

TEST REPORT

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

Number : SHAT07583095

Date : Apr 19, 2023

Factory's name	:	HANGZHOU XINYUAN PRINTING&DYEING CO.,LTD
Factory's address	:	NO., 158 ZHENZHONG ROAD, DANGWAN TOWN, XIAOSHAN DISTRICT, HANGZHOU CITY
Type of wastewater discharge	:	Indirect discharge
On-site Wastewater treatment plant	:	Without pretreatment
Average total industrial wastewater generated	:	≥ 15m ³ /day
Date and time of the beginning of sampling:		31 Mar, 2023 08:37
Date and time of the end of sampling:		31 Mar, 2023 13:37
Date received sample:		31 Mar, 2023 PM
Testing period:		From 31 Mar, 2023 PM to 18 Mar, 2023
Arrival temperature at laboratory:		7.4 °C
Sample type	:	
Sample / Incoming water	:	Colorless, grab sample at 08:43 Sampling location: Latitude 30°13'3"N, Longitude 120°32'57"E
Sample / Untreated wastewater	:	Yellow, composite sample at 08:37, 09:37, 10:37, 11:37, 12:37, 13:37 Sampling location: Latitude 30°14'44"N, Longitude 120°32'57"E
Sampling laboratory	:	Intertek Testing Services Ltd., Shanghai
Testing laboratory	:	Intertek Testing Services Ltd., Shanghai
ZDHC sampler accreditation certification number	:	C74D106817240

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
Technical Manager

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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)	D	D
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

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

TEST REPORT

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TEST REPORT (TEXTILES)**

Number : SHAT07583095

Wastewater / Heavy metals - Test items	Effluent		
	Foundational	Progressive	Aspirational
Chromium (VI)			Meet
Arsenic			Meet
Cadmium			Meet
Lead			Meet
Mercury			Meet

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.	
^[r] = 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)

TEST REPORT

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TEST REPORT (TEXTILES)**

Number : SHAT07583095

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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

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TEST REPORT

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Number : SHAT07583095

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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)

TEST REPORT

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TEST REPORT (TEXTILES)**

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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

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TEST REPORT

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TEST REPORT (TEXTILES)**

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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)

(*) Report for mock leather only.

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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)

TEST REPORT

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TEST REPORT (TEXTILES)**

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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)

TEST REPORT

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TEST REPORT (TEXTILES)**

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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)

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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
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

TEST REPORT

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

Number : SHAT07583095

Tests Conducted (As Requested By The Applicant)

Chemical substances	CAS no.	Reporting limit (µg/L)	Incoming Water (µg/L)	Untreated wastewater (µg/L)
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)

TEST REPORT

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TEST REPORT (TEXTILES)**

Number : SHAT07583095

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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)

TEST REPORT

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TEST REPORT (TEXTILES)**

Number : SHAT07583095

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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
Tetrabutyltin 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	-	ND

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

TEST REPORT

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

Number : SHAT07583095

Tests Conducted (As Requested By The Applicant)

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	0.04	0.04
Perfluorooctanoic acid (PFOA) related substances	Multiple	1	ND	ND

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

TEST REPORT

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

Number : SHAT07583095

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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)

TEST REPORT

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TEST REPORT (TEXTILES)**

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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

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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 : SHAT07583095

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)

(*) Report for mock leather only.

TEST REPORT

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

Number : SHAT07583095

Tests Conducted (As Requested By The Applicant)

21 Heavy Metals:

With reference to ISO 17294, ISO 18412, US EPA 200.8, USEPA 6010C, USEPA 6020A, USEPA 218.6, USEPA 200.8-SIM, USEPA 6020A-SIM, USEPA 245.1, USEPA 245.7, HJ 700, GB 7467, GB 7475, GB 11912, GB 11907, GB 7472, HJ 597, HJ 694, IS 3025 (Part 65), IS 3025 (Part 52), IS 3025 (Part 41), IS 3025 (Part 42), IS 3025 (Part 47), IS 3025 (Part 54), IS 3025 (Part 49), IS 3025 (Part 48 cold vapor), IS 3025 (Part 65-SI).

Chemical substances	Limit			Reporting limit (mg/L)	Incoming Water (µg/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 : SHAT07583095

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 : SHAT07583095

Tests Conducted (As Requested By The Applicant)

Photo of sampling points:



Incoming water



Incoming water



Untreated wastewater



Untreated wastewater

TEST REPORT

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

Number : SHAT07583095

Tests Conducted (As Requested By The Applicant)

Photo of samples:



Incoming water



Untreated wastewater


TEST REPORT

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

Number : SHAT07583095

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

Customer: _____

Address: _____

Facility type & name: 纺织染整 水洗 漂染后整理工厂 / 杭州 联元印染有限公司.

Facility location / address: 杭州 联元印染有限公司 / 杭州 萧山区 党湾镇 中坞 1583

Operator of facility: 张杨

Cause of sampling: ZDHC **Date of sampling:** 2022.3.11

Sample General ID (if available): STJ7583095

<input type="checkbox"/> direct discharge	<input type="checkbox"/> without treatment	Discharge to:
<input checked="" type="checkbox"/> indirect discharge	<input type="checkbox"/> with pre-treatment	
<input type="checkbox"/> Zero Liquid Discharge (ZLD)	<input type="checkbox"/> with own ETP	
<input type="checkbox"/> MMCF		

Discharge description: 污水处理

Weather conditions: on sampling day: 阴 on day before: 阴

Sample Type and Details (also see page 2)

Effluent direct indirect

Discharge

Enter sampling times in Sample Details (page 2), and measure field parameters.

Enter sampling time(s) for Indirect discharge. Field parameters are not required, except on client's request.

with Homogenisation / Equalisation Tank (HT) present:
Hydraulic Retention Time (HRT): 8 h
(= Volume of tank [m³] / Flow rate [m³/h])
If HRT > 12h, grab sampling for both untreated and treated wastewater from a point after the HT could be applied.

Untreated Wastewater Incoming Water MMCF

Sludge with below disposal pathway:

<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	<input type="radio"/> 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

Sludge volume produced: _____ Om³/h O l/sec O other unit (specify): _____ O per facility info O measured O estimated

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

Times of sampling (if applicable)	Untreated Wastewater:	1	2	3	4	5	6	or Grab: _____ Sludge: _____
	Indirect Discharge:	1	2	3	4	5	6	
	Incoming Water:	1	2	3	4	5	6	

(for direct discharge, see page 2)

Picture ID (or Date & Time / Interval): M6-1573
-1582

GPS coordinates of sampling points:

Incoming W.:	Lat.: ON OS 30°13'3"	Long.: OE OW 120°32'57"
Untreated WW:	Lat.: ON OS 30°14'44"	Long.: OE OW 120°32'57"
Effluent:	Lat.: ON OS	Long.: OE OW
Sludge:	Lat.: ON OS	Long.: OE OW

Rev 10b-2 - use with Guideline CS009.TP (Issue 10b) Page 1 of 3 Effective Date: 08-Mar-2023
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TEST REPORT

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

Number : SHAT07583095

Tests Conducted (As Requested By The Applicant)

ZDHC Monitoring

Total Quality. Assured.

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

Composite Sample Grab Sample
(Use column for Averaged Readings and fields at right) Volume of aliquot(s): _____ mL

Time of taking discrete sample	1	2	3	4	5	6	Averaged Readings or Grab Sample:
pH:							
Temp. WW discharge of receiving water	°C	°C	°C	°C	°C	°C	°C
Flow rate:	m ³ /h	m ³ /h	m ³ /h	m ³ /h	m ³ /h	m ³ /h	1500 m ³ /d, av.
Dissolved Oxygen:	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
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

Use comment field if number of samples is greater than six, or if above fields are otherwise not sufficient.

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

Wastewater Flow Data (Effluent/Discharge)

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

Diameter [cm] _____ *80 x 100*

Water Depth [cm] _____

Flow Speed [cm/sec] _____ *32.3*

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

Type	Ambient air [°C] Odour		Colour	Foaming	Floating matter
Incoming	<i>18</i>	<i>-</i>	<i>无</i>	<input type="radio"/> yes <input checked="" type="radio"/> no	<input type="radio"/> yes <input checked="" type="radio"/> no
Untreated:	<i>16</i>	<i>无</i>	<i>黄</i>	<input type="radio"/> yes <input checked="" type="radio"/> no	<input type="radio"/> yes <input checked="" type="radio"/> no
Effluent				<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no

Field Testing QA/QC

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

Other observations: *FFS: 1600 t/d*
untreated: 1500 m³/d pH: 7.6

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

Rev 10b-2 - use with Guideline CS009.TP (Issue 10b) Page 2 of 3 Effective Date: 08-Mar-2023
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Page 26 Of 27


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

TEST REPORT

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

Number : SHAT07583095

Tests Conducted (As Requested By The Applicant)

	
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>	<u>Facility Name:</u>
Alan.zhu@intertek.com	杭州欣无印服饰有限公司
<u>Sampler's ZDHC accreditation no.:</u>	<u>Facility's Representative name:</u>
C742106817270	张杨
<u>Sampler's Signature:</u>	<u>Facility's Representative Signature and Stamp:</u>
AL	张杨 无法提供印章

Rev 10b-2 - use with Guideline CS009 TP (Issue 10b) Page 3 of 3 Effective Date: 08-Mar-2023
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