

# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

Date of sampling	16 Jul, 2024
Reporting Date	22 Jul, 2024

Audit ID	176298	Audit firm	INTERTEK - CHINA NORTH
Company name	CARREMAN (WENSHANG) FABRIC CO.,LTD		
Contact person	ZHU HONGSHENG		
Type of tax - tax ID no	91370830MA3ELG6D8W		
Address	North of Quanhe Road, West of Shuguang Road, South of Chenxin Road, Wenshang Economic Development Zone		
Region state province	Shandong		
Town city / village	Jining		
Zip/Post code	272500		
Country	MAINLAND CHINA		

Type of wastewater discharge				
Type of wastewater discharge:	Indirect discharge			
On-site effluent treatment plant (ETP):	YES			
Pre - treatment:	YES			
	Preliminary	Primary	Secondary/Biological	Tertiary
	<input checked="" type="checkbox"/> Screening/ <input checked="" type="checkbox"/> Homogenization tank <input type="checkbox"/> pH correction <input type="checkbox"/> Other <input type="checkbox"/> None	<input checked="" type="checkbox"/> Coagulation/Flocculation <input checked="" type="checkbox"/> Dissolved air flotation <input checked="" type="checkbox"/> Sedimentation tanks or <input type="checkbox"/> Other	<input type="checkbox"/> Activated sludge <input type="checkbox"/> Biological Biofilm <input type="checkbox"/> BSequencing batch reactor (SBR) <input type="checkbox"/> Other	<input type="checkbox"/> Absorption with activated <input type="checkbox"/> High rate filtration Advanced oxidation techniques <input type="checkbox"/> (Ozone, Fenton reaction, photo catalytic degradation...) <input type="checkbox"/> Other
Description of discharge:	The water is discharged into the sewage system for further treatment on External ETP (receiving ETP name: 汶上公用水务有限公司 (佛都分公司) )			
[If direct discharge] ambient temperature of receiving water body (°C):	-			
Average total industrial wastewater generated (m3/day):	250 m3/day			

Sludge Disposal Pathway	A
-------------------------	---

Sampler accreditation certification number (ZDHC):		C74D106817398	
Sample description	Simple	Composite	Comments
(1) Untreated wastewater (BT)	White, grab sample at 16:50 Sampling location: Latitude 35°40'28"N, Longitude 116°28'28"E		
(2) Effluent (AT)		Colorless, composite sample at 10:37, 11:37, 12:37, 13:37, 14:37, 15:37, 16:37 Sampling location: Latitude 35°40'26"N, Longitude 116°28'29"E	
(3) Sludge		Black, composite sample at 10:32 Sampling location: Latitude 35°40'27"N, Longitude 116°28'28"E	



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

Local Legal Data	
Local Legal Standard name [a]	Discharge standards of water pollutants for dyeing and finishing of textile industry; Integrated wastewater discharge standard
Local legal standard no. [a]:	GB 4287-2012; GB 8978-1996
Parameters (ZDHC WWSG V2.1, Table 2-3) exceeded local regulation:	-
Discharge permit provided:	Yes

Internal description – Intertek Lab Issuing Final Test Report	
Sampling laboratory	Intertek Testing Services Ltd., Shanghai
Testing laboratory	Intertek Testing Services Ltd., Shanghai
Date received sample	17 Jul, 2024 PM
Date and time of the beginning of sampling	16 Jul, 2024 10:32
Date and time of the end of sampling	16 Jul, 2024 16:50
Testing period	17 Jul, 2024 PM to 22 Jul, 2024
Reporting date	22 Jul, 2024
Arrival Temperature at Lab	7.9°C
Internal codification number	
Reference sample number	SHAT08063613
Comments	Remote Factory, Long Transit Time (Holding Time: 26 hours, Max. Holding Time exceeded @ Fecal Coliform)



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

Summary of test results		
Wastewater/ MRSL - Test items	Testing period	Sample 1 (untreated)
Alkylphenols (APs) & Alkylphenol ethoxylates (APEOs)	From 18 Jul, 2024 to 22 Jul, 2024	ND
Anti - Microbials & Biocides	From 18 Jul, 2024 to 22 Jul, 2024	ND
Chlorinated parafins	From 18 Jul, 2024 to 22 Jul, 2024	ND
Chlorobenzenes and Chlorotoluenes	From 18 Jul, 2024 to 22 Jul, 2024	ND
Chlorophenols	From 18 Jul, 2024 to 22 Jul, 2024	ND
Dimethyl Formamide (DMFa) (*)	From 18 Jul, 2024 to 22 Jul, 2024	ND
Dyes – Carcinogenic or Equivalent Concern	From 18 Jul, 2024 to 22 Jul, 2024	ND
Dyes – Disperse (Allergenic)	From 18 Jul, 2024 to 22 Jul, 2024	ND
Dyes-Navy Blue Colourant	From 18 Jul, 2024 to 22 Jul, 2024	ND
Flame retardants	From 18 Jul, 2024 to 22 Jul, 2024	ND
Glycols	From 18 Jul, 2024 to 22 Jul, 2024	ND
Halogenated solvents	From 18 Jul, 2024 to 22 Jul, 2024	ND
Organotin compounds	From 18 Jul, 2024 to 22 Jul, 2024	ND
Other/Miscellaneous Chemicals (^)	From 18 Jul, 2024 to 22 Jul, 2024	ND
Perfluorinated chemicals (PFCs)	From 18 Jul, 2024 to 22 Jul, 2024	ND
Phthalates	From 18 Jul, 2024 to 22 Jul, 2024	ND
Polycyclic aromatic hydrocarbons (PAHs)	From 18 Jul, 2024 to 22 Jul, 2024	ND
Restricted Aromatic Amines (Cleavable from Azo- colourants) Azo dyes	From 18 Jul, 2024 to 22 Jul, 2024	ND
UV Absorbers	From 18 Jul, 2024 to 22 Jul, 2024	ND
Volatile organic compounds (VOCs)	From 18 Jul, 2024 to 22 Jul, 2024	D



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

Wastewater / Heavy metals - Test items	Testing period	Sample 2 (effluent)		
		Foundational	Progressive	Aspirational
Antimony	N/A	N/A		
Chromium (VI)	From 18 Jul, 2024 to 22 Jul, 2024			Meet
Barium	N/A	N/A		
Selenium	N/A	N/A		
Tin	N/A	N/A		
Arsenic	From 18 Jul, 2024 to 22 Jul, 2024			Meet
Chromium (total)	N/A	N/A		
Cobalt	N/A	N/A		
Cadmium	From 18 Jul, 2024 to 22 Jul, 2024			Meet
Copper	N/A	N/A		
Lead	From 18 Jul, 2024 to 22 Jul, 2024			Meet
Nickel	N/A	N/A		
Silver	N/A	N/A		
Zinc	N/A	N/A		
Mercury	From 18 Jul, 2024 to 22 Jul, 2024			Meet

Wastewater / Conventional parameters - Test items	Testing period	Sample 2 (effluent)		
		Foundational	Progressive	Aspirational
pH <sup>[f]</sup>	N/A	N/A		
Temperature difference <sup>[f]</sup>	N/A	N/A		
E.coli	N/A	N/A		
Colour	N/A	N/A		
Persistent foam <sup>[f]</sup>	N/A	N/A		
Wastewater flowrate <sup>[f]</sup>	N/A	N/A		
Ammonium-Nitrogen	N/A	N/A		
AOX	N/A	N/A		
Biochemical Oxygen Demand (BOD <sub>5</sub> )	N/A	N/A		
Chemical Oxygen Demand (COD)	N/A	N/A		
Dissolved Oxygen (DO) <sup>[f]</sup>	N/A	N/A		
Oil & Grease	N/A	N/A		
Total Phenols / Phenol Index	N/A	N/A		
Total Chlorine <sup>[f]</sup>	N/A	N/A		
Total Dissolved Solids (TDS)	N/A	N/A		
Total Nitrogen	N/A	N/A		
Total Phosphorus	N/A	N/A		
Total Suspended Solids (TSS)	N/A	N/A		



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

Wastewater / Anions - Test items	Testing period	Sample 2 (effluent)		
		Foundational	Progressive	Aspirational
Chloride	N/A	N/A		
Cyanide, total	N/A	N/A		
Sulfate	N/A	N/A		
Sulfide	N/A	N/A		
Sulfite	N/A	N/A		

Sludge / Heavy metals - Test items	Testing period	Sample 3: Sludge (Total)	Sample 3: Sludge (Leachate)
Antimony	From 18 Jul, 2024 to 22 Jul, 2024		Report only, refer data
Arsenic	From 18 Jul, 2024 to 22 Jul, 2024	Meet	
Barium	From 18 Jul, 2024 to 22 Jul, 2024	Meet	
Cadmium	From 18 Jul, 2024 to 22 Jul, 2024	Meet	
Cobalt	From 18 Jul, 2024 to 22 Jul, 2024	Meet	
Copper	From 18 Jul, 2024 to 22 Jul, 2024	Meet	
Lead	From 18 Jul, 2024 to 22 Jul, 2024	Meet	
Nickel	From 18 Jul, 2024 to 22 Jul, 2024	Meet	
Selenium	From 18 Jul, 2024 to 22 Jul, 2024	Meet	
Silver	From 18 Jul, 2024 to 22 Jul, 2024	Meet	
Chromium (total)	From 18 Jul, 2024 to 22 Jul, 2024	Meet	
Zinc	From 18 Jul, 2024 to 22 Jul, 2024	Meet	
Chromium VI	From 18 Jul, 2024 to 22 Jul, 2024	Meet	
Mercury	From 18 Jul, 2024 to 22 Jul, 2024	Meet	



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

Sludge / Anion - Test items	Testing period	Sample 3: Sludge
Cyanide	From 22 Jul, 2024 to 22 Jul, 2024	Report only, refer data

Sludge / Conventional parameters - Test items	Testing period	Sample 3: Sludge
pH <sup>[f]</sup>	From 16 Jul, 2024 to 16 Jul, 2024	Report only, refer data
% Solids	From 18 Jul, 2024 to 18 Jul, 2024	Report only, refer data
Paint filter test	From 18 Jul, 2024 to 18 Jul, 2024	Report only, refer data
Faecal coliform	From 18 Jul, 2024 to 22 Jul, 2024	Report only, refer data@

Sludge / MRSL - Test items	Testing period	Sample 3: Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	From 18 Jul, 2024 to 22 Jul, 2024	Report only, refer data
Polycyclic Aromatic Hydrocarbons (PAHs)	From 18 Jul, 2024 to 22 Jul, 2024	Report only, refer data
Chlorotoluenes	From 18 Jul, 2024 to 22 Jul, 2024	Report only, refer data

### Remark (Indicated in each parameter)

ND = Not detected (less than lab reporting limit)

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 [xxxx] 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.

For and on behalf of  
Intertek Testing Service Ltd., Shanghai



Nina Hu, Technical Manager



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

### Test results

#### 1. Conventional parameters

Wastewater/ Conventional parameters - Test items	Test method (Please refer only to the SM used in the lab)	Limit			Lab Reporting Limit (Please refer to your RL)	Result Sample 2	Unit
		Foundational	Progressive	Aspirational		Effluent	
Temperature	GB/T 13195	35°C	30°C	25°C	N/A	N/A	[f] °C
Temperature difference [°C]	GB/T 13195	Δ+15°C	Δ+10°C	Δ+5°C	N/A	N/A	[f] °C
TSS	GB/T 11901	50 mg/L	15 mg/L	5 mg/L	5 mg/L	N/A	mg/L
Chemical Oxygen Demand (COD)	HJ 828	150 mg/L	80 mg/L	40 mg/L	40 mg/L	N/A	mg/L
Total-N	HJ 636	20 mg/L	10 mg/L	5 mg/L	5 mg/L	N/A	mg/L
pH	HJ 1147	6-9			N/A	N/A	[f] pH
Colour (436 nm ; 525 nm ; 620nm)	ISO 7887-B	7;5;3	5;3;2	2;1;1	N/A	N/A	[m-1]
Biochemical Oxygen Demand (BOD5)	HJ 505	30 mg/L	15 mg/L	8 mg/L	8 mg/L	N/A	mg/L
Ammonium- Nitrogen	HJ 535	10 mg/L	1 mg/L	0.5 mg/L	0.5 mg/L	N/A	mg/L
Total-P	GB/T 11893	3 mg/L	0.5 mg/L	0.1 mg/L	0.1 mg/L	N/A	mg/L
AOX	HJ/T 83	3 mg/L	0.5 mg/L	0.1 mg/L	0.1 mg/L	N/A	mg/L
Oil and grease	HJ 637	10 mg/L	2 mg/L	0.5 mg/L	0.5 mg/L	N/A	mg/L
Phenol	HJ 503	0.5 mg/L	0.01 mg/L	0.001 mg/L	0.001 mg/L	N/A	mg/L
E. Coli	SM 9221B presumptive, confirm positive with SM9221F	126 [MPN/100-ml]			1.8 MPN/100-ml	N/A	[MPN/100- ml]
Foam	/	Not visible	Not visible	Not visible	N/A	N/A	[f]
Cyanide	HJ 484	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.05 mg/L	N/A	mg/L
Sulfide	HJ 1226	0.5 mg/L	0.05 mg/L	0.01 mg/L	0.01 mg/L	N/A	mg/L
Sulphite	HJ 84-2016	2 mg/L	0.5 mg/L	0.2 mg/L	0.2 mg/L	N/A	mg/L



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

Dissolved Oxygen (DO)	HJ 506	Sample and report only	Sample and report only	Sample and report only	N/A	N/A	[f] mg/L
Total Chlorine	HJ 586	Sample and report only	Sample and report only	Sample and report only	0.2 mg/L	N/A	[f] mg/L
Total Dissolved Solids (TDS)	GB/T 5750.4-2006 (180 °C)	Sample and report only	Sample and report only	Sample and report only	10 mg/L	N/A	mg/L
Chloride	HJ 84-2016	Sample and report only	Sample and report only	Sample and report only	10 mg/L	N/A	mg/L
Sulfate	HJ 84-2016	Sample and report only	Sample and report only	Sample and report only	10 mg/L	N/A	mg/L
Wastewater Flowrate	/	N/A	N/A	N/A	N/A	N/A	[f] m3/day

△ is the degree above ambient temperature of receiving water body.





# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

### 2. Heavy metals

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

Heavy metals	CAS no.	Limit			Lab Reporting limit (mg/L) (Please refer only to the RL in your lab.)	Result	
		Foundational	Progressive	Aspirational		Sample 2 (effluent)	Unit
Arsenic (As)	Various	0.05 mg/L	0.01 mg/L	0.005 mg/L	0.005 mg/L	ND	mg/L
Cadmium (Cd)	Various	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01 mg/L	ND	mg/L
Mercury (Hg)	Various	0.01 mg/L	0.005 mg/L	0.001 mg/L	0.001 mg/L	ND	mg/L
Lead (Pb)	Various	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01 mg/L	ND	mg/L
Antimony (Sb)	Various	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01 mg/L	N/A	mg/L
Cobalt (Co)	Various	0.05 mg/L	0.02 mg/L	0.01 mg/L	0.01 mg/L	N/A	mg/L
Nickel (Ni)	Various	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.05 mg/L	N/A	mg/L
Silver (Ag)	Various	0.1 mg/L	0.05 mg/L	0.005 mg/L	0.005 mg/L	N/A	mg/L
Copper (Cu)	Various	1 mg/L	0.5 mg/L	0.25 mg/L	0.25 mg/L	N/A	mg/L
Zinc (Zn)	Various	5.0 mg/L	1.0 mg/L	0.5 mg/L	0.5 mg/L	N/A	mg/L
Total Chromium (Cr)	Various	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.05 mg/L	N/A	mg/L
Chromium VI (Cr VI)	Various	0.05 mg/L	0.005 mg/L	0.001 mg/L	0.001 mg/L	ND	mg/L
Barium	Various	Sample and Report only	Sample and Report only	Sample and Report only	0.01 mg/L	N/A	mg/L
Selenium	Various	Sample and Report only	Sample and Report only	Sample and Report only	0.01 mg/L	N/A	mg/L
Tin	Various	Sample and Report only	Sample and Report only	Sample and Report only	0.01 mg/L	N/A	mg/L



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

### 3. 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).

Alkylphenols (APs) & Alkylphenoethoxylates (APEOs)	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Octylphenol (OP), mixed isomers	140-66-9/ 1806-26-4/ 27193-28-8	5	5	ND	µg/L
Nonylphenol (NP), mixed isomers	104-40-5/ 11066-49-2/ 25154-52-3/ 84852-15-3	5	5	ND	µg/L
Octylphenoethoxylates (OPEOs)	9002-93-1; 9036-19-5; 68987-90-6	5	5	ND	µg/L
Nonylphenoethoxylates (NPEOs)	9016-45-9/26027-38-3/ 37205-87-1/ 68412-54-4/127087-87-0	5	5	ND	µg/L

### 4. Chlorobenzenes & Chlorotoluenes

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

Chlorobenzenes & Chlorotoluenes	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Chlorobenzene	108-90-7	0.2	0.2	ND	µg/L
1,2-Dichlorobenzene	95-50-1	0.2	0.2	ND	µg/L
1,3-Dichlorobenzene	541-73-1	0.2	0.2	ND	µg/L
1,4-Dichlorobenzene	106-46-7	0.2	0.2	ND	µg/L
1,2,3-Trichlorobenzene	87-61-6	0.2	0.2	ND	µg/L
1,2,4-Trichlorobenzene	120-82-1	0.2	0.2	ND	µg/L
1,3,5-Trichlorobenzene	108-70-3	0.2	0.2	ND	µg/L
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	0.2	ND	µg/L
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2	0.2	ND	µg/L
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	0.2	ND	µg/L
Pentachlorobenzene	608-93-5	0.2	0.2	ND	µg/L
Hexachlorobenzene	118-74-1	0.2	0.2	ND	µg/L
2-Chlorotoluene	95-49-8	0.2	0.2	ND	µg/L
3-Chlorotoluene	108-41-8	0.2	0.2	ND	µg/L
4-Chlorotoluene	106-43-4	0.2	0.2	ND	µg/L
2,3-Dichlorotoluene	32768-54-0	0.2	0.2	ND	µg/L
2,4-Dichlorotoluene	95-73-8	0.2	0.2	ND	µg/L
2,5-Dichlorotoluene	19398-61-9	0.2	0.2	ND	µg/L
2,6-Dichlorotoluene	118-69-4	0.2	0.2	ND	µg/L
3,4-Dichlorotoluene	95-75-0	0.2	0.2	ND	µg/L



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

3,5-Dichlorotoluene	25186-47-4	0.2	0.2	ND	µg/L
2,3,4-Trichlorotoluene	7359-72-0	0.2	0.2	ND	µg/L
2,3,6-Trichlorotoluene	2077-46-5	0.2	0.2	ND	µg/L
2,4,5-Trichlorotoluene	6639-30-1	0.2	0.2	ND	µg/L
2,4,6-Trichlorotoluene	23749-65-7	0.2	0.2	ND	µg/L
3,4,5-Trichlorotoluene	21472-86-6	0.2	0.2	ND	µg/L
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	0.2	ND	µg/L
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	0.2	ND	µg/L
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	0.2	ND	µg/L
Pentachlorotoluene	877-11-2	0.2	0.2	ND	µg/L

### 5. Chlorophenols

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

Chlorophenols	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
2-Chlorophenol	95-57-8	0.5	0.5	ND	µg/L
3-Chlorophenol	108-43-0	0.5	0.5	ND	µg/L
4-Chlorophenol	106-48-9	0.5	0.5	ND	µg/L
2,3-Dichlorophenol	576-24-9	0.5	0.5	ND	µg/L
2,4-Dichlorophenol	120-83-2	0.5	0.5	ND	µg/L
2,5-Dichlorophenol	583-78-8	0.5	0.5	ND	µg/L
2,6-Dichlorophenol	87-65-0	0.5	0.5	ND	µg/L
3,4-Dichlorophenol	95-77-2	0.5	0.5	ND	µg/L
3,5-Dichlorophenol	591-35-5	0.5	0.5	ND	µg/L
2,3,4-Trichlorophenol	15950-66-0	0.5	0.5	ND	µg/L
2,3,5-Trichlorophenol	933-78-8	0.5	0.5	ND	µg/L
2,3,6-Trichlorophenol	933-75-5	0.5	0.5	ND	µg/L
2,4,5-Trichlorophenol	95-95-4	0.5	0.5	ND	µg/L
2,4,6-Trichlorophenol	88-06-2	0.5	0.5	ND	µg/L



# SOFTLINES WASTEWATER TESTING TEST REPORT

Number:SHAT08063613

3,4,5-Trichlorophenol	609-19-8	0.5	0.5	ND	µg/L
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	0.5	ND	µg/L
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	0.5	ND	µg/L
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	0.5	ND	µg/L
Pentachlorophenol (PCP)	87-86-5	0.5	0.5	ND	µg/L



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

### 6. 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).

Azo Dyes	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1	0.1	ND	µg/L
4,4'-Diaminodiphenylmethane	101-77-9	0.1	0.1	ND	µg/L
4,4'-Oxydianiline	101-80-4	0.1	0.1	ND	µg/L
4-Chloroaniline	106-47-8	0.1	0.1	ND	µg/L
3,3'-Dimethoxybenzidine	119-90-4	0.1	0.1	ND	µg/L
3,3'-Dimethylbenzidine	119-93-7	0.1	0.1	ND	µg/L
p-Cresidine	120-71-8	0.1	0.1	ND	µg/L
2,4,5-Trimethylaniline	137-17-7	0.1	0.1	ND	µg/L
4,4'-Thiodianiline	139-65-1	0.1	0.1	ND	µg/L
4-Aminoazobenzene	60-09-3	0.1	0.1	ND	µg/L
4-methoxy-m-phenylenediamine	615-05-4	0.1	0.1	ND	µg/L
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	0.1	0.1	ND	µg/L
2,6-Xylidine	87-62-7	0.1	0.1	ND	µg/L
o-Anisidine	90-04-0	0.1	0.1	ND	µg/L
2-Naphthylamine	91-59-8	0.1	0.1	ND	µg/L
3,3'-Dichlorobenzidine	91-94-1	0.1	0.1	ND	µg/L
4-Aminobiphenyl	92-67-1	0.1	0.1	ND	µg/L
Benzidine	92-87-5	0.1	0.1	ND	µg/L
o-Toluidine	95-53-4	0.1	0.1	ND	µg/L
2,4-Xylidine	95-68-1	0.1	0.1	ND	µg/L
4-Chloro-o-toluidine	95-69-2	0.1	0.1	ND	µg/L
4-Methyl-m-phenylenediamine	95-80-7	0.1	0.1	ND	µg/L
o-Aminoazotoluene	97-56-3	0.1	0.1	ND	µg/L
5-Nitro-o-toluidine	99-55-8	0.1	0.1	ND	µg/L
2-Naphthylammoniumacetate	553-00-4	0.1	0.1	ND	µg/L



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

2,4,5-trimethylaniline hydrochloride	21436-97-5	0.1	0.1	ND	µg/L
4-chloro-o-toluidinium chloride	3165-93-3	0.1	0.1	ND	µg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	0.1	0.1	ND	µg/L

### 7. Dyes – Carcinogenic or Equivalent Concern

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

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

### 8. Dyes – Disperse (Allergenic)

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

Disperse dyes	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Disperse Yellow 1	119-15-3	50	50	ND	µg/L
Disperse Blue 102	12222-97-8	50	50	ND	µg/L
Disperse Blue 106	12223-01-7	50	50	ND	µg/L



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

Disperse Yellow 39	12236-29-2	50	50	ND	µg/L
Disperse Orange 37/59/76	13301-61-6	50	50	ND	µg/L
Disperse Brown 1	23355-64-8	50	50	ND	µg/L
Disperse Orange 1	2581-69-3	50	50	ND	µg/L
Disperse Yellow 3	2832-40-8	50	50	ND	µg/L
Disperse Red 11	2872-48-2	50	50	ND	µg/L
Disperse Red 1	2872-52-8	50	50	ND	µg/L
Disperse Red 17	3179-89-3	50	50	ND	µg/L
Disperse Blue 7	3179-90-6	50	50	ND	µg/L
Disperse Blue 26	3860-63-7	50	50	ND	µg/L
Disperse Yellow 49	54824-37-2	50	50	ND	µg/L
Disperse Blue 35	12222-75-2	50	50	ND	µg/L
Disperse Blue 124	61951-51-7	50	50	ND	µg/L
Disperse Yellow 9	6373-73-5	50	50	ND	µg/L
Disperse Orange 3	730-40-5	50	50	ND	µg/L
Disperse Blue 35	56524-77-7	50	50	ND	µg/L

### 9. 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)

Flame retardants	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	25	ND	µg/L
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	25	ND	µg/L
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25	25	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	25	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	25	ND	µg/L
Bis(2,3-dibromopropyl) phosphate	5412-25-9	25	25	ND	µg/L
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	25	25	ND	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	25	25	ND	µg/L



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

Tetrabromobisphenol A (TBBPA)	79-94-7	25	25	ND	µg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	25	25	ND	µg/L
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	25	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	25	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	25	ND	µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	25	25	ND	µg/L
Dibromobiphenyls (DiBB)	Various	25	25	ND	µg/L
Octabromobiphenyls (OctaBB)	Various	25	25	ND	µg/L
Dibromopropylether	21850-44-2	25	25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	25	ND	µg/L
Monobromobiphenyls (MonoBB)	Various	25	25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Various	25	25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Various	25	25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Various	25	25	ND	µg/L
Boric acid**	10043-35-3 / 11113-50-1	100 in Boron	100 in Boron	ND	µg/L
Diboron trioxide**	1303-86-2	100 in Boron	100 in Boron	ND	µg/L
Disodium octaborate**	12008-41-2	100 in Boron	100 in Boron	ND	µg/L
Disodium tetraborate anhydrous**	1303-96-4 / 1330-43-4	100 in Boron	100 in Boron	ND	µg/L
Tetraboron disodium heptaoxide, hydrate**	12267-73-1	100 in Boron	100 in Boron	ND	µg/L





# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

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

### 10. Glycols

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

Glycols	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Bis(2-methoxyethyl)-ether	111-96-6	50	50	ND	µg/L
2-ethoxyethanol	110-80-5	50	50	ND	µg/L
2-ethoxyethyl acetate	111-15-9	50	50	ND	µg/L
Ethylene glycol dimethyl ether	110-71-4	50	50	ND	µg/L
2-methoxyethanol	109-86-4	50	50	ND	µg/L
2-methoxyethylacetate	110-49-6	50	50	ND	µg/L
2-methoxypropylacetate	70657-70-4	50	50	ND	µg/L
Triethylene glycol dimethyl ether	112-49-2	50	50	ND	µg/L

### 11. Halogenated solvents

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

Chlorinated solvents	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
1,2-Dichloroethane	107-06-2	1	1	ND	µg/L
Methylene chloride	75-09-2	1	1	ND	µg/L
Trichloroethene	79-01-6	1	1	ND	µg/L
Tetrachloroethene	127-18-4	1	1	ND	µg/L

### 12. Organotin compounds

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

Organotin compounds	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Mono-, di- and tri-methyltin derivatives	Various	0.01	0.01	ND	µg/L
Mono-, di- and tri-butyltin derivatives	Various	0.01	0.01	ND	µg/L
Mono-, di- and tri-phenyltin derivatives	Various	0.01	0.01	ND	µg/L
Mono-, di- and tri-octyltin derivatives	Various	0.01	0.01	ND	µg/L
Tricyclohexyltin (TCyHT)	Various	0.01	0.01	ND	µg/L
Dipropyltin compounds (DPT)	Various	0.01	0.01	ND	µg/L
Tetrabutyltin compounds (TeBT)	Various	0.01	0.01	ND	µg/L
Tripropyltin Compounds (TPT)	Various	0.01	0.01	ND	µg/L
Tetraoctyltin compounds (TeOT)	Various	0.01	0.01	ND	µg/L
Tetraethyltin Compounds (TeET)	Various	0.01	0.01	ND	µg/L



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

### 13. Phthalates

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

Phthalates	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	10	10	ND	µg/L
Dimethoxyethyl phthalate (DMEP)	117-82-8	10	10	ND	µg/L
Di-n-octyl phthalate (DNOP)	117-84-0	10	10	ND	µg/L
Di-iso-decyl phthalate (DIDP)	26761-40-0/68515-49-1	10	10	ND	µg/L
Di-iso-nonyl phthalate (DINP)	28553-12-0/68515-48-0	10	10	ND	µg/L
Di-n-hexyl phthalate (DnHP)	84-75-3	10	10	ND	µg/L
Dibutyl phthalate (DBP)	84-74-2	10	10	ND	µg/L
Butyl benzyl phthalate (BBP)	85-68-7	10	10	ND	µg/L
Diethyl phthalate (DEP)	84-66-2	10	10	ND	µg/L
Di-n-propyl phthalate (DPRP)	131-16-8	10	10	ND	µg/L
Di-iso-butyl phthalate (DIBP)	84-69-5	10	10	ND	µg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	10	ND	µg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	10	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C6-11-branched alkyl esters, C7-rich (DIDP)	71888-89-6	10	10	ND	µg/L
Di-n-pentylphthalates	131-18-0	10	10	ND	µg/L
Diisopentylphthalates	605-50-5	10	10	ND	µg/L
Dinonyl phthalate (DNP)	84-76-4	10	10	ND	µg/L



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

### 14. Perfluorinated chemicals (PFCs)

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

Perfluorinated chemicals (PFCs)	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Perfluoro-octanoic acid (PFOA)	335-67-1	0.01	0.01	ND	µg/L
Perfluoro-octane-sulfonic acid (L-PFOS)	1763-23-1	0.01	0.01	ND	µg/L
Perfluoro-octane-sulfon-amide (PFOSA)	754-91-6	0.01	0.01	ND	µg/L
N-Methyl-perfluoro-octane-sulfon-amide (N-Me-FOSA)	31506-32-8	0.01	0.01	ND	µg/L
N-Ethyl-perfluoro-octane-sulfon-amide (N-Et-FOSA)	4151-50-2	0.01	0.01	ND	µg/L
N-Methyl-perfluoro-octane-sulfon-amido-ethanol (N-Me-FOSE alcohol)	24448-09-7	0.01	0.01	ND	µg/L
N-Ethyl-Perfluoro-octane-sulfon-amido-ethanol (N-Et-FOSE alcohol)	1691-99-2	0.01	0.01	ND	µg/L
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	1	1	ND	µg/L
2-Perfluorooctylethanol (8:2 FTOH)	678-39-7	1	1	ND	µg/L
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	1	1	ND	µg/L
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	1	1	ND	µg/L
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	1	1	ND	µg/L
Ethyl perfluorooctanoate Et-PFOA	3108-24-5	1	1	ND	µg/L

### 15. Polycyclic aromatic hydrocarbons (PAHs)

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

Polycyclic aromatic hydrocarbons (PAHs)	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Benzo(a)pyrene (BaP)	50-32-8	1	1	ND	µg/L
Anthracene	120-12-7	1	1	ND	µg/L
Pyrene	129-00-0	1	1	ND	µg/L
Benzo(ghi)perylene	191-24-2	1	1	ND	µg/L
Benzo(e)pyrene	192-97-2	1	1	ND	µg/L
Indeno (1,2,3-cd)pyrene	193-39-5	1	1	ND	µg/L
Benzo(j)fluoranthene	205-82-3	1	1	ND	µg/L
Benzo(b)fluoranthene	205-99-2	1	1	ND	µg/L
Fluoranthene	206-44-0	1	1	ND	µg/L
Benzo(k)fluoranthene	207-08-09	1	1	ND	µg/L
Acenaphthylene	208-96-8	1	1	ND	µg/L
Chrysene	218-01-9	1	1	ND	µg/L
Dibenz(a,h)anthracene	53-70-3	1	1	ND	µg/L
Benzo(a)anthracene	56-55-3	1	1	ND	µg/L
Acenaphthene	83-32-9	1	1	ND	µg/L
Phenanthrene	85-01-8	1	1	ND	µg/L



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

Fluorene	86-73-7	1	1	ND	µg/L
Naphthalene	91-20-3	1	1	ND	µg/L

### 16. 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).

Volatile organic compounds (VOCs)	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater )	Unit
Benzene	71-43-2	1	1	ND	µg/L
Xylene	1330-20-7	1	1	ND	µg/L
o-cresol	95-48-7	1	1	ND	µg/L
p-cresol	106-44-5	1	1	9	µg/L
m-cresol	108-39-4	1	1	ND	µg/L
Toluene*	108-88-3	1	1	ND	µg/L

(\*) = Sample and report for mock leather.

### 17. 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).

Anti - Microbials & Biocides	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater )	Unit
o-Phenylphenol (+salts)	90-43-7	100	100	ND	µg/L
Triclosan	3380-34-5	100	100	ND	µg/L
Permethrin	Multiple	500	500	ND	µg/L



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

### 18. Chlorinated paraffins

For MCCP: modified from ISO18219-2:2021 (GC-MS analysis). For SCCP: modified from ISO18219-1:2021 (GC-MS analysis).

Chlorinated paraffins	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Short-chain Chlorinated paraffin (C10 – C13)	85535-84-8	25	25	ND	µg/L
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	500	500	ND	µg/L

### 19. Dimethyl Formamide (DMFa) (\*)

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

N,N-di-methylformamide (DMFa)	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Dimethyl formamide; N,N-dimethylformamide	68-12-2	1000	1000	ND	µg/L

(\*) = Sample and report for mock leather.

### 20. Dyes-Navy Blue Colourant

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

Dyes-Navy Blue Colourant	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	500	500	ND	µg/L
Component 2: C46H-30CrN10O20S2 3Na	Not Allocated	500	500	ND	µg/L

### 21. 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)

Other/Miscellaneous Chemicals	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500	500	ND	µg/L
Bisphenol A	80-05-7	10	10	ND	µg/L
Thiourea	62-56-6	50	50	ND	µg/L
Quinoline	91-22-5	50	50	ND	µg/L
Borate, zinc salt (^)	12767-90-7	100 in Boron & 100 in Zinc	100 in Boron & 100 in Zinc	Boron:ND Zinc:143	µg/L

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

### 22. UV Absorbers

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

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



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

### 23. Sludge Parameters – Step 1 - 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).

Sludge Parameters – Step 1 - Metals	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
Antimony	5	5	75	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	ND	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	ND	mg/kg
Zinc	400	400	ND	mg/kg
Chromium (VI)	20	20	ND	mg/kg
Mercury	1	1	ND	mg/kg



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

### 24. Sludge Parameters – Step 1 - Anions

Modified from HJ 745 (UV/VIS analysis).

Sludge Parameters – Step 1 - Anions	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
Cyanide	20	20	ND	mg/kg

### 25. Sludge Parameters - Step 1 – Conventional

Sludge Parameters – Step 1 - Convent	Test method	Lab reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
pH	HJ962	N/A	6.56	[f] N/A
% Solids	HJ613	N/A	16.1	%
Paint Filter	USEPA 9095B	N/A	Pass	N/A
Fecal Coliform	USEPA 1681	10	ND@	MPN/g

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

### 26. Sludge Parameters - Step 1 - MRSL - 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).

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



# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

### 27. Sludge Parameteres - Step 1 - MRSL - PolycyclicAromatic Hydrocarbons (PAHs)

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

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

### 28. Sludge Parameteres - Step 1 - MRSL - Chlorotoluenes

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

Sludge Parameteres - Step 1 - MRSL - Chlorotoluenes	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
2-Chlorotoluene	95-49-8	0.2	0.2	ND	mg/kg
3-Chlorotoluene	108-41-8	0.2	0.2	ND	mg/kg
4-Chlorotoluene	106-43-4	0.2	0.2	ND	mg/kg
2,3-Dichlorotoluene	32768-54-0	0.2	0.2	ND	mg/kg





# SOFTLINES WASTEWATER TESTING

## TEST REPORT

Number:SHAT08063613

2,4-Dichlorotoluene	95-73-8	0.2	0.2	ND	mg/kg
2,5-Dichlorotoluene	19398-61-9	0.2	0.2	ND	mg/kg
2,6-Dichlorotoluene	118-69-4	0.2	0.2	ND	mg/kg
3,4-Dichlorotoluene	95-75-0	0.2	0.2	ND	mg/kg
3,5-Dichlorotoluene	25186-47-4	0.2	0.2	ND	mg/kg
2,3,4-Trichlorotoluene	7359-72-0	0.2	0.2	ND	mg/kg
2,3,6-Trichlorotoluene	2077-46-5	0.2	0.2	ND	mg/kg
2,4,5-Trichlorotoluene	6639-30-1	0.2	0.2	ND	mg/kg
2,4,6-Trichlorotoluene	23749-65-7	0.2	0.2	ND	mg/kg
3,4,5-Trichlorotoluene	21472-86-6	0.2	0.2	ND	mg/kg
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	0.2	ND	mg/kg
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	0.2	ND	mg/kg
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	0.2	ND	mg/kg
Pentachlorotoluene	877-11-2	0.2	0.2	ND	mg/kg

### 29. Sludge Parameteres - Step 2 – Metals

Chromium VI: modified from USEPA 3060B and USEPA 7196 (UV/VIS analysis).

Other heavy metals: Modified from ISO 16711-2 ((ICP-MS analysis).

Sludge Parameteres - Step 2 – Metals	Lab Reporting limit (mg/L)	Result Sample 3 (Sludge)	Unit
Antimony	0.6	ND	mg/L
Arsenic	0.5	N/A	mg/L
Barium	35	N/A	mg/L
Cadmium	0.15	N/A	mg/L
Cobalt	80	N/A	mg/L
Copper	10	N/A	mg/L
Lead	0.5	N/A	mg/L
Nickel	3.5	N/A	mg/L
Selenium	0.5	N/A	mg/L
Silver	5	N/A	mg/L
Total Chromium	5	N/A	mg/L



# SOFTLINES WASTEWATER TESTING TEST REPORT

Number:SHAT08063613

Zinc	50	N/A	mg/L
Chromium (VI)	2.5	N/A	mg/L
Mercury	0.05	N/A	mg/L

## Appendix 1: Reference to ZDHC WWSG v2.1 Table 4B

Parameters	Total metals and anions threshold values (mg/kg)	Disposal pathways	C	D	E	F	G	G
		A and B (Leachate result in mg/L)	(Leachate result in mg/L)	(Leachate result in mg/L)	(Leachate result in mg/L)	(Leachate result in mg/L)	(Leachate result in mg/L)	(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	Sample and report only
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	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
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				
Chlorotoluene						
s						

## Appendix 2: 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



# SOFTLINES WASTEWATER TESTING TEST REPORT

Number:SHAT08063613

## Photo of sampling points:

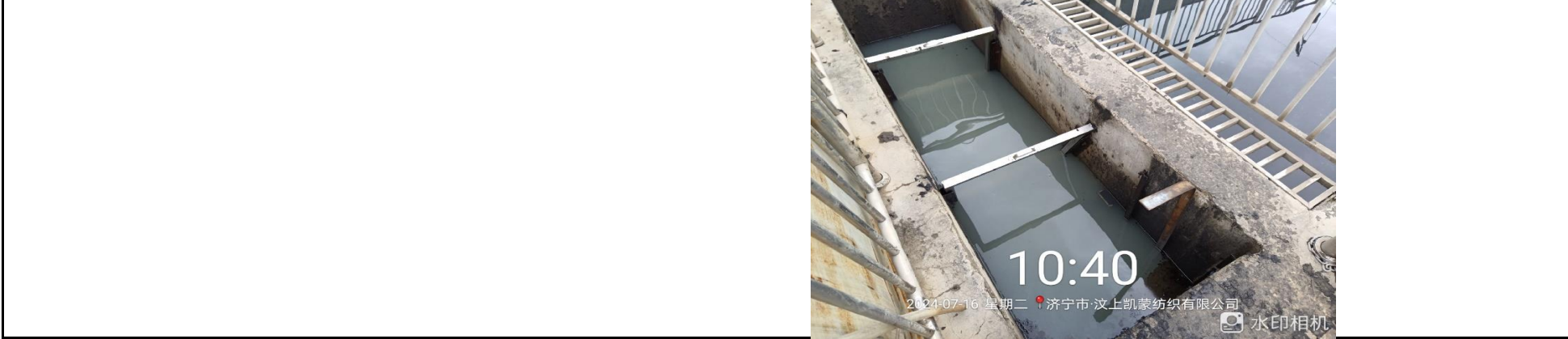


Photo of Incoming water

Photo of wastewater before treatment (untreated)



Photo of effluent



Photo of sludge

## Photo of samples:

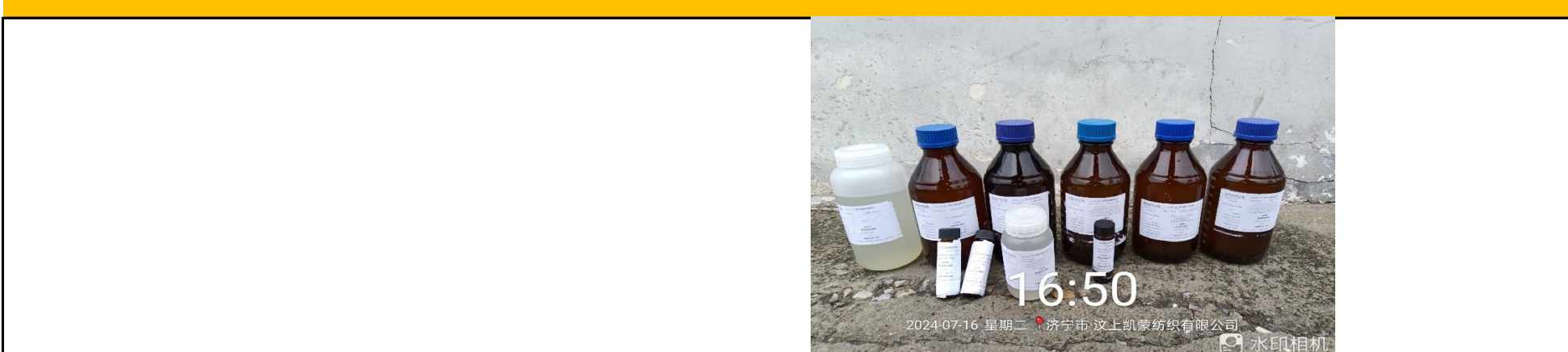


Photo of Incoming water

Photo of untreated wastewater



Photo of effluent



Photo of sludge



SAMPLING PROTOCOL (PAGE 1 OF 3)

intertek ZDHC Monitoring  
Total Quality. Assured.

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

Facility Name: 汶上凯蒙纺织有限公司

Address and Contact: 山东省济宁市汶上县经济开发区泉河大道北侧, 曙光路西侧, 辰欣路南侧  
朱鸿生 13962245571

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

Date of sampling: 2024.07.16

Sample General ID (if applicable): STJ 8063613

Discharge description: 污水去向: 汶上公用水务有限公司(博都分公司)

Weather conditions: on sampling day: 阴/32°C on day before: 阴/32°C

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): 7.7 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: 70 h (= 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\*): age of sludge: 2 days/weeks

A  B  C  D  E  F  G

\* if supplier cannot provide information, pathway "F" shall be assumed.

Sludge volume generated: 4.8 Om³/h OL/sec  other unit (specify): 吨/月  per facility info  measured  estimated

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

	1	2	3	4	5	6	7	
Untreated:								or Grab (HRT>12h): 16:50
Effluent (indirect) <sup>1)</sup> :	10:37	11:37	12:37	13:37	14:37	15:37	16:37	or Grab (HRT>12h):
Incoming: <sup>2)</sup>								or Grab <sup>2)</sup> (HRT>12h):
Sludge (liquid):								Solid sludge: 10:32

<sup>1)</sup> for direct discharge, see p. 2

<sup>2)</sup> 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): IMG-20240716-101109 ~165055

GPS coordinates of sampling points:

Incoming W.: Lat.: ON OS Long.: OE OW

Untreated WW: Lat.: ON OS 35°40'28" Long.:  E OW 116°28'28"

Effluent: Lat.: ON OS 35°40'26" Long.:  E OW 116°28'29"

Sludge: Lat.:  N OS 35°40'27" Long.:  E OW 116°28'28"



SAMPLING PROTOCOL (PAGE 2 OF 3)

intertek ZDHC Monitoring  
Total Quality. Assured.

Sample Details <sup>2)</sup> 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 EQT of Effluent with HRT>12h)  
(enter data in column for Averaged Readings and in field at right)

Volume of aliquot(s): \_\_\_\_\_ mL

Time of discrete effluent sample **	1	2	3	4	5	6	7	Averaged Readings or Grab Sample readings:
pH:								
Temp. WW discharge of receiving 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 <sup>3</sup> /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="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 m<sup>3</sup>/h = 0.27 L/s; 1.0 L/s = 86.4 m<sup>3</sup>/d; 1 m<sup>3</sup>/h = 0.042 m<sup>3</sup>/d; multiply the flow rate in m<sup>3</sup>/h by the daily operation time of the ETP to get flow rate in m<sup>3</sup>/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="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no
Untreated		无异味	乳白色	<input type="radio"/> yes <input checked="" type="checkbox"/> no	<input type="radio"/> yes <input checked="" type="checkbox"/> no
Effluent		无异味	无色	<input type="radio"/> yes <input checked="" type="checkbox"/> no	<input type="radio"/> yes <input checked="" type="checkbox"/> no
Sludge		微臭	黑色		

Field Testing QA/QC

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

Other observations:

年平均废水量 250m<sup>3</sup>/d avg  
污泥pH= 6.56

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



SAMPLING PROTOCOL (PAGE 3 OF 3)

**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):

Facility Name:

Jack / jack.lq.chen@intertek.com

汶上凯蒙纺织有限公司

Sampler's ZDHC accreditation no.:

Facility's Representative name:

C74D1068 17398

何树辰

Sampler's Signature:

Facility's Representative Signature and Stamp:

Jack

何树辰



Document on sludge disposal or licensed third-party waste contractor for sludge disposal.

# 清运合同

甲方：汶上凯蒙纺织有限公司

乙方：汶上县勤民物业服务有限公司

为了加强环境管理工作，规范垃圾的清运，营造一个洁  
净、舒适的生活、工作环境，根据汶上凯蒙纺织有限公司企  
业环评之规定“污泥应由环卫部门处理”的要求，根据《中  
华人民共和国合同法》及有关规定，甲、乙双方在平等互利、  
友好协商的基础上，就乙方清运甲方企业内部分污泥及生活  
垃圾事宜，达成如下协议：

## 一、清运要求、频次和时间

1. 甲方委托乙方负责清运本企业污泥及生活垃圾到汶上  
县圣元环保电力有限公司进行处理。（根据本企业环评之规  
定污泥由环卫部门处理）（不包含建筑、装饰装修、绿化和  
工业有害污染垃圾等）。

2. 清运频次：乙方每两天一次到甲方单位清运（特殊天气  
除外）。

## 二、协议时间

本协议有效期壹年，从2024年1月1日至2024年12月  
31日止。

## 三、费用及付款方式

1. 费用：本合同为污泥及生活垃圾清运人工劳务费含税价：

共计35000元/年（大写：叁万伍仟元整）。

2. 结算方式：甲方每半年支付一次，签订合同后乙方提供  
增值税普票后，甲方15天内以转帐方式向乙方结算。

## 四、甲方、乙方的权利和义务

1. 协议期间，甲方生产产生的污泥及生活垃圾由乙方负责  
确保清运到汶上县圣元环保电力有限公司进行全县统一处  
理。中间不能由第三方参与清运。

2. 甲方有权监督检查乙方的污泥及生活垃圾清运质量及  
清运地点，有权对乙方现场清运过程中出现的“满、漏、落  
渣、漏渣”等不符合垃圾清运质量的现象，要求立即整改。  
乙方应确保清运过程中符合当地运输、环保等相关规定，如  
因此遭受行政处罚等处罚，由此产生的一切法律责任及经济  
赔偿均由乙方承担。

3. 甲方应积极配合乙方做好清运工作，不随地乱丢、乱倒，  
给乙方清运提供必要的工作条件，负责将污泥晾晒后放入固  
定位置。甲方不能将其它垃圾（建筑、装修、绿化、工业、  
含污染源的垃圾）混入该污泥，否则因此产生的各项罚款及  
行政处罚，涉及一切法律责任及经济赔偿均由甲方承担。

4. 如甲方增加产能，污泥量增加，清运总价格在合同履行约  
期满后，再次签订合同时，由双方另行协商。

## 五、违约责任

1. 乙方如没有按照合同履行污泥及生活垃圾清运到汶上



Document on sludge disposal or licensed third-party waste contractor for sludge disposal.

县圣元环保电力有限公司,或污泥清运工作不能按甲方要求保质保量完成的,甲方有权单方终止协议,并相应扣除乙方清运费。甲方由此遭受损失的,有权向乙方进行追偿。

2. 乙方如没有特殊理由未按本协议约定至甲方清运污泥及生活垃圾,每出现4天的,乙方应向甲方支付违约金600元;连续7天或累计5天乙方未至甲方清运污泥及生活垃圾的,甲方有权解除本协议并要求乙方退还清运费及本合同金额30%的违约金。

### 六、协议的续签与变更

本协议到期日前一个月,由甲乙双方协商续签下一年度清运合同。如若甲方未通知乙方,协议有效期顺延直至签订新协议。如若乙方接到甲方通知15天内未与甲方续签本协议,视为本协议终止。

### 七、附则

1. 本协议履行过程中如有争议,应友好协商解决;协商不成的,双方均可向甲方所在地人民法院提起诉讼解决。
2. 本协议经甲、乙双方代表人签字并加盖公章生效。
3. 本协议壹式两份,甲、乙双方各执一份。

甲方:   
负责人签字:

乙方:   
负责人签字:

年 月 日





# SOFTLINES WASTEWATER TESTING TEST REPORT

Number:SHAT08063613

\*\*\*\*\*

End of report

This report is made solely on the basis of your instructions and/or information and materials supplied. Results refer only to samples received in the lab. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.

