



ClearStream

By ZDHC

### Organization Name

IRIS Fabrics Ltd.

### Address

Zirani Bazar, Kashimpur, Gazipur Gazipur Dhaka  
Bangladesh

### Email

admin@irisgroupbd.com

### Telephone

01817049518

### ZDHC ID

A929RW89

### HIGG ID

22326

### OAR ID

BD20190831T4WMC

### TRID

TR154JW55

### Wastewater Guideline

ZDHC Wastewater Guideline v2.1

### Reporting Cycle

2024-Apr

### Reporting Date

16-03-2024

### Sample Date

02-03-2024

## IRIS Fabrics Ltd. Overview

### Sector

Apparel

### Materials

Natural Fibers - Plant based origin

### Processes

Articles (Apparel, Footwear, Trim), Dyeing,  
Embroidery (Panel and fabric embroidery), Fini...

### Sample Locations

Effluent, Untreated, Sludge

### Discharge Type

Direct

### Fibre Type

-

### Pre-Treatments

Sludge handling

### Major Sludge Pathway

A. Offsite Incineration at >1000 oC

### % Representation of Sludge Disposal

100%

### Average Total Wastewater Generated

821.48 m3/day

## HIGH LEVEL PERFORMANCE

The section below shows the high-level results from your Laboratory test report in context with the ZDHC Wastewater Guidelines and scoring methodology. The numbers below display scoring of parameters tested that meet requirement set forth by the ZDHC Wastewater Guidelines.

47/57

Conventionals and  
Anions

199/199

MRSL

36/36

Metals



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## PERFORMANCE BREAKDOWN

The section below shows the detailed results from your Laboratory test report in context with the ZDHC Wastewater Guidelines and scoring methodology.

### MRSL

■ Meets Requirements   
 ■ Does Not Meet Requirements   
 ■ Not Analyzed



### Conventional and Anions

■ Aspirational   
 ■ Progressive   
 ■ Foundational   
 ■ Alert   
 ■ Not Analyzed



### Metals

■ Aspirational   
 ■ Progressive   
 ■ Foundational   
 ■ Alert   
 ■ Not Analyzed



## PARAMETER TYPE DETAILS: MRSL

100.00%	100.00%	100.00%
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	Anti- Microbials & Biocides	Chlorinated Parafins
100.00%	100.00%	Not Analyzed
Chlorobenzenes and Chlorotoluenes	Chlorophenols	Chlorotoluenes
100.00%	100.00%	100.00%
Dimethyl Formamide (DMFa)	Dyes – Carcinogenic or Equivalent Concern	Dyes – Disperse (Allergenic)
100.00%	100.00%	100.00%
Dyes – Navy Blue Colourant	Flame Retardants	Glycols / Glycol Ethers
100.00%	100.00%	100.00%
Halogenated Solvents	Organotin Compounds	Other/Miscellaneous Chemicals
100.00%	100.00%	100.00%
Perfluorinated and Polyfluorinated Chemicals (PFCs)	Phthalates – including all other esters of ortho-phthalic acid	Polycyclic Aromatic Hydrocarbons (PAHs)
100.00%	100.00%	100.00%
Restricted Aromatic Amines (Cleavable from Azo-colourants)	UV Absorbers	Volatile Organic Compounds (VOC)

■ Meets Requirements    
 ■ Does Not Meet Requirements    
 ■ Not Analyzed    
 ■ Not Required

Parameter	Value
1,2-benzenedicarboxylic acid, di-C6-8 branched and linear alkyl esters, C7-rich (DIHP) - (µg/l)	ND
1,2-benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP) - (µg/l)	ND
1,2-dichlorobenzene - (µg/l)	ND
1,2-dichloroethane - (µg/l)	ND
2,2-bis(bromomethyl)-1,3-propanediol (BBMP) - (µg/l)	ND
2,3,4,5-tetrachlorophenol - (µg/l)	ND
2,3,4,6-tetrachlorophenol - (µg/l)	ND

Parameter	Value
2,3,4-trichlorophenol - (µg/l)	ND
2,3,5,6-tetrachlorophenol - (µg/l)	ND
2,3,5-trichlorophenol - (µg/l)	ND
2,3,6-trichlorophenol - (µg/l)	ND
2,3-dichlorophenol - (µg/l)	ND
2,4,5-trichlorophenol - (µg/l)	ND
2,4,5-trimethylaniline - (µg/l)	ND



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Parameter	Value
2,4,5-trimethylaniline hydrochloride - (µg/l)	ND
2,4,6-trichlorophenol - (µg/l)	ND
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327) - (µg/l)	ND
2,4-dichlorophenol - (µg/l)	ND
2,4-xylidine - (µg/l)	ND
2,5-dichlorophenol - (µg/l)	ND
2,6-dichlorophenol - (µg/l)	ND
2,6-xylidine - (µg/l)	ND
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) - (µg/l)	ND
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350) - (µg/l)	ND
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) - (µg/l)	ND
2-chlorophenol - (µg/l)	ND
2-ethoxyethanol - (µg/l)	ND
2-ethoxyethyl acetate - (µg/l)	ND
2-methoxyethanol - (µg/l)	ND
2-methoxyethylacetate - (µg/l)	ND
2-methoxypropylacetate - (µg/l)	ND
2-naphthylamine - (µg/l)	ND
2-Naphthylammoniumacetate - (µg/l)	ND
3,3-dichlorobenzidine - (µg/l)	ND
3,3-dimethoxylbenzidine - (µg/l)	ND
3,3-dimethylbenzidine - (µg/l)	ND
3,4,5-trichlorophenol - (µg/l)	ND
3,4-dichlorophenol - (µg/l)	ND
3,5- dichlorophenol - (µg/l)	ND
3-chlorophenol - (µg/l)	ND
4,4-methylene- bis-(2-chloro-aniline) - (µg/l)	ND

Parameter	Value
4,4-methylenedi-o-toluidine - (µg/l)	ND
4,4-methylenedianiline - (µg/l)	ND
4,4-oxydianiline - (µg/l)	ND
4,4-thiodianiline - (µg/l)	ND
4-aminoazobenzene - (µg/l)	ND
4-aminodiphenyl - (µg/l)	ND
4-chloro-o-toluidine - (µg/l)	ND
4-chloro-o-toluidinium chloride - (µg/l)	ND
4-chloroaniline - (µg/l)	ND
4-chlorophenol - (µg/l)	ND
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate - (µg/l)	ND
4-methoxy-m-phenylenediamine - (µg/l)	ND
4-methyl-m-phenylenediamine - (µg/l)	ND
5-nitro-o-toluidine - (µg/l)	ND
6-methoxy-m-toluidine - (µg/l)	ND
Acenaphthene - (µg/l)	ND
Acenaphthylene - (µg/l)	ND
AEEA [2-(2-aminoethylamino)ethanol] - (µg/l)	ND
Anthracene - (µg/l)	ND
Basic violet 3 with >0.1% of Michler´s Ketone - (µg/l)	ND
Benzene - (µg/l)	ND
Benzidine - (µg/l)	ND
Benzo[a]anthracene - (µg/l)	ND
Benzo[a]pyrene - (µg/l)	ND
Benzo[b]fluoranthene - (µg/l)	ND
Benzo[e]pyrene - (µg/l)	ND
Benzo[ghi]perylene - (µg/l)	ND



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Parameter	Value
Benzo[j]fluoranthene - (µg/l)	ND
Benzo[k]fluoranthene - (µg/l)	ND
Bis(2,3-dibromopropyl) phosphate (BIS) - (µg/l)	ND
Bis(2-methoxyethyl) phthalate (DMEP) - (µg/l)	ND
Bis(2-methoxyethyl)-ether - (µg/l)	ND
Bisphenol A - (µg/l)	ND
Boric acid - (µg/l)	ND
Butyl benzyl phthalate (BBP) - (µg/l)	ND
C.I. Acid Red 26 - (µg/l)	ND
C.I. Acid Violet 49 - (µg/l)	ND
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%) - (µg/l)	ND
C.I. Basic Green 4 (Malachite Green Chloride) - (µg/l)	ND
C.I. Basic Green 4 (Malachite Green Oxalate) - (µg/l)	ND
C.I. Basic Green 4 (Malachite Green) - (µg/l)	ND
C.I. Basic Red 9 - (µg/l)	ND
C.I. Basic Violet 14 - (µg/l)	ND
C.I. Direct Black 38 - (µg/l)	ND
C.I. Direct Blue 6 - (µg/l)	ND
C.I. Direct Red 28 - (µg/l)	ND
C.I. Disperse Blue 1 - (µg/l)	ND
C.I. Disperse Blue 3 - (µg/l)	ND
Chrysene - (µg/l)	ND
Component 1: C <sub>39</sub> H <sub>23</sub> Cl-CrN <sub>7</sub> O <sub>12</sub> S 2Na - (µg/l)	ND
Component 2: C <sub>46</sub> H-30CrN <sub>10</sub> O <sub>20</sub> S <sub>2</sub> 3Na - (µg/l)	ND
Decabromobiphenyl (DecaBB) - (µg/l)	ND
Decabromodiphenyl ether (DecaBDE) - (µg/l)	ND
Di(ethylhexyl) phthalate (DEHP) - (µg/l)	ND

Parameter	Value
Di-cyclohexyl phthalate (DCHP) - (µg/l)	ND
Di-iso-decyl phthalate (DIDP) - (µg/l)	ND
Di-iso-octyl phthalate (DIOP) - (µg/l)	ND
Di-isobutyl phthalate (DIBP) - (µg/l)	ND
Di-isononyl phthalate (DINP) - (µg/l)	ND
Di-n-hexyl phthalate (DnHP) - (µg/l)	ND
Di-n-octyl phthalate (DNOP) - (µg/l)	ND
Di-n-pentylphthalates - (µg/l)	ND
Di-n-propyl phthalate (DPRP) - (µg/l)	ND
Dibenz[a,h]anthracene - (µg/l)	ND
Diboron trioxide - (µg/l)	ND
Dibromobiphenyls (DiBB) - (µg/l)	ND
dibromopropylether - (µg/l)	ND
Dibutyl phthalate (DBP) - (µg/l)	ND
Diethyl phthalate (DEP) - (µg/l)	ND
Diisopentylphthalates - (µg/l)	ND
Dimethyl formamide; N,N-di-methylformamide (DMFa) - (µg/l)	ND
Dinonyl phthalate (DNP) - (µg/l)	ND
Dipropyltin compounds (DPT) - (µg/l)	ND
Disodium octaborate - (µg/l)	ND
Disodium tetraborate, anhydrous - (µg/l)	ND
Disperse Blue 102 - (µg/l)	ND
Disperse Blue 106 - (µg/l)	ND
Disperse Blue 124 - (µg/l)	ND
Disperse Blue 26 - (µg/l)	ND
Disperse Blue 35 - (µg/l)	ND
Disperse Blue 7 - (µg/l)	ND



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Parameter	Value
Disperse Brown 1 - (µg/l)	ND
Disperse Orange 1 - (µg/l)	ND
Disperse Orange 11 - (µg/l)	ND
Disperse Orange 3 - (µg/l)	ND
Disperse Orange 37/59/76 - (µg/l)	ND
Disperse Red 1 - (µg/l)	ND
Disperse Red 11 - (µg/l)	ND
Disperse Red 17 - (µg/l)	ND
Disperse Yellow 1 - (µg/l)	ND
Disperse Yellow 3 - (µg/l)	ND
Disperse Yellow 39 - (µg/l)	ND
Disperse Yellow 49 - (µg/l)	ND
Disperse Yellow 9 - (µg/l)	ND
Ethylene glycol dimethyl ether - (µg/l)	ND
Fluoranthene - (µg/l)	ND
Fluorene - (µg/l)	ND
Heptabromodiphenyl ether (HeptaBDE) - (µg/l)	ND
Hexabromocyclodecane (HBCDD) - (µg/l)	ND
Hexabromodiphenyl ether (HexaBDE) - (µg/l)	ND
Indeno[1,2,3-cd]pyrene - (µg/l)	ND
m-cresol - (µg/l)	ND
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17) - (µg/l)	ND
Methylene chloride - (µg/l)	ND
Mono-, di- and tri-butyltin derivatives - (µg/l)	ND
Mono-, di- and tri-methyltin derivatives - (µg/l)	ND
Mono-, di- and tri-octyltin derivatives - (µg/l)	ND
Mono-, di- and tri-phenyltin derivatives - (µg/l)	ND

Parameter	Value
Monobromobiphenyls (MonoBB) - (µg/l)	ND
Monobromodiphenylethers (MonoBDEs) - (µg/l)	ND
Naphthalene - (µg/l)	ND
Nonabromobiphenyls (NonaBB) - (µg/l)	ND
Nonabromodiphenyl ether (NonaBDE) - (µg/l)	ND
Nonylphenol (NP), mixed isomers - (µg/l)	ND
Nonylphenol ethoxylates (NPEO) - (µg/l)	ND
o-aminoazotoluene - (µg/l)	ND
o-anisidine - (µg/l)	ND
o-cresol - (µg/l)	ND
o-Phenylphenol (+salts) - (µg/l)	ND
o-toluidine - (µg/l)	ND
Octabromobiphenyls (OctaBB) - (µg/l)	ND
Octabromodiphenyl ether (OctaBDE) - (µg/l)	ND
Octylphenol (OP), mixed isomers - (µg/l)	ND
Octylphenol ethoxylates (OPEO) - (µg/l)	ND
Other isomers of mono-, di-, tri-, tetra-, penta- and hexa- Chlorobenzene and mono-, di-, tri-, tetra- and penta- chlorotoluene - (µg/l)	ND
p-cresol - (µg/l)	ND
Pentabromodiphenyl ether (PentaBDE) - (µg/l)	ND
Pentachlorophenol (PCP) - (µg/l)	ND
Perfluorooctane sulfonate (PFOS) and related substances Perfluorooctanoic acid (PFOA) - (µg/l)	ND
Perfluorooctanoic acid (PFOA) related substances - (µg/l)	ND
Permethrin - (µg/l)	ND
Phenanthrene - (µg/l)	ND
Polybromobiphenyls (PBB) - (µg/l)	ND
Pyrene - (µg/l)	ND
Quinoline - (µg/l)	ND



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Parameter	Value
Short-chain Chlorinated paraffin (C10 – C13) - (µg/l)	ND
Tetraboron disodium heptaoxide, hydrate - (µg/l)	ND
Tetrabromobisphenol A (TBBPA) - (µg/l)	ND
Tetrabromodiphenyl ether (TetraBDE) - (µg/l)	ND
Tetrabutyltin compo+A195:B206unds (TeBT) - (µg/l)	ND
Tetrachloroethylene - (µg/l)	ND
Tetraethyltin Compounds (TeET) - (µg/l)	ND
Tetraoctyltin compounds (TeOT) - (µg/l)	ND
Thiourea - (µg/l)	ND
Toluene - (µg/l)	ND
Tribromodiphenylethers (TriBDEs) - (µg/l)	ND
Trichloroethylene - (µg/l)	ND
Triclosan - (µg/l)	ND
Tricyclohexyltin (TCyHT) - (µg/l)	ND
Triethylene glycol dimethyl ether - (µg/l)	ND
Tripropyltin Compounds (TPT) - (µg/l)	ND
Tris(1,3-dichloro-isopropyl) phosphate (TDCP) - (µg/l)	ND
Tris(1-aziridinyl)phosphine oxide (TEPA) - (µg/l)	ND
Tris(2,3,-dibromopropyl)-phosphate (TRIS) - (µg/l)	ND
Tris(2-chloroethyl) phosphate (TCEP) - (µg/l)	ND
Tris-(2-chloro-1-methylethyl)phosphate (TCPP) - (µg/l)	ND
Xylene - (µg/l)	ND
Borate, Zinc Salt - (µg/l)	ND-ND

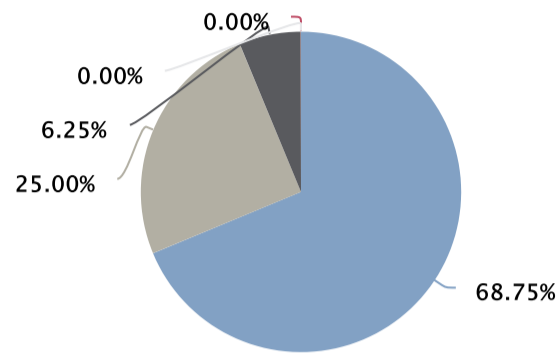


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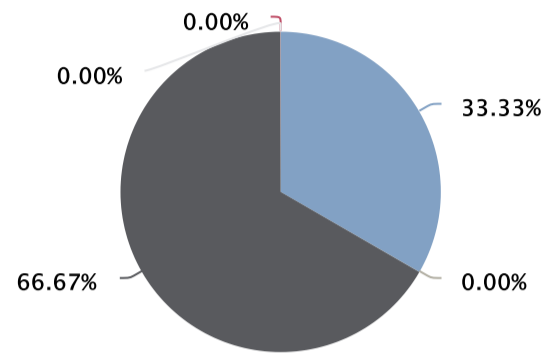
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## PARAMETER TYPE DETAILS: CONVENTIONALS AND ANIONS

- Aspirational
- Progressive
- Foundational
- Alert
- Not Analyzed



**CONVENTIONALS**



**ANIONS**

Parameter	Value
Ammonium-Nitrogen - (mg/l)	0
AOX - (mg/l)	0
Biochemical Oxygen Demand 5-days concentration (BOD) - (mg/l)	11.6
Chemical Oxygen Demand (COD) - (mg/l)	44
Colour (436nm) - (m <sup>-1</sup> )	0
Colour (525nm) - (m <sup>-1</sup> )	0
Colour (620nm) - (m <sup>-1</sup> )	0
Dissolved Oxygen (DO) - (mg/l)	7.1
E.coli - (MPN/100mL)	1.8
Oil and Grease - (mg/l)	1.2
Persistent foam - (None)	Absent
pH - (pH)	7.5
Phenol - (mg/l)	0
Temperature difference - (C)	0.8
Total Chlorine - (mg/l)	0.24
Total Dissolved Solids (TDS) - (mg/l)	2050
Total Nitrogen - (mg/l)	0
Total Phosphorus - (mg/l)	0.89
Total Suspended Solids (TSS) - (mg/l)	13
Wastewater flowrate - (m <sup>3</sup> /day)	0

Parameter	Value
Chloride - (mg/l)	5
Cyanide, total - (mg/l)	0
Sulfate - (mg/l)	10.16
Sulfide - (mg/l)	0.1
Sulfite - (mg/l)	1



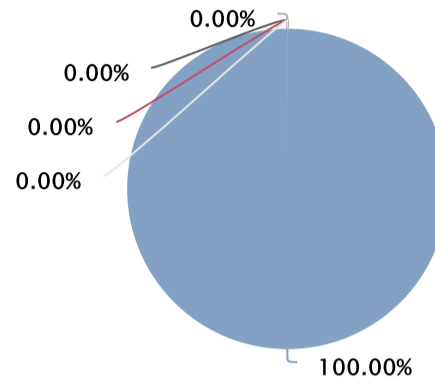


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## PARAMETER TYPE DETAILS: METALS

- Aspirational
- Progressive
- Foundational
- Not Analyzed
- Alert



### METALS

Parameter	Value
Antimony (Sb) - (mg/l)	0
Arsenic (As) - (mg/l)	0
Barium (Ba) - (mg/l)	0
Cadmium (Cd) - (mg/l)	0
Chromium (VI) - (mg/l)	0
Chromium, total (Cr) - (mg/l)	0
Cobalt (Co) - (mg/l)	0
Copper (Cu) - (mg/l)	0
Lead (Pb) - (mg/l)	0
Mercury (Hg) - (mg/l)	0
Nickel (Ni) - (mg/l)	0
Selenium (Se) - (mg/l)	0
Silver (Ag) - (mg/l)	0
Tin - (mg/l)	0
Zinc (Zn) - (mg/l)	0



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## SAMPLE AND TEST INFORMATION

### Wastewater Guideline

ZDHC Wastewater Guideline v2.1

### Reporting Cycle

2024-Apr

### Reporting Date

16-03-2024

### Sample Date

02-03-2024

## ZDHC APPROVED LABORATORY DETAILS

### Name

Bureau Veritas Consumer Products Services (Bangladesh) Ltd.

### Address

Plot#130, DEPZ Extension Area, Ganakbari, Savar, Dhaka Gazipur Dhaka Bangladesh

### Email Address

mdrobeul.awal@bureauveritas.com

### Sampler ID

C74D106817446

### Lab Test Reference Number

68240630127

### Contact Name

Saran Roy

### Contact Number

+88-02- 7789464-6

## APPENDIX

### Appendix A

<https://downloads.roadmaptozero.com/output/ZDHC-Wastewater-Guidelines>



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## High Level Performance Calculations

Total points available per Parameter Type is based on the below logic and the total required parameters to test. The total required parameters to test is assigned to the given facility based on their Discharge Type and Daily Average Wastewater Generated. Please see Appendix A for more information on this.

### Conventional, Anions and Metals Scoring

The below logic is applicable for Conventional, Anions and Metals. With Metals being scored separately.

1. Foundational Points: The total number of "Conventional and Anions" or "Metals" parameters that meet the minimum Foundational requirements.

Example: Of the "Conventional and Anions" parameters tested, 24 meet at least the Foundational requirements.  $24 \times 1 = 24$  points.

2. Progressive Points: The total number of "Conventional and Anions" or "Metals" parameters that meet the minimum Progressive requirements, multiplied by two.

Example: 5 parameters meet Progressive requirements.  $5 \times 2 = 10$  points.

3. Aspirational Points: The total number of "Conventional and Anions" or "Metals" parameters that meet the minimum Aspirational requirements multiplied by three.

Example: 3 parameters meet Aspirational requirements.  $3 \times 3 = 9$  points.

Note, any parameters where the following results are allowed:

1. Absent/Present or Pass/Fail
2. Not Detected (ND)

Will be given three points if they are Absent or Pass or ND. This is because these results are classed as Aspirational.

Total Score Calculation:

Foundational + Progressive + Aspirational = Total Score. Example:  $24 + 10 + 9 = 43$ .

The ClearStream score in this example would be 43 points.

### MRSL Scoring

Conformance Points: Total number of MRSL parameters that meet ZDHC MRSL Reporting Limit in the ZDHC Wastewater Guidelines.

Note, Any parameters flagged as Absent/Present or Pass/Fail are given one point if they are Absent or Pass. This also holds true for any results that are ND (Not Detected).

Example: 160 parameters meet MRSL Reporting Limits.  $160 \times 1 = 160$  points.

### General Notes

Parameters that are "Sample and Report only" or tested outside of the required parameters to be tested for the given Supplier are not included as part of the total scores.