2825
WILKINSON & SCOTT LTD	Sodium Sulphate	54400
TOWN END PLC LEEDS	Terasil Blue BEG01 200%	75
TOWN END PLC LEEDS	Terasil Blue BGE	50
TOWN END PLC LEEDS	Terasil Brown 2RFL	49
TOWN END PLC LEEDS	Terasil Yellow WBGS 200%	25
WILKINSON & SCOTT LTD	Tetron	325
ADVANCED COLOURS CHEM	Unex NSB	1084
TOWN END PLC LEEDS	Uvitex BHR	5
REGENCY FCB UK LTD	Wool Blue 6G	69
REGENCY FCB UK LTD	Wool Blue 6GN	25
DIXON CHEW	Zirconium Acetate	5000

# Input - Utilities

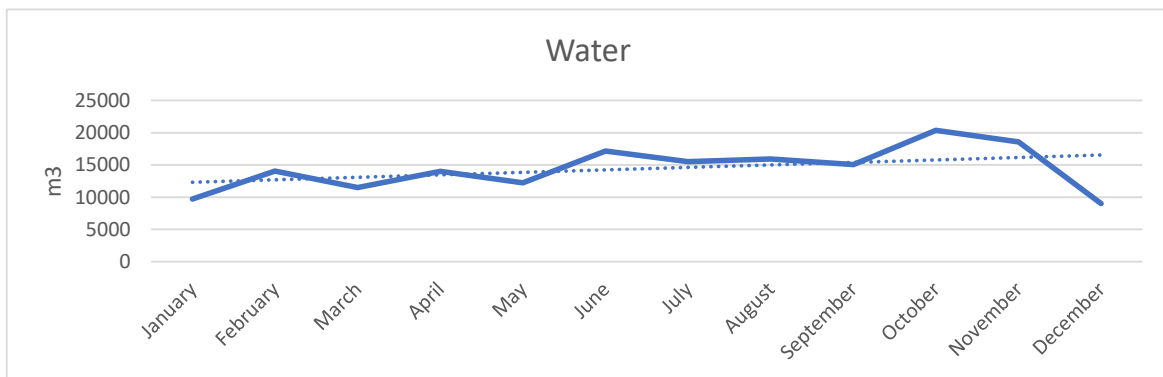
## Water

EA ref: part B2, sections 5c, & part B3, section 3c

The facility utilises both the local inland water source of the River Ribble, as well as a borehole not exceeding a depth of 49 metres for water abstraction and supply to the site. These activities are permitted by the Environment Agency until permits are revoked, effective from March 2000, for the purpose of supplying the dyeing processes undertaken on site.

Water consumption through both methods of abstraction is measured monthly and recorded, to ensure compliance with the consumption limits set by the aforementioned abstraction permits.

Holmfirth Dyers used 173,122 m<sup>3</sup> of water during 2021. The graph below demonstrates monthly demand.

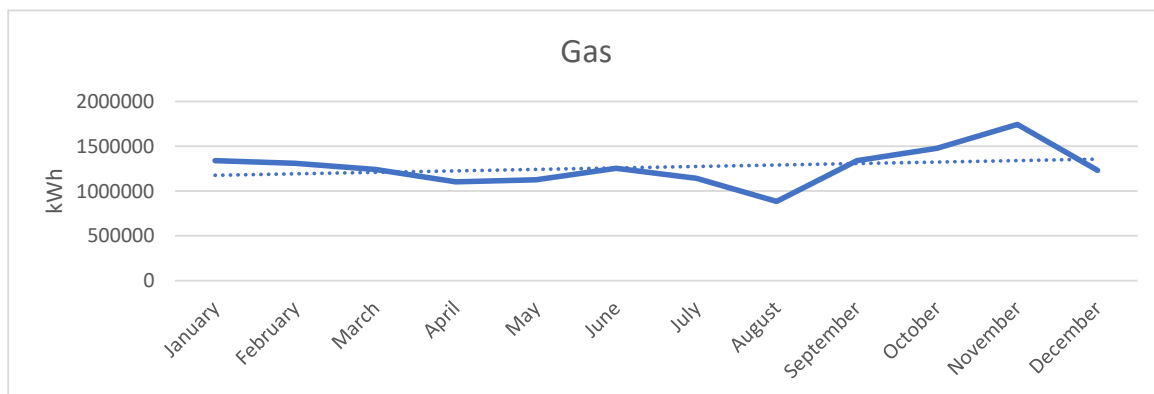


[Water Management SOP \(WI-COMP-021 R1\).pdf](#)

## Gas

EA ref: part B2, sections 5c, & part B3, section 3c

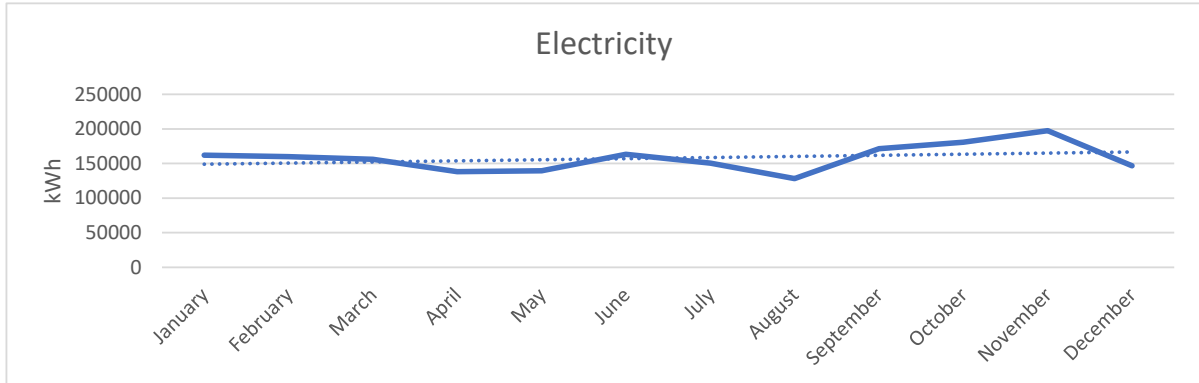
Holmfirth Dyers used 15,191,441.6 kWh of gas during 2021. The graph below demonstrates monthly demand.



## Electricity

EA ref: part B2, sections 5c, & part B3, section 3c

Holmfirth Dyers used 1,894,364.5 kWh of electricity during 2021. The graph below demonstrates monthly demar



# Input - Customer Product

## Throughput

EA ref: part

Holmfirth Dyers Limited is a wholly owned subsidiary of Camira Fabrics Limited. Whilst the provision of Holmfirth Dyers services are offered on an open market, Camira Fabrics Limited represents 95% of its turnover. Camira Fabrics Limited retains design responsibility for fibres used in fabrics processed through Holmfirth Dyers. Holmfirth Dyers retains design responsibility for dyes and chemicals used to achieve customer requirements for dyeing and finishing.

Below is a list of Camira Fabrics products processed through Holmfirth Dyers Limited, split by natural, synthetic and mixed products:

Natural Fibres	Synthetic Fibres	
Aquarius	Aspect	Kab - All
Blazer	Aspen	Lucia
Craggon Flax	Big Arrows	Lucia CS
Hebden	Blossom	Oceanic
Hemp	Canopy	Phoenix
Patina	Cedar	Quest
Silk	Chicago	Target
Stripes	Era 140	Tucson
Synergy	Era 170	Urban
Yoredale	Fiji	X2
Zap	Gravity	Xtreme
		Xtreme CS

### [HFD-Camira Product Specifications](#)

In 2021, 5,563,730 m of product was processed and made use of the inputs detailed in the table below:

Fibre Type	Total	Metric
Synthetic	3,426,431	m
Natural	2,137,299	m

## Intensity Ratio of Inputs & Outputs

Aspect	Total	Metric	Ratio	Metric
Water - Non-potable	173,122	m <sup>3</sup>		0.03 m <sup>3</sup> /m
Water - Potable	12,000	m <sup>3</sup>		0.002 m <sup>3</sup> /m
Electricity Used	1,894,365	kWh		0.34 kWh/m
Gas Used	15,191,442	kWh		2.73 kWh/m
Chemicals Used	383,992	kgs		0.07 kgs/m
Dyes Used	34,994	kgs		0.01 kgs/m
Waste	103100	kgs		0.02 kgs/m
Trade Effluent	198596	m <sup>3</sup>		0.04 m <sup>3</sup> /m

## Output - Emissions

### Trade effluent discharge

EA ref: part B2, sections 5c

Holmfirth Dyers Limited operates under the conditions of an effluent discharge consent (Y-4824-20D) issued by Yorkshire Water. The latest version was issued in 2021 and incorporated an allowance for increased volume. To help maintain compliance with the permitted volume, this is measured and monitored daily. Furthermore, the discharge rate is throttled to prevent exceeding the 26 l/s limit. The daily average throughput for the Effluent Treatment Plant in 2021 is 546.3m<sup>3</sup>

Due to the chemicals and dyes used in the process, the effluent can become acidic and therefore must be treated before it is discharged. An Effluent Treatment Plant (ETP) is utilised on site, just prior to the point of effluent discharge. The plant uses chemical dosing of caustic soda (sodium hydroxide) in order to balance the pH levels to the parameters set out within the Consent to Discharge provided by Yorkshire Water. A system for automatic sampling and dosing is used to ensure pH levels at the discharge point are maintained within the compliance parameters.

A continuous wheel is utilised to pass through the effluent before its discharge, picking up and extracting any solids within the effluent. Solids contained within the effluent consist of flock and residual yarn from the dyeing processes. The solids are collected in troughs adjacent to the ETP, where they are subsequently collected manually using waste bags and disposed of as general waste.

Apart from the volume and pH, none of the other conditions are routinely monitored or measured by the site. Instead, the site relies on the routine sampling conducted by Yorkshire Water for monitoring and measurement against the conditions relating to temperature, Chemical Oxygen Demand (COD), COD load, settleable solids, or easily liberated Sulphide.

[HFD Effluent Discharge Consent \(Y-4824-20D\)](#)

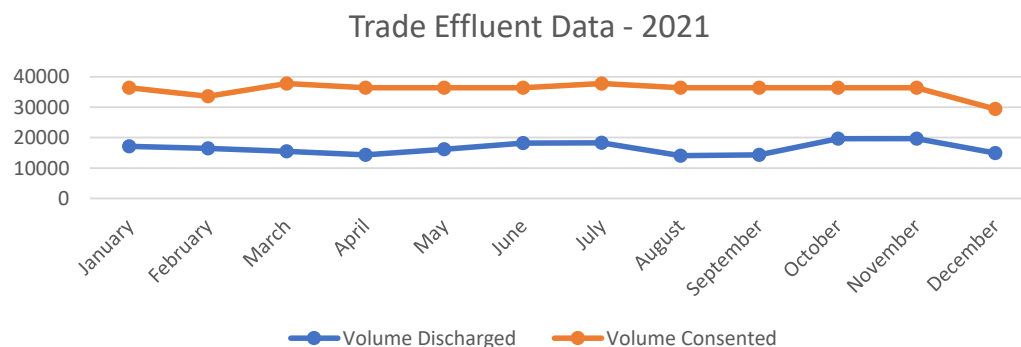
[Water Management SOP \(WI-COMP-021 R1\).pdf](#)

[Trade Effluent Treatment Process Flow.xlsx](#)

[Holmfirth Trade Effluent Sampling Machine Parameters.docx](#)

### 2021 trade effluent data

EA ref: part B3, sections 2





## Stack emissions

*EA ref: part B2, sections 5c*

Two natural gas-fired steam boilers are alternated in their use each day on site to provide heat and power for the core processes. The boilers were commissioned on site in 2002, with normal running hours between 4am and 6pm, outputting around 2,200kg of steam per hour, with approximated annual operating hours of 1,800 each. The boilers each use a Megawatt Thermal Input of 5.52MWth, falling inside the scope of the Medium Combustion Plant Directive (MCPD).

Together with the tumbler, the boilers provide one of the sites point source emissions, utilising the original 115ft stack, ref A1.

Three stack emission tests were conducted on A1 in June 2022 covering emissions from the two boilers and the process tumbler. These were conducted by Envirocare under MCERTS accreditation, using various methods for testing accredited to British Standards, such as BS EN 12619:2013 for Total Volatile Organic Compounds.

The two tenter frames provide for the second point source air emissions on site, utilising two stacks fitted with an abatement system, A2 and A3.

Steam is released on its own at B2 from the Sperotto and KD Machine as noted within the site plan, document reference 'HFD Site Layout – Sept'21'.

Four stack emissions tests were conducted on A2 and A3 in October 2019, for four different fabric processes utilising the tenter frames. These were conducted by Socotec Ltd with MCERTS accreditation, using various methods for testing accredited to British Standards, such as BS EN 12619:2013 for Total Volatile Organic Compounds. The reports conclude with emission levels for each gas tested not significant enough to require further abatement.

The abatement system installed utilises two ESP cells connected to the stack for electrostatic precipitation, installed in 2019. The system also utilises two polypropylene demister cartridges. Within Figures 1 and 2, points A2 and A3 refer to the two stacks on site. As previously stated, B2 refers to the steam emission point, while B1 identifies the point of effluent discharge on site.

## Stack emission data

*EA ref: part B3, sections 2*

### 2022 data - Emission point A1

Parameter	Unit	Boiler 1	Boiler 2	Tumbler
Water Vapour	%	10.9	11.7	3.3
Carbon Monoxide	mg/m <sup>3</sup>	1.3	1.6	70.3
Oxides of Nitrogen (as NO <sub>2</sub> )	mg/m <sup>3</sup>	178	181	1.8
Total Volatile Organic Compounds	mg/m <sup>3</sup>	6.4	4.9	76.6
Oxygen	%	6.9	6.4	19.8
Volumetric Flow	m <sup>3</sup> /h	4,679	6,280	8,330
Total Volatile Organic Compounds	m <sup>3</sup> /h	N/A	N/A	1.4

**2019 data - Emission point A2**

Parameter	Unit	Pre-set	Poly-FR	Poly Non-FR	Wool Non-FR
Total Particulate Matter	mg/m <sup>3</sup>	7.3	4.1	6.4	1.6
Hydrogen Chloride	mg/m <sup>3</sup>	0.76	4.6	0.69	0.33
Formaldehyde	mg/m <sup>3</sup>	1.9	1.5	0.43	0.19
Ammonia	mg/m <sup>3</sup>	0.42	0.27	0.96	0.52
Formic Acid	mg/m <sup>3</sup>	0.27	0.27	0.27	0.27
Acetic Acid	mg/m <sup>3</sup>	0.27	0.27	0.27	0.27
VOC Screening	mg/m <sup>3</sup>	2.2	13	2.8	0.33
Total Volatile Organic Compounds	mg/m <sup>3</sup>	16	22	8.7	8.8
Oxides of Nitrogen (as NO <sub>2</sub> )	mg/m <sup>3</sup>	4	4.8	5.5	4.5
Sulphur Dioxide	mg/m <sup>3</sup>	9.6	11.2	10	9.3
Carbon Monoxide	mg/m <sup>3</sup>	37	55	30	21
Carbon Dioxide	% v/v	0.58	0.71	0.69	0.64
Oil Mist	mg/m <sup>3</sup>	0.05	Not applicable	Not applicable	Not applicable

**2021 Greenhouse Gas Emissions**

EA ref: part

Scopes			Holmfirth
Scope 1	1.1	Stationary Combustion	2782.62
	1.2	Mobile Sources	93.56
	1.3	Refrigeration Equipment	5.32
	1.4	Fire Suppression	Not applicable
	1.5	Purchased Gases	Not applicable
Scope 2	2.1	Purchased Electricity	402.23
	2.2	Purchased Steam	Not applicable
Scope 3	3.1	Supplier Scope 1 & 2 - Goods & Services	Not evaluated
	3.2	Supplier Scope 1 & 2 - Capital Spend	Not evaluated
	3.3	Supplier Scope 1 & 2 - Energy Provider	Not evaluated
	3.4	Supplier Scope 1 & 2 - Transportation Provider	Not evaluated
	3.5	Supplier Scope 1 & 2 - Waste Provider	Not evaluated
	3.8	Supplier Scope 1 & 2 - Leased Asset Provider	Not evaluated
	3.6	Employee Business Travel	-
	3.7	Employee Commuting	Not evaluated
	3.9	Customer Scope 1 & 2 - Transport	Not evaluated
	3.1	Customer Scope 1 & 2 - Energy	Not evaluated
	3.11	Customer Scope 1 & 2 - Product Use	Not evaluated
	3.12	Customer Scope 1 & 2 - Product Waste	Not evaluated
	3.13	Customer Scope 1 & 2 - Leased Asset	Not evaluated
	3.14	Customer Scope 1 & 2 - Franchise	Not evaluated
	3.15	Customer Scope 1 & 2 - Investment	Not evaluated
Total Scope 1 tCO <sub>2</sub> e - Location			2881.5
Total Scope 2 tCO <sub>2</sub> e - Location			402.23
Total Scope 3 tCO <sub>2</sub> e - Location			-
<b>Total tCO<sub>2</sub>e - Location</b>			<b>3283.73</b>

## Refrigeration equipment

EA ref:

There are 4x Mitsubishi split systems servicing 4x internal air units. All of these units are charged with R410a refrigerant gases. However, these are all below the charge threshold that qualifies them to require regular F-Gas inspections.

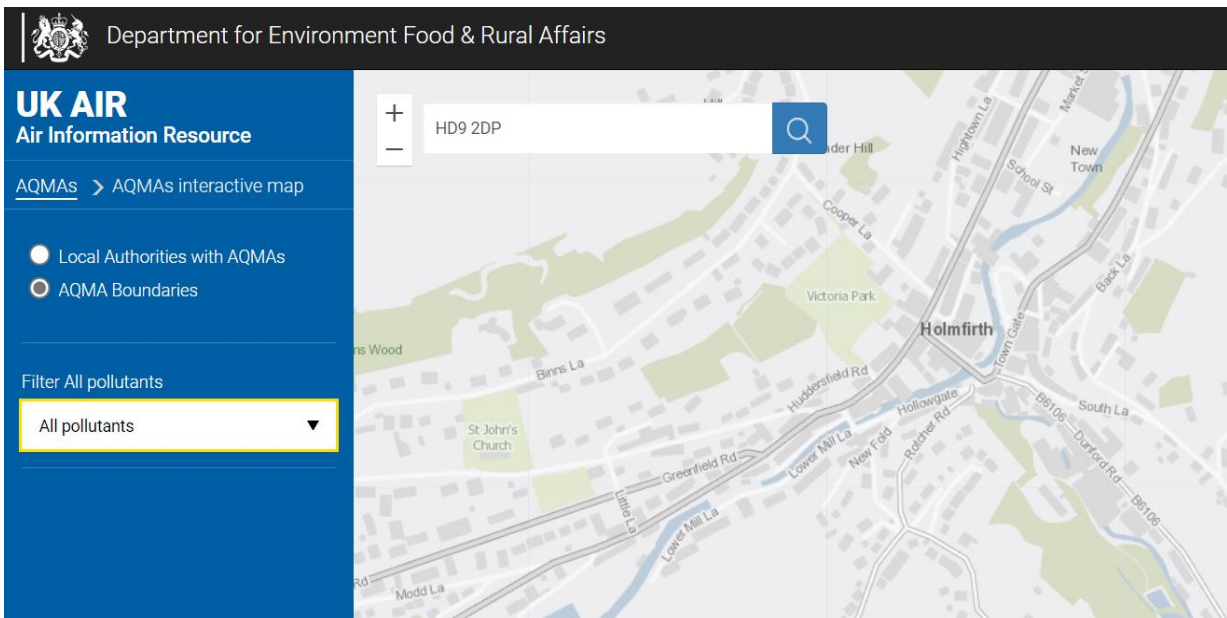
The total area cooled is 83.12 m<sup>2</sup>. The total air conditioning cooling capacity servicing this area equates to 37.1 kW, and a total of refrigerant weight of 11.95 kg. TM44 inspections are required every 5 years.

### [Air Conditioning](#)

## Air Quality Management Area

EA ref: *part B2.5, sections 4a*

Holmfirth Dyers does not fall within an Air Quality Management Area. This can be verified by consulting DEFRA's Air Information Resource: <https://uk-air.defra.gov.uk/aqma/maps/>



# Output - Waste

## Waste streams

EA ref: part B2, sections 5c

The facility produces general waste, textile residue waste, cardboard waste and mixed steel waste, which are all segregated and stored within different units on the site. General waste, cardboard waste, and mixed steel waste are kept within large skip containers within the site exterior.

Waste quantities are monitored and measured wherever possible and if recycling is not possible, then waste to energy is prioritised over waste to landfill.

The majority of textile waste is recovered by a specialist textile merchant and sold into alternative markets or recycled back to fibre. Textile residues that cannot be recycled due to short fibre length are collected in bags and disposed of with general waste.

Empty dye and chemical containers, and IBCs are returned to suppliers. Serial numbers are used to track use of IBCs with the purpose of extending the life cycle through washing and re-filling. At the IBCs end of life, they are recycled as scrap metal and granulated plastic.

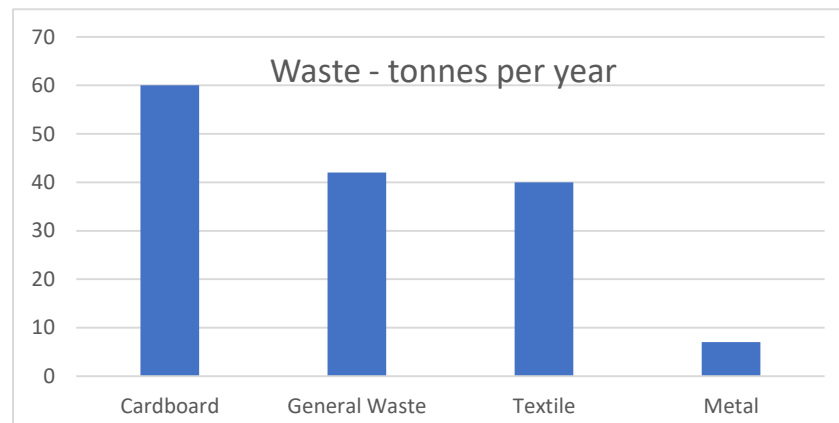
## Useful links to Camira resources:

[Waste Management \(sharepoint.com\)](#)

[Waste Management SOP.xlsx](#)

## Waste volumes

EA ref: part B3, sections 6e



## Waste contractors

Waste Carrier Name	Address	Waste	Scope	Waste Type	Carrier Registration	Reg Expiry	Licence No.	Scrap Metal Licence	Permit Number	Exemptions
BP Scrap Metal and Light Haulage	2 Ings Way East, Lepton, Huddersfield, HD8 OUT	Metal	Collection, transfer and processing of metal waste. Sole Trader.	Standard	<a href="#">CBDU221043</a>	06/03/2024	N/A	SMD0017	N/A	N/A
Bradford Waste Traders	BOWLING BACK LANE, BRADFORD, BD4 8SJ	Metal	Receiving empty Hydro bins (collected by Wilkinson and Scott) at recycling plant, Bradford Waste Transfer Station, Bradford. The bins are used for collecting empty Hydro bins, preparatory treatments for reuse and recycling. their IBC's have a life cycle of 5 years. IBC's collected from customers and other subsidiary Camira sites including PVD and Nottingham, who use halogen equipment and storage for cleaning, slitting, sorting, granulating and transferring plastic waste to secondary specialised plastic recyclers which make ground reinforcement.	Standard	<a href="#">CBDU82689</a>	12/02/2025		73782	<a href="#">BP3899ZS/A001</a>	S2
C O'Donovan and Sons	INGRAM ROAD, LEEDS, LS11 9RD	IBC's	Collecting waste from customers and other subsidiary Camira sites including PVD and Nottingham, who use halogen equipment and storage for cleaning, slitting, sorting, granulating and transferring plastic waste to secondary specialised plastic recyclers which make ground reinforcement.	Hazardous	<a href="#">CBDU327576</a>	26/02/2023	N/A	N/A	N/A	N/A
Camira Fabrics Ltd	Licence holder postode - WF14 8HE	Various	Collecting waste from customers and other subsidiary Camira sites including PVD and Nottingham, who use halogen equipment and storage for cleaning, slitting, sorting, granulating and transferring plastic waste to secondary specialised plastic recyclers which make ground reinforcement.	Standard	<a href="#">CBDU213134</a>	11/12/2023	N/A	N/A	N/A	S1, T2
Granuplas Recycling	Licence holder postode - HX4 9PZ	Plastic	Collecting waste from customers and other subsidiary Camira sites including PVD and Nottingham, who use halogen equipment and storage for cleaning, slitting, sorting, granulating and transferring plastic waste to secondary specialised plastic recyclers which make ground reinforcement.	Standard	<a href="#">CBDU81334</a>	24/03/2022	N/A	N/A	N/A	T4
JB Schofield & Sons Ltd	Licence holder postode - HD7 5TS, Permit holder postocde HD7 4TS	Metal	Ad hoc collection, transfer and processing of metal waste.	Standard	<a href="#">CBDU94872</a>	11/03/2022	65069	SMD0001	<a href="#">ZP3294ZM-A001</a>	N/A
Kirklees Council	ENVIRONMENTAL WASTE, KIRKLEES METROPOLITAN COUNCIL, VINE STREET, HUDDERSFIELD, HD1 6NT	General Waste	Local regulation authority completing waste collection, storage & disposal.	Standard	<a href="#">CBDL235387</a>	01/06/2023	N/A	N/A	<a href="#">XP3792ZK/V003</a>	S2
MultiFibres	Licence holder postode - HD3 4TG	Textiles	Collection, preparatory treatment and transfer to secondary specialised fabric recyclers.	Standard	<a href="#">CBDU191074</a>	20/07/2023	N/A	N/A	N/A	T4
Oil Recoveries Ltd	SCARISBRICK HALL, SOUTHPORT ROAD, ORMSKIRK, Oil L40 9RQ		Testing and collection of IBC's of contaminated maintenance oil and oils seperated from fabric (perchloroethylene) during tenter process. 6-8 IBC's collected at once and transfer to processors.	Hazardous	<a href="#">CBDU95734</a>	31/03/2022	N/A	N/A	N/A	N/A
Sonoco Cores & Paper Ltd.	Licence holder postode - HX4 9PY, Permission number BJ6186IL	Cardboard	General waste from Hopton (Wheatley Park Management) & Collection/treatment of cardboard/paper waste from Holmfirth Dyers and Donald Heath.	Standard	<a href="#">CBDU145611</a>	24/12/2022	N/A	N/A	N/A	U6
TRADEBE UK	Cheshire West Management Centre, Innospec Manufacturing Park, Oil Sites Road, Ellesmere Port, CH65 4EY. Subsequently taken to SO45 3NX for disposal.	Chemicals	Collection, disposal or recovery of Hazardous Wastes involving solvent reclamation or regeneration, making organic chemicals, e.g. alcohols & solid fuels. Repackaging, blending or mixing prior to sending to other TradeBe sites.	Hazardous	<a href="#">CBDU198953</a>	13/10/2023	100486	N/A	<a href="#">EP3933XF/V004 &amp; PP3694CL/A001</a>	D5
Wilkinson & Scott Ltd	WILKINSON & SCOTT LTD, NELSON STREET, BRADFORD, BD5 0DZ	Empty Containers	Collection of their used containers and either refill for the next delivery or transfer to Bradford Waste Traders (metal) and Granuplas (plastic)	Standard	<a href="#">CBDL406950</a>	27/09/2031	N/A	N/A	N/A	N/A

## Output - Noise & Odour

### Odour

EA ref: part

#### Sensitive receptors

The table below provides a list of potential sensitive receptors near to the HFD site.

Receptor Reference	Receptor Name	Potential Sensitivity	Grid Reference	Approx Distance from Site (m)	General Direction from Site
1	Simon Ashley Silver	High	SE 14357 08056	1	East
2	Phoenix	High	SE 14402 07995	1	Southeast
3	River Ribble	High	SE 14374 08002	1	On Site
4	Residential	High	SE 14311 08015	14	Southwest
5	Residential	High	SE 14399 08046	15	East
6	Bengal Spice	High	SE 14355 08085	23	Northeast
7	Da Vinci's Pizza	High	SE 14342 08097	24	Northeast
8	Residential	High	SE 14223 08052	66	West
9	Residential	High	SE 14431 08092	72	Northeast
10	Holmfirth Junior, Infant and Nursery School	Medium	SE 14289 07885	130	Southwest
11	Town Centre	Medium	SE 14198 08193	160	Northwest
12	Residential	Medium	SE 14150 08011	164	West
13	Residential	High	SE 14608 07763	200	Southwest

#### Odour source

Holmfirth Dyers production process that potentially gives rise to odours is the tentering which emits waste gases from the two stacks on site. Associated odours may arise from ancillary activities such as waste management and effluent treatment.

The table below highlights the potential odour emissions from tenter processes, and the quantity of odour emissions. This table lists the emissions limits set out in Process Guidance 06/08(11) and shows the levels detected for the chemicals/compounds of concern for each of the four processes. Detection levels are based on a continuous 30-minute reading as set out in PG 06/8(11).

The results from emissions testing of the two stacks on site demonstrates that the quantities of measured parameters which may cause odour release and environmental impact are extremely low compared to what is deemed the 'safe-limit' by the government. This test was conducted prior to the overhaul to the abatement system outfitted to the stack on site, stack emissions from HFD are highly unlikely to have contained anything which would have adverse health effects upon sensitive receptors and nearby residents.

Odour Emission	Unit	PG 06/8(11) Limit	Pre-set polyester	Post-set FR polyester	Post-set non-FR polyester	Post-set non-FR wool
Total Particulate Matter	mg/m <sup>3</sup>	50	8.1	14	10	1.8
Volatile Organic Compounds	mg/m <sup>3</sup>	100	1.7	1.7	1.6	1.7
Carbon Monoxide	mg/m <sup>3</sup>	500	31	38	30	1.9
Nitrogen Oxides	mg/m <sup>3</sup>	500	4.2	4.5	6	0.75

### Odour impacts

The table below contains an assessment of the source, pathway, receptor potential of the site.

Source	Pathway	Receptor	Probability of exposure	Potential consequence of not managing odour	Overall risk
Intake and handling of raw materials	Air Transport then inhalation	Local Industry / commercial / residential	Negligible	Negative impact on business and residential activities, Spoiling of amenities	Low
Storage of raw materials	Air Transport then inhalation	Local Industry / commercial / residential	Low	Negative impact on business and residential activities, Spoiling of amenities	Low
Processing Activities (Tenter, winch-dyeing, jet-dyeing)	Air Transport then inhalation	Local Industry / commercial / residential	Medium	Negative impact on business and residential activities, Spoiling of amenities	Low
Effluent treatment	Air Transport then inhalation	Local Industry / commercial / residential	Medium	Cause annoyance, negative reputation for HFD	Low

Holmfirth Dyers operates an Odour Management Plan; please find a link to this below.

[Odour Management Plan](#)

## Noise

EA ref: part

### Sensitive Noise Receptors (NSRs)

The table below provides a list of potential sensitive noise receptors near to the HFD site.

Receptor Reference	Receptor name	Potential Sensitivity	Grid Reference	Approximate Distance from Site (m)	General Direction from site
R1	Residential	High	SE 14311 08016	20	Southwest
R2	Residential	High	SE 14244 08053	66	West
R3	Residential	High	SE 14418 07984	15	Southeast
R4	Residential	High	SE 14396 08045	15	East
R5	Residential	Medium	SE 14407 08101	70	Northeast

### Noise Source

An investigation into the sources of noise was completed during a noise assessment conducted by an Acoustic Consultant operating on behalf of Envirocare. The Acoustic Consultant is qualified under the Institute of Acoustics Diploma in Acoustics and Noise Control and holds a Certificate of Competence in Environmental Noise Measurement. The assessment was conducted against the requirements of BS 4142:2014 +A1:2019.

The goods in and out process from the 'bottom' and 'top' loading bay and any noise associated with workplace transport, vents, fans, pipework and other process equipment was considered to present the possibility of noise that could be a source of nuisance to the identified sensitive receptors.

### Predicted Noise Levels

Receptor Location	Measured Location	Activity of Location	Source to Measured Location (R1)	Source to Receptor (R2)	Calculation (LOG10(R2/R1)*20)	Measured Level (LP1)	Predicted Level at Receptor (LP2)
R3	MP1	Goods out	3	38	22.1	68.4	46.3
R4	MP1	Goods out	3	25	18.4	68.4	50
R5	MP1	Goods out	3	80	28.5	68.4	39.9
R2	MP2	Goods in	7	65	19.4	58.9	39.5
R4	MP3	Driveway	2	47	27.4	66.9	39.5

### Assessed Noise Levels

Receptor & Time	Background Sound Level	Measured Sound Level	Acoustic Feature Correction	Rating Level	Excess Over Background	Impact Indication
R1 Daytime	47	56	3	59	12	Significant
R1 Night-time	41	47	0	47	6	Adverse
R2 Daytime	47	50	3	53	6	Adverse
R2 Night-time	41	48	0	48	7	Adverse
R3 Daytime	47	49	0	49	2	Unlikely
R3 Night-time	41	41	0	41	0	Low
R4 Daytime	47	55	3	58	11	Significant
R4 Night-time	41	47	0	47	6	Adverse
R5 Daytime	47	52	3	55	8	Adverse
R5 Night-time	41	45	0	45	4	Unlikely

### Receptor Locations R1 & R4

Daytime noise under normal operating conditions could be considered to have a Significant Adverse Impact on residents. Night-time noise under normal conditions could be considered to have an Adverse Impact.



Furthermore, the despatch operations from the ‘top’ despatch loading bay could be considered to have a Significant Adverse Impact on residents of R4.

**Receptor Locations R2 & R5**

Daytime noise under normal operating conditions could be considered to have an Adverse Impact on residents. Night-time noise under normal conditions could also be considered to have an Adverse Impact.

**Receptor Location 3**

Daytime noise under normal operating conditions could be considered to have an Unlikely Impact on residents. Night-time noise under normal conditions could also be considered to have a Low Impact.

**Noise Impacts**

Source	Pathway	Receptor	Probability of exposure	Potential consequence of not managing noise	Overall risk
Handling and loading of goods in	Air transport / refraction	Residential	Medium	Negative impact on residential activities. Cause annoyance, negative reputation.	Low
Processing Activities (Tenter, dyeing, tumbling, drying)	Air transport / refraction	Residential	Medium	Negative impact on residential activities. Cause annoyance, negative reputation.	Medium
Handling and loading of goods out	Air transport / refraction	Residential	High	Negative impact on residential activities. Cause annoyance, negative reputation.	Medium

# Risk Assessment

## Environmental Risk Assessment

EA ref: part B2, sections 6

Receptor	Source	Harm	Pathway	Likelihood	Impact	Magnitude	Risk Treatment	Risk Current
Local population	Statutory nuisance (noise)	Impact on local population and property	Travel through air	High	Medium	High	<ul style="list-style-type: none"> <li>All activities undertaken for the preparing, dyeing and finishing of textile fabrics takes place within the confines of the site buildings (internal)</li> <li>Perimeter fencing/walling installed around site boundary</li> <li>Plant and equipment on site are regularly maintained and serviced by approved and qualified engineers when required</li> <li>Planned preventative maintenance (PPM) schedule is in place and managed by an appropriate person in cooperation with qualified engineers/staff</li> <li>Vehicles are switched off when practical</li> <li>Restrict operating times for FLT activities on site from 06:00 - 18:00.</li> <li>Bailing takes place inside a structure to reduce noise and the compactor is only in operation between 06:00 – 18:00</li> <li>HGV deliveries are restricted to 06:00 – 18:00 with the exception of 1 LGV vehicle per night</li> <li>Best available techniques are adopted on the correct prevention of noise production on site</li> </ul>	Low
Local businesses	Statutory nuisance (noise)	Impact on local businesses and property	Travel through air	High	Medium	High	<ul style="list-style-type: none"> <li>All activities undertaken for the preparing, dyeing and finishing of textile fabrics takes place within the confines of the site buildings (internal)</li> <li>Perimeter fencing/walling installed around site boundary</li> <li>Plant and equipment on site are regularly maintained and serviced by approved and qualified engineers when required</li> <li>Planned preventative maintenance (PPM) schedule is in place and managed by an appropriate person in cooperation with qualified engineers/staff</li> <li>Vehicles are switched off when practical</li> <li>Restrict operating times for FLT activities on site from 06:00 - 18:00.</li> <li>Bailing takes place inside a structure to reduce noise and the compactor is only in operation between 06:00 – 18:00</li> <li>HGV deliveries are restricted to 06:00 – 18:00 with the exception of 1 LGV vehicle per night</li> <li>Best available techniques are adopted on the correct prevention of noise production on site</li> </ul>	Low

Local fauna	Statutory nuisance (noise)	Impact on local wildlife	Travel through air	Medium	Medium	Medium	<ul style="list-style-type: none"> <li>• All activities undertaken for the preparing, dyeing and finishing of textile fabrics takes place within the confines of the site buildings (internal)</li> <li>• Perimeter fencing/walling installed around site boundary</li> <li>• Plant and equipment on site are regularly maintained and serviced by approved and qualified engineers when required</li> <li>• Planned preventative maintenance (PPM) schedule is in place and managed by an appropriate person in cooperation with qualified engineers/staff</li> <li>• Vehicles are switched off when practical</li> <li>• Restrict operating times for FLT activities on site from 06:00 - 18:00.</li> <li>• Bailing takes place inside a structure to reduce noise and the compactor is only in operation between 06:00 – 18:00</li> <li>• HGV deliveries are restricted to 06:00 – 18:00 with the exception of 1 LGV vehicle per night</li> <li>• Best available techniques are adopted on the correct prevention of noise production on site</li> </ul>	Low
Local population	Statutory nuisance (vibration)	Impact on local population and property	Travel through air	Medium	Low	Medium	<ul style="list-style-type: none"> <li>• All activities undertaken for the preparing, dyeing and finishing of textile fabrics takes place within the confines of the site buildings (internal)</li> <li>• Perimeter fencing/walling installed around site boundary</li> <li>• Plant and equipment on site are regularly maintained and serviced by approved and qualified engineers when required</li> <li>• Planned preventative maintenance (PPM) schedule is in place and managed by an appropriate person in cooperation with qualified engineers/staff</li> <li>• Vehicles are switched off when practical</li> <li>• Restrict operating times for FLT activities on site from 06:00 - 18:00.</li> <li>• Bailing takes place inside a structure to reduce noise and the compactor is only in operation between 06:00 – 18:00</li> <li>• HGV deliveries are restricted to 06:00 – 18:00 with the exception of 1 LGV vehicle per night</li> <li>• Best available techniques are adopted on the correct prevention of noise production on site</li> </ul>	Low
Local businesses	Statutory nuisance (vibration)	Impact on local businesses and property	Travel through air	Medium	Low	Medium	<ul style="list-style-type: none"> <li>• All activities undertaken for the preparing, dyeing and finishing of textile fabrics takes place within the confines of the site buildings (internal)</li> <li>• Perimeter fencing/walling installed around site boundary</li> <li>• Plant and equipment on site are regularly maintained and serviced by approved and qualified engineers when required</li> <li>• Planned preventative maintenance (PPM) schedule is in place and managed by an appropriate person in cooperation with qualified engineers/staff</li> <li>• Vehicles are switched off when practical</li> <li>• Restrict operating times for FLT activities on site from 06:00 - 18:00.</li> <li>• Bailing takes place inside a structure to reduce noise and the compactor is only in operation between 06:00 – 18:00</li> <li>• HGV deliveries are restricted to 06:00 – 18:00 with the exception of 1 LGV vehicle per night</li> <li>• Best available techniques are adopted on the correct prevention of noise production on site</li> </ul>	Low

Local fauna	Statutory nuisance (vibration)	Impact on local wildlife	Travel through air	Medium	Low	Medium	<ul style="list-style-type: none"> <li>• All activities undertaken for the preparing, dyeing and finishing of textile fabrics takes place within the confines of the site buildings (internal)</li> <li>• Perimeter fencing/walling installed around site boundary</li> <li>• Plant and equipment on site are regularly maintained and serviced by approved and qualified engineers when required</li> <li>• Planned preventative maintenance (PPM) schedule is in place and managed by an appropriate person in cooperation with qualified engineers/staff</li> <li>• Vehicles are switched off when practical</li> <li>• Restrict operating times for FLT activities on site from 06:00 - 18:00.</li> <li>• Bailing takes place inside a structure to reduce noise and the compactor is only in operation between 06:00 – 18:00</li> <li>• HGV deliveries are restricted to 06:00 – 18:00 with the exception of 1 LGV vehicle per night</li> <li>• Best available techniques are adopted on the correct prevention of noise production on site</li> </ul>	Low
Local population	Point Source Emissions (air)	Impact on local businesses and property	Travel through air	High	Medium	High	<ul style="list-style-type: none"> <li>• Limit air emission point sources to two stack on site</li> <li>• Only tenter frame machines on site produce stack emissions</li> <li>• Stack fitted with new Electrostatic Precipitator (ESP) abatement systems in 2019, fitted with polypropylene demister cartridges, removing emission particles from waste gas streams</li> <li>• Other emissions limited to steam only</li> <li>• Ensure periodic stack emissions testing, to ensure efficacy of abatement system and clean air emissions</li> </ul>	Low
Local businesses	Point Source Emissions (air)	Impact on local businesses and property	Travel through air	High	Medium	High	<ul style="list-style-type: none"> <li>• Limit air emission point sources to two stack on site</li> <li>• Only tenter frame machines on site produce stack emissions</li> <li>• Stack fitted with new Electrostatic Precipitator (ESP) abatement systems in 2019, fitted with polypropylene demister cartridges, removing emission particles from waste gas streams</li> <li>• Other emissions limited to steam only</li> <li>• Ensure periodic stack emissions testing, to ensure efficacy of abatement system and clean air emissions</li> </ul>	Low
Local fauna	Point Source Emissions (air)	Impact on local wildlife	Travel through air	High	Medium	High	<ul style="list-style-type: none"> <li>• Limit air emission point sources to two stack on site</li> <li>• Only tenter frame machines on site produce stack emissions</li> <li>• Stack fitted with new Electrostatic Precipitator (ESP) abatement systems in 2019, fitted with polypropylene demister cartridges, removing emission particles from waste gas streams</li> <li>• Other emissions limited to steam only</li> <li>• Ensure periodic stack emissions testing, to ensure efficacy of abatement system and clean air emissions</li> </ul>	Low

Local population	Point Source Emissions (water)	Impact on local businesses and property	Travel through water	High	High	High	<ul style="list-style-type: none"> <li>Throttle the rate of discharge for water emissions on site, to stay below 26l/s discharge consent limit</li> <li>Automatic sampling of effluent to correctly balance pH for all discharge to water from the site</li> <li>Ensure and comply with routine sampling from water broker (Yorkshire Water) to ensure conditions of discharge temperature, Chemical Oxygen Demand (COD), COD load, settleable soils and/or easily liberated Sulphide.</li> <li>Keep record of daily effluent sampling on site to ensure continuous compliance with discharge consent</li> <li>Ensure that the number of effluent discharge points is limited to one, in compliance with the discharge consent</li> <li>Use of jet-dyeing process which limits the amount of water used and discharged for the dyeing processes on site</li> </ul>	Low
Local businesses	Point Source Emissions (water)	Impact on local businesses and property	Travel through water	High	High	High	<ul style="list-style-type: none"> <li>Throttle the rate of discharge for water emissions on site, to stay below 26l/s discharge consent limit</li> <li>Automatic sampling of effluent to correctly balance pH for all discharge to water from the site</li> <li>Ensure and comply with routine sampling from water broker (Yorkshire Water) to ensure conditions of discharge temperature, COD, COD load, settleable soils and/or easily liberated Sulphide.</li> <li>Keep record of daily effluent sampling on site to ensure continuous compliance with discharge consent</li> <li>Ensure that the number of effluent discharge points is limited to one, in compliance with the discharge consent</li> <li>Use of jet-dyeing process which limits the amount of water used and discharged for the dyeing processes on site</li> </ul>	Low
Local fauna	Point Source Emissions (water)	Impact on local wildlife	Travel through water	High	High	High	<ul style="list-style-type: none"> <li>Throttle the rate of discharge for water emissions on site, to stay below 26l/s discharge consent limit</li> <li>Automatic sampling of effluent to correctly balance pH for all discharge to water from the site</li> <li>Ensure and comply with routine sampling from water broker (Yorkshire Water) to ensure conditions of discharge temperature, COD, COD load, settleable soils and/or easily liberated Sulphide.</li> <li>Keep record of daily effluent sampling on site to ensure continuous compliance with discharge consent</li> <li>Ensure that the number of effluent discharge points is limited to one, in compliance with the discharge consent</li> <li>Use of jet-dyeing process which limits the amount of water used and discharged for the dyeing processes on site</li> </ul>	Low
Local population	Fugitive Emissions (VOCs)	Impact on local businesses and property	Travel through air	Medium	High	High	<ul style="list-style-type: none"> <li>Ensure that solvent storage is kept in a secure compound on site</li> <li>Implementation of an Odour Management Plan to train to relevant employee's to ensure minimisation of odour and VOC release across site activities</li> </ul>	Low
Local businesses	Fugitive Emissions (VOCs)	Impact on local businesses and property	Travel through air	Medium	High	High	<ul style="list-style-type: none"> <li>Ensure that solvent storage is kept in a secure compound on site</li> <li>Implementation of an Odour Management Plan to train to relevant employee's to ensure minimisation of odour and VOC release across site activities</li> </ul>	Low
Local fauna	Fugitive Emissions (VOCs)	Impact on local wildlife	Travel through air	Medium	High	High	<ul style="list-style-type: none"> <li>Ensure that solvent storage is kept in a secure compound on site</li> <li>Implementation of an Odour Management Plan to train to relevant employee's to ensure minimisation of odour and VOC release across site activities</li> </ul>	Low

Local population	Odour	Impact on local businesses and property	Travel through air	Medium	High	High	<ul style="list-style-type: none"> <li>• Ensure that solvent storage is kept in a secure compound on site</li> <li>• Stack fitted with new Electrostatic Precipitator (ESP) abatement systems in 2019, fitted with polypropylene demister cartridges, removing emission particles from waste gas streams</li> <li>• Other emissions limited to steam only</li> <li>• Implementation of an Odour Management Plan to train to relevant employee's to ensure minimisation of odour release across site activities</li> </ul>	Low
Local businesses	Odour	Impact on local businesses and property	Travel through air	Medium	Medium	Medium	<ul style="list-style-type: none"> <li>• Ensure that solvent storage is kept in a secure compound on site</li> <li>• Stack fitted with new Electrostatic Precipitator (ESP) abatement systems in 2019, fitted with polypropylene demister cartridges, removing emission particles from waste gas streams</li> <li>• Other emissions limited to steam only</li> <li>• Implementation of an Odour Management Plan to train to relevant employee's to ensure minimisation of odour release across site activities</li> </ul>	Low
Local fauna	Odour	Impact on local wildlife	Travel through air	Medium	Medium	Medium	<ul style="list-style-type: none"> <li>• Ensure that solvent storage is kept in a secure compound on site</li> <li>• Stack fitted with new Electrostatic Precipitator (ESP) abatement systems in 2019, fitted with polypropylene demister cartridges, removing emission particles from waste gas streams</li> <li>• Other emissions limited to steam only</li> <li>• Implementation of an Odour Management Plan to train to relevant employee's to ensure minimisation of odour release across site activities</li> </ul>	Low

## Climate Change risk assessment

EA ref: part B2, sections 6

[Adapting to climate change: risk assessment worksheets for river basin districts - GOV.UK \(www.gov.uk\)](http://www.gov.uk)

[How to fill in a climate change risk assessment worksheet - GOV.UK \(www.gov.uk\)](http://www.gov.uk)

### Risk Scoring Matrix

	Severe Impact (Score 4)	Medium Impact (Score 3)	Mild Impact (Score 2)	Minor Impact (Score 1)
Highly likely (Score 4)	16	12	8	4
Likely (Score 3)	12	9	6	3
Low Likelihood (Score 2)	8	6	4	2
Unlikely (Score 1)	4	3	2	1

### Risk Key

#### Severity of impact

**Severe impact:** short-term, acute impact to operations resulting in permanent compliance breaches

**Medium impact:** short-term, acute impact to operations resulting in multiple temporary compliance breaches

**mild impact:** short-term, acute impact to operations resulting in single temporary compliance breach

**minor impact:** short or long-term impact to operations resulting in additional measures for compliance

#### Likelihood

**highly likely:** event appears very likely in the short term and almost inevitable over the long term, or there is evidence of the event already happening

**likely:** it is probable that an event will occur, or circumstances are such that the event is not inevitable, but possible in the short term and likely over the long term

**low likelihood:** circumstances are such that an event could occur, but it is not certain even in the long term that an event would occur and it is less likely in the short term

**unlikely:** circumstances are such that it is improbable the event would occur even in the long term

Potential changing climate variable	A Impact	B Likelihood	C Severity	D Risk (B x C)	E Mitigation (what will you do to mitigate this risk)	Likelihood (after mitigation)	G Severity (after mitigation)	H Residual risk (F x G)
1. Summer daily maximum temperature may be around 6°C higher compared to average summer temperatures now.	Water supply restrictions due to drought (from River Ribble)	3	4	12	Decrease flow rate of river abstraction. Increase demand on borehole abstraction. Optimise process methods to reduce overall demand for water.	3	2	6
	Ventilation system unable to maintain optimum temperatures within operational environments	3	3	9	Monitor increasing temperatures and implement additional cooling strategies when required.	1	3	3
	Air conditioning systems unable to maintain optimum temperatures with operational and office areas	2	3	6	Monitor increasing temperatures and implement additional cooling strategies when required.	1	3	3
2. Winter daily maximum temperature could be 4°C more than the current average, with the potential for more extreme temperatures, both warmer and colder than present.	No anticipated impact – activities expected to remain within normal operating parameters	1	1	1	No mitigation required as very low risk. Score is under 5	1	1	1
3. The biggest rainfall events are up to 20% more intense than current extremes (peak rainfall intensity) *.	Damage to plant/machinery	3	4	12	Maintain access to flood warnings. Prepare flood defence plan. Install flood defence barriers.	2	3	6
	Overtopping of bunds or effluent treatment facility leading to chemical contamination of surface water	3	4	12	Maintain access to flood warnings. Prepare flood defence plan. Consider surface falls when designing storage locations. Install flood defence barriers	2	3	6
	Overload of local drainage systems	3	2	6	Maintain access to flood warnings. Prepare flood defence plan. Maintain and monitor discharge consent conditions.	2	2	4
	Flooding of abstraction ponds	2	3	6	Monitor rainfall predictions. Temporarily cease abstraction from river and borehole.	1	2	2
4. Average winter rainfall may increase by 29% on today's averages.	Flooding of abstraction ponds	1	3	3	No mitigation required as low risk. Score is under 5	1	3	3
	Potential overload of local drainage systems	3	2	6	Maintain access to flood warnings. Prepare flood defence plan. Maintain and monitor discharge consent conditions.	2	2	4
5. Sea level could be as much as 0.6m higher compared to today's level *.	No anticipated impact on day-to-day operations due to height of region above sea-level (169m)	1	1	1	No mitigation required as very low risk. Score is under 5	1	1	1

6. Drier summers, potentially up to 34% less rain than now.	Water supply restrictions due to drought	3	4	12	Decrease flow rate of river abstraction. Increase demand on borehole abstraction. Optimise process methods to reduce overall demand for water.	3	2	6
7. At its peak, the flow in watercourses could be 30% more than now, and at its lowest it could be 65% less than now.	Water supply restrictions due to low flow in local watercourse would result in issues with production	3	4	12	Decrease flow rate of river abstraction. Increase demand on borehole abstraction. Optimise process methods to reduce overall demand for water.	3	2	6

[HFDPB206 Climate Change Risk Assessment.odt](#)

## H1 risk screening

*EA ref: part B2, sections 6b*

H1 is the starting point for environmental risk assessments for bespoke environmental permits for installations, waste facilities, surface and groundwater discharge activities.

In accordance with this requirement, Holmfirth Dyers has contracted Envirocare to complete the H1 tool on its behalf. The 2022 complete version can be found in the project folders on SharePoint, linked below.

A key output of this activity demonstrated that, at the point of its completion, Holmfirth Dyers is required to undertake dispersion modelling of its stack emissions.

[H1TOOL\\_2.78.mdb](#)



# BAT Compliance

## BAT Assessment

EA ref:

Refer to BREF notes within BAT: [https://eippcb.jrc.ec.europa.eu/sites/default/files/2022-03/TXT\\_Final\\_draft\\_B-W.pdf](https://eippcb.jrc.ec.europa.eu/sites/default/files/2022-03/TXT_Final_draft_B-W.pdf)

BAT Number	Topic	Brief Description	BAT	BAT-AEL	BAT Compliant?	BAT-AEL Derogation?	Operator Comments
1	Improve overall performance	EMS	Implement and adhere to an EMS that incorporates key features identified		YES	NO	<p>Holmfirth Dyers Limited operates its environmental management system in accordance with the requirements of ISO 14001: 2015 and the requirements of Camira's group management systems. Extension to the scope of Camira's UKAS accredited ISO 14001 certification, to include Holmfirth Dyers Limited, is planned for 2022 Q4.</p> <p>See document: HFDB202 - Permit Management System Manual for further information.</p>

<p>2</p> <p>Improve overall performance</p> <p>Inventory of inputs and outputs</p> <p>Implement, maintain and regularly review an inventory of inputs and outputs including emissions and consumption values</p>	<p>YES</p>	<p>NO</p>	<p>Holmfirth Dyers manages an inventory of all their chemicals, including orders, usage, current stocks and locations of such on site. This is managed through desktop auditing from the responsible representatives at Camira Group, as in the document 'HFD Chemical Desktop Audit' as well as in the online COSHH management software; Sypol CMS, produced by Alcumus Group Limited. This inventory also details the COSHH assessments and Material Safety Data Sheets (MSDS) of all stored chemicals, as well as noting their recorded location on the site.</p> <p>Company vehicles are registered and monitored with their use of fuels, as well as energy and water consumption. Water consumption is recorded via measurements of water abstraction and discharge quantities. The document 'Water Abstraction' details usage from the two permitted sources, borehole and river, as well as the consumption limits that must be adhered to. Holmfirth Dyers receives and documents return forms from the government detailing consumption from abstraction. Discharge rates are monitored continuously and recorded daily within the document 'Effluent Daily'. Effluent is also sampled by Yorkshire Water and these sample tests are recorded by Holmfirth Dyers.</p> <p>Energy usage is monitored and recorded through each avenue on site within the document Energy Dashboard, and further to this, Camira Group record and report Greenhouse Gas emissions within the document 'Camira Greenhouse Gas Emission Reporting Process and Workbook 2021,' which also documents emissions sources such as from refrigerants on site and electricity consumption. Stack on site at Holmfirth Dyers also undergoes emissions testing, which can be observed in the 'Stack Emissions' folder.</p> <p>The site utilises a new Electrostatic Precipitator (ESP) abatement systems in 2019, fitted with polypropylene demister cartridges, removing emission particles from waste gas streams. No butane, acetylene, or liquefied petroleum gases are used within site activities.</p>
<p>3</p> <p>Reduce Emissions During OTNOC</p> <p>Risk-Based OTNOC Management Plan</p> <p>Set Up and Implement a Risk-Based OTNOC Management Plan as Part of the EMS</p>	<p>YES</p>	<p>NO</p>	<p>The EMS utilised across the site is implemented according to the requirements of BS EN ISO 14001:2015. This incorporates management systems for emergency preparedness for all environmental aspects of the site, as well as OTNOC conditions.</p>

<p>4 Improve overall performance</p> <p>Process monitoring and control systems</p> <p>Use digital/online systems to monitor and adapt key process parameters for optimal processing</p>	<p>YES</p>	<p>NO</p>	<p>See the 'Holmfirth Non-Technical Summary' for descriptions of activities and processes carried out on the site at Holmfirth Dyers.</p> <p>To improve the efficacy of processing activities on site, chemicals can also be stored by the machinery when required/in use. An inventory of all chemicals on site is kept within the online COSHH management software; Sygol CMS, produced by Alcumus Group Limited. This inventory also details the COSHH assessments and Material Safety Data Sheets (MSDS) of all stored chemicals, as well as noting their recorded location on the site.</p> <p>Holmfirth Dyers operates under the conditions of an effluent discharge consent (Y-4824-20D) issued by Yorkshire Water which is the key parameter which legally requires monitoring on site.</p> <p>To help maintain compliance with the permitted volume, this is measured and monitored daily. Furthermore, the discharge rate is throttled to prevent exceeding the 26 l/s limit. The daily average throughput for the Effluent Treatment Plant in 2021 is 546.3m3</p> <p>Due to the chemicals and dyes used in the process, the effluent can become acidic and therefore must be treated before it is discharged. An Effluent Treatment Plant (ETP) is utilised on site, just prior to the point of effluent discharge. The plant uses chemical dosing of caustic soda (sodium hydroxide) in order to balance the pH levels to the parameters set out within the Consent to Discharge provided by Yorkshire Water. A system for automatic sampling and dosing is used to ensure pH levels at the discharge point are maintained within the compliance parameters.</p> <p>A continuous wheel is utilised to pass through the effluent before its discharge, picking up and extracting any solids within the effluent. Solids contained within the effluent consist of flock and residual yarn from the dyeing processes. The solids are collected in troughs adjacent to the ETP, where they are subsequently collected manually using waste bags and disposed of as general waste.</p>
<p>5 Improve overall performance</p> <p>Techniques for improved environmental performance</p> <p>Use of textile materials with low contaminant contents, and reduced processing needs</p>	<p>YES</p>	<p>NO</p>	<p>Camira Group have specified standards to produce finished products from natural fibres, which are specified by Camira before their use at Holmfirth Dyers. The materials deemed acceptable under the Camira specifications for core products produced at Holmfirth Dyers are deemed to have low content of contaminants.</p> <p>As well as this, raw materials are not processed on site at Holmfirth Dyers. The document 'Scope of Group Management Systems' which details that Holmfirth Dyers specifically carries out activities for dyeing, rather than raw material processing and treatment. Material is already processed into dyeable fabric by the production stage in which it reaches Holmfirth Dyers Ltd.</p>

6	Monitoring	Annual monitoring	Annual monitoring of parameters for consumption, waste generation, material usage/recovery	NO	<p>As partially explained above, Holmfirth Dyers Limited monitors three of the four parameter detailed within BAT 6 at least annually, as required.</p> <p>Annual consumption of water is measured as in the 'Water Abstraction' details usage from the two permitted sources, borehole and river, as well as the consumption limits that must be adhered to. Holmfirth Dyers receives and documents return forms from the government detailing consumption from abstraction.</p> <p>Discharge rates are monitored continuously and recorded daily within the document 'Effluent Daily'. Effluent is also sampled by Yorkshire Water and these sample tests are recorded by Holmfirth Dyers, showing evidence of waste water monitoring.</p> <p>Waste generated is monitored for each waste stream through contractor Duty of Care checks, and records of Waste Transfer Notes and Hazardous Waste Consignment Notes are kept for the legal requirements of two and three years, respectively. Evidence can be found in the documents 'Waste Management SOP,' and 'HFD Approved Waste Contractors 2022,' as well as some waste documentation records in Kirklees (HFD) General Waste - Season Ticket exp 30.06.22,' and 'Multifibres - Textile Residue (Holmfirth)-exp 30.06.22'.</p> <p>Materials are not recovered or re-used within any of the current activities carried out on site at Holmfirth Dyers, and as such are not recorded. Holmfirth Dyers aims to begin a process of material recovery and recording this as an environmental objective, during the transition period for BAT within the Textiles Industry.</p>
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<p>7 Monitoring Waste-water monitoring Monitor key parameters e.g. pH and temperature</p>	<p>YES</p>	<p>NO</p>	<p>Holmfirth Dyers monitor pH, flow rate and temperature, along with further parameters, according to the effluent discharge consent (Y-4824-20D) issued by Yorkshire Water.</p> <p>The effluent system utilises a continuous monitoring system to measure the pH of discharge. The plant uses chemical dosing of caustic soda (sodium hydroxide) in order to balance the pH levels to the parameters set out within the Consent to Discharge provided by Yorkshire Water. A system for automatic sampling and dosing is used to ensure pH levels at the discharge point are maintained within the compliance parameters.</p> <p>Yorkshire water samples discharge monthly from the site, monitoring further parameters as required by the Discharge Consent, such as sulphide, non-settleable solids and settleable solids, to name a few.</p> <p>Although temperature is not measured, all the parameters required by the discharge consent are, thus the waste-water is monitored to its legal standards, and Holmfirth Dyers is compliant with the BAT.</p>
<p>8 Monitoring Emissions to water Monitor to standard frequencies and techniques of standards in table</p>	<p>YES</p>	<p>NO</p>	<p>As above in BAT 6, records of the daily flow rate for effluent are found within the document 'Effluent Daily,' and further parameters are captured and recorded on a monthly basis by Yorkshire Water.</p>
<p>9 Monitoring Emissions to air Monitor to standard frequencies and techniques of standards in table</p>	<p>NO</p>	<p>NO</p>	<p>The site utilises a new Electrostatic Precipitator (ESP) abatement systems in 2019, fitted with polypropylene demister cartridges, removing emission particles from waste gas streams.</p> <p>The abatement system was tested for stack emissions on 23rd October 2019, as observed in the document 'LNO 15340 Camira Holmfirth Dyers Polyester FR Treated Report V1'. The stack emissions testing is carried out to the methodologies of multiple BS EN Standards, such as BS EN 14792:2017, by SOCOTEC UK, who are both UKAS and MCERTS accredited. Further stack emissions testing has not occurred.</p> <p>Holmfirth dyers intends to monitor all stack on site as required by the Environmental Permit for which this BAT application forms part of the application, and to at least the frequencies required by the standards included within BAT 9.</p>

10	Water use and waste generation	Water consumption and waste generation	Use of a variety of techniques provided	Bleaching (Batch): 3-48(2) m3/t yearly average	YES	NO	<p>Holmfirth Dyers limited extracts water from a borehole and the local surface-water body, the river Ribble. These activities are permitted by the Environment Agency, valid from 13th March 2000 until revoked, for the purposes of supplying the dyeing and wet-process activities undertaken on site. Holmfirth dyers are also amidst an application to increase the maximum abstraction rate of these licences.</p> <p>The document 'Water Abstraction' details usage from the two permitted sources, borehole and river, as well as the consumption limits that must be adhered to. Consumption is measured against production using the 'Abstraction Daily' document, in order to work towards Holmfirth dyers environmental objective to use water as efficiently as possible. Holmfirth Dyers receives and documents return forms from the government detailing consumption from abstraction, ensuring compliance.</p> <p>The document 'Water Management SOP (WI-COMP-021 R1)' also shows a water management plan developed by Camira Group for implementation at Holmfirth Dyers as detailed in BAT 10.</p> <p>During the solvent scouring carried out on site, when the steam and vapor condense, the water and solvent are once again separated, allowing for some re-use of the solvents. This method therefore reduces water pollution as well as energy cost and consumption, in comparison to other scouring methods.</p> <p>Jet-dyeing is utilised on site, which is more efficient for water-usage than traditional winch-dyeing, as well as more optimal for the use of process-liquors, as described as technique e in BAT 10. The process is economical as it uses a lower ration of dyeing liquor, while also using a lower consumption of water, providing further energy savings, and faster heating/cooling of fabric. Seven jet-dyeing units are utilised on site, installed in 2018.</p>
				Bleaching (Continuous): 3-8			
				Scouring of Cellulosic Materials (Batch): 2-43(3)			
				Scouring of cellulosic materials (Continuous): 2-20			
				Desizing of Cellulosic Materials: 2-20			
				Mercerisation: 2-13(4)			
				Washing of Synthetic Material (5-20)			
				Batch Dyeing (Fabric): 10-175(5)			
Batch Dyeing (Yarn): 3-140(6)							
Batch Dyeing (Loose Fibre): 13-62							
Continuous Dyeing: 2-16							

11	Energy Efficiency	Energy Efficiency plan	Use of a variety of techniques provided	YES	NO	<p>Some of the activities utilised by Holmfirth Dyers ensure increased optimisation for the use of energy, water and process liquors.</p> <p>Solvent scouring utilised on site involves the treatment of fabrics such as polyester and wool using a medium of organic solvent to remove impurities, such as dirt and oil. After being transported through solvent, the fabric passes through a chamber where steam is injected, rapidly evaporating solvent soaked into the fabric, and removing impurities along with it. When the steam and vapor condense, the water and solvent are once again separated, allowing for some re-use of the solvents. This method therefore reduces water pollution as well as energy cost and consumption, in comparison to other scouring methods.</p> <p>Jet dyeing is a modern dyeing process primarily used for synthetic fabrics, where both the fabric and dye liquor are in motion, enabling a dyeing process which is quicker and more uniform than other methods. Fabric is moved by the force of water at different speeds around a tube, while a jet of dye liquor is also pumped out from an annular ring. The high force and pressure of the dye liquor passing through the tube pulls the fabric with it, which moves slowly in folds around the machine before passing through the jet once more. The process is economical as it uses a lower ration of dyeing liquor, while also using a lower consumption of water, providing further energy savings, and faster heating/cooling of fabric. Seven jet-dyeing units are utilised on site, installed in 2018.</p>
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12	Energy Efficiency	Energy Efficiency when using compressed air	Use of a variety of techniques provided	NO	NO	<p>Holmfirth Dyers operates two air compressors. The primary 30kW compressor is supported by a secondary 15kW compressor when there is an increase in demand. The compressors deliver a maximum of 144 l/s and runs at 8bar of pressure.</p> <p>The compressors are used to power various process and ancillary equipment including cylinders, actuated valves, pneumatic motors, inflation of bellows for mangles, diaphragm pumps, air spray guns for perching, general cleaning of machines.</p> <p>The compressed air system is fitted with point-of-use valves to enable the isolation of single areas of the system when equipment is idle. The production of compressed air is stopped entirely during shutdown periods.</p> <p>Planned preventive maintenance aims to control system leakages through weekly inspection of all components including couplings, hoses, tubes, fittings, and pressure regulators. The system is also serviced by an external air compressor specialist at intervals determined by run hours.</p> <p>Warm cooling air generated in use of the air compressors is not recovered or reused.</p> <p>Technique a. is considered not applicable since it only relates to new plants or major plant upgrades.</p>
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13	Energy Efficiency	Energy Efficiency of thermal treatment	Use of a variety of techniques provided	Thermal Treatment: 0.5-4.4 MWh/t Yearly Average	YES	NO	<p>Holmfirth dyers utilises various thermal treatment techniques as part of its site activities, including heat setting, utilisation of tentering frames, and singing (sealing fabric with gas flame) .</p> <p>Heat setting is further treatment to the fabrics which aims to impart shape retention, crease resistance and elasticity to the fabric fibres. The process involves subjecting the fabrics to dry/hot air for a few minutes, which is then followed by cooling. For Holmfirth Dyers initial heat setting is a critical process, as it must be done prior to the wet-processes involved in dyeing, to avoid issues such as discolouration.</p> <p>Two tenter frames are utilised on site. These are machines which run continuously, applying heat uniformly across the inputted fabric while maintaining the desired product width. This can be used for drying and heat setting. Holmfirth Dyers utilises a enter frame before scouring to pre-treat textile material, and post-dyeing in order to heat set the output product. The tenter frames on site provide the output stack emissions to the two abated stack on site.</p> <p>The use of jet-dyeing on site utilises much less water as a site activity, and as such shows use of 'mechanical dewatering of textile materials' as in technique a of BAT 13.</p> <p>Technique c is deemed not applicable to the two tenter frames used on site, as the BAT details the technique is only applicable to new plants or majorly upgraded plants, of which the tenters utilised are not categorised as.</p>
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<p>14 Chemicals</p> <p>Chemicals management System</p> <p>Implement and maintain a Chemicals Management System as part of the EMS, including appropriate risk assessing and procurement policies</p>	<p>YES</p>	<p>NO</p>	<p>Holmfirth Dyers has implemented and utilises a Chemicals Management System as part of site activities. Chemicals are stored in multiple locations on the site as follows:</p> <ul style="list-style-type: none"> <li>- Main Chemical Store</li> <li>- Dye Store</li> </ul> <p>Chemicals can also be stored by the machinery when required/in use. An inventory of all chemicals on site is kept within the online COSHH management software; Sypol CMS, produced by Alcumus Group Limited. This inventory also details the COSHH assessments and Material Safety Data Sheets (MSDS) of all stored chemicals, as well as noting their recorded location on the site.</p> <p>Holmfirth Dyers Risk utilises chemicals selected and procure by Camira Group, who assess chemicals used based on their cost and potential to cause harm to workers and the environment, based on their chemicals' hazard classification. Camira Group have specified standards to produce finished products, which are specified by Camira before their use at Holmfirth Dyers. The materials deemed acceptable under the Camira specifications for core products produced at Holmfirth Dyers are deemed to have low content of contaminants.</p>
<p>15 Chemicals</p> <p>Chemical inventory</p> <p>implement an inventory and tracking system as part of the CMS</p>	<p>YES</p>	<p>NO</p>	<p>As above in BAT 14, a full inventory of chemicals stored and utilised on site is kept within the online COSHH management software; Sypol CMS, produced by Alcumus Group Limited. This inventory also details the COSHH assessments and Material Safety Data Sheets (MSDS) of all stored chemicals, as well as noting their recorded location on the site. The chemical inventory is audited periodically in person, as in the document 'HFD Chemical Desktop Audit'</p>
<p>16 Chemicals</p> <p>Reduce consumption level</p> <p>Use of a variety of techniques provided</p>	<p>YES</p>	<p>NO</p>	<p>The jet dyeing systems utilised on the site are far more economical on the use of process liquor's, as it uses a far lower ratio of dyeing liquor, relying instead on high pressure inside the machine to carry out the dyeing process.</p>

17	Chemicals	Reduce/prevent emissions to water of poorly biodegradable substances	Use of a variety of techniques provided	NO	NO	<p>The jet dyeing system utilised on site consumes less water than alternative dyeing processes, utilising less water at a high pressure to force material around the machine at a fast-pace, and utilising the high pressure generated through an injection of dye liquor to carry out the dyeing process. This technique therefore utilises fewer quantities of water and dying liquor, reducing overall emissions to water from site activities.</p> <p>The finishing activities at Holmfirth Dyers includes the provision of flame retardant application. One of the flame retardant applications contains Alkyl Phosphate (DB9). It is the intention of the facility to substitute this chemistry with a biodegradeable/bioeliminable substance within the next five years (2027).</p> <p>Technique's a and are considered not applicable since the facility does not process any alkylphenol based surfactants or mineral-oil based antifoaming agents.</p>
18	Emissions to water	Reduce volume of waste-water via waste-water management and treatment strategy	Use of a variety of techniques provided for the implementation of a waste-water management strategy	YES	NO	<p>As above in BAT 10 and 11, some process liquor's are re-used by Holmfirth Dyers in site activities through the solvent-scouring methods utilised. In the solvent-scouring process, when the steam and vapor condense, the water and solvent are once again separated, allowing for some re-use of the solvents. This method therefore reduces water pollution as well as energy cost and consumption, in comparison to other scouring methods</p>
19	Emissions to water	Pre-treat waste-water containing pollutants which can't be treated with biological techniques	Use techniques described based on pollutants targeted	N/A	N/A	<p>Wastewater is treated using the Effluent Treatment Plant on site, and discharged to foul drainage as permitted by Yorkshire Water, therefore BAT does not apply. Refer to 'Y-4824-20D Yorkshire Water Effluent Discharge Consent Rev2021'</p>

<p>20 Emissions to water</p> <p>Techniques to reduce emissions to water</p> <p>Use of a variety of techniques provided</p> <p>Table 5.3 Table 5.4</p>	<p>YES</p>	<p>NO</p>	<p>The effluent treatment utilised by Holmfirth dyers utilises a continuous wheel to pass through the effluent before its discharge, picking up and extracting any solids within the effluent. Solids contained within the effluent consist of flock and residual yarn from the dyeing processes. The solids are collected in troughs adjacent to the ETP, where they are subsequently collected manually using waste bags and disposed of as general waste.</p> <p>The Effluent Treatment Plant also uses chemical dosing of caustic soda (sodium hydroxide) in order to balance the pH levels to the parameters set out within the Consent to Discharge provided by Yorkshire Water. A system for automatic sampling and dosing is used to ensure pH levels at the discharge point are maintained within the compliance parameters.</p> <p>Furthermore, as previously stated, quantity/flow of discharge is measured and recorded daily in order to ensure compliance with the Discharge Consent. See the documents HDB303 - Point Source Emissions and HFDB305k - YW Effluent Sample Data Collated to see evidence that the site has not breached the limits of the discharge consent.</p>
<p>21 Emissions to soil and groundwater</p> <p>Techniques to reduce emissions to soil and groundwater</p> <p>Use of a variety of techniques provided</p>	<p>YES</p>	<p>NO</p>	<p>An automatic system is used for monitoring effluent discharge from the site, for flow rate and pH, to mitigate the likelihood of discharge overflows or breaching the rules of the Discharge Consent provided by Yorkshire Water.</p> <p>Equipment and machinery on site is inspected regularly to ensure proper functioning. Chemical storage is being transferred to a single 'Main Chemical Storage Area,' where all chemicals will be stored using bunding equal to 110% or more of the volume of the chemicals stored. Central storage of chemicals is anticipated to improve the efficiency of chemical handling and transport for site activities, as only required chemicals will then be transported via FLT to the activity area.</p>

<p>22 Emissions to air</p> <p>Reduce diffuse VOC emissions from organic solvents</p> <p>Collect diffuse emissions and send waste gases to treatment</p>	<p>NO</p> <p>NO</p>	<p>Collecting diffuse emissions and waste-gas treatment is deemed to be restricted for the plant on site by their operation, and by the high volume of air that would require extracting, e.g. for the tenting frame stack, hence the use of the installed abatement system.</p> <p>The site utilises a new Electrostatic Precipitator (ESP) abatement systems in 2019, fitted with polypropylene demister cartridges, removing emission particles from waste gas streams.</p> <p>The abatement system was tested for stack emissions on 23rd October 2019, as observed in the document 'LNO 15340 Camira Holmfirth Dyers Polyester FR Treated Report V1'. The stack emissions testing is carried out to the methodologies of multiple BS EN Standards, such as BS EN 14792:2017, by SOCOTEC UK, who are both UKAS and MCERTS accredited. Further stack emissions testing has not occurred.</p> <p>Holmfirth dyers intends to monitor all stack on site as required by the Environmental Permit for which this BAT application forms part of the application, and to at least the frequencies required by the standards included within BAT 9.</p>
<p>23 Emissions to air</p> <p>Facilitate recovery of energy and reduce channelled emissions to air</p> <p>Limit the number of emissions points/sources</p>	<p>YES</p> <p>NO</p>	<p>The primary emissions points on the site of Holmfirth Dyers can be observed within the document 'HFD Emissions Points,' in locations A1 and A2. These stack connect to the flue of the two tenting frames used on site, which are known to release the greatest rate/volume of channelled emissions to air.</p> <p>Holmfirth Dyers shows evidence of reducing the number of emissions points here, as the two frames join together in flue to emit from only Point A1 in normal operations. Combining this reduction with the Electrostatic Precipitator Abatement system allows for significantly reduced emissions as highlighted within the stack emissions report 'LNO 15340 Camira Holmfirth Dyers Polyester FR Treated Report V1'. Point A2 is only used as a bypass emissions point, where the abatement system requires stopping for works or testing, emissions are redirected to Point A2, however this occurs very infrequently. This emissions system ensures more effective and efficient treatment from the abatement system as highlighted within BAT 23.</p> <p>Further reduction in emissions points is highlighted through the large chimney stack on the site A4, which combines the emissions of the two boilers on site, as well as the drying tumbler.</p>

24	Emissions to air	Prevent channelled emissions of organic compounds from dry cleaning and solvent scouring	Extract and treat air from processes with activated carbon and recirculate		NO	NO	<p>Currently Holmfirth Dyers does not capture air from dry cleaning or solvent scouring, and so does not treat or recirculate emissions to reduce channelled emissions to air.</p> <p>A closed system is utilised where process oil is extracted and sampled prior to its collection. Additionally, an 'Air-Sniffer' is used to monitor the ppm content.</p> <p>Holmfirth Dyers anticipates the implementation of the techniques detailed in BAT 24 within the transition period of the redrafted 'Best Available Techniques (BAT) Reference Document for the Textiles Industry' (IED 2010/75/EU), and intends to monitor and prevent/limit all channelled emissions to air as required by the Environmental permit for which this assessment forms part of the application.</p>
25	Emissions to air	Reduce channelled emissions of organic compounds to air from pre-treatment of Knitted Synthetic Textiles	Wash them prior to Thermofixation/Heat Setting		N/A	N/A	<p>Holmfirth Dyers forms the dyeing phase of the textile production line of Camira Fabrics Product Line. As a result, textiles which are treated and processed on site at Holmfirth Dyers are already subject to washing and pre-treatment processes at a separate site prior to their arrival to the site, and as such BAT 25 is not deemed applicable to the activities carried out at Holmfirth Dyers Ltd.</p>
26	Emissions to air	Prevent/reduce channelled emissions of organic compounds from singeing/thermal treatment/coating and lamination	Use of techniques provided	<p>Formaldehyde: 1-5mg/Nm<sup>3</sup> average over the sampling period</p> <p>TVOC: 3-40(5), 100</p>	YES	NO	<p>The primary emissions points on the site of Holmfirth Dyers can be observed within the document 'HFD Emissions Points,' in locations A1 and A2. These stack connect to the flue of the two tentering frames used on site, which are known to release the greatest rate/volume of channelled emissions to air.</p> <p>The stack emissions report 'LNO 15340 Camira Holmfirth Dyers Pre Set Report V1' provides the sampling resulting in the highest rate of formaldehyde emissions of products tested. This comes to a rate of 1.9mg/Nm<sup>3</sup> average over the sampling period, with an uncertainty of 0.21mg/Nm<sup>3</sup>. This therefore falls within the AEL limits of formaldehyde provided as part of BAT 26, hence Holmfirth Dyers operates according to the BAT, from the selection and use of recipes on site, as detailed in technique a.</p>
27	Emissions to air	Reduce dust emissions from singeing and thermal treatments, excluding thermofixation and heat-setting	Use of techniques provided	Dust: <1-10mg/Nm <sup>3</sup> average over the sampling period, 50g/h mass flow threshold	N/A	N/A	<p>Dust is not produced as a result of the activities on site. Thermofixation and Heat Setting by use of the tenter frames and sperotto on site make up the only thermal treatments utilised, thus Holmfirth Dyers is excluded from BAT 27.</p>

<p>28 Emissions to air</p> <p>Prevent/reduce channelled ammonia emissions to air from coating/printing/finishing (including associated thermal treatments)</p> <p>Use of techniques provided</p> <p>NH3: 3-10mg/Nm3 average over the sampling period, 50g/h mass flow threshold</p>	<p>YES</p>	<p>NO</p>	<p>The tenting frames utilised on site represent the greatest emitters of ammonia on site at Holmfirth Dyers from an associated thermal treatment within the relevant activities highlighted by BAT 28</p> <p>The stack emissions reports provided for the abatement system installed for the two tenting machines utilised on site 'LNO 15340 Camira Holmfirth Dyers Polyester Non FR Treated Report V1' shows the highest result for ammonia reported at 0.96mg/m3, at 20g/hr. This falls below the AEL values set out by BAT 25.</p>
<p>29 Waste</p> <p>Prevent and reduce quantity of waste</p> <p>Use of techniques provided</p>	<p>YES</p>	<p>NO</p>	<p>Holmfirth Dyers incorporates a Waste Management Plan which can be located as the document 'Waste Management SOP'. The implementation of this SOP is designed to fill all of the criteria set out within the BAT, as well as form part of a management system based on the standard BS EN ISO 14001:2015. Waste generation is restricted to that produced within site processes, with previous BAT indicating how materials are maximised and efficiency optimised where possible for waste reduction. Holmfirth Dyers recycles waste where possible, as indicated by the annual waste transfer note for cardboard waste 'Sonoco (HFD) Cardboard - Season Ticket exp 30.06.22'. As shown by the SOP, Duty of Care checks are also carried out for all waste contractors, to ensure the proper disposal of waste. A register of waste contractors and Duty of Care checks is located as the document 'HFD Approved Waste Contractors 2022'.</p> <p>The timely use of process chemicals is incorporated within all site activities, and ensure through the use of the Chemical Management System detailed within BAT 14.</p> <p>The reuse/recycling of packaging is indicated again by the recycling of relevant waste streams such as cardboard, which is produced only through imported goods packaging from the site.</p> <p>Finally, chemicals are to be returned as and when deemed unrequired or unused where necessary as part of the Waste Management System implemented to Holmfirth Dyers by Camira Fabrics, in line with Technique d described within BAT 29.</p>
<p>30 Waste</p> <p>Improve overall environmental performance of handling of waste</p> <p>Use of technique provided (separate collection and storage of hazardous and non-hazardous waste) prior to waste collection and disposal</p>	<p>YES</p>	<p>NO</p>	<p>As above in BAT 29, Holmfirth Dyers operates to the standard of BAT 30 through use and implementation of the Waste Management Plan of which the document 'Waste Management SOP' forms the basis. The operating procedure focusses on segregation of hazardous waste, to ensure its appropriate and legal disposal.</p>

31	Resource efficiency	Recover wool-grease and recycle waste water	Treat waste-water from wool scouring (using centrifugation and sedimentation)	Coarse wool (wool fibre diameter greater than 35 micrometres): 11-15kg of recovered grease per tonne of raw wool pre-treated yearly average AEPL  Extra and Super fine wool (fibre diameter less than 20 micrometres): 50-60kg of recovered grease per tonne of raw-wool pre-treated yearly average AEPL	YES	YES	
32	Energy Efficiency	Use energy efficiently for pre-treatment processes	Use of techniques provided		YES	YES	
33	Resource efficiency and waste reduction	Biologically treat organic residues from the pre-treatment of wool by scouring	Treat organic residues using composting or anaerobic digestion		N/A	N/A	
34	Emissions to water	Reduce emissions to water from use of sizing chemicals	Use of techniques provided		N/A	N/A	
35	Emissions to air/water	Reduce emissions to air and water from use of oils	Avoid use of mineral oils in spinning and knitting		N/A	N/A	
36	Energy Efficiency	Use energy efficiently for yarn/fabric production	Use of techniques provided to increase energy efficiency		N/A	N/A	
40	Resource efficiency	Reduce emissions to water from dyeing and use resources more efficiently	Use of a variety of techniques provided		YES	NO	Jet-dyeing is utilised on site, which is more efficient for water-usage than traditional winch-dyeing, as well as more optimal for the use of process-liquors, as described as technique e in BAT 40. The process is economical as it uses a lower ration of dyeing liquor, while also using a lower consumption of water, providing further energy savings, and faster heating/cooling of fabric. Seven jet-dyeing units are utilised on site, installed in 2018.



<p>41 Resource efficiency</p> <p>Reduce emissions to water from dyeing of cellulosic materials</p> <p>Use of a variety of techniques provided</p>	<p>NO</p> <p>NO</p>	<p>Holmfirth Dyers processes according to customer specification and in accordance with textile characteristics. High levels of fixation when processing wool products is achieved by using wool specialised a-Bromoacrylamide reactive dyes. Bifunctional dyes are used for cotton based products.</p> <p>Rinsing of products after reactive dyeing is carried out at 85°C with no detergent. <b>The heat from rinsing water is not currently recovered.</b></p> <p>Technique's a, b are considered not applicable since Holmfirth Dyers does not utilise sulphur and vat dyeing methods. Further, Holmfirth Dyers does not undertake any cold pad-batch dyeing, therefore techniques d and f are not applicable.</p> <p>Due to the characteristics of the textiles processed and customer specification, reactivities dyes are not currently fixed with steam, therefore technique f is considered not applicable.</p>
<p>42 Emissions to water</p> <p>Reduce emissions to water from dyeing of wool</p> <p>Use of a variety of techniques provided, in order of priority</p>	<p>YES</p> <p>NO</p>	<p>Holmfirth Dyers processes its products to meet customer requirements. Some colours in wool are processed using reactive dyes, others are processed using acid and/or metal-complex dyes.</p> <p>Dyeing with metal-complex dyes is carried out under optimised conditions in terms of pH, auxiliaries and acid, in order to achieve optimal exhaustion of the dyeing liquor.</p> <p>Technique c is considered not applicable to Holmfirth Dyers since no chrome dyes are used in the process.</p>
<p>43 Emissions to water</p> <p>Reduce emissions to water from dyeing of polyester with disperse dyes</p> <p>Use of a variety of techniques provided</p>	<p>NO</p> <p>NO</p>	<p>Holmfirth Dyers process all polyesters at temperatures ranging 130-135°C depending on the recipe. Although processed irregularly, polyester-wool blends use specialised dyestuffs that are free from chlorine and have biodegradable properties.</p> <p><b>Desorption accelerator is based on an acid derivative. Customer product specifications, particularly those with flame retardant properties, restrict some use of disperse dyes</b></p>
<p>48 Easy-care finishing</p> <p>Reduce emissions of formaldehyde from easy-care finishing of cellulosic materials</p> <p>Use cross-linking agents with no/low potential for formaldehyde releases</p>	<p>N/A</p> <p>N/A</p>	

49	Softening	Improve environmental performance of softening	Use of techniques provided	N/A	N/A	
50	Flame retardants	Improve environmental performance of finishing with flame retardants	Use of techniques provided, prioritise technique a	N/A	N/A	
51	Oil, water and soil repellents	Improve environmental performance of finishing with oil, water and soil repellents	Use repellents with improved environmental performance through advice provided	N/A	N/A	
52	Wool shrink-proofing	Reduce emissions to water from shrink-proof finishing of wool	Use chlorine-free antifelting	N/A	N/A	
53	Mothproofing	Reduce consumption of mothproofing agents	Use of a variety of techniques provided	N/A	N/A	
	Wool scouring	Effluent treatment in wool scouring sector (water-based process)	Combine use of dirt removal/grease recovery loops with evaporative effluent treatment	N/A	N/A	Holmfirth Dyers does not pre-treat raw wool fibres, fibres treated within the activities on site at Holmfirth Dyers are spun and woven prior to their delivery to the site, as Holmfirth Dyers makes up the dyeing stage of the Camira Fabrics Production Line, therefore BAT does not apply to the site activities.
	Sludge Disposal	Treatment of sludge from waste-water treatment of wool-scouring effluent	Use sludge in brick-making/adopt other appropriate recycling routes Or incinerate the sludge with heat recovery, controlling emissions to air	N/A	N/A	Holmfirth Dyers does not pre-treat raw wool fibres, fibres treated within the activities on site at Holmfirth Dyers are spun and woven prior to their delivery to the site, as Holmfirth Dyers makes up the dyeing stage of the Camira Fabrics Production Line, therefore BAT does not apply to the site activities.  Sludge is not produced as a waste by-product of activities carried out on site at Holmfirth Dyers. Effluent treated at the Effluent Treatment Plant on site is treated using caustic soda to raise pH levels, and fibres and solids are removed from the effluent through use of a continuous rotary mechanical system. As sludge is not produced, the BA is therefore not applicable to the activities carried out on site at Holmfirth Dyers.

[Holmfirth-BAT Assessment.xlsx](#)

## Management plans

### Odour management plan

EA ref: part B3, sections 3b

Holmfirth Dyers Odour Management Plan is documented in full and can be found in the link at the bottom of this section.

The key aspects of the Odour Management Plan are available below for summary review.

#### Odour control measures

Odour emissions from the factory are categorised as “Less Offensive”. This category has been determined from H4 Odour management EA guidelines.

The risk of odour issues can be vastly reduced or eliminated due to the following control measures being in place or are adhered to:

Source	Control Measures
Intake and handling of raw materials	<ol style="list-style-type: none"> <li>1. The majority of raw materials delivered to site are in bulk, and stored within appropriate containers such as IBCs, preventing odour emissions</li> <li>2. Almost all raw materials are stored within the confines of the facility.</li> <li>3. All deliveries are supervised by a competent member of HFD staff.</li> </ol>
Storage of raw materials	<ol style="list-style-type: none"> <li>1. Raw materials in batches are stored and moved inside the facility storage units.</li> </ol>
Raw Material Processing and Site Activities (tentering, hydro-washing, dyeing and dry cleaning)	<ol style="list-style-type: none"> <li>1. All production activities take place within the confines of the Facility.</li> <li>2. Abatement system is integrated to emissions from the tentering units and is subject to regular maintenance.</li> </ol>
Effluent treatment	<ol style="list-style-type: none"> <li>1. The Effluent Treatment Plant undergoes regular maintenance</li> <li>2. ETP is housed inside the effluent building</li> <li>3. Solids are collected from effluent continuously by ETP so as to minimise the potential impact upon sewerage and reduce effluent sludge.</li> <li>4. Leaks and spills are dealt with according to Emergency Spillage procedure.</li> <li>5. There are emergency procedures in place should the plant fail.</li> <li>6. The prevailing wind path is to the North, East and North East of the site and any odour would be dispersed before it reaches a sensitive receptor due to the size of the site .</li> </ol>
Transfer of finished products	<ol style="list-style-type: none"> <li>1. Doors to buildings will be kept shut during unloading and loading operations and at all other times that access isn't required.</li> </ol>

In addition to these the following general control measures are in place on site:

1. Regular visual checks are undertaken of the drainage channels and any blockages cleared as soon as is reasonably practicable;

2. All complaints are taken seriously and investigated to the best of HFD ability and reported to the Environment Agency where applicable.

3. A bespoke Environmental Management System is in place. The Group Risk and Compliance department shall be responsible for ensuring that odour control measures outlined are adhered to.

4. Investigations are based around and documented using the Odour Complaint Report Form which can be found under Appendix 1 of the Odour Management Plan. On receipt of a complaint, the residential area shall be visited and assessed immediately, or if this was not possible then on a day with the same weather conditions and approximately same time as far as reasonably practicable

**Useful links to Camira resources:**

[Holmfirth Dyers Limited - Odour Management Plan](#)

**Noise management plan**

*EA ref: part B3, sections 3b*

Holmfirth Dyers Noise Management Plan is documented in full and can be found in the link at the bottom of this section.

The key aspects of the Noise Management Plan are available below for summary review.

**Noise control measures**

As per the table below, noise emissions from the factory range from “Low” to “Significant”.

The risk of noise issues can be vastly reduced or eliminated due to the following control measures being in place or are adhered to:

Source	Control Measures
Handling and loading of goods in	<ol style="list-style-type: none"> <li>1. Goods being delivered to site shall be received at the loading dock in the 'back-yard' where there are limited noise sensitive receptors.</li> <li>2. All deliveries shall be received between 7am and 7pm.</li> <li>3. Workplace transport used during the unloading process shall be fitted with white noise reversing beacons.</li> <li>4. All deliveries are supervised by a competent member of HFD staff.</li> </ol>
Processing Activities (Tenter, dyeing, tumbling, drying)	<ol style="list-style-type: none"> <li>1. Doors shall be closed wherever possible to prevent the escape of process noise.</li> <li>2. Ventilation systems shall be subject to regular maintenance to ensure minimal vibration; times shall also be restricted to operate between 7am and 9pm.</li> <li>3. Floors shall be maintained to ensure smooth surface and reduced vibration.</li> <li>4. Wheeled carts shall be specified to ensure use of shock absorbing materials where possible.</li> </ol>
Handling and loading of goods out	<ol style="list-style-type: none"> <li>1. All loading activities shall only take place between 7am and 5pm.</li> <li>2. Adequate time shall be allowed to the loading process to prevent increased FLT speed causing increased stillage vibration.</li> <li>3. Workplace transport used during the unloading process shall be fitted with white noise reversing beacons.</li> <li>4. All loading activities are supervised by a competent member of HFD staff.</li> </ol>

In addition to these the following general control measures are in place on site:

1. Regular checks are undertaken of the pipework and ducting to ensure good working order.
2. All equipment is subject to routine maintenance and kept in good working order.
3. All complaints are taken seriously and investigated to the best of HFD ability and reported to the Environment Agency where applicable.
4. A bespoke Environmental Management System is in place. The Group Risk and Compliance department shall be responsible for ensuring that noise control measures outlined are adhered to.
5. Investigations are based around and documented using the Noise Complaint Report Form which can be found under Appendix 1 of the Noise Management Plan. On receipt of a complaint, the residential area shall be visited and assessed immediately, or if this was not possible then on a day with the same weather conditions and approximately same time as far as reasonably practicable

**Useful links to Camira resources:**

[Holmfirth Dyers Limited - Noise Management Plan.pdf](#)

## **Cleaning management plan**

*EA ref: part B3, sections 3b*

Chemicals in use are stored close to the relevant process and machine, throughout the facility. Stock chemicals are stored in the internal bunded chemical store.

An inventory of all chemicals on site is kept within the online COSHH management software; Sypol CMS, produced by Alcumus Group Limited. This inventory also details the COSHH assessments and Safety Data Sheets (SDS) of all stored chemicals, as well as noting their recorded location on the site.

[Stock Management SOP .xism](#)

## **Water management plan**

*EA ref: part B3, sections 3b*

The facility utilises both the local inland water source of the River Ribble, as well as a borehole not exceeding a depth of 49 metres for water abstraction and supply to the site. These activities are permitted by the Environment Agency until permits are revoked, effective from March 2000, for the purpose of supplying the dyeing processes undertaken on site.

Water consumption through both methods of abstraction is measured monthly and recorded, to ensure compliance with the consumption limits set by the abstraction permits.

Holmfirth Dyers Limited operates under the conditions of an effluent discharge consent (Y-4824-20D) issued by Yorkshire Water. The latest version was issued in 2021 and incorporated an allowance for increased volume.

To help maintain compliance with the permitted volume, this is measured and monitored daily. Furthermore, the discharge rate is throttled to prevent exceeding the 26 l/s limit. The daily average throughput for the Effluent Treatment Plant in 2021 is 546.3m<sup>3</sup>

[Water Management SOP \(WI-COMP-021 R1\).pdf](#)

## **Land & groundwater management plan**

*EA ref: part B3, sections 3b*

Holmfirth Dyers Limited has not conducted a land and groundwater assessment, and therefore does not currently have a land and groundwater management plan.

A land and flood risk report was compiled in June 2022. Recommendations included the following action is taken in the short-medium term:

1. Understand risk by assessing the potential flood depths. This will reassess the extent of risk and inform the best strategy to protect against any future flooding. Determine whether flooding has occurred in the area before. Establish the availability of buildings and contents insurance.

2. Review both historical risk and current management with an Environmental Audit. The inspection will review current operations and provide advice on reducing risk as well as confirming with the Local Authority whether the Site is likely to have a contaminated land liability.

[Ribblesden Dye Works - Environmental search result.PDF](#)

# Monitoring plans

## Monitoring requirements

EA ref: part B3, sections 4a, 4b

Aspect	Monitoring requirements	Further detail	Frequency
Process parameters	In order to improve the overall environmental performance, BAT 4 is to use advanced process monitoring and control systems.	Key process parameters include: <ul style="list-style-type: none"> <li>• volume, pH and temperature of the process liquor;</li> <li>• amount of textile materials treated;</li> <li>• dosage of process chemicals;</li> <li>• drying parameters (see also BAT 13 (d)).</li> </ul>	Continual
Throughput, inputs and outputs	BAT 6 is to monitor production throughput and associated inputs and outputs.	<ul style="list-style-type: none"> <li>• the annual consumption of water, energy and materials used, including textile materials and process chemicals;</li> <li>• the annual amount of waste water generated;</li> <li>• the annual amount of materials recovered or reused;</li> <li>• the annual amount of each type of waste generated and sent for disposal.</li> </ul>	Monthly/ Annual
Trade effluent	For waste water streams, BAT 7 is to monitor key parameters (e.g. continuous monitoring of waste water flow, pH and temperature)	See trade effluent consent for monitoring conditions	Daily
Stack emissions	BAT 9 is to monitor channelled emissions to air with at least the frequency given above and in accordance with EN standards. If EN standards are not available, BAT is to use ISO, national or other international standards that ensure the provision of data of an equivalent scientific quality.	Refer to page 817 of <a href="https://eippcb.jrc.ec.europa.eu/sites/default/files/2022-03/TXT_Final_draft_B-W.pdf">https://eippcb.jrc.ec.europa.eu/sites/default/files/2022-03/TXT_Final_draft_B-W.pdf</a>	Annual
Energy efficiency	BAT 11, 12, 13 In order to use energy efficiently, BAT 11 is to use techniques (a), (b) (c) and (d), and an appropriate combination of the techniques (e) to (k) given below. In order to increase energy efficiency when using compressed air, BAT 12 is to use a combination of the techniques (see technique c). In order to increase the energy efficiency of thermal treatment, BAT 13 is to use advanced process monitoring and control of drying (d).	Refer to page 821-22 of <a href="https://eippcb.jrc.ec.europa.eu/sites/default/files/2022-03/TXT_Final_draft_B-W.pdf">https://eippcb.jrc.ec.europa.eu/sites/default/files/2022-03/TXT_Final_draft_B-W.pdf</a>	Annual
Raw materials	In order to prevent or reduce the generation of waste and to reduce the quantity of waste sent for disposal, BAT 29 is to control the timely use of process chemicals (b).	Criteria are clearly established associated for example with maximum storage time of process chemicals, and relevant parameters are monitored to avoid process chemicals perishing.	Monthly
Abstraction	River and Borehole Abstraction Licences.	Record volume abstracted daily and retain records for 7 years.	Daily/Monthly/Annual
Flood	During periods of increased rainfall, monitor <a href="https://check-for-flooding.service.gov.uk/alerts-and-warnings">https://check-for-flooding.service.gov.uk/alerts-and-warnings</a> . Ensure key staff have signed up for flood warnings: <a href="https://www.gov.uk/sign-up-for-flood-warnings">https://www.gov.uk/sign-up-for-flood-warnings</a>	<a href="https://check-for-flooding.service.gov.uk/alerts-and-warnings?q=HD9%20DP&amp;v=map&amp;lyr=mv.ts.t.w.ta&amp;ext=-1.847718,53.547155,-1.722288,53.590914">https://check-for-flooding.service.gov.uk/alerts-and-warnings?q=HD9%20DP&amp;v=map&amp;lyr=mv.ts.t.w.ta&amp;ext=-1.847718,53.547155,-1.722288,53.590914</a>	Contextual
Noise	Noise Management Plan	Adherence to operational time constraints. Equipment in good working order.	Continual

<b>Odour</b>	Odour Management Plan	Regular visual checks are undertaken of the drainage channels and any blockages cleared as soon as is reasonably practicable; Abatement systems in good working order. Visual check of emission colour.	<b>Continual</b>
<b>Climate change</b>	Climate Change risk assessment	Rising temperatures and the effect on water supply and air cooling capabilities. Increased rainfall and the effect on flooding.	<b>Annual</b>



# Improvement plans

## Improvement opportunities

EA ref: part B3, sec 6a-c

Aspect	Action	Timeframe	Budget
Stack emissions	Undertake dispersion modelling	Q3 2022	<£8k
Environmental Management	Achieve 14001 certification	Q4 2022	<£2.5k
Noise	Upgrade ventilation systems	Q4 2022	£??
Land & groundwater	Undertake baseline intrusive survey	2023	<£20k
Trade effluent	Upgrade sample machine to current Yorkshire Water specification	2023	<£10k
Boiler flues	Upgrade two flue to meet the requirements of BS EN 15259	2023	£??
BAT 9/BAT 22 - Stack emissions	Undertake abatement stack, and boiler/tumbler emission monitoring	2023	<£6k
Noise	Improve running surface and wheel materials to mitigate noise	2023	~£30k
Noise	Install soft close roller shutter door to dry cleaner area	2023	<£10k
Noise	Upgrade FLT's to electric	2023	£1088 pcm
Waste	Implement Group waste management broker (FPWM)	2023	£??
Flood	Prepare flood defence plan	2023	£??
Water resources	Increase abstraction licence limits	2022	£??
BAT 6 - Inputs & Outputs	Implement materials recovery strategy. Monitor and measure.	2023	£??
BAT 12 - Energy efficiency	Implement recovery/reuse strategy for warm cooling air generated by air compressor use	2023	£??
BAT 24 - Dry cleaning	Implement strategy to treat or recirculate air emissions from dry cleaner.	2023	£??
Flood	Install flood defence barriers (needs validation)	2025	£??
BAT 41 - Resource efficiency	Implement strategy to recover heat from rinsing water used in winch vessels	2025	£??
BAT 17 - Chemicals	Substitute flame retardant application containing Alkyl Phosphate (DB9)	2027	£??
Management Systems	<a href="#">Business Management Systems - Opportunities Register - Open Opportunities (sharepoint.com)</a>	Various	Various

# External document references

## Index

Doc Title / Link	Chapter	EA form ref.
Group Structure	Company Overview	part A, sec 1, 5a, 5b
Legal notice	Company Overview	part A, sec 1, 5a, 5b
<a href="https://www.gov.uk/guidance/develop-a-management-system-environmental-permits">https://www.gov.uk/guidance/develop-a-management-system-environmental-permits</a>	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Scope of the Environmental Management System	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Organisation Context - SharePoint Page	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
HFD Context & Issues Survey 2022	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Leadership - SharePoint Page	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Group Environmental Policy	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Planning - SharePoint Page	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Environmental Aspects & Impacts - SharePoint Page	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Environmental Aspects & Impacts - HFD 2022	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Risk Assessment	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Objectives	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
HFD Disaster Recovery Plan	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
HFD Assets & Calibration Register	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
HFD Skills Matrix	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
HFD Document Library	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Group Documented Information Protection & Control Policy	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Information Classification, Labelling and Handling Policy	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Risk & Compliance - Legal Register	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Energy Dashboard	Control Systems	part B2, sec 3d, & part B2.5, sec 3c

Tenter emissions testing report	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Group Chemical Compound Analysis	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Yorkshire Water Sampling Results	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Non-conforming Process SOP	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Non-conforming Product Procedure	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Accident & Incident Reporting Standard	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Incident Investigation Form	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Complaints Log	Control Systems	part B2, sec 3d, & part B2.5, sec 3c
Y-4824-20D Yorkshire Water Effluent Discharge Consent	Permits & Exemptions	part B2, sections 4
HFD daily effluent discharge	Permits & Exemptions	part B2, sections 4
Yorkshire Water Sampling Results	Permits & Exemptions	part B2, sections 4
2-27-10-082 Environment Agency Abstraction Licence River Rev2000	Permits & Exemptions	part B2, sections 4
2-27-10-083 Environment Agency Abstraction Licence Borehole Rev2000	Permits & Exemptions	part B2, sections 4
Water Abstraction Log	Permits & Exemptions	part B2, sections 4
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Borehole Abstraction EA Returns	Permits & Exemptions	part B2, sections 4
River Abstraction EA Returns	Permits & Exemptions	part B2, sections 4
Waste Carriers Registration	Permits & Exemptions	part B2, sections 4
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HFD - CH19 Manufacture Product SIPOC	Process Descriptions	
HFD Preventive Maintenance Schedule - Export July 2022	Inputs - Equipment & Vehicles	part B2, sections 5c
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HFD Effluent Discharge Consent (Y-4824-20D)	Output - Emissions	part B2, sections 5c
Water Management SOP (WI-COMP-021 R1)	Output - Emissions	part B2, sections 5c
Trade Effluent Treatment Process Flow	Output - Emissions	part B2, sections 5c
Holmfirth Trade Effluent Sampling Machine Parameters	Output - Emissions	part B2, sections 5c
Air Conditioning - SharePoint Site	Output - Emissions	part B2, sections 5c
Waste Management - SharePoint Site	Output - Waste	part B2, sections 5c
Waste Management SOP	Output - Waste	part B2, sections 5c
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Noise Management Plan	Output - Noise & Odour	
<a href="https://www.gov.uk/government/publications/adapting-to-climate-change-risk-assessment-worksheets">https://www.gov.uk/government/publications/adapting-to-climate-change-risk-assessment-worksheets</a>	Risk Assessment	part B2, sections 6
<a href="https://www.gov.uk/government/publications/adapting-to-climate-change-risk-assessment-worksheets/how-to-fill-in-a-climate-change-risk-assessment-worksheet">https://www.gov.uk/government/publications/adapting-to-climate-change-risk-assessment-worksheets/how-to-fill-in-a-climate-change-risk-assessment-worksheet</a>	Risk Assessment	part B2, sections 6
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<a href="https://eippcb.jrc.ec.europa.eu/sites/default/files/2022-03/TXT_Final_draft_B-W.pdf">https://eippcb.jrc.ec.europa.eu/sites/default/files/2022-03/TXT_Final_draft_B-W.pdf</a>	BAT Compliance	
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