

TEST REPORT

**SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)**

Number : SHAT08115531

Date : Sep 24, 2024

Factory's name	:	ZHEJIANG BINKANG PRINTING & DYEING CO., LTD
Factory's address	:	NO. 6088 XINGBIN ROAD, BINHAI INDUSTRIAL ZONE, KEQIAO DISTRICT, SHAOXING CITY, ZHEJIANG PROVINCE
Type of wastewater discharge	:	Indirect discharge
On-site Wastewater treatment plant	:	With pretreatment
Average total industrial wastewater generated	:	≥ 15m ³ /day
Date and time of the beginning of sampling:	:	09 Sep, 2024 08:10
Date and time of the end of sampling:	:	09 Sep, 2024 14:25
Date received sample:	:	09 Sep, 2024 PM
Testing period:	:	From 09 Sep, 2024 PM to 19 Sep, 2024
Arrival temperature at laboratory:	:	5.6°C
Sample type	:	
Sample / Untreated wastewater	:	8:1 Mixture of high concentration wastewater and low concentration wastewater Brown, composite sample at 08:10, 09:10, 10:10, 11:10, 12:10, 13:10, 14:10 High concentration wastewater: Sampling location: Latitude 30°13'15"N, Longitude 120°42'42"E Low concentration wastewater: Sampling location: Latitude 30°13'4"N, Longitude 120°42'58"E
Sample / Effluent	:	Brown, composite sample at 08:15, 09:15, 10:15, 11:15, 12:15, 13:15, 14:15 Sampling location: Latitude 30°14'32"N, Longitude 120°42'12"E
Sample / Sludge	:	Grey, composite sample at 14:25 Sampling location: Latitude 30°14'17"N, Longitude 120°42'28"E
Sampling laboratory	:	Intertek Testing Services Ltd., Shanghai
Testing laboratory	:	Intertek Testing Services Ltd., Shanghai
ZDHC sampler accreditation certification number	:	C74D106817397

Tests conducted:
As requested by a brand program, for details refer to attached page(s).

Prepared And Checked By:
For Intertek Testing Services Ltd., Shanghai

Nina Hu

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Technical Manager

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Summary of test results:

Wastewater / MRSL - Test items	Testing period	Untreated Wastewater
Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)	From 11 Sep, 2024 to 19 Sep, 2024	ND
Anti-Microbials & Biocides	From 11 Sep, 2024 to 19 Sep, 2024	ND
Chlorinated Parafins	From 11 Sep, 2024 to 19 Sep, 2024	ND
Chlorobenzenes and Chlorotoluenes	From 11 Sep, 2024 to 19 Sep, 2024	ND
Chlorophenols	From 11 Sep, 2024 to 19 Sep, 2024	ND
Dimethyl Formamide (DMFa) (*)	From 11 Sep, 2024 to 19 Sep, 2024	ND
Dyes – Carcinogenic or Equivalent Concern	From 11 Sep, 2024 to 19 Sep, 2024	ND
Dyes – Disperse (Allergenic)	From 11 Sep, 2024 to 19 Sep, 2024	ND
Dyes – Navy Blue Colourant	From 11 Sep, 2024 to 19 Sep, 2024	ND
Flame Retardants	From 9 Sep, 2024 to 19 Sep, 2024	ND
Glycols / Glycol Ethers	From 11 Sep, 2024 to 19 Sep, 2024	ND
Halogenated solvents	From 11 Sep, 2024 to 19 Sep, 2024	ND
Organotin compounds	From 11 Sep, 2024 to 19 Sep, 2024	ND
Other/Miscellaneous Chemicals (^)	From 9 Sep, 2024 to 19 Sep, 2024	ND

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Attention is drawn to the terms and conditions printed overleaf

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Wastewater / MRSL - Test items	Testing period	Untreated Wastewater
Perfluorinated & Polyfluorinated chemicals (PFCs)	From 11 Sep, 2024 to 19 Sep, 2024	ND
Phthalates (Ortho-phthalates)	From 11 Sep, 2024 to 19 Sep, 2024	ND
Polycyclic aromatic hydrocarbons (PAHs)	From 11 Sep, 2024 to 19 Sep, 2024	ND
Restricted Aromatic Amines (Cleavable from Azo-colourants)	From 11 Sep, 2024 to 19 Sep, 2024	ND
UV Absorbers	From 11 Sep, 2024 to 19 Sep, 2024	ND
Volatile Organic Compounds (VOC)	From 11 Sep, 2024 to 19 Sep, 2024	ND

Wastewater / Heavy metals - Test items	Testing period	Effluent		
		Foundational	Progressive	Aspirational
Chromium (VI)	From 9 Sep, 2024 to 12 Sep, 2024			Meet
Arsenic	From 9 Sep, 2024 to 12 Sep, 2024			Meet
Cadmium	From 9 Sep, 2024 to 12 Sep, 2024			Meet
Lead	From 9 Sep, 2024 to 12 Sep, 2024			Meet
Mercury	From 9 Sep, 2024 to 12 Sep, 2024			Meet

Sludge – Disposal Pathways
A

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Sludge / Heavy metals - Test items	Testing period	Sludge (Total)	Sludge (Leachate)
Antimony	From 9 Sep, 2024 to 12 Sep, 2024		Report only, refer data
Arsenic	From 9 Sep, 2024 to 12 Sep, 2024	Meet	
Barium	From 9 Sep, 2024 to 12 Sep, 2024	Meet	
Cadmium	From 9 Sep, 2024 to 12 Sep, 2024	Meet	
Cobalt	From 9 Sep, 2024 to 12 Sep, 2024	Meet	
Copper	From 9 Sep, 2024 to 12 Sep, 2024	Meet	
Lead	From 9 Sep, 2024 to 12 Sep, 2024	Meet	
Nickel	From 9 Sep, 2024 to 12 Sep, 2024	Meet	
Selenium	From 9 Sep, 2024 to 12 Sep, 2024	Meet	
Silver	From 9 Sep, 2024 to 12 Sep, 2024	Meet	
Chromium (total)	From 9 Sep, 2024 to 12 Sep, 2024	Meet	
Zinc	From 9 Sep, 2024 to 12 Sep, 2024	Meet	
Chromium VI	From 9 Sep, 2024 to 12 Sep, 2024	Meet	
Mercury	From 9 Sep, 2024 to 12 Sep, 2024	Meet	

Sludge / Anion - Test items	Testing period	Sludge
Cyanide	From 10 Sep, 2024 to 10 Sep, 2024	Report only, refer data

Sludge / Conventional parameters - Test items	Testing period	Sludge
pH	From 9 Sep, 2024 to 9 Sep, 2024	Report only, refer data ^[f]
% Solids	From 10 Sep, 2024 to 10 Sep, 2024	Report only, refer data
Paint filter test	From 9 Sep, 2024 to 9 Sep, 2024	Report only, refer data
Faecal coliform	From 9 Sep, 2024 to 12 Sep, 2024	Report only, refer data

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Sludge / MRSL - Test items	Testing period	Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	From 11 Sep, 2024 to 19 Sep, 2024	Report only, refer data
Polycyclic Aromatic Hydrocarbons (PAHs)	From 11 Sep, 2024 to 19 Sep, 2024	Report only, refer data
Chlorotoluenes	From 11 Sep, 2024 to 19 Sep, 2024	Report only, refer data

Note :
ND = Not detected (less than ZDHC reporting limit for MRSL parameters) / Not detected (less than lab reporting limit for other parameters)
D = Detected
N/A = Not applicable (Out of scope according to ZDHC WWSG v2.1)
NT = Not tested (Did not test according to applicant's request)
^(S) = The samples were subcontracted to Intertek [xxxxx] for testing.
^(T) = If sample temperature is greater than 8°C and less than 10°C when received from the laboratory.
^(TT) = If sample temperature is exceeded 10°C when received from the laboratory.
@ = Maximum holding time exceeded.
(*) = Sample and report for mock leather.
(^) = Borate, zinc salt would report ND when total boron or total zinc less than 100 µg/L.
^[f] = On-site test by sampler.
^[a] = The local legal standard name and legal standard no. is referenced to discharge permit (or contractual agree by CETP) that provided by applicant.
This report shown the test result of the environment samples of above factory which collected on specific date and time. The results of this report shall not be used for any regulatory compliance purposes.

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Tests Conducted (As Requested By The Applicant)
Sample / Wastewater

1 Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): Including All Isomers:

NP/OP: modified from ISO 21084:2019 (LC-MS analysis).

OPEO/NPEO (n>2): modified from ISO 18254-1:2016 (GC-MS and LC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Nonylphenol ethoxylates (NPEO)	9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	5	ND	µg/L
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	5	ND	µg/L
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	5	ND	µg/L
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	5	ND	µg/L

2 Anti- Microbials & Biocides:

o-Phenylphenol (+salts): modified from GB/T 20386-2006 (GC-MS analysis).

Triclosan: modified from GB/T 35380-2018 (GC-MS analysis).

Permethrin: modified from EN71-9/10/11 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
o-Phenylphenol (+salts)	90-43-7	100	ND	µg/L
Triclosan	3380-34-5	100	ND	µg/L
Permethrin	Multiple	500	ND	µg/L

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3 Chlorinated Paraffins:

For MCCP: modified from ISO18219-2:2021 (GC-MS analysis).

For SCCP: modified from ISO18219-1:2021 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	500	ND	µg/L
Short-chain Chlorinated paraffin (C10 – C13)	85535-84-8	25	ND	µg/L

4 Chlorobenzenes And Chlorotoluenes:

Modified from EN 17137:2018 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
1,2-Dichlorobenzene	95-50-1	0.2	ND	µg/L
Other isomers of mono-, di-, tri-, tetra-, penta- and hexa- Chlorobenzene and mono-, di-, tri-, tetra- and penta-chlorotoluene	Multiple	0.2	ND	µg/L

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5 Chlorophenols:

Modified from DIN 50009:2021 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
2-Chlorophenol	95-57-8	0.5	ND	µg/L
3-Chlorophenol	108-43-0	0.5	ND	µg/L
4-Chlorophenol	106-48-9	0.5	ND	µg/L
2,3-Dichlorophenol	576-24-9	0.5	ND	µg/L
2,4-Dichlorophenol	120-83-2	0.5	ND	µg/L
2,5-Dichlorophenol	583-78-8	0.5	ND	µg/L
2,6-Dichlorophenol	87-65-0	0.5	ND	µg/L
3,4-Dichlorophenol	95-77-2	0.5	ND	µg/L
3,5- Dichlorophenol	591-35-5	0.5	ND	µg/L
2,3,4-Trichlorophenol	15950-66-0	0.5	ND	µg/L
2,3,5-Trichlorophenol	933-78-8	0.5	ND	µg/L
2,3,6-Trichlorophenol	933-75-5	0.5	ND	µg/L
2,4,5-Trichlorophenol	95-95-4	0.5	ND	µg/L
2,4,6-Trichlorophenol	88-06-2	0.5	ND	µg/L
3,4,5-Trichlorophenol	609-19-8	0.5	ND	µg/L
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	ND	µg/L
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	ND	µg/L
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	ND	µg/L
Pentachlorophenol (PCP)	87-86-5	0.5	ND	µg/L

6 Dimethyl Formamide (DMFa):

Modified from ISO 16189:2021 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Dimethyl formamide; N,N-dimethylformamide (DMFa) (*)	68-12-2	1000	ND	µg/L

Remark : (*) = Sample and report for mock leather.

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7 Dyes – Carcinogenic or Equivalent Concern:

Modified from DIN 54231:2005 (LC-MS-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Basic violet 3 with >0.1% of Michler´s Ketone	548-62-9	500	ND	µg/L
C.I. Acid Red 26	3761-53-3	500	ND	µg/L
C.I. Acid Violet 49	1694-09-3	500	ND	µg/L
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	500	ND	µg/L
C.I. Basic Green 4 (malachite green chloride)	569-64-2	500	ND	µg/L
C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	500	ND	µg/L
C.I. Basic Green 4 (malachite green)	10309-95-2	500	ND	µg/L
C.I. Basic Red 9	569-61-9	500	ND	µg/L
C.I. Basic Violet 14	632-99-5	500	ND	µg/L
C.I. Direct Black 38	1937-37-7	500	ND	µg/L
C.I. Direct Blue 6	2602-46-2	500	ND	µg/L
C.I. Direct Red 28	573-58-0	500	ND	µg/L
C.I. Disperse Blue 1	2475-45-8	500	ND	µg/L
C.I. Disperse Blue 3	2475-46-9	500	ND	µg/L
Disperse Orange 11	82-28-0	500	ND	µg/L

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8 Dyes – Disperse (Allergenic):

Modified from DIN 54231:2005 (LC-MS-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Disperse Blue 102	12222-97-8	50	ND	µg/L
Disperse Blue 106	12223-01-7	50	ND	µg/L
Disperse Blue 124	61951-51-7	50	ND	µg/L
Disperse Blue 26	3860-63-7	50	ND	µg/L
Disperse Blue 35	12222-75-2 56524-77-7	50	ND	µg/L
Disperse Blue 7	3179-90-6	50	ND	µg/L
Disperse Brown 1	23355-64-8	50	ND	µg/L
Disperse Orange 1	2581-69-3	50	ND	µg/L
Disperse Orange 3	730-40-5	50	ND	µg/L
Disperse Orange 37/59/76	13301-61-6	50	ND	µg/L
Disperse Red 1	2872-52-8	50	ND	µg/L
Disperse Red 11	2872-48-2	50	ND	µg/L
Disperse Red 17	3179-89-3	50	ND	µg/L
Disperse Yellow 1	119-15-3	50	ND	µg/L
Disperse Yellow 3	2832-40-8	50	ND	µg/L
Disperse Yellow 39	12236-29-2	50	ND	µg/L
Disperse Yellow 49	54824-37-2	50	ND	µg/L
Disperse Yellow 9	6373-73-5	50	ND	µg/L

9 Dyes – Navy Blue Colourant:

Modified from DIN 54231:2005 (LC-MS-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	500	ND	µg/L
Component 2: C46H-30CrN10O20S2 3Na	Not Allocated	500	ND	µg/L

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10 Flame Retardants:

Other flame retardant substances: modified from ISO 17881-1:2016 & ISO 17881-2:2016 (GC-MS and LC-MS-MS analysis).

Borate salt: Modified from HJ 700-2014 (ICP-MS analysis)

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	ND	µg/L
Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9	25	ND	µg/L
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	ND	µg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	25	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	ND	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	25	ND	µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	25	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	ND	µg/L
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	25	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	ND	µg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	ND	µg/L
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25	ND	µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	25	ND	µg/L
Dibromobiphenyls (DiBB)	Multiple	25	ND	µg/L
Octabromobiphenyls (OctaBB)	Multiple	25	ND	µg/L
Dibromopropylether	21850-44-2	25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	ND	µg/L
Monobromobiphenyls (MonoBB)	Multiple	25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Multiple	25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Multiple	25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Multiple	25	ND	µg/L
Boric acid	10043-35-3 11113-50-1	100 in Boron	ND	µg/L
Diboron trioxide	1303-86-2	100 in Boron	ND	µg/L
Disodium octaborate	12008-41-2	100 in Boron	ND	µg/L
Disodium tetraborate anhydrous	1303-96-4 1330-43-4	100 in Boron	ND	µg/L
Tetraboron disodium heptaoxide, hydrate	12267-73-1	100 in Boron	ND	µg/L

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11 Glycols / Glycol Ethers:

Modified from T/CNTAC 66 Annex B.6 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
2-ethoxyethanol	110-80-5	50	ND	µg/L
2-ethoxyethyl acetate	111-15-9	50	ND	µg/L
2-methoxyethanol	109-86-4	50	ND	µg/L
2-methoxyethylacetate	110-49-6	50	ND	µg/L
2-methoxypropylacetate	70657-70-4	50	ND	µg/L
Bis(2-methoxyethyl)-ether	111-96-6	50	ND	µg/L
Ethylene glycol dimethyl ether	110-71-4	50	ND	µg/L
Triethylene glycol dimethyl ether	112-49-2	50	ND	µg/L

12 Halogenated Solvents:

Modified from USEPA 8260D (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
1,2-Dichloroethane	107-06-2	1	ND	µg/L
Methylene chloride	75-09-2	1	ND	µg/L
Tetrachloroethylene	127-18-4	1	ND	µg/L
Trichloroethylene	79-01-6	1	ND	µg/L

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13 Organotin Compounds:

Modified from ISO/TS 16179:2012 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Dipropyltin compounds (DPT)	Multiple	0.01	ND	µg/L
Mono-, di- and tri-butyltin derivatives	Multiple	0.01	ND	µg/L
Mono, di-, and tri-methyltin derivatives	Multiple	0.01	ND	µg/L
Mono, di-, and tri-octyltin derivatives	Multiple	0.01	ND	µg/L
Mono, di-, and tri-phenyltin derivatives	Multiple	0.01	ND	µg/L
Tetrabutyltin compounds (TeBT)	Multiple	0.01	ND	µg/L
Tripropyltin Compounds (TPT)	Multiple	0.01	ND	µg/L
Tetraoctyltin compounds (TeOT)	Multiple	0.01	ND	µg/L
Tricyclohexyltin (TCyHT)	Multiple	0.01	ND	µg/L
Tetraethyltin Compounds (TeET)	Multiple	0.01	ND	µg/L

14 Other/Miscellaneous Chemicals:

AEEA: modified from T/CNTAC 66 Annex B.9 (GC-MS analysis).

Bisphenol A: modified from EN71-10/11 (LC-MS-MS analysis).

Thiourea: modified from T/CNTAC 66 Annex B.8 (LC-MS-MS analysis).

Quinoline: modified from GB/T 31531-2015 (GC-MS analysis).

Borate, zinc salt (^): modified from HJ 700-2014 (ICP-MS analysis)

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500	ND	µg/L
Bisphenol A	80-05-7	10	ND	µg/L
Thiourea	62-56-6	50	ND	µg/L
Quinoline	91-22-5	50	ND	µg/L
Borate, zinc salt (^)	12767-90-7	100 in Boron & 100 in Zinc	Boron: ND	µg/L
			Zinc: ND	

Remark : (^) = Report total boron & total zinc individually, and no conversion from boron / zinc salt.

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15 Perfluorinated & Polyfluorinated Chemicals (PFCs):

Modified from GB/T 29493.2-2021 (GC-MS and LC-MS-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA)	Multiple	0.01	ND	µg/L
Perfluorooctanoic acid (PFOA) related substances	Multiple	1	ND	µg/L

16 Phthalates - Including All Other Esters Of Ortho - Phthalic Acid:

Modified from ISO 18856-2004 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	10	ND	µg/L
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	10	ND	µg/L
Butyl benzyl phthalate (BBP)	85-68-7	10	ND	µg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	ND	µg/L
Di-iso-decyl phthalate (DIDP)	26761-40-0	10	ND	µg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	ND	µg/L
Di-isobutyl phthalate (DIBP)	84-69-5	10	ND	µg/L
Di-isononyl phthalate (DINP)	28553-12-0	10	ND	µg/L
Di-n-hexyl phthalate (DnHP)	84-75-3	10	ND	µg/L
Di-n-octyl phthalate (DNOP)	117-84-0	10	ND	µg/L
Di-n-pentylphthalates	131-18-0	10	ND	µg/L
Di-n-propyl phthalate (DPRP)	131-16-8	10	ND	µg/L
Di(ethylhexyl) phthalate (DEHP)	117-81-7	10	ND	µg/L
Dibutyl phthalate (DBP)	84-74-2	10	ND	µg/L
Diethyl phthalate (DEP)	84-66-2	10	ND	µg/L
Diisopentylphthalates	605-50-5	10	ND	µg/L
Dinonyl phthalate (DNP)	84-76-4	10	ND	µg/L

TEST REPORT

**SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)**

Number : SHAT08115531

Tests Conducted (As Requested By The Applicant)
17 Polycyclic Aromatic Hydrocarbons (PAHs):

Modified from HJ 478-2009 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Acenaphthene	83-32-9	1	ND	µg/L
Acenaphthylene	208-96-8	1	ND	µg/L
Anthracene	120-12-7	1	ND	µg/L
Benzo[a]anthracene	56-55-3	1	ND	µg/L
Benzo[a]pyrene (BaP)	50-32-8	1	ND	µg/L
Benzo[b]fluoranthene	205-99-2	1	ND	µg/L
Benzo[e]pyrene	192-97-2	1	ND	µg/L
Benzo[ghi]perylene	191-24-2	1	ND	µg/L
Benzo[j]fluoranthene	205-82-3	1	ND	µg/L
Benzo[k]fluoranthene	207-08-9	1	ND	µg/L
Chrysene	218-01-9	1	ND	µg/L
Dibenz[a,h]anthracene	53-70-3	1	ND	µg/L
Fluoranthene	206-44-0	1	ND	µg/L
Fluorene	86-73-7	1	ND	µg/L
Indeno[1,2,3-cd]pyrene	193-39-5	1	ND	µg/L
Naphthalene	91-20-3	1	ND	µg/L
Phenanthrene	85-01-8	1	ND	µg/L
Pyrene	129-00-0	1	ND	µg/L

TEST REPORT

**SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)**

Number : SHAT08115531

Tests Conducted (As Requested By The Applicant)

18 Restricted Aromatic Amines (Cleavable from Azo-colourants):

Modified from ISO 14362-1:2017 and ISO 14362-3:2017 (GC-MS and LC-MS-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
2-Naphthylamine	91-59-8	0.1	ND	µg/L
2-Naphthylammoniumacetate	553-00-4	0.1	ND	µg/L
2,4-Xylidine	95-68-1	0.1	ND	µg/L
2,4,5-Trimethylaniline	137-17-7	0.1	ND	µg/L
2,4,5-Trimethylaniline hydrochloride	21436-97-5	0.1	ND	µg/L
2,6-Xylidine	87-62-7	0.1	ND	µg/L
3,3'-Dichlorobenzidine	91-94-1	0.1	ND	µg/L
3,3'-Dimethoxybenzidine	119-90-4	0.1	ND	µg/L
3,3'-Dimethylbenzidine	119-93-7	0.1	ND	µg/L
4-Aminoazobenzene	60-09-3	0.1	ND	µg/L
4-Aminodiphenyl	92-67-1	0.1	ND	µg/L
4-Chloro-o-toluidine	95-69-2	0.1	ND	µg/L
4-Chloro-o-toluidinium chloride	3165-93-3	0.1	ND	µg/L
4-Chloroaniline	106-47-8	0.1	ND	µg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	0.1	ND	µg/L
4-methoxy-m-phenylenediamine	615-05-4	0.1	ND	µg/L
4-methyl-m-phenylenediamine	95-80-7	0.1	ND	µg/L
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1	ND	µg/L
4,4'-methylenedi-o-toluidine	838-88-0	0.1	ND	µg/L
4,4'-methylenedianiline	101-77-9	0.1	ND	µg/L
4,4'-Oxydianiline	101-80-4	0.1	ND	µg/L
4,4'-Thiodianiline	139-65-1	0.1	ND	µg/L
5-Nitro-o-toluidine	99-55-8	0.1	ND	µg/L
6-methoxy-m-toluidine	120-71-8	0.1	ND	µg/L
Benzidine	92-87-5	0.1	ND	µg/L
o-Aminoazotoluene	97-56-3	0.1	ND	µg/L
o-Anisidine	90-04-0	0.1	ND	µg/L
o-Toluidine	95-53-4	0.1	ND	µg/L

TEST REPORT

**SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)**

Number : SHAT08115531

Tests Conducted (As Requested By The Applicant)

19 UV Absorbers:

Modified from ISO 24040:2022 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	100	ND	µg/L
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	100	ND	µg/L
2-benzotriazol-2-yl-4,6-di-tertbutylphenol (UV-320)	3846-71-7	100	ND	µg/L
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	100	ND	µg/L

20 Volatile Organic Compounds (VOCs):

m, o, p-cresol: modified from DIN 50009:2021 (GC-MS analysis).

Benzene, Xylene and Toluene: HJ 639-2012 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Benzene	71-43-2	1	ND	µg/L
m-cresol	108-39-4	1	ND	µg/L
o-cresol	95-48-7	1	ND	µg/L
p-cresol	106-44-5	1	ND	µg/L
Xylene	1330-20-7	1	ND	µg/L
Toluene (*)	108-88-3	1	ND	µg/L

Remark : (*) = Sample and report for mock leather.

TEST REPORT

**SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)**

Number : SHAT08115531

Tests Conducted (As Requested By The Applicant)

21 Heavy Metals:

Chromium (VI): GB 7467 (UV/VIS analysis).
Mercury: HJ 694 (AFS analysis).
Other heavy metals: HJ 700 (ICP-MS analysis).

Chemical substances	Limit			Lab reporting limit (mg/L)	Effluent	Unit
	Foundational	Progressive	Aspirational			
Chromium (VI)	0.05 mg/L	0.005 mg/L	0.001 mg/L	0.001	ND	mg/L
Arsenic	0.05 mg/L	0.01 mg/L	0.005 mg/L	0.005	ND	mg/L
Cadmium	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01	ND	mg/L
Lead	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01	ND	mg/L
Mercury	0.01 mg/L	0.005 mg/L	0.001 mg/L	0.001	ND	mg/L

TEST REPORT

**SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)**

Number : SHAT08115531

Tests Conducted (As Requested By The Applicant)

Sample / Sludge

Sludge flux (weight/time) and / or flow data volume/time: 1 t/d

1 Heavy Metals:

Barium, Selenium, Silver: modified from T/CNTAC 66 Annex B.3 (ICP/OES analysis).

Chromium VI: HJ 1082-2019 (AAS analysis).

Mercury: modified from EPA 3051a & 6020b (ICP-MS analysis).

Other heavy metals: HJ 803-2016 (ICP-MS analysis).

Chemical substances	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Antimony	5	5	250	mg/kg
Arsenic	5	5	ND	mg/kg
Barium	200	200	ND	mg/kg
Cadmium	1	1	ND	mg/kg
Cobalt	400	400	ND	mg/kg
Copper	50	50	85	mg/kg
Lead	5	5	ND	mg/kg
Nickel	20	20	ND	mg/kg
Selenium	5	5	ND	mg/kg
Silver	50	50	ND	mg/kg
Total Chromium	50	50	83	mg/kg
Zinc	400	400	ND	mg/kg
Chromium (VI)	20	20	ND	mg/kg
Mercury	1	1	ND	mg/kg

TEST REPORT

**SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)**

Number : SHAT08115531

Tests Conducted (As Requested By The Applicant)

2 Leachate heavy metals:

Chromium VI: modified from USEPA 3060B and USEPA 7196 (UV/VIS analysis).
Other heavy metals: Modified from ISO 16711-2 (ICP-MS analysis).

Chemical substances	Lab reporting limit (mg/L)	Sludge	Unit
Arsenic	0.5	-	mg/L
Cadmium	0.15	-	mg/L
Total Chromium	5	-	mg/L
Lead	0.5	-	mg/L
Antimony	0.6	ND	mg/L
Barium	35	-	mg/L
Cobalt	80	-	mg/L
Copper	10	-	mg/L
Nickel	3.5	-	mg/L
Selenium	0.5	-	mg/L
Silver	5	-	mg/L
Zinc	50	-	mg/L
Chromium (VI)	2.5	-	mg/L
Mercury	0.05	-	mg/L

3 Anions:

Modified from HJ 745 (UV/VIS analysis).

Chemical substances	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Cyanide	20	20	ND	mg/kg

TEST REPORT

**SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)**

Number : SHAT08115531

Tests Conducted (As Requested By The Applicant)

4 Conventional Parameters:

Chemical substances	Test method	Lab reporting limit (Dry weight)	Sludge (Dry weight)	Unit
pH	HJ962	N/A	8.19 ^[r]	N/A
% Solids	HJ613	N/A	86.9	%
Paint Filter Test^	USEPA 9095B	N/A	Pass	N/A
Fecal Coliform	USEPA 1681	10	ND	MPN/g

Remark : ^ - Report "Pass" when Paint Filter Test does not contain free liquid; Report "Fail" when Paint Filter Test does contain free liquid.

5 Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers:

NP/OP: modified from ISO 21084:2019 (LC-MS analysis).

OPEO/NPEO (n>2): Modified from ISO 18254-1:2016 (GC-MS and LC-MS analysis).

Chemical substances	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Nonylphenol ethoxylates (NPEO)	9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	0.4	ND	mg/kg
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	0.4	ND	mg/kg
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	0.4	ND	mg/kg
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	0.4	ND	mg/kg

TEST REPORT

**SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)**

Number : SHAT08115531

Tests Conducted (As Requested By The Applicant)

6 Polycyclic Aromatic Hydrocarbons (PAHs):

Modified from HJ 805-2016 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Acenaphthene	83-32-9	0.2	ND	mg/kg
Acenaphthylene	208-96-8	0.2	ND	mg/kg
Anthracene	120-12-7	0.2	ND	mg/kg
Benzo[a]anthracene	56-55-3	0.2	ND	mg/kg
Benzo[a]pyrene (BaP)	50-32-8	0.2	ND	mg/kg
Benzo[b]fluoranthene	205-99-2	0.2	ND	mg/kg
Benzo[e]pyrene	192-97-2	0.2	ND	mg/kg
Benzo[ghi]perylene	191-24-2	0.2	ND	mg/kg
Benzo[j]fluoranthene	205-82-3	0.2	ND	mg/kg
Benzo[k]fluoranthene	207-08-9	0.2	ND	mg/kg
Chrysene	218-01-9	0.2	ND	mg/kg
Dibenz[a,h]anthracene	53-70-3	0.2	ND	mg/kg
Fluoranthene	206-44-0	0.2	ND	mg/kg
Fluorene	86-73-7	0.2	ND	mg/kg
Indeno[1,2,3-cd]pyrene	193-39-5	0.2	ND	mg/kg
Naphthalene	91-20-3	0.2	ND	mg/kg
Phenanthrene	85-01-8	0.2	ND	mg/kg
Pyrene	129-00-0	0.2	ND	mg/kg

7 Chlorotoluenes:

Modified from EN 17137:2018 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Other isomers of mono-, di-, tri-, tetra- and penta- chlorotoluene	Multiple	0.2	ND	mg/kg

TEST REPORT

**SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)**

Number : SHAT08115531

Tests Conducted (As Requested By The Applicant)
Appendix 1: reference to ZDHC WWSG v2.1 Table 4B

Parameters	Total metals and anions threshold values (mg/kg)	Disposal pathways						
		A and B (Leachate result in mg/L)	C (Leachate result in mg/L)	D (Leachate result in mg/L)	E (Leachate result in mg/L)	F (Leachate result in mg/L)	G (Leachate result in mg/L)	G (Total metals limit in mg/kg)
Arsenic	10	Report only if required to test	5	2.75	0.5	0.5	0.5	75
Cadmium	3		1	0.58	0.15	0.15	0.15	85
Total Chromium	100		15	10	5	5	5	3000
Lead	10		5	2.75	0.5	0.5	0.5	840
Antimony	12		15	7.8	0.6	0.6	0.6	Sample and report only
Barium	700		100	67.5	35	35	35	
Cobalt	1600		80	80	80	80	80	
Copper	200		25	17.5	10	10	10	4300
Nickel	70		20	11.75	3.5	3.5	3.5	420
Selenium	10		1	0.75	0.5	0.5	0.5	100
Silver	100		5	5	5	5	5	Sample and report only
Zinc	1000		250	150	50	50	50	7500
Chromium VI	50		5	3.75	2.5	2.5	2.5	50
Mercury	1		0.2	0.125	0.05	0.05	0.05	57

Appendix 2: reference to ZDHC WWSG v2.1 Table 4C

Parameters	Disposal pathways						
	A and B	C	D	E	F	G	
pH	Sample and report only	5 – 11 s.u.	5 – 11 s.u.	5 – 11 s.u.	6.5 – 9 s.u.	6.5 – 9 s.u.	
% Solids		Sample and report only	Sample and report only	Sample and report only	Sample and report only	Sample and report only	Sample and report only
Fecal Coliform				< 1000 (MPN/g)			
Paint Filter Test		Pass Paint filter test				Sample and report only	
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers		< 0.4 mg/kg					
Polycyclic Aromatic Hydrocarbons (PAHs)		< 0.2 mg/kg					
Chlorotoluenes		< 0.2 mg/kg					

Appendix 3: reference to ZDHC WWSG v2.1 Table 4D

Parameters	Disposal pathways					
	A and B	C	D	E	F	G
Cyanide	Report only if required to test	100 mg/kg	85 mg/kg	70 mg/kg	70 mg/kg	70 mg/kg

TEST REPORT

**SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)**

Number : SHAT08115531

Tests Conducted (As Requested By The Applicant)

Photo of sampling points:

Untreated wastewater (High concentration)



Untreated wastewater (Low concentration)



Effluent



Sludge



TEST REPORT

**SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)**

Number : SHAT08115531

Tests Conducted (As Requested By The Applicant)

Photo of samples:

Untreated wastewater (Mixture)



Effluent



Sludge




TEST REPORT

**SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)**

Number : SHAT08115531

Tests Conducted (As Requested By The Applicant)

Attachment – sampling protocol for wastewater & sludge:



ZDHC Monitoring

Total Quality. Assured.

Sampling Protocol for Wastewater and Sludge acc. ZDHC SAP 2.1 incl. Apdx. E

Facility Name: 浙江兴康印染有限公司

Address and Contact: 柯桥绍兴海工业区兴康路6088号

Facility type: Dyeing and Finishing Fabric Mill Laundry, Washing and Finishing Natural Leather processing Printing Synthetic Leather processing

Date of sampling: 2022.09.09

Sample General ID (if applicable): 8115531

Discharge description: 绍兴柯桥浙江兴康印染有限公司

Weather conditions: on sampling day: 多云 on day before: 晴

Fill in all above information as applicable.

Sample Type and Details (see also page 2)

Effluent direct: or indirect

Discharge: Enter sampling times in Sample Details (page 2), and measure field parameters. Facility has WWTP Plant is in operating condition with Equalisation Tank (EQT) present: Hydraulic Retention Time (HRT): 6 h (= volume of tank (m³) / Flow rate (m³/h)) If HRT > 12h, grab sampling from EQT is allowed.

Pre-treated WW without sludge Untreated WW with Equalisation Tank (EQT) present: HRT: < 2h (= Volume of tank (m³) / Flow rate (m³/h)) If HRT > 12h, grab sampling from EQT is allowed Incoming Water MMCF

Sludge with below disposal pathway*¹⁾:

<input checked="" type="checkbox"/> A	<input type="checkbox"/> B	<input type="checkbox"/> C	<input type="checkbox"/> D	<input type="checkbox"/> E	<input type="checkbox"/> F	<input type="checkbox"/> G
>1000 °C offsite incineration	Landfill with significant control	Building products processed >1000 °C	Landfill with limited control	Incineration / Building products processed <1000 °C	Landfill with no control	Land application

¹⁾ if supplier cannot provide information, pathway "F" shall be assumed.

Sludge volume generated: 1 Om³/h O L/sec O other unit (specify): 460 O per facility info O measured O estimated

Process Chemical liquid solid (powder/granulate/pieces) from running process from warehouse/storage

Times of sampling (if applicable)	Untreated Effluent (indirect) ²⁾	Incoming ²⁾							Sludge (liquid)
		1	2	3	4	5	6	7	
	8:10	9:10	10:10	11:10	12:10	13:10	14:10	14:25	
	8:15	9:15	10:15	11:15	12:15	13:15	14:15	14:25	

²⁾ for direct discharge, see p.2

²⁾ take grab sample for tap water, river water, and industrial treated river water without EQT; recycled water from EQT <12h must be composite.

Picture ID (or Date & Time / Interval): 1 M 6T-5533, -556P

GPS coordinates of sampling points:

Untreated W.:	Lat.: ON OS 30°13'15"	Long.: OE OW 120°42'42"
Untreated WW:	Lat.: ON OS 30°13'4"	Long.: OE OW 120°42'55"
Effluent:	Lat.: ON OS 30°14'32"	Long.: OE OW 120°42'12"
Sludge:	Lat.: ON OS 30°14'19"	Long.: OE OW 120°42'78"

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01

TEST REPORT

**SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)**

Number : SHAT08115531

Tests Conducted (As Requested By The Applicant)

ZDHC Monitoring

Total Quality. Assured.

Sample Details ²⁾ Field parameters usually are only required for direct discharge. If client requests also for indirect discharge, use below fields.

Composite Sample Grab Sample (only allowed from EDT of Effluent with HRT>12h) Volume of aliquot(s): _____ mL
(enter data in column for Averaged Readings and in field at right)

Time of discrete effluent sample**	1	2	3	4	5	6	7	Averaged Readings or Grab Sample readings:
PH:								
Temp. WW discharge of recieving water	°C	°C	°C	°C	°C	°C	°C	°C
Flow rate:	L/s	L/s	L/s	L/s	L/s	L/s	L/s	m ³ /d avg.
Dissolved Oxygen:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Total Chlorine:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Persistent foam:	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no

**) time when discrete sample for composite was taken. Use comment field if number of samples is greater than seven, or if above fields are otherwise not sufficient.
Note: 1.0 m³/h = 0.27 L/s; 1.0 L/s = 86.4 m³/d; 1 m³/h = 0.042 m³/d; multiply the flow rate in m³/h by the daily operation time of the ETP to get flow rate in m³/d;

Sampling procedure: automated sampling with beaker/bowl other: _____

Wastewater Flow Data (Effluent/Discharge)

System: Flow meter (in facility) Pipe (O) Flume (U) Wier (V)

Diameter [cm]: _____

Water Depth [cm]: _____

Flow Speed [cm/sec]: _____

General Field Parameters and Sensory Data (enter as far as applicable)

Type	T ambient air [°C]	Odour	Colour	Foaming	Floating matter
Incoming				<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no
Untreated	34	轻度臭	棕	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Effluent	34	无臭	棕	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Sludge	34	轻度臭	灰		

Field Testing QA/QC

Parameter	Lab Control	Sample target value	Lab Control Sample measured value	Accuracy [%]
pH				
Total Chlorine				

Other observations:
Base
废水平均流量: 4000-4500 m³/d
污泥 pH: 8-11

Additional notes (e.g., alternatively measured flow and readings, abbreviations used, etc): _____

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
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TEST REPORT

**SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)**

Number : SHAT08115531

Tests Conducted (As Requested By The Applicant)

intertek ZDHC Monitoring Total Quality. Assured.	
ZDHC Wastewater Sampling - Facility Confirmation The Wastewater samples have been collected under the facility's normal production scale and wastewater flow rate. The sampler listed below was on-site and collected the samples.	
<u>Sampler person (name & email address):</u> Bme/Bme.fun@waterbots.com	<u>Facility Name:</u> 浙江经邦印染有限公司
<u>Sampler's ZDHC accreditation no.:</u> C740100817387	<u>Facility's Representative name:</u> 施青
<u>Sampler's Signature:</u> Bme	<u>Facility's Representative Signature and Stamp:</u> 施青
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End of Report

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