SOFTLINES WASTEWATER TESTING
TEST REPORT
Number:SHAT08138424

Date of sampling	08 Oct, 2024
Reporting Date	11 Oct, 2024

Audit ID	181626	Audit firm	INTERTEK - CHINA NORTH
Company name	JIAXING JIASHENG NEW MATERIAL TECHNOLOGY CO. LTD.		
Contact person	FU HAOYUN		
Type of tax - tax ID no	91330400736016339N		
Address	xiuzhou district,jiaxing		
Region state province	jiangsu		
Town city / village	jiaxing		
Zip/Post code	215600		
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
	☐ Screening/ ☑ Homogenization tank ☐ pH correction ☐ Other ☐ None	☑ Coagulation/Flocculation ☑ Dissolved air flotation ☑ Sedimentation tanks or Settler/Clarifier ☐ Other	☑ Activated sludge ☑ Biological Biofilm reactor ☐ BSequencing batch reactor (SBR) ☐ Other	☐ Absorption with activated ☐ High rate filtration ☐ Advanced oxidation techniques (Ozone, Fenton reaction, photo catalytic degradation...) ☐ Other
Description of discharge:	The water is discharged into the sewage system for further treatment on External ETP (receiving ETP name: 嘉兴联合污水处理厂)			
[If direct discharge] ambient temperature of receiving water body (ºC):	-			
Average total industrial wastewater generated (m3/day):	3500 m3/day			

Sludge Disposal Pathway	A

Sampler accreditation certification number (ZDHC):		C74D106817397	
Sample description	**Simple**	**Composite**	**Comments**
(1) Untreated wastewater (BT)	Sample (1) A:Brown, grab sample at 11:05 Sampling location: Latitude 30°48'31''N, Longitude 120°42'45''E Sample (1) B:Yellow, grab sample at 10:47 Sampling location: Latitude 30°48'51''N, Longitude 120°42'50''E		Sample (1) A: Composite wastewater before being treated by regulating tank Sample (1) B: High concentration wastewater before being treated by regulation tank for alkaline water
(2) Effluent (AT)	Light yellow, grab sample at 10:32 Sampling location: Latitude 30°48'1''N, Longitude 120°42'16''E		
(3) Sludge		Brown, composite sample at 10:54 Sampling location: Latitude 30°48'59''N, Longitude 120°42'2''E	

Local Legal Data	
Local Legal Standard name [a]	Discharge standards of water pollutants for dyeing and finishing of textile industry
Local legal standard no. [a]:	GB 4287-2012
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	08 Oct, 2024 PM
Date and time of the beginning of sampling	08 Oct, 2024 10:32
Date and time of the end of sampling	08 Oct, 2024 11:05
Testing period	08 Oct, 2024 PM to 11 Oct, 2024
Reporting date	11 Oct, 2024
Arrival Temperature at Lab	6.8°C
Internal codification number	
Reference sample number	SHAT08138424
Comments	-

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Summary of test results			
Wastewater/ MRSL - Test items	**Testing period**	**Sample 1 (untreated)**	**Sample 1B (untreated)**
Alkylphenols (APs) & Alkylphenol ethoxylates (APEOs)	From 9 Oct, 2024 to 11 Oct, 2024	**ND**	**ND**
Anti - Microbials & Biocides	From 9 Oct, 2024 to 11 Oct, 2024	**ND**	**ND**
Chlorinated parafins	From 9 Oct, 2024 to 11 Oct, 2024	**ND**	**ND**
Chlorobenzenes and Chlorotoluenes	From 9 Oct, 2024 to 11 Oct, 2024	**ND**	**ND**
Chlorophenols	From 9 Oct, 2024 to 11 Oct, 2024	**ND**	**ND**
Dimethyl Formamide (DMFa) (*)	From 9 Oct, 2024 to 11 Oct, 2024	**ND**	**ND**
Dyes – Carcinogenic or Equivalent Concern	From 9 Oct, 2024 to 11 Oct, 2024	**ND**	**ND**
Dyes – Disperse (Allergenic)	From 9 Oct, 2024 to 11 Oct, 2024	**ND**	**ND**
Dyes-Navy Blue Colourant	From 9 Oct, 2024 to 11 Oct, 2024	**ND**	**ND**
Flame retardants	From 9 Oct, 2024 to 11 Oct, 2024	**ND**	**ND**
Glycols	From 9 Oct, 2024 to 11 Oct, 2024	**ND**	**ND**
Halogenated solvents	From 9 Oct, 2024 to 11 Oct, 2024	**ND**	**ND**
Organotin compounds	From 9 Oct, 2024 to 11 Oct, 2024	**ND**	**ND**
Other/Miscellaneous Chemicals (^)	From 9 Oct, 2024 to 11 Oct, 2024	**ND**	**ND**
Perfluorinated chemicals (PFCs)	From 9 Oct, 2024 to 11 Oct, 2024	**D**	**D**
Phthalates	From 9 Oct, 2024 to 11 Oct, 2024	**ND**	**ND**
Polycyclic aromatic hydrocarbons (PAHs)	From 9 Oct, 2024 to 11 Oct, 2024	**ND**	**ND**
Restricted Aromatic Amines (Cleavable from Azo- colourants) Azo dyes	From 9 Oct, 2024 to 11 Oct, 2024	**ND**	**ND**
UV Absorbers	From 9 Oct, 2024 to 11 Oct, 2024	**ND**	**ND**
Volatile organic compounds (VOCs)	From 9 Oct, 2024 to 11 Oct, 2024	**ND**	**ND**

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Wastewater / Heavy metals - Test items	Testing period	Sample 2 (effluent)		
		Foundational	Progressive	Aspirational
Antimony	N/A	N/A		
Chromium (VI)	From 9 Oct, 2024 to 10 Oct, 2024			Meet
Barium	N/A	N/A		
Selenium	N/A	N/A		
Tin	N/A	N/A		
Arsenic	From 9 Oct, 2024 to 10 Oct, 2024			Meet
Chromium (total)	N/A	N/A		
Cobalt	N/A	N/A		
Cadmium	From 9 Oct, 2024 to 10 Oct, 2024			Meet
Copper	N/A	N/A		
Lead	From 9 Oct, 2024 to 10 Oct, 2024			Meet
Nickel	N/A	N/A		
Silver	N/A	N/A		
Zinc	N/A	N/A		
Mercury	From 9 Oct, 2024 to 10 Oct, 2024			Meet

Wastewater / Conventional parameters - Test items	Testing period	Sample 2 (effluent)		
		Foundational	Progressive	Aspirational
pH[f]	N/A	N/A		
Temperature difference[f]	N/A	N/A		
E.coli	N/A	N/A		
Colour	N/A	N/A		
Persistent foam[f]	N/A	N/A		
Wastewater flowrate[f]	N/A	N/A		
Ammonium-Nitrogen	N/A	N/A		
AOX	N/A	N/A		
Biochemical Oxygen Demand (BOD$_5$)	N/A	N/A		
Chemical Oxygen Demand (COD)	N/A	N/A		
Dissolved Oxygen (DO) [f]	N/A	N/A		
Oil & Grease	N/A	N/A		
Total Phenols / Phenol Index	N/A	N/A		
Total Chlorine [f]	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		

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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 9 Oct, 2024 to 11 Oct, 2024		Report only, refer data
Arsenic	From 9 Oct, 2024 to 11 Oct, 2024	Meet	
Barium	From 9 Oct, 2024 to 11 Oct, 2024	Meet	
Cadmium	From 9 Oct, 2024 to 11 Oct, 2024	Meet	
Cobalt	From 9 Oct, 2024 to 11 Oct, 2024	Meet	
Copper	From 9 Oct, 2024 to 11 Oct, 2024	Meet	
Lead	From 9 Oct, 2024 to 11 Oct, 2024	Meet	
Nickel	From 9 Oct, 2024 to 11 Oct, 2024		Report only, refer data
Selenium	From 9 Oct, 2024 to 11 Oct, 2024	Meet	
Silver	From 9 Oct, 2024 to 11 Oct, 2024	Meet	
Chromium (total)	From 9 Oct, 2024 to 11 Oct, 2024		Report only, refer data
Zinc	From 9 Oct, 2024 to 11 Oct, 2024	Meet	
Chromium VI	From 9 Oct, 2024 to 11 Oct, 2024	Meet	
Mercury	From 9 Oct, 2024 to 11 Oct, 2024	Meet	

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Sludge / Anion - Test items	Testing period	Sample 3: Sludge
Cyanide	From 10 Oct, 2024 to 10 Oct, 2024	Report only, refer data

Sludge / Conventional parameters - Test items	Testing period	Sample 3: Sludge
pH [f]	From 8 Oct, 2024 to 8 Oct, 2024	Report only, refer data
% Solids	From 9 Oct, 2024 to 9 Oct, 2024	Report only, refer data
Paint filter test	From 8 Oct, 2024 to 8 Oct, 2024	Report only, refer data
Faecal coliform	From 8 Oct, 2024 to 11 Oct, 2024	Report only, refer data

Sludge / MRSL - Test items	Testing period	Sample 3: Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	From 9 Oct, 2024 to 11 Oct, 2024	Report only, refer data
Polycyclic Aromatic Hydrocarbons (PAHs)	From 9 Oct, 2024 to 11 Oct, 2024	Report only, refer data
Chlorotoluenes	From 9 Oct, 2024 to 11 Oct, 2024	Report only, refer data

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

This report shown the test result of the environment samples of above factory which collected on specific date and time. The results of this report shall not be used for any regulatory compliance purposes.

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

Nina Hu

Nina Hu, Technical Manager

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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 presumtive, 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

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.

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	Unit
		Foundational	Progressive	Aspirational		Sample 2 (untreated)	
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

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

4. Chlorobenzenes & Chlorotoluenes
Modified from EN 17137:2018 (GC-MS analysis).

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

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

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

Chlorophenols	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
2-Chlorophenol	95-57-8	0.5	ND	ND
3-Chlorophenol	108-43-0	0.5	ND	ND
4-Chlorophenol	106-48-9	0.5	ND	ND
2,3-Dichlorophenol	576-24-9	0.5	ND	ND
2,4-Dichlorophenol	120-83-2	0.5	ND	ND
2,5-Dichlorophenol	583-78-8	0.5	ND	ND
2,6-Dichlorophenol	87-65-0	0.5	ND	ND
3,4-Dichlorophenol	95-77-2	0.5	ND	ND
3,5-Dichlorophenol	591-35-5	0.5	ND	ND
2,3,4-Trichlorophenol	15950-66-0	0.5	ND	ND
2,3,5-Trichlorophenol	933-78-8	0.5	ND	ND
2,3,6-Trichlorophenol	933-75-5	0.5	ND	ND
2,4,5-Trichlorophenol	95-95-4	0.5	ND	ND
2,4,6-Trichlorophenol	88-06-2	0.5	ND	ND
3,4,5-Trichlorophenol	609-19-8	0.5	ND	ND

2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	ND	ND
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	ND	ND
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	ND	ND
Pentachlorophenol (PCP)	87-86-5	0.5	ND	ND

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.	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1	ND	ND
4,4'-Diaminodiphenylmethane	101-77-9	0.1	ND	ND
4,4'-Oxydianiline	101-80-4	0.1	ND	ND
4-Chloroaniline	106-47-8	0.1	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	0.1	ND	ND
3,3'-Dimethylbenzidine	119-93-7	0.1	ND	ND
p-Cresidine	120-71-8	0.1	ND	ND
2,4,5-Trimethylaniline	137-17-7	0.1	ND	ND
4,4'-Thiodianiline	139-65-1	0.1	ND	ND
4-Aminoazobenzene	60-09-3	0.1	ND	ND
4-methoxy-m-phenylenediamine	615-05-4	0.1	ND	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	0.1	ND	ND
2,6-Xylidine	87-62-7	0.1	ND	ND
o-Anisidine	90-04-0	0.1	ND	ND
2-Naphthylamine	91-59-8	0.1	ND	ND
3,3'-Dichlorobenzidine	91-94-1	0.1	ND	ND
4-Aminobiphenyl	92-67-1	0.1	ND	ND
Benzidine	92-87-5	0.1	ND	ND
o-Toluidine	95-53-4	0.1	ND	ND
2,4-Xylidine	95-68-1	0.1	ND	ND
4-Chloro-o-toluidine	95-69-2	0.1	ND	ND
4-Methyl-m-phenylenediamine	95-80-7	0.1	ND	ND
o-Aminoazotoluene	97-56-3	0.1	ND	ND
5-Nitro-o-toluidine	99-55-8	0.1	ND	ND
2-Naphthylammoniumacetate	553-00-4	0.1	ND	ND
2,4,5-trimethylaniline hydrochloride	21436-97-5	0.1	ND	ND

4-chloro-o-toluidinium chloride	3165-93-3	0.1	ND	ND
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	0.1	ND	ND

7. Dyes – Carcinogenic or Equivalent Concern
Modified from DIN 54231:2005 (LC-MS-MS analysis).

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

8. Dyes – Disperse (Allergenic)
Modified from DIN 54231:2005 (LC-MS-MS analysis).

Disperse dyes	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
Disperse Yellow 1	119-15-3	50	ND	ND
Disperse Blue 102	12222-97-8	50	ND	ND
Disperse Blue 106	12223-01-7	50	ND	ND
Disperse Yellow 39	12236-29-2	50	ND	ND
Disperse Orange 37/59/76	13301-61-6	50	ND	ND

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

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.	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	ND	ND
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	ND	ND
Tris(2,3-dibromopropyl) phosphate (TRIS	126-72-7	25	ND	ND
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	ND	ND
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	ND	ND
Bis(2,3-dibromopropyl) phosphate	5412-25-9	25	ND	ND
Tris(1-aziridinyl)phosphine oxide) (TEPA)	545-55-1	25	ND	ND
Polybromobiphenyls (PBBs)	59536-65-1	25	ND	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	25	ND	ND
Hexabromocyclododecane (HBCDD)	3194-55-6	25	ND	ND

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

** 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.	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
Bis(2-methoxyethyl)-ether	111-96-6	50	ND	ND
2-ethoxyethanol	110-80-5	50	ND	ND
2-ethoxyethyl acetate	111-15-9	50	ND	ND
Ethylene glycol dimethyl ether	110-71-4	50	ND	ND
2-methoxyethanol	109-86-4	50	ND	ND
2-methoxyethylacetate	110-49-6	50	ND	ND
2-methoxypropylacetate	70657-70-4	50	ND	ND
Triethylene glycol dimethyl ether	112-49-2	50	ND	ND

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

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

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

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

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

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

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

Perfluorinated chemicals (PFCs)	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
Perfluoro-octanoic acid (PFOA)	335-67-1	0.01	0.08	0.29
Perfluoro-octane-sulfonic acid (L-PFOS)	1763-23-1	0.01	ND	ND
Perfluoro-octane-sulfon-amide (PFOSA)	754-91-6	0.01	ND	ND
N-Methyl-perfluoro-octane-sulfon-amide (N-Me-FOSA)	31506-32-8	0.01	ND	ND
N-Ethyl-perfluoro-octane-sulfon-amide (N-Et-FOSA)	4151-50-2	0.01	ND	ND
N-Methyl-perfluoro-octane-sulfon-amido-ethanol (N-Me-FOSE alcohol)	24448-09-7	0.01	ND	ND
N-Ethyl-Perfluoro-octane-sulfon-amido-ethanol (N-Et-FOSE alcohol)	1691-99-2	0.01	ND	ND
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	1	ND	ND
2-Perfluorooctylethanol (8:2 FTOH)	678-39-7	1	ND	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	1	ND	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	1	ND	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	1	ND	ND
Ethyl perfluorooctanoate Et-PFOA	3108-24-5	1	ND	ND

15. Polycyclic aromatic hydrocarbons (PAHs)
Modified from HJ 478-2009 (GC-MS analysis).

Polycyclic aromatic hydrocarbons (PAHs)	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
Benzo(a)pyrene (BaP)	50-32-8	1	ND	ND
Anthracene	120-12-7	1	ND	ND
Pyrene	129-00-0	1	ND	ND
Benzo(ghi)perylene	191-24-2	1	ND	ND
Benzo(e)pyrene	192-97-2	1	ND	ND
Indeno (1,2,3-cd)pyrene	193-39-5	1	ND	ND
Benzo(j)fluoranthene	205-82-3	1	ND	ND
Benzo(b)fluoranthene	205-99-2	1	ND	ND
Fluoranthene	206-44-0	1	ND	ND
Benzo(k)fluoranthene	207-08-09	1	ND	ND
Acenaphthylene	208-96-8	1	ND	ND
Chrysene	218-01-9	1	ND	ND
Dibenz(a,h)anthracene	53-70-3	1	ND	ND
Benzo(a)anthracene	56-55-3	1	ND	ND
Acenaphthene	83-32-9	1	ND	ND
Phenanthrene	85-01-8	1	ND	ND
Fluorene	86-73-7	1	ND	ND
Naphthalene	91-20-3	1	ND	ND

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.	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
Benzene	71-43-2	1	ND	ND
Xylene	1330-20-7	1	ND	ND
o-cresol	95-48-7	1	ND	ND
p-cresol	106-44-5	1	ND	ND
m-cresol	108-39-4	1	ND	ND
Toluene*	108-88-3	1	ND	ND

(*) = 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.	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
o-Phenylphenol (+salts)	90-43-7	100	ND	ND
Triclosan	3380-34-5	100	ND	ND
Permethrin	Multiple	500	ND	ND

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.	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
Short-chain Chlorinated paraffin (C10 – C13)	85535-84-8	25	ND	ND
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	500	ND	ND

19. Dimethyl Formamide (DMFa) (*)

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

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

(*) = 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.	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	500	ND	ND
Component 2: C46H-30CrN10O20S2 3Na	Not Allocated	500	ND	ND

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.	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500	ND	ND
Bisphenol A	80-05-7	10	ND	ND
Thiourea	62-56-6	50	ND	ND
Quinoline	91-22-5	50	ND	ND
Borate, zinc salt (^^)	12767-90-7	100 in Boron & 100 in Zinc	Boron:ND Zinc:ND	Boron:ND Zinc:ND

^^ = 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.	ZDHC Reporting limit (µg/L)	Result Sample 1 A (Untreated wastewater) (µg/L)	Result Sample 1B (Untreated wastewater) (µg/L)
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec- butyl) phenol(UV-350)	36437-37-3	100	ND	ND
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	100	ND	ND
2-benzotriazol-2-yl-4,6-di-tertbutylphe	3846-71-7	100	ND	ND
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	100	ND	ND

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) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
Antimony	5	5	537	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	296	mg/kg
Selenium	5	5	ND	mg/kg
Silver	50	50	ND	mg/kg
Total Chromium	50	50	311	mg/kg
Zinc	400	400	ND	mg/kg
Chromium (VI)	20	20	ND	mg/kg
Mercury	1	1	ND	mg/kg

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 Parameteres - Step 1 – Conventional

Sludge Parameters – Step 1 - Conventi	Test method	Lab reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
pH	HJ962	N/A	4.57	[f] N/A
% Solids	HJ613	N/A	27.0	%
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 Parameteres - 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)	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	ND	mg/kg
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	0.4	ND	mg/kg
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	0.4	ND	mg/kg
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	0.4	ND	mg/kg

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)	Result Sample 3 (Sludge - Dry weight)	Unit
Acenaphthene	83-32-9	0.2	ND	mg/kg
Acenaphthylene	208-96-8	0.2	ND	mg/kg
Anthracene	120-12-7	0.2	ND	mg/kg
Benzo[a]anthracene	56-55-3	0.2	ND	mg/kg
Benzo[a]pyrene (BaP)	50-32-8	0.2	ND	mg/kg
Benzo[b]fluoranthene	205-99-2	0.2	ND	mg/kg
Benzo[e]pyrene	192-97-2	0.2	ND	mg/kg
Benzo[ghi]perylene	191-24-2	0.2	ND	mg/kg
Benzo[j]fluoranthene	205-82-3	0.2	ND	mg/kg
Benzo[k]fluoranthene	207-08-9	0.2	ND	mg/kg
Chrysene	218-01-9	0.2	ND	mg/kg
Dibenz[a,h]anthracene	53-70-3	0.2	ND	mg/kg
Fluoranthene	206-44-0	0.2	ND	mg/kg
Fluorene	86-73-7	0.2	ND	mg/kg
Indeno[1,2,3-cd]pyrene	193-39-5	0.2	ND	mg/kg
Naphthalene	91-20-3	0.2	ND	mg/kg
Phenanthrene	85-01-8	0.2	ND	mg/kg
Pyrene	129-00-0	0.2	ND	mg/kg

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)	Result Sample 3 (Sludge - Dry weight)	Unit
2-Chlorotoluene	95-49-8	0.2	ND	mg/kg
3-Chlorotoluene	108-41-8	0.2	ND	mg/kg
4-Chlorotoluene	106-43-4	0.2	ND	mg/kg
2,3-Dichlorotoluene	32768-54-0	0.2	ND	mg/kg
2,4-Dichlorotoluene	95-73-8	0.2	ND	mg/kg

2,5-Dichlorotoluene	19398-61-9	0.2	ND	mg/kg
2,6-Dichlorotoluene	118-69-4	0.2	ND	mg/kg
3,4-Dichlorotoluene	95-75-0	0.2	ND	mg/kg
3,5-Dichlorotoluene	25186-47-4	0.2	ND	mg/kg
2,3,4-Trichlorotoluene	7359-72-0	0.2	ND	mg/kg
2,3,6-Trichlorotoluene	2077-46-5	0.2	ND	mg/kg
2,4,5-Trichlorotoluene	6639-30-1	0.2	ND	mg/kg
2,4,6-Trichlorotoluene	23749-65-7	0.2	ND	mg/kg
3,4,5-Trichlorotoluene	21472-86-6	0.2	ND	mg/kg
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	ND	mg/kg
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	ND	mg/kg
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	ND	mg/kg
Pentachlorotoluene	877-11-2	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	ND	mg/L
Selenium	0.5	N/A	mg/L
Silver	5	N/A	mg/L
Total Chromium	5	ND	mg/L
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		Disposal pathways						
	Total metals and anions threshold values (mg/kg)	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
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						

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

Photo of sampling points:

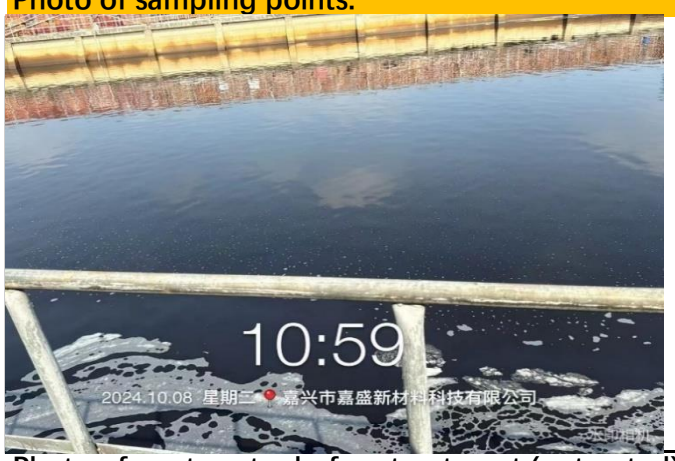	
Photo of wastewater before treatment (untreated) A	Photo of wastewater before treatment (untreated) B
	
Photo of effluent	Photo of sludge

Photo of samples:

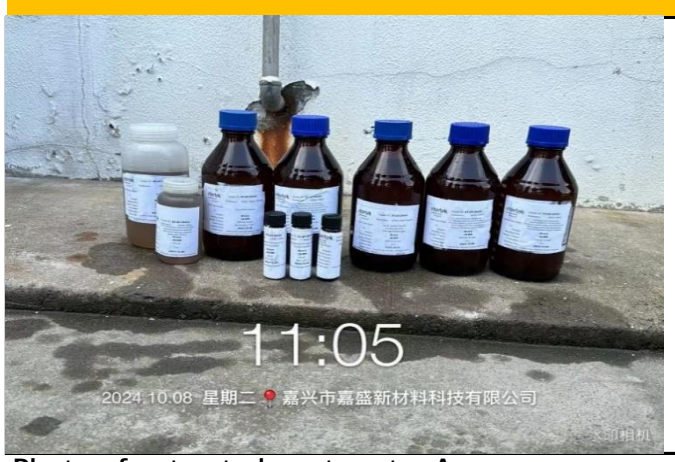	
Photo of untreated wastewater A	Photo of untreated wastewater B
	
Photo of effluent	Photo of sludge

SAMPLING PROTOCOL (PAGE 1 OF 3)

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ZDHC Monitoring

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

Facility Name 嘉兴 嘉盈新材料科技有限公司

Address and Contact: 浙江省嘉兴市[illegible] 312[illegible]之[illegible]

Facility type : (tick all applicable)
☑ Dyeing and Finishing ☐ Fabric Mill ☐ Laundry, Washing and Finishing ☐ Natural Leather processing ☐ Printing ☐ Synthetic Leather processing

Date of sampling: 2024.10.08

Sample General ID (if applicable): 8138424

☐ direct discharge ☑ indirect discharge ☐ Zero Liquid Discharge (ZLD) ☐ MMCF
☑ with pre-treatment ☐ without treatment ☑ with own ETP discharge to:

Discharge description: 嘉兴联合污水处理厂

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

Fill in all above information as applicable.

Sample Type and Details (see also page 2)

☑ **Effluent Discharge** ○ **direct:** Enter sampling times in Sample Details (page 2), **and measure field parameters.** or ○ **indirect** Enter sampling time(s) for Indirect discharge. Field parameters are not required, except on client's request.
○ Facility has WWTP ○ Plant is in operating condition
◇ **with Equalisation Tank (EQT) present:** **Hydraulic Retention Time (HRT):** 24 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: 24 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 : days / weeks

☑ A	○ B	○ C	○ D	○ E	○ F	○ 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

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

Sludge volume generated: 20 ○ m³/h ○ L/sec ○ other unit (specify): t/d ○ per facility info ○ measured ○ estimated

☐ **Process Chemical** ○ liquid ○ solid (powder/granulate/pieces) ◇ from running process ◇ from warehouse/storage

Times of sampling (if applicable)								
	Untreated: ~~Tank~~	1	2	3	4	5	6	7	or Grab (HRT>12h): 10:47
	Effluent (indirect) 1):	1	2	3	4	5	6	7	or Grab (HRT>12h): 10:32
	~~**Incoming:** 2)~~ Ungrouped	1	2	3	4	5	6	7	or Grab 2) (HRT>12h): 11:05
	Sludge (liquid):	1	2	3	4	5	6	7	**Solid sludge:** 10:54

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

Picture ID (or Date & Time / Interval): IMG-5854 – 5876

GPS coordinates of sampling points:

~~**Incoming W.:**~~ Ungrouped Tank	Lat.: ☑ N ○ S	30°48'5"	Long.: ○ E ○ W	120°42'50"
Untreated WW:	Lat.: ☑ N ○ S	30°48'31"	Long.: ○ E ○ W	120°42'45"
Effluent:	Lat.: ○ N ○ S	30°48'1"	Long.: ○ E ○ W	120°42'16"
Sludge:	Lat.: ☑ N ○ S	30°48'59"	Long.: ○ E ○ W	120°42'2"

SAMPLING PROTOCOL (PAGE 2 OF 3)

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

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

	1	2	3	4	5	6	7	**Averaged Readings** or Grab Sample readings:
Time of discrete effluent sample **								
pH:								
Temp. of WW discharge	°C	°C	°C	°C	°C	°C	°C	°C
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	m³/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:	O yes O no	O yes O no	O yes O no	O yes O no	O yes O no	O yes O no	O yes O no	O yes O no

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

Sampling procedure: O automated sampling ☑ with beaker/bowl O 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	20	轻微臭	棕色	O yes ☑ no	O yes ☑ no
Untreated	20	轻微臭	棕色	O yes ☑ no	O yes ☑ no
Effluent	20	无臭	浅黄色	O yes ☑ no	O yes ☑ no
Sludge	20	轻微臭	棕色		

Field Testing QA/QC

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

Other observations: 污水平均流量：3500m³/d
污泥PH：4.57

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

Rev 10b-4b - use with Guideline CS009.TP (Issue 10b) Page 2 of 3 Effective Date: 04-Sept-2023

SAMPLING PROTOCOL (PAGE 3 OF 3)

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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):

Bruce Fan / Bruce.fan@intertek.com

Facility Name:

嘉兴市嘉垚新材料科技有限公司

Sampler's ZDHC accreditation no.:

C74D1068173P7

Facility's Representative name:

付浩云 2024/10/2

Sampler's Signature:

Bruce

Facility's Representative Signature and Stamp:

付浩云

Rev 10b-4b - use with Guideline CS009.TP (Issue 10b) Page 3 of 3 Effective Date: 04-Sept-2023

XJR-WN-2023-034

污泥焚烧处理协议

甲方：嘉兴新嘉爱斯热电有限公司

乙方：嘉兴市天伦纳米染整有限公司　　合同签订地：杭州市上城区

甲方系嘉兴市环保部门定点的污泥焚烧处理企业，建有专门的污泥干化、焚烧处理设备及相应的环保设施。为共同做好环境保护工作，推进生态嘉兴建设，经双方友好协商，就污泥焚烧处理事宜达成如下合作协议。

一、污泥处理量及要求

甲方承担处理乙方产生的一般工业污泥，乙方送至甲方处理的日污泥量约 26 吨，月污泥量 780 吨，年度污泥量 9360 吨。甲方接收量达到年度污泥量后，本合同自然终止。若乙方仍需继续处置污泥，乙方需提出申请并提供相关环保证明材料，甲方视产能情况与乙方另行签订补充协议。

乙方须凭二维码并根据二维码上信息进行污泥转运，若遇二维码信息与实际转运情况不符合的，甲方有权拒收。乙方在预约完毕后，若出现特殊情况无法发起转运，需及时通知甲方。若乙方在预约过程中出现多次违规预约情况，甲方有权暂停或拒绝接收乙方污泥。

乙方承诺送甲方处理的污泥为非危险固废。乙方必须保证送至甲方的污泥不得含有生活垃圾、木块、石块、金属、塑料等任何固体杂物，对含有杂物的污泥甲方有权拒绝接收；乙方若已卸货被发现并经确认的杂物，由乙方负责清理。若有引起设备损坏的由乙方赔偿甲方因此发生的全部损失（包括直接损失和可得利益损失）。若乙方污泥转运处置过程中对甲方生产设备造成严重损害或者引发安全事故的情况，甲方有权暂停接收或终止协议。

因甲方污泥处理设施有一定的检修、维护时间以及污泥调度需要，

乙方应在污泥储存场地上留有一定的周转、储存空间以配合甲方的生产安排和调度。如遇检修、维护或污泥调度需要，甲方将提前通过预约系统通知乙方，乙方需根据甲方通知合理安排污泥转运，否则甲方有权暂停接收乙方污泥。

二、污泥运输、卸货要求

乙方负责委托专职的运输单位及专用运输车辆（运输公司及车辆等转运事宜由乙方自行解决并负责）在预约指定时间将污泥装运、卸入至甲方污泥库房。二维码订单号为污泥处置量上传环保监管平台唯一的匹配凭证，乙方需确保二维码订单和实际转运车次一一对应，否则甲方将拒绝接收转运订单并暂停接收乙方污泥。乙方必须保证污泥卸货地点和运输路程中的清洁卫生，对洒落的污泥须当场派人清理并视情况予以相应的经济处罚，对不服从管理者甲方有权拒绝接收。同时运输、卸泥过程中的一切安全、环保等问题由乙方负责。污泥转运费用由乙方自理。

为稳定有序开展污泥处理处置工作，乙方在委托污泥处理转运过程中须遵守甲方的污泥转运规定，同时乙方须把相关内容告知转运方。

三、污泥计重和成份检测

乙方运送至甲方处的污泥重量以甲方的地磅秤（电子计量衡）计量数为准（按该称重量甲方出具转移联单）。

污泥成分监测次数及污泥处理处置的日常管理按照秀洲区环保局相关文件要求执行。污泥日常监测费用由乙方支付给甲方通过招标确定的第三方监测单位，具体单价根据甲方和第三方监测单位服务协议为准（由第三方监测单位提供）。乙方若不按时结算污泥监测费，甲方暂停接收乙方污泥。若遇污泥成分监测发现重金属超标或其他不满足污泥焚烧指标要求的，甲方有权拒绝接收乙方污泥或终止协议。

四、污泥处理收费及结算

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

乙方负责运送、卸泥至甲方污泥库内，乙方向甲方支付污泥处理费单价为：220 元/吨污泥。（污泥处理单价若有统一调整，将另行通知）

乙方向甲方预先支付 52 万元污泥处理押金（乙方未付清押金甲方不接收污泥）。甲乙双方随合同约定期限对押金进行一次退收。甲方每月 21 日对乙方本期污泥量进行统计（上月 21 日至本月 20 日），与乙方核对后开具污泥处理费发票（6%增值税专用发票或普通发票），乙方须在次月 18 号前及时付污泥处理费，如遇法定节假日、周末等原因，将顺延缴费截止时间。若乙方未按时支付污泥处理费，甲方将向乙方按当期污泥处理费收取每日万分之五的滞纳金并暂停接收乙方污泥。正常终止本协议时，在乙方付清污泥处理费及滞纳金（如有）后，甲方退还乙方押金。若乙方需提前终止本协议，甲乙双方需另行签订终止协议，在乙方付清污泥处理费及滞纳金（如有）后，甲方退还乙方押金，否则甲方有权从押金中扣除。

五、本协议双方盖章后生效，有效期从 2023 年 1 月 1 日至 2024 年 12 月 31 日。

六、本协议一式五份，甲方执三份乙方执贰份。未尽事宜双方友好协商解决。协商未果，甲乙双方均有权向合同签订地人民法院提起诉讼。

甲方：嘉兴新嘉爱斯热电有限公司
开户银行：工商银行嘉兴秀洲支行
帐号：1204068019201278452
税号：91330411769640170M
地址：嘉兴市秀洲区王江泾镇07 省道东侧
邮编：314016
电话：0573-83776760
传真：0573-83776760
签字人：
签字日期：

乙方：嘉兴市天伦纳米染整有限公司
开户银行：中国银行嘉兴分行
账号：368858337800
税号：91330400736016339N
地址：元丰大道 137 号
邮编：314016
电话：0573-82282700
传真：0573-82280168
签字人：
签字日期：2022年12月6日

3

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End of report