

TEST REPORT

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

Number : SHAT07742994

Date : Oct 07, 2023

Factory's name	:	YIXING LUCKY G&L DYEING AND FINISHING CO.,LTD
Factory's address	:	NO.10 ZHUQIAO ROAD, ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, YIXING CITY, JIANGSU PROVINCE, CHINA
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:		07 Sep, 2023 09:28
Date and time of the end of sampling:		07 Sep, 2023 10:12
Date received sample:		07 Sep, 2023 PM
Testing period:		From 07 Sep, 2023 PM to 21 Sep, 2023
Arrival temperature at laboratory:		3.3°C
Sample type	:	
Sample / Incoming water	:	Colorless and transparent, grab sample at 09:28 Sampling location: Latitude 31°23'33"N, Longitude 119°50'15"E
Sample / Untreated wastewater	:	Blue, grab sample at 10:07 Sampling location: Latitude 31°23'21"N, Longitude 119°50'34"E
Sample / Effluent	:	Yellow, grab sample at 10:12 Sampling location: Latitude 31°23'48"N, Longitude 119°50'41"E
Sample / Sludge	:	Black, composite sample at 09:53 Sampling location: Latitude 31°23'34"N, Longitude 119°50'8"E
Remark	:	The sampling points of effluent and sludge are same in SHAT07742988 and SHAT07742994. The testing results of effluent and sludge in SHAT07742994 are referred from SHAT07742988.
Sampling laboratory	:	Intertek Testing Services Ltd., Shanghai
Testing laboratory	:	Intertek Testing Services Ltd., Shanghai

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



Nina Hu
Technical Manager

Intertek Testing Services Ltd., Shanghai

2/F, Building No.4, Shanghai Comalong Technology Service Park,
889 Yishan Road, Shanghai 200233, China

上海天祥质量技术服务有限公司

中国上海宜山路 889 号上海齐来科技服务园区 4 号楼 2 楼 邮编:200233

Tel: +86 21 5339 5999 Fax: +86 21 5426 2030 E-mail: textile.shanghai@intertek.com Website: Intertek.com
Attention is drawn to the terms and conditions printed overleaf

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ZDHC sampler accreditation certification number	: C74D106817397
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Tests conducted:
As requested by a brand program, for details refer to attached page(s).

Summary of test results:

Wastewater / MRSL - Test items	Incoming Water	Untreated Wastewater
Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)	-	ND
Anti-Microbials & Biocides	-	ND
Chlorinated Parafins	-	ND
Chlorobenzenes and Chlorotoluenes	-	ND
Chlorophenols	-	ND
Dimethyl Formamide (DMFa) (*)	-	ND
Dyes – Carcinogenic or Equivalent Concern	-	ND
Dyes – Disperse (Allergenic)	-	ND
Dyes – Navy Blue Colourant	-	ND
Flame Retardants	-	ND
Glycols / Glycol Ethers	-	ND
Halogenated solvents	-	ND
Organotin compounds	-	ND
Other/Miscellaneous Chemicals (^)	-	ND
Perfluorinated & Polyfluorinated chemicals (PFCs)	-	ND
Phthalates (Ortho-phthalates)	-	ND
Polycyclic aromatic hydrocarbons (PAHs)	-	ND
Restricted Aromatic Amines (Cleavable from Azo-colourants)	-	ND
UV Absorbers	-	ND
Volatile Organic Compounds (VOC)	-	ND

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中国上海宜山路 889 号上海齐来科技服务园区 4 号楼 2 楼 邮编:200233
Tel: +86 21 5339 5999 Fax: +86 21 5426 2030 E-mail: textile.shanghai@intertek.com Website: Intertek.com
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Wastewater / Heavy metals - Test items	Effluent		
	Foundational	Progressive	Aspirational
Chromium (VI)			Meet
Arsenic			Meet
Cadmium			Meet
Lead			Meet
Mercury			Meet

Sludge – Disposal Pathways
A

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

Sludge / Anion - Test items	Sludge
Cyanide	Report only, refer data

Sludge / Conventional parameters - Test items	Sludge
pH	Report only, refer data ^[1]
% Solids	Report only, refer data
Paint filter test	Report only, refer data
Faecal coliform	Report only, refer data

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Sludge / MRSL - Test items	Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	Report only, refer data
Polycyclic Aromatic Hydrocarbons (PAHs)	Report only, refer data
Chlorotoluenes	Report only, refer data

Note :	
ND = Not detected (less than reporting limit)	
D = Detected	
N/A = Not applicable	- = Did not perform
# = No comment	* = See Remark
^(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.	

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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: With reference to ISO 18857-2 (modified dichloromethane extraction) with GC-MS analysis.

OPEO/NPEO (n>2): With reference to ASTM D7742 or ISO 18857-2 with GC-MS and LC-MS-MS analysis.

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

Remark : ND = Not detected (less than reporting limit)

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Tests Conducted (As Requested By The Applicant)

2 Anti- Microbials & Biocides:

OPP, Triclosan: With reference to US EPA 8270E and BS EN 12673-1999 Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS analysis.

Permethrin: With reference to US EPA 8270E Solvent extraction, followed by GC-MS analysis.

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

Remark : ND = Not detected (less than reporting limit)

3 Chlorinated Paraffins:

For MCCP: With reference to EPA 3510, analysis by ISO18219-2:2021 with GC-MS-NCI or LC-MS-MS analysis.

For SCCP: With reference to EPA 3510, analysis by ISO18219-1:2021, ISO 12010:2019 with GC-MS-NCI or LC-MS-MS analysis.

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

Remark : ND = Not detected (less than reporting limit)

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Tests Conducted (As Requested By The Applicant)

4 Chlorobenzenes And Chlorotoluenes:

With reference to USEPA 8260D, USEPA 8270E, Dichloromethane extraction followed by GC-MS analysis.

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

Remark : ND = Not detected (less than reporting limit)

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5 Chlorophenols:

With reference to US EPA 8270E and BS EN 12673-1999, Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS.

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

Remark : ND = Not detected (less than reporting limit)

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Tests Conducted (As Requested By The Applicant)

6 Dimethyl Formamide (DMFa):

With reference to US EPA 8270E.

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

Remark : ND = Not detected (less than reporting limit)
(*) = Sample and report for mock leather.

7 Dyes – Carcinogenic or Equivalent Concern:

By Liquid extraction, LC-MS-MS analysis.

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

Remark : ND = Not detected (less than reporting limit)

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8 Dyes – Disperse (Allergenic):

By Liquid extraction, LC-MS-MS analysis.

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

Remark : ND = Not detected (less than reporting limit)

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9 Dyes – Navy Blue Colourant:

By Liquid extraction, LC-MS-MS analysis.

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

Remark : ND = Not detected (less than reporting limit)

10 Flame Retardants:

Other flame retardant substances: With reference to US EPA 8270E, Dichloromethane extraction GC-MS or LC-MS-MS analysis.

Borate salt: determined as total boron via ICP analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Incoming water (µg/L)	Untreated wastewater (µg/L)
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	-	ND
Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9	25	-	ND
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	-	ND
Hexabromocyclododecane (HBCDD)	3194-55-6	25	-	ND
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	-	ND
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	-	ND
Polybromobiphenyls (PBBs)	59536-65-1	25	-	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	25	-	ND

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Chemical substances	CAS no.	Reporting limit (µg/L)	Incoming water (µg/L)	Untreated wastewater (µg/L)
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	-	ND
Tris(1-aziridinyl)phosphine oxide) (TEPA)	545-55-1	25	-	ND
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	-	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	-	ND
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25	-	ND
Decabromobiphenyl (DecaBB)	13654-09-6	25	-	ND
Dibromobiphenyls (DiBB)	Multiple	25	-	ND
Octabromobiphenyls (OctaBB)	Multiple	25	-	ND
Dibromopropylether	21850-44-2	25	-	ND
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	-	ND
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	-	ND
Monobromobiphenyls (MonoBB)	Multiple	25	-	ND
Monobromodiphenylethers (MonoBDEs)	Multiple	25	-	ND
Nonabromobiphenyls (NonaBB)	Multiple	25	-	ND
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	-	ND
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	-	ND
Tribromodiphenylethers (TriBDEs)	Multiple	25	-	ND
Boric acid **	10043-35-3 11113-50-1	100 in Boron	-	ND
Diboron trioxide **	1303-86-2	100 in Boron	-	ND
Disodium octaborate **	12008-41-2	100 in Boron	-	ND
Disodium tetraborate anhydrous **	1303-96-4 1330-43-4	100 in Boron	-	ND
Tetraboron disodium heptaoxide, hydrate **	12267-73-1	100 in Boron	-	ND

Remark : ND = Not detected (less than reporting limit)

** Report total boron directly, no conversion from Boron salt.

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Tests Conducted (As Requested By The Applicant)

11 Glycols / Glycol Ethers:

With reference to US EPA 8270E, Liquid extraction, GC-MS analysis.

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

Remark : ND = Not detected (less than reporting limit)

12 Halogenated Solvents:

With reference to USEPA 8260D, Purge and trap GC-MS analysis.

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

Remark : ND = Not detected (less than reporting limit)

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13 Organotin Compounds:

With reference to ISO 17353, Derivatisation with NaB (C₂H₅)₄, with GC-MS analysis.

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

Remark : ND = Not detected (less than reporting limit)

14 Other/Miscellaneous Chemicals:

Others: With reference to Liquid extraction, LC-MS-MS analysis.

Borate salt: determined as total boron and total zinc via ICP analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Incoming water (µg/L)	Untreated wastewater (µg/L)
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500	-	ND
Bisphenol A	80-05-7	10	-	ND
Thiourea	62-56-6	50	-	ND
Quinoline	91-22-5	50	-	ND
Borate, zinc salt (^)	12767-90-7	100 in Boron & 100 in Zinc	Boron: - Zinc: -	Boron:ND Zinc:125

Remark : ND = Not detected (less than reporting limit)

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

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15 Perfluorinated & Polyfluorinated Chemicals (PFCs):

PFCs: With reference to EPA 537:2020 with LC-MSMS.

FTOH: With reference to EPA 8270E, solvent extraction followed by GC-MS.

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

Remark : ND = Not detected (less than reporting limit)

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Tests Conducted (As Requested By The Applicant)

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

With reference to USEPA 8270E, ISO 18856, Dichloromethane extraction GC-MS analysis.

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

Remark : ND = Not detected (less than reporting limit)

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17 Polycyclic Aromatic Hydrocarbons (PAHs):

With reference to US EPA 8270E, solvent extraction GC-MS analysis.

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

Remark : ND = Not detected (less than reporting limit)

TEST REPORT

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

Number : SHAT07742994

Tests Conducted (As Requested By The Applicant)

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

With reference to reduction step with sodium dithionite, solvent extraction, EPA 8270E and ISO 14362-1 and ISO 14362-3 (if needed) with GC-MS and LC-MS-MS analysis.

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

Remark : ND = Not detected (less than reporting limit)

TEST REPORT

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

Number : SHAT07742994

Tests Conducted (As Requested By The Applicant)

19 UV Absorbers:

With reference to US EPA 8270E, solvent extraction GC-MS analysis.

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

Remark : ND = Not detected (less than reporting limit)

20 Volatile Organic Compounds (VOCs):

Benzene and Xylene: With reference to US EPA 8260D Purge and trap, GC-MS analysis.

m, o, p-cresol: With reference to US EPA 8270E and BS EN 12673-1999 solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS.

Toluene: With reference to HJ 1067 or EPA 8260D Purge and trap, GC-MS analysis.

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

Remark : ND = Not detected (less than reporting limit)

(*) = Sample and report for mock leather.

TEST REPORT

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

Number : SHAT07742994

Tests Conducted (As Requested By The Applicant)

21 Heavy Metals:

With reference to HJ 700, GB 7467, HJ 694.

Chemical substances	Limit			Reporting limit (mg/L)	Incoming water (mg/L)	Effluent (mg/L)
	Foundational	Progressive	Aspirational			
Chromium (VI)	0.05 mg/L	0.005 mg/L	0.001 mg/L	0.001	-	ND
Arsenic	0.05 mg/L	0.01 mg/L	0.005 mg/L	0.005	-	ND
Cadmium	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01	-	ND
Lead	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01	-	ND
Mercury	0.01 mg/L	0.005 mg/L	0.001 mg/L	0.001	-	ND

Remark : ND = Not detected (less than reporting limit)

TEST REPORT

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

Number : SHAT07742994

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

Sludge flux (weight/time) and / or flow data volume/time: 20 t/d

1 Heavy Metals:

Other heavy metals: With reference to HJ 803 with ICP/OES, or ICP-MS analysis.

Chromium VI: With reference to alkaline digestion USEPA 3060a, USEPA 7196 with Colourimetric UV/VIS analysis.

Mercury: With reference to USEPA 3051a, USEPA 6020b, with ICP-MS analysis.

Chemical substances	Reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Antimony	5	ND	mg/kg
Arsenic	5	ND	mg/kg
Barium	200	ND	mg/kg
Cadmium	1	ND	mg/kg
Cobalt	400	ND	mg/kg
Copper	50	347	mg/kg
Lead	5	ND	mg/kg
Nickel	20	58	mg/kg
Selenium	5	ND	mg/kg
Silver	50	ND	mg/kg
Total Chromium	50	146	mg/kg
Zinc	400	ND	mg/kg
Chromium (VI)	20	ND	mg/kg
Mercury	1	ND	mg/kg

Remark : ND = Not detected (less than reporting limit)

@ = Maximum holding time exceeded.

TEST REPORT

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

Number : SHAT07742994

Tests Conducted (As Requested By The Applicant)

2 Leachate heavy metals:

With reference to toxicity leachate extraction procedure EPA 1311 followed by EPA 3051A, with ICP-OES, ICP-MS analysis.

Chromium VI: With reference to toxicity leachate extraction procedure EPA 1311 followed by USEPA 7196 Colourimetric UV/VIS analysis.

Mercury: With reference to toxicity leachate extraction procedure EPA 1311 followed by EPA 3051a with EPA 6020b ICP-MS analysis.

Chemical substances	Reporting limit (mg/L)	Sludge	Unit
Total Chromium	5	ND	mg/L
Copper	10	ND	mg/L
Nickel	3.5	ND	mg/L

Remark : ND = Not detected (less than reporting limit)

3 Anions:

With reference to HJ745 with Colourimetry analysis.

Chemical substances	Reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Cyanide	20	ND	mg/kg

Remark : ND = Not detected (less than reporting limit)

@ = Maximum holding time exceeded.

TEST REPORT

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

Number : SHAT07742994

Tests Conducted (As Requested By The Applicant)

4 Conventional Parameters:

Chemical substances	Test method	Reporting limit (Dry weight)	Sludge (Dry weight)	Unit
pH	HJ962	N/A	8.74 ^[f]	N/A
% Solids	HJ613	N/A	57.0	%
Paint Filter Test [^]	USEPA 9095B	N/A	Pass	N/A
Fecal Coliform	USEPA 1681	10	ND	MPN/g

Remark : ND = Not detected (less than reporting limit)

@ = Maximum holding time exceeded.

[^] - 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:

With reference to US EPA 3550, ISO 18857-2, ISO 18254-1, with GC-MS and LC-MS-MS analysis.

Chemical substances	CAS no.	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

Remark : ND = Not detected (less than reporting limit)

TEST REPORT

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

Number : SHAT07742994

Tests Conducted (As Requested By The Applicant)

6 Polycyclic Aromatic Hydrocarbons (PAHs):

With reference to US EPA 3550, US EPA 8270E, with GC-MS analysis.

Chemical substances	CAS no.	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

Remark : ND = Not detected (less than reporting limit)

7 Chlorotoluenes:

With reference to US EPA 3550, US EPA 8270E with GC-MS analysis.

Chemical substances	CAS no.	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

Remark : ND = Not detected (less than reporting limit)

TEST REPORT

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

Number : SHAT07742994

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	4300
Copper	200		25	17.5	10	10	10	
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		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				Pass Paint filter test			< 1000 (MPN/g)	Sample and report only
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								

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 : SHAT07742994

Tests Conducted (As Requested By The Applicant)

Photo of sampling points:



TEST REPORT

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

Number : SHAT07742994

Tests Conducted (As Requested By The Applicant)

Photo of samples:



TEST REPORT

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

Number : SHAT07742994

Tests Conducted (As Requested By The Applicant)

Attachment – sampling protocol for wastewater & sludge:

intertek ZDHC Monitoring																																					
Sampling Protocol for Wastewater and Sludge acc. ZDHC SAP 2.1 incl. Apdx. E																																					
Facility Name	宜兴新源纺织印染有限公司																																				
Address and Contact:	宜兴徐霞村东石碛飞猪路103																																				
Facility type : (tick all applicable)	<input checked="" type="checkbox"/> Dyeing and Finishing <input type="checkbox"/> Fabric Mill <input type="checkbox"/> Laundry, Washing and Finishing <input type="checkbox"/> Natural Leather processing <input type="checkbox"/> Printing <input type="checkbox"/> Synthetic Leather processing																																				
Date of sampling:	2023.07.07																																				
Sample General ID (if applicable):	7742994																																				
Discharge description:	宜兴新源纺织印染有限公司城市污水处理厂																																				
Weather conditions:	on sampling day: 晴 on day before: 晴																																				
Fill in all above information as applicable.																																					
Sample Type and Details (see also page 2)																																					
<input checked="" type="checkbox"/> Effluent Discharge <input type="checkbox"/> direct: Enter sampling times in Sample Details (page 2), and measure field parameters. <input checked="" type="checkbox"/> indirect: Enter sampling time(s) for indirect discharge. Field parameters are not required, except on client's request. <input type="checkbox"/> Facility has WWTP <input type="checkbox"/> Plant is in operating condition	<input checked="" type="checkbox"/> with Homogenisation / Equalisation Tank (HT) present: Hydraulic Retention Time (HRT): 7.2 h (= Volume of tank [m ³] / Flow rate [m ³ /h]) If HRT > 12h, grab sampling for both untreated and treated wastewater from a point after the HT can be applied.																																				
<input type="checkbox"/> Pre-treated WW without sludge	<input type="checkbox"/> Untreated WW																																				
<input checked="" type="checkbox"/> Incoming Water	<input type="checkbox"/> MMCF																																				
<input type="checkbox"/> Sludge with below disposal pathway*: <input checked="" type="checkbox"/> A >1000 °C offsite incineration <input type="checkbox"/> B Landfill with significant control <input type="checkbox"/> C Building products processed >1000 °C <input type="checkbox"/> D Landfill with limited control <input type="checkbox"/> E Incineration / Building products processed <1000 °C <input type="checkbox"/> F Landfill with no control <input type="checkbox"/> G Land application * If supplier cannot provide information, pathway "F" shall be assumed.																																					
Sludge volume generated: 20 Om ³ /h OL/sec Other unit (specify): 7/61 per facility info <input type="checkbox"/> measured <input type="checkbox"/> estimated																																					
<input type="checkbox"/> Process Chemical <input type="checkbox"/> liquid <input type="checkbox"/> solid (powder / granulate / pieces) <input type="checkbox"/> 'in process' <input type="checkbox"/> from warehouse/storage																																					
Times of sampling (if applicable)	<table border="1"> <tr> <th>Untreated:</th> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td> <td>or Grab: 10:07</td> </tr> <tr> <th>Effluent (indirect):*</th> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td> <td>or Grab: 10:12</td> </tr> <tr> <th>Incoming:</th> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td> <td>or Grab: 9:28</td> </tr> <tr> <th>Sludge (liquid):</th> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td> <td>Solid sludge: 9:53</td> </tr> </table>	Untreated:	1	2	3	4	5	6	7	or Grab: 10:07	Effluent (indirect):*	1	2	3	4	5	6	7	or Grab: 10:12	Incoming:	1	2	3	4	5	6	7	or Grab: 9:28	Sludge (liquid):	1	2	3	4	5	6	7	Solid sludge: 9:53
Untreated:	1	2	3	4	5	6	7	or Grab: 10:07																													
Effluent (indirect):*	1	2	3	4	5	6	7	or Grab: 10:12																													
Incoming:	1	2	3	4	5	6	7	or Grab: 9:28																													
Sludge (liquid):	1	2	3	4	5	6	7	Solid sludge: 9:53																													
(for direct discharge, see below)																																					
Picture ID (or Date & Time / Interval):	GPS coordinates of sampling points:																																				
1M6-2612 1M6-2624 -2616 2M6-2630 7M6-2619 1M6-2627 -2633	Incoming W.: Lat.: 0N 0S 31°25'55" Long.: 0E 0W 111°56'15" Untreated WW: Lat.: 0N 0S 31°25'21" Long.: 0E 0W 111°56'54" Effluent: Lat.: 0N 0S 31°25'48" Long.: 0E 0W 111°56'41" Sludge: Lat.: 0N 0S 31°25'34" Long.: 0E 0W 111°56'8"																																				
Rev 10b-3 - use with Guideline CS009 (Issue 10b) Page 1 of 3 Effective Date: 30-May-2023 ©Intertek 2021. All Rights Reserved. Intertek is the owner of the copyright in the material and intellectual know-how presented. No parts of this material may be reproduced, adapted, or distributed outside of your company without the consent of Intertek other than to the extent necessary to view the material.																																					

TEST REPORT

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

Number : SHAT07742994

Tests Conducted (As Requested By The Applicant)

intertek ZDHC Monitoring
Total Quality. Assured.

<input type="checkbox"/> Composite Sample <input type="checkbox"/> Grab Sample <small>(enter data in column for Averaged Readings and in field at right)</small>									Volume of aliquot(s):	
Time of discrete effluent sample **	1	2	3	4	5	6	7		Averaged Readings or Grab Sample:	
pH:										
Temp. WW discharge of receiving water	°C	°C	°C	°C	°C	°C	°C	°C	°C	
Flow rate:	L/s	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	mg/L	
Total Chlorine:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Persistent foam:	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> 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:	<input checked="" type="checkbox"/> Flow meter (in facility)	<input type="checkbox"/> Pipe (O)	<input type="checkbox"/> Flume (U)	<input type="checkbox"/> 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	30	无臭	无色透明	<input type="radio"/> yes <input checked="" type="radio"/> no	<input type="radio"/> yes <input checked="" type="radio"/> no
Untreated	30	微臭	蓝	<input type="radio"/> yes <input checked="" type="radio"/> no	<input type="radio"/> yes <input checked="" type="radio"/> no
Effluent	30	无臭	黄	<input type="radio"/> yes <input checked="" type="radio"/> no	<input type="radio"/> yes <input checked="" type="radio"/> no
Sludge	30	微臭	黑		

Field Testing QA/QC			
Parameter	Lab Control Sample target value	Lab Control Sample measured value	Accuracy [%]
pH			
Total Chlorine			

Other observations:
 污水平均流量为1500m³/d
 污水PH: 8.74

Additional notes (e.g., alternatively measured flow and readings, abbreviations used, etc):
 天威和新东祥. 共用污水和Sludge

Rev 10b-3 - use with Guideline CS009.TP (Issue 10b) Page 2 of 3 Effective Date: 30-May-2023
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TEST REPORT

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

Number : SHAT07742994

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.	
Sampling person (name & email address): <u>Bruce / bruce.fung@intertek.com</u>	Facility Name: <u>宜兴新材料纺织印染有限公司</u>
Sampler's ZDHC accreditation no.: <u>C740106817347</u>	Facility's Representative name: <u>王言斌</u>
Sampler's Signature: <u>Bruce</u>	Facility's Representative Signature and Stamp: <u>王言斌</u>
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