

TEST REPORT

**SOFTLINES WASTEWATER TESTING**

Number : SHAT06922597

Date : Jun 11, 2021

Factory:

Factory's name : CHANGZHOU XINGUANG PRINTING&DYEING CO.LTD  
Address : NO.28 SOUTH FENGHUANG ROAD, HUTANG TOWN, WUJIN,  
CHANGZHOU CITY, JIANGSU  
On-site Wastewater treatment plant : No  
Type of wastewater discharge : Indirect discharge  
Date of sampling : May 28, 2021  
Sample type  
Sample / Raw wastewater : Black, composite sample at 09:05; 10:05; 11:05; 12:05; 13:05;  
14:05; 15:05  
ZDHC sampler accreditation  
certification number : 8F146506855  
Local legal standard name<sup>[a]</sup> : Discharge standards of water pollutants for dyeing and finishing of  
textile industry  
Local legal standard no. <sup>[a]</sup> : GB 4287-2012  
Parameters (ZDHC WWG V1,1, Table  
1A-1B) exceeded local regulation : N/A  
Discharge permit provided : Yes  
Ambient temperature of receiving  
water body : N/A  
Date of received : May 29, 2021 PM  
Test performing period : May 29, 2021 PM to Jun 10 2021

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Tests conducted:

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

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



Jane Wu  
General Manager of Softlines

**Intertek Testing Services Ltd., Shanghai**

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Attention is drawn to the terms and conditions printed overleaf

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**Summary of test results:**

Wastewater / Heavy metals - Test items	Raw Wastewater		
	Foundational	Progressive	Aspirational
Antimony, Sb			X
Chromium, Cr (total)	X		
Cobalt, Co			X
Copper, Cu			X
Nickel, Ni			X
Silver, Ag			X
Zinc, Zn			X
Arsenic, As			X
Cadmium, Cd			X
Chromium (VI), Cr VI			X
Lead, Pb			X
Mercury, Hg			X

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Test items	Raw Wastewater
Heavy metals	<b>D</b>
Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)	ND
Chlorobenzenes and Chlorotoluenes	ND
Chlorophenols	ND
Azo dyes (Forming restricted amines)	<b>D</b>
Carcinogenic dyes	ND
Disperse dyes	ND
Flame retardants	ND
Glycols	ND
Halogenated solvents	ND
Organotin compounds	ND
Perfluorinated & Polyfluorinated chemicals (PFCs)	ND
Phthalates (Ortho-phthalates)	ND
Polycyclic aromatic hydrocarbons (PAHs)	ND
Volatile organic compounds (VOCs)	ND

Note :	
ND = Not detected	
D = Detected [ <i>please specify actual result</i> ]	
N/A = Not applicable	- = Did not perform
# = No comment	* = See Remark
@ = Maximum holding time exceeded.	
[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 Heavy Metals:

With reference to ISO 11885, ISO 18412, ISO 12846, ISO 17852, US EPA 200.7, US EPA 200.8, US EPA 6010c, US EPA 6020a, US EPA 218.6, GB 7467, HJ700, GB7475 and by Inductively Coupled Argon Plasma-Mass Spectrometry (ICP-MS) analysis, or by Colourimetric UV/VIS analysis.

Chemical substances	CAS no.	Limit			Legal* Requirement (mg/L)	Reporting limit (mg/L)	Raw Wastewater (mg/L)
		Foundational (mg/L)	Progressive (mg/L)	Aspirational (mg/L)			
Antimony, Sb	7440-36-0	0.1	0.05	0.01	N/A	0.001	0.008
Chromium, Cr (total)	7440-47-3	0.2	0.1	0.05	N/A	0.001	0.145
Cobalt, Co	7440-48-4	0.05	0.02	0.01	N/A	0.001	ND
Copper, Cu	7440-50-8	1.0	0.5	0.25	N/A	0.001	0.167
Nickel, Ni	7440-02-0	0.2	0.1	0.05	N/A	0.001	0.005
Silver, Ag	7440-22-4	0.1	0.05	0.005	N/A	0.001	0.001
Zinc, Zn	7440-66-6	5.0	1.0	0.5	N/A	0.001	0.111
Arsenic, As	7440-38-2	0.05	0.01	0.005	N/A	0.001	0.002
Cadmium, Cd	7440-43-9	0.1	0.05	0.01	N/A	0.0001	0.0001
Chromium (VI), Cr VI	18540-29-9	0.05	0.005	0.001	N/A	0.001	ND
Lead, Pb	7439-92-1	0.1	0.05	0.01	N/A	0.001	0.007
Mercury, Hg	7439-97-6	0.01	0.005	0.001	N/A	0.00005	0.00021

Remark : ND = Not detected

\* Regulation/Standard information for discharged wastewater as well as the limitation value (or contractual limit value agreed by CETP) for the required parameters (mandatory).

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Tests Conducted (As Requested By The Applicant)

2 Alkylphenol ethoxylates / Alkylphenols (APEOs/APs):

With reference to ISO 18857-2/ASTM D7065, ISO 18254-1/2, and by Gas Chromatography-Mass Spectrometry (GC-MS) and Liquid Chromatography-tandem Mass Spectrometry (LC-MS/MS) analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Raw Wastewater (µg/L)
Nonylphenol(NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	5.0	ND
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	5.0	ND
Nonylphenol ethoxylates (NPEO)	9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	5.0	ND
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	5.0	ND

Remark : ND = Not detected

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Tests Conducted (As Requested By The Applicant)

3 Chlorobenzenes And Chlorotoluenes:

With reference to US EPA 8260B, US EPA 8270D, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Raw Wastewater (µg/L)
Monochlorobenzene	108-90-7	0.2	ND
1,2-Dichlorobenzene	95-50-1	0.2	ND
1,3-Dichlorobenzene	541-73-1	0.2	ND
1,4-Dichlorobenzene	106-46-7	0.2	ND
1,2,4-Trichlorobenzene	120-82-1	0.2	ND
1,2,3-Trichlorobenzene	87-61-6	0.2	ND
1,3,5-Trichlorobenzene	108-70-3	0.2	ND
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	ND
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2	ND
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	ND
Pentachlorobenzene	608-93-5	0.2	ND
Hexachlorobenzene	118-74-1	0.2	ND
2-Chlorotoluene	95-49-8	0.2	ND
3-Chlorotoluene	108-41-8	0.2	
4-Chlorotoluene	106-43-4	0.2	
2,3-Dichlorotoluene	32768-54-0	0.2	ND
3,4-Dichlorotoluene	95-75-0	0.2	
2,4-Dichlorotoluene	95-73-8	0.2	ND
2,5-Dichlorotoluene	19398-61-9	0.2	
2,6-Dichlorotoluene	118-69-4	0.2	
3,5-Dichlorotoluene	25186-47-4	0.2	ND
2,3,4-Trichlorotoluene	7359-72-0	0.2	ND
2,3,6-Trichlorotoluene	2077-46-5	0.2	ND
3,4,5-Trichlorotoluene	21472-86-6	0.2	
2,4,5-Trichlorotoluene	6639-30-1	0.2	ND
2,4,6-Trichlorotoluene	23749-65-7	0.2	
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	ND
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	ND
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	
Pentachlorotoluene	877-11-2	0.2	ND

Remark : ND = Not detected

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4 Chlorophenols:

With reference to US EPA 8270D and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical Substances	CAS No.	Reporting Limit (µg/L)	Raw Wastewater (µg/L)
2-Chlorophenol	95-57-8	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
Pentachlorophenol (PCP)	87-86-5	0.5	ND
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	ND
2,4,5-Trichlorophenol	95-95-4	0.5	ND
2,4,6-Trichlorophenol	88-06-2	0.5	ND
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	ND
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	ND
2,3,6-Trichlorophenol	933-75-5	0.5	ND
2,3,4-Trichlorophenol	15950-66-0	0.5	ND
2,3,5-Trichlorophenol	933-78-8	0.5	ND
3,4,5-Trichlorophenol	609-19-8	0.5	ND
3,5- Dichlorophenol	591-35-5	0.5	ND
2,3-Dichlorophenol	576-24-9	0.5	ND
3,4-Dichlorophenol	95-77-2	0.5	ND
3-chlorophenol	108-43-0	0.5	ND
4-chlorophenol	106-48-9	0.5	ND

Remark : ND = Not detected

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5 Azo Dyes (Forming Restricted Amines):

With reference to EN 14362-1/3, and by Gas Chromatographic - Mass Spectrometric (GC-MS) or and Liquid Chromatography-tandem Mass Spectrometry (LC-MS/MS) analysis.

Chemical Substances	CAS No.	Reporting Limit (µg/L)	Raw Wastewater (µg/L)
2,4,5-Trimethylaniline	137-17-7	0.1	ND
4-methoxy-m-phenylenediamine	615-05-4	0.1	ND
4-methyl-m-phenylenediamine	95-80-7	0.1	ND
2,4-Xylidine	95-68-1	0.1	ND
2,6-Xylidine	87-62-7	0.1	ND
2-Naphthylamine	91-59-8	0.1	ND
3,3'-Dichlorobenzidine	91-94-1	0.1	ND
3,3'-Dimethoxybenzidine	119-90-4	0.1	ND
4,4'-methylenedi-o-toluidine	838-88-0	0.1	ND
3,3'-Dimethylbenzidine	119-93-7	0.1	ND
4,4'-methylenedianiline	101-77-9	0.1	ND
4,4'-Methylene-bis (2-chloroaniline)	101-14-4	0.1	ND
4,4'-Oxydianiline	101-80-4	0.1	ND
4,4'-Thiodianiline	139-65-1	0.1	ND
4-Aminodiphenyl	92-67-1	0.1	ND
4-Chloroaniline	106-47-8	0.1	0.4
4-Chloro-o-toluidine	95-69-2	0.1	ND
5-Nitro-o-toluidine	99-55-8	0.1	ND
4-Aminoazobenzene	60-09-3	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	1.0
6-methoxy-m-toluidine	120-71-8	0.1	ND

Remark : ND = Not detected

The Result Of p-Aminoazobenzene Shown For Raw Wastewater Was Analysed And Confirmed By European Standard EN 14362-3: 2012



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6 Carcinogenic dyes:

By Liquid Chromatography-tandem Mass Spectrometry (LC-MS/MS) analysis.

Chemical Substances	CAS No.	Reporting Limit (µg/L)	Raw Wastewater (µg/L)
C.I. Direct Black 38	1937-37-7	500	ND
C.I. Direct Blue 6	2602-46-2	500	ND
C.I. Acid Red 26	3761-53-3	500	ND
C.I. Basic Red 9	569-61-9	500	ND
C.I. Direct Red 28	573-58-0	500	ND
C.I. Basic Violet 14	632-99-5	500	ND
C.I. Disperse Blue 1	2475-45-8	500	ND
C.I. Disperse Blue 3	2475-46-9	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
Disperse Orange 11	82-28-0	500	ND

Remark : ND = Not detected

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7 Disperse dyes:

By Liquid Chromatography-tandem Mass Spectrometry (LC-MS/MS) analysis.

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

Remark : ND = Not detected

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8 Flame Retardants:

With reference to US EPA 8270, ISO 22032, US EPA 527, EPA 8321B, and by Gas Chromatography - Mass Spectrometry (GC-MS) analysis and Liquid Chromatography-tandem Mass Spectrometry (LC-MS/MS) analysis.

Chemical Substances	CAS No.	Reporting Limit (µg/L)	Raw Wastewater (µg/L)
Decabromodiphenyl ether (DecaBDE)	1163-19-5	5.0	ND
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	5.0	ND
Octabromodiphenylether (OctaBDE)	32536-52-0	5.0	ND
Tris(1-aziridiny) phosphine oxide (TEPA)	545-55-1	5.0	ND
Polybromobiphenyls (PBBs)	59536-65-1	5.0	ND
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	5.0	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	5.0	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	5.0	ND
Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9	5.0	ND
Hexabromocyclododecane (HBCDD)	3194-55-6	5.0	ND
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	5.0	ND
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	5.0	ND
Short-chain chlorinated paraffins (SCCP) (C10-C13)	85535-84-8	5.0	ND

Remark : ND = Not detected

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9 Glycols:

With reference to US EPA 8270 and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical Substances	CAS No.	Reporting Limit (µg/L)	Raw Wastewater (µg/L)
Bis(2-methoxyethyl)-ether	111-96-6	50	ND
2-ethoxyethanol	110-80-5	50	ND
2-ethoxyethyl acetate	111-15-9	50	ND
Ethylene glycol dimethyl ether	110-71-4	50	ND
2-methoxyethanol	109-86-4	50	ND
2-methoxyethylacetate	110-49-6	50	ND
2-methoxypropylacetate	70657-70-4	50	ND
Triethylene glycol dimethyl ether	112-49-2	50	ND

Remark : ND = Not detected

10 Halogenated Solvents:

With reference to US EPA 8260B, and by Headspace Gas Chromatography Mass Spectrometric (HS-GC/MS) analysis.

Chemical Substances	CAS No.	Reporting Limit (µg/L)	Raw Wastewater (µg/L)
1,2-Dichloroethane	107-06-2	1.0	ND
Methylene chloride	75-09-2	1.0	ND
Tetrachloroethylene	127-18-4	1.0	ND
Trichloroethylene	79-01-6	1.0	ND

Remark : ND = Not detected

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11 Organotin Compounds:

With reference to ISO 17353, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical Substances	CAS No.	Reporting Limit (µg/L)	Raw Wastewater (µg/L)
Mono-, di- and tri-butyltin derivatives	Multiple	0.01	ND
Mono, di-, and tri-octyltin derivatives	Multiple	0.01	ND
Mono, di-, and tri-methyltin derivatives	Multiple	0.01	ND
Mono, di-, and tri-phenyltin derivatives	Multiple	0.01	ND

Remark : ND = Not detected

12 Perfluorinated & Polyfluorinated Chemicals (PFCs):

With reference to DIN 38407-42 (modified), and Liquid Chromatography-tandem Mass Spectrometry (LC-MS/MS) analysis and Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical Substances	CAS No.	Reporting Limit (µg/L)	Raw Wastewater (µg/L)
PFOA	335-67-1	0.01	ND
PFOS	1763-23-1	0.01	ND
PFBS	375-73-5; 29420-49-3; 29420-43-3	0.01	ND
PFHxA	307-24-4	0.01	ND
8:2 FTOH	678-39-7	1.0	ND
6:2 FTOH	647-42-7	1.0	ND

Remark : ND = Not detected

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13 Phthalates (Ortho-Phthalates):

With reference to US EPA 8270D, ISO 18856 and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

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

Remark : ND = Not detected

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Tests Conducted (As Requested By The Applicant)

14 Polycyclic Aromatic Hydrocarbons (PAHs):

With reference to US EPA 8270, DIN 38407-39 and by Gas Chromatography - Mass Spectrometry (GC-MS) analysis.

Chemical Substances	CAS No.	Reporting Limit (µg/L)	Raw Wastewater (µg/L)
Benzo[a]pyrene (BaP)	50-32-8	1.0	ND
Anthracene	120-12-7	1.0	ND
Pyrene	129-00-0	1.0	ND
Benzo[ghi]perylene	191-24-2	1.0	ND
Benzo[e]pyrene	192-97-2	1.0	ND
Indeno[1,2,3-cd]pyrene	193-39-5	1.0	ND
Benzo[j]fluoranthene	205-82-3	1.0	ND
Benzo[b]fluoranthene	205-99-2	1.0	ND
Fluoranthene	206-44-0	1.0	ND
Benzo[k]fluoranthene	207-08-9	1.0	ND
Acenaphthylene	208-96-8	1.0	ND
Chrysene	218-01-9	1.0	ND
Dibenz[a,h]anthracene	53-70-3	1.0	ND
Benzo[a]anthracene	56-55-3	1.0	ND
Acenaphthene	83-32-9	1.0	ND
Phenanthrene	85-01-8	1.0	ND
Fluorene	86-73-7	1.0	ND
Naphthalene	91-20-3	1.0	ND

Remark : ND = Not detected

15 Volatile Organic Compounds (VOCs):

With reference to ISO 11423-1 by Headspace Gas Chromatography Mass Spectrometric (HS-GC/MS) analysis.  
With reference to US EPA 8270D, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Raw Wastewater (µg/L)
Benzene	71-43-2	1.0	ND
Xylene	1330-20-7	1.0	ND
o-cresol	95-48-7	1.0	ND
p-cresol	106-44-5	1.0	ND
m-cresol	108-39-4	1.0	ND

Remark : ND = Not detected

TEST REPORT

**SOFTLINES WASTEWATER TESTING**

Number : SHAT06922597

Tests Conducted (As Requested By The Applicant)

Photo of sampling points:



Raw wastewater



Raw wastewater

Photo of samples:



Raw wastewater

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End of Report

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