

Date of sampling	22/05/2025
Reporting date	27/05/2025

Audit ID	25202	Audit firm	SGS Shanghai
Company name	ZHEJIANG CHARMING DYEING & FINISHING CO., LTD.		
Contact person	Yoyo		
Type of tax – tax ID no	913304007441048309		
Address	Fengming Street Industrial Park, Tongxiang City, Zhejiang Province		
Region state province	Zhejiang		
Town city / village	Tongxiang		
Zip / Post code	314505		

Type of wastewater discharge	
Type of wastewater discharge	Indirect Discharge w/ Pre-treatment (w/ Sludge)
Description of the discharge	Discharge to Centralized Wastewater Treatment Plant: Tongxiang Shenhe Water Co., Ltd. Address: No. 1105 Wenhua South Road, Tongxiang City
[If direct discharge] Temperature of receiving water body:	Not applicable

Type of sludge disposal pathway	
Type of sludge disposal pathway	Pathway E

Type of treatment*	
PRELIMINARY	<input checked="" type="checkbox"/> Screening/Sieving/Grit remover (< 6 mm) <input checked="" type="checkbox"/> Screening/Sieving/Grit remover (≥ 6 mm) <input checked="" type="checkbox"/> Homogenization tank <input checked="" type="checkbox"/> pH Correction <input type="checkbox"/> Other (please specify):
PRIMARY	<input checked="" type="checkbox"/> Coagulation/Flocculation <input type="checkbox"/> Dissolved air flotation (DAF) <input checked="" type="checkbox"/> Sedimentation tanks or Settler/Clarifier <input type="checkbox"/> Other (please specify):
SECONDARY/BIOLOGICAL	<input checked="" type="checkbox"/> Activated sludge process. Aerobic reactor <input type="checkbox"/> Biological Biofilm reactor (MBBR, SAF, RBC..) <input checked="" type="checkbox"/> Sequencing batch reactor (SBR) <input type="checkbox"/> Other (please specify):



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TERTIARY	<input checked="" type="checkbox"/> Absorption with activated carbon <input type="checkbox"/> High rate filtration <input type="checkbox"/> Techniques (ozone, Fenton reaction, photo catalytic degradation...) <input type="checkbox"/> Other (please specify):
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\*The information has been provided by the factory.

Sampler accreditation certification number (ZDHC):	C74D106818116
Sampling affiliate	SGS Shanghai

Sample description			
	Simple	Composite	Comments
(1) Untreated wastewater	-	Blue, composite sample at 9:50, 10:50, 11:50, 12:50, 13:50, 14:50, 15:50	pH: 7.6 Temperature: 37.3 °C
(2) Effluent	-	Yellowish, composite sample at 9:20, 10:20, 11:20, 12:20, 13:20, 14:20, 15:20	pH: 7.4 Temperature: 31.8 °C
(3) Sludge	Khaki & Black, grab sample at 15:30	-	-
(4) Leachate	YES	-	-



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Internal description – Final Test Report	
Testing laboratory	SGS Shanghai
Internal codification number (report number)	SL52515301080201TX
Reference sample number (sample ID)	-
Received on	23/05/2025
Analysis carried out from	23/05/2025 to 27/05/2025
Arrival temperature at lab	6.3 °C
Comments	<ol style="list-style-type: none"> <li>1. Samples received within 24 hours.</li> <li>2. The factory's untreated wastewater is a mixture of dyeing wastewater and printing wastewater in equal proportions.</li> </ol>

Signed for and on behalf of  
 SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd



Linda Wang (Authorized Signatory)



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.  
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Summary of test results				
Test items	Untreated wastewater	Effluent	Sludge	Leachate
Conventional Parameters and Anions	-	Please refer to the information in TEST RESULTS	Please refer to the information in TEST RESULTS	-
Heavy Metals	-	Fulfill aspirational limit	Please refer to the information in TEST RESULTS	ND
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	ND	-	ND	-
Antimicrobials and Biocides	ND	-	-	-
Chlorinated Parafins	ND	-	-	-
Chlorobenzenes & Chlorotoluenes	ND	-	ND	-
Chlorophenols	ND	-	-	-
N,N-di-methylformamide (DMFa)	ND	-	-	-
Dyes – Carcinogenic or Equivalent Concern	ND	-	-	-
Dyes – Disperse (Allergenic)	ND	-	-	-
Flame Retardants	ND	-	-	-
Glycols / Glycol Ethers	ND	-	-	-
Halogenated Solvents	ND	-	-	-
Organotin Compounds	ND	-	-	-
Other / Miscellaneous Chemicals	ND	-	-	-
Perfluorinated and Polyfluorinated Chemicals (PFCs)	ND	-	-	-
Phthalates – including all other esters of ortho-phthalic acid	ND	-	-	-
Polycyclic Aromatic Hydrocarbons (PAHs)	ND	-	ND	-
Restricted Aromatic Amines (Cleavable from Azo-colourants)	ND	-	-	-
UV Absorbers	ND	-	-	-
Volatile Organic Compounds (VOC)	ND	-	-	-

Sludge disposal pathway	
Comply sludge disposal pathway	Yes

**Remark (indicated in each parameter)**

- ND = Not detected (< ZDHC requirements)
- D = Detected (≥ ZDHC requirements)
- NA = Not applicable
- = Not required to be tested



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Test results

Wastewater

1. Conventional Parameters and Anions

Test Items	Test method	Limit			Reporting Limit	Result	Unit
		Foundational	Progressive	Aspirational		Effluent	
Wastewater Flowrate	-	-			NA	2100 *	m <sup>3</sup> /day

Remark

NA = Not applicable

- = Not required to be tested

\*= Test data is provided by the client



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**2. Heavy Metals**

Cr (VI): GB/T 7467-1987

Hg: HJ 694-2014

Others: US EPA 200.8:1994

Test items	CAS no.	Limit			Reporting Limit	Result	Unit
		Foundational	Progressive	Aspirational		Effluent	
Arsenic (As)	-	Textile and Leather: 0.05	Textile and Leather: 0.01	Textile and Leather: 0.005	0.005	ND	mg/L
Cadmium (Cd)	-	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.01	0.01	ND	mg/L
Mercury (Hg)	-	Textile and Leather: 0.01	Textile and Leather: 0.005	Textile and Leather: 0.001	0.001	ND	mg/L
Lead (Pb)	-	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.01	0.01	ND	mg/L
Chromium VI (Cr VI)	-	Textile: 0.05 Leather: 0.15	Textile: 0.005 Leather: 0.05	Textile: 0.001 Leather: 0.02	0.001	ND	mg/L

**3. Alkylphenol (AP) & Alkylphenol Ethoxylates (APEOs): including all isomers**

NP/OP: With reference to ISO 18857-2:2009

NPEO / OPEO: With reference to ISO 18857-2:2009 or ASTM D7742-17

Test items	CAS no.	Reporting limit	Result	Unit
			Untreated Wastewater	
Nonylphenol ethoxylates (NPEO)	Multiple including: 9016-45-9 / 26027-38-3 / 37205-87-1 / 68412-54-4 / 127087-87-0	Textiles and Leather: 5	ND	µg/L
Nonylphenol (NP), mixed isomers	Multiple including: 104-40-5 / 11066-49-2 / 25154-52-3 / 84852-15-3	Textiles and Leather: 5	ND	µg/L
Octylphenol ethoxylates (OPEO)	Multiple including: 9002-93-1 / 9036-19-5 / 68987-90-6	Textiles and Leather: 5	ND	µg/L
Octylphenol (OP), mixed isomers	Multiple including: 140-66-9 / 1806-26-4 / 27193-28-8	Textiles and Leather: 5	ND	µg/L



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**4. Antimicrobials and Biocides**

o-Phenylphenol (+salts): With reference to BS EN 12673:1999

Triclosan, Permethrin: With reference to US EPA 3510C:1996 & 8270E:2018

Test items	CAS no.	Reporting Limit	Result	
			Untreated wastewater	Unit
o-Phenylphenol (+salts)	90-43-7	Textiles: 100 Leather: Sample and Report Only	ND	µg/L
Triclosan	3380-34-5	Textiles and Leather: 100	ND	µg/L
Permethrin	Multiple including: 52645-53-1	Textiles and Leather: 500	ND	µg/L

**5. Chlorinated Paraffins**

With reference to ISO 12010:2019

Test items	CAS no.	Reporting Limit	Result	
			Untreated wastewater	Unit
Medium-chain Chlorinated Paraffins (MCCPs) (C14-C17)	85535-85-9	Textiles and Leather: 500	ND	µg/L
Short-chain Chlorinated Paraffins (SCCPs) (C10-C13)	85535-84-8	Textiles and Leather: 25	ND	µg/L



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6. Chlorobenzenes & Chlorotoluenes

3-Chlorotoluene, 4-Chlorotoluene: With reference to US EPA 8260D: 2018

Others: With reference to US EPA 3510C:1996 & 8270E:2018

Test item	CAS no.	Reporting limit	Result	Unit
			Untreated Wastewater	
1,2-Dichlorobenzene	95-50-1	Textiles and Leather: 0.2	ND	µg/L
Monochlorobenzene	108-90-7	Textiles and Leather: 0.2	ND	µg/L
1,3-Dichlorobenzene	541-73-1	Textiles and Leather: 0.2	ND	µg/L
1,4-Dichlorobenzene	106-46-7	Textiles and Leather: 0.2	ND	µg/L
1,2,3-Trichlorobenzene	87-61-6	Textiles and Leather: 0.2	ND	µg/L
1,2,4-Trichlorobenzene	120-82-1	Textiles and Leather: 0.2	ND	µg/L
1,3,5-Trichlorobenzene	108-70-3	Textiles and Leather: 0.2	ND	µg/L
1,2,3,4-Tetrachlorobenzene	634-66-2	Textiles and Leather: 0.2	ND	µg/L
1,2,3,5-Tetrachlorobenzene	634-90-2	Textiles and Leather: 0.2	ND	µg/L
1,2,4,5-Tetrachlorobenzene	95-94-3	Textiles and Leather: 0.2	ND	µg/L
Pentachlorobenzene	608-93-5	Textiles and Leather: 0.2	ND	µg/L
Hexachlorobenzene	118-74-1	Textiles and Leather: 0.2	ND	µg/L
2-Chlorotoluene	95-49-8	Textiles and Leather: 0.2	ND	µg/L
3-Chlorotoluene	108-41-8	Textiles and Leather: 0.2	ND	µg/L
4-Chlorotoluene	106-43-4	Textiles and Leather: 0.2	ND	µg/L
2,3-Dichlorotoluene	32768-54-0	Textiles and Leather: 0.2	ND	µg/L
2,4-Dichlorotoluene	95-73-8	Textiles and Leather: 0.2	ND	µg/L
2,5-Dichlorotoluene	19398-61-9	Textiles and Leather: 0.2	ND	µg/L
2,6-Dichlorotoluene	118-69-4	Textiles and Leather: 0.2	ND	µg/L
3,4-Dichlorotoluene	95-75-0	Textiles and Leather: 0.2	ND	µg/L
3,5-Dichlorotoluene	25186-47-4	Textiles and Leather: 0.2	ND	µg/L
2,3,4-Trichlorotoluene	7359-72-0	Textiles and Leather: 0.2	ND	µg/L
2,3,6-Trichlorotoluene	2077-46-5	Textiles and Leather: 0.2	ND	µg/L
2,4,5-Trichlorotoluene	6639-30-1	Textiles and Leather: 0.2	ND	µg/L
2,4,6-Trichlorotoluene	23749-65-7	Textiles and Leather: 0.2	ND	µg/L
3,4,5-Trichlorotoluene	21472-86-6	Textiles and Leather: 0.2	ND	µg/L
2,3,4,5-Tetrachlorotoluene	1006-32-2	Textiles and Leather: 0.2	ND	µg/L



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2,3,4,6-Tetrachlorotoluene	875-40-1	Textiles and Leather: 0.2	ND	µg/L
2,3,5,6-Tetrachlorotoluene	1006-31-1	Textiles and Leather: 0.2	ND	µg/L
Pentachlorotoluene	877-11-2	Textiles and Leather: 0.2	ND	µg/L

7. Chlorophenols

With reference to BS EN 12673:1999

Test items	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
2-Chlorophenol	95-57-8	Textiles and Leather: 0.5	ND	µg/L
2,3-Dichlorophenol	576-24-9	Textiles and Leather: 0.5	ND	µg/L
2,3,4-Trichlorophenol	15950-66-0	Textiles and Leather: 0.5	ND	µg/L
2,3,5-Trichlorophenol	933-78-8	Textiles and Leather: 0.5	ND	µg/L
2,3,6-Trichlorophenol	933-75-5	Textiles and Leather: 0.5	ND	µg/L
2,4-Dichlorophenol	120-83-2	Textiles and Leather: 0.5	ND	µg/L
2,4,5-Trichlorophenol	95-95-4	Textiles and Leather: 0.5	ND	µg/L
2,4,6-Trichlorophenol	88-06-2	Textiles and Leather: 0.5	ND	µg/L
2,5-Dichlorophenol	583-78-8	Textiles and Leather: 0.5	ND	µg/L
2,6-Dichlorophenol	87-65-0	Textiles and Leather: 0.5	ND	µg/L
3-Chlorophenol	108-43-0	Textiles and Leather: 0.5	ND	µg/L
3,4-Dichlorophenol	95-77-2	Textiles and Leather: 0.5	ND	µg/L
3,4,5-Trichlorophenol	609-19-8	Textiles and Leather: 0.5	ND	µg/L
3,5-Dichlorophenol	591-35-5	Textiles and Leather: 0.5	ND	µg/L
4-Chlorophenol	106-48-9	Textiles and Leather: 0.5	ND	µg/L
Pentachlorophenol PCP	87-86-5	Textiles and Leather: 0.5	ND	µg/L
2,3,5,6-Tetrachlorophenol	935-95-5	Textiles and Leather: 0.5	ND	µg/L
2,3,4,6-Tetrachlorophenol	58-90-2	Textiles and Leather: 0.5	ND	µg/L
2,3,4,5-Tetrachlorophenol	4901-51-3	Textiles and Leather: 0.5	ND	µg/L



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**8. N,N-di-methylformamide (DMFa)**

With reference to US EPA 8015C:2007

Test item	CAS no.	Reporting Limit	Result	
			Untreated wastewater	Unit
N,N-di-methylformamide (DMFa)	68-12-2	Textiles: 1000 Leather: Sample and Report Only	ND	µg/L

**9. Dyes - Carcinogenic or Equivalent Concern**

With reference to inhouse method followed by LC-MS/MS

Test items	CAS no.	Reporting Limit	Result	
			Untreated wastewater	Unit
Basic violet 3 with >0.1% of Michler’s Ketone	548-62-9	Textiles and Leather: 500	ND	µg/L
C.I. Acid Red 26	3761-53-3	Textiles and Leather: 500	ND	µg/L
C.I. Acid Violet 49	1694-09-3	Textiles and Leather: 500	ND	µg/L
C.I. Basic Blue 26 (with Michler’s Ketone > 0.1%)	2580-56-5	Textiles and Leather: 500	ND	µg/L
C.I. Basic Green 4 (Malachite Green Chloride)^	569-64-2	Textiles and Leather: 500	ND	µg/L
C.I. Basic Green 4 (Malachite Green Oxalate)^	2437-29-8	Textiles and Leather: 500	ND	µg/L
C.I. Basic Green 4 (Malachite Green)	10309-95-2	Textiles and Leather: 500	ND	µg/L
C.I. Basic Red 9	569-61-9	Textiles and Leather: 500	ND	µg/L
C.I. Basic Violet 14	632-99-5	Textiles and Leather: 500	ND	µg/L
C.I. Direct Black 38	1937-37-7	Textiles and Leather: 500	ND	µg/L
C.I. Direct Blue 6	2602-46-2	Textiles and Leather: 500	ND	µg/L
C.I. Direct Red 28	573-58-0	Textiles and Leather: 500	ND	µg/L
C.I. Disperse Blue 1	2475-45-8	Textiles and Leather: 500	ND	µg/L
C.I. Disperse Blue 3	2475-46-9	Textiles and Leather: 500	ND	µg/L
Disperse Orange 11	82-28-0	Textiles and Leather: 500	ND	µg/L

\*Reported concentration refers to the dye part only



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10. Dyes - Disperse (Allergenic)

With reference to inhouse method followed by LC-MS/MS

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



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11. Flame Retardants

Boric acid, Diboron trioxide, Disodium octaborate, Disodium tetraborate anhydrous, Tetraboron disodium heptaoxide, hydrate: With reference to US EPA 200.8:1994

BBMP, BIS, TRIS: With reference to inhouse method followed by LC-MS/MS

Others: With reference to US EPA 3510C:1996 & US EPA 8270E:2018

Test Items	CAS no.	Reporting Limit	Result	
			Untreated wastewater	Unit
Boric acid	10043-35-3 / 11113-50-1	Textiles and Leather: 500*	ND (ND)**	µg/L
Diboron trioxide	1303-86-2	Textiles and Leather: 500*	ND (ND)**	µg/L
Disodium octaborate	12008-41-2	Textiles and Leather: 500*	ND (ND)**	µg/L
Disodium tetraborate, anhydrous	1303-96-4 / 1330-43-4	Textiles and Leather: 500*	ND (ND)**	µg/L
Tetraboron disodium heptaoxide, hydrate	12267-73-1	Textiles and Leather: 500*	ND (ND)**	µg/L
Hexabromocyclodecane (HBCDD)	3194-55-6	Textiles and Leather: 25	ND	µg/L
2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	Textiles and Leather: 25	ND	µg/L
Polybromobiphenyls (PBB)	59536-65-1	Textiles and Leather: 25	ND	µg/L
Monobromobiphenyls (MonoBB)	Multiple	Textiles and Leather: 25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Multiple	Textiles and Leather: 25	ND	µg/L
Dibromobiphenyls (DiBB)	Multiple	Textiles and Leather: 25	ND	µg/L
Dibromopropylether	21850-44-2	Textiles and Leather: 25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Multiple	Textiles and Leather: 25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	Textiles and Leather: 25	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	Textiles and Leather: 25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	Textiles and Leather: 25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	Textiles and Leather: 25	ND	µg/L
Octabromobiphenyls (OctaBB)	Multiple	Textiles and Leather: 25	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	Textiles and Leather: 25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Multiple	Textiles and Leather: 25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	Textiles and Leather: 25	ND	µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	Textiles and Leather: 25	ND	µg/L
Decabromodiphenyl ether (DecaBDE)	1163-19-5	Textiles and Leather: 25	ND	µg/L



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Tetrabromobisphenol A (TBBPA)	79-94-7	Textiles and Leather: 25	ND	µg/L
Bis(2,3-dibromopropyl) phosphate (BDBPP)	5412-25-9	Textiles and Leather: 25	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	Textiles and Leather: 25	ND	µg/L
Tris(1-aziridinyl) phosphine oxide) (TEPA)	545-55-1	Textiles and Leather: 25	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	Textiles and Leather: 25	ND	µg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	Textiles and Leather: 25	ND	µg/L
Tris(2,3,-dibromopropyl)-phosphate (TRIS)	126-72-7	Textiles and Leather: 25	ND	µg/L

\* Limit refers to elemental boron, not the salt.

\*\*Result in term of elemental boron (Result in term of the corresponding boron salt)



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**12. Glycols/Glycol Ethers**

2-Ethoxyethanol, 2-Methoxyethanol, Ethylene glycol dimethyl ether, Triethylene glycol dimethyl ether: With reference to US EPA 8015C:2007  
 Others: With reference to US EPA 3510C:1996 & US EPA 8270E:2018

Test Items	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
2-ethoxyethanol	110-80-5	Textiles and Leather: 50	ND	µg/L
2-ethoxyethyl acetate	111-15-9	Textiles and Leather: 50	ND	µg/L
2-methoxyethanol	109-86-4	Textiles and Leather: 50	ND	µg/L
2-methoxyethylacetate	110-49-6	Textiles and Leather: 50	ND	µg/L
2-methoxypropylacetate	70657-70-4	Textiles and Leather: 50	ND	µg/L
Bis(2-methoxyethyl)-ether	111-96-6	Textiles and Leather: 50	ND	µg/L
Ethylene glycol dimethylether	110-71-4	Textiles and Leather: 50	ND	µg/L
Triethylene glycol dimethyl ether	112-49-2	Textiles and Leather: 50	ND	µg/L

**13. Halogenated solvents**

With reference to US EPA 8260D: 2018

Test Items	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
1,2-Dichloroethane	107-06-2	Textiles and Leather: 1	ND	µg/L
Methylene chloride	75-09-2	Textiles and Leather: 1	ND	µg/L
Trichloroethene	79-01-6	Textiles and Leather: 1	ND	µg/L
Tetrachloroethene	127-18-4	Textiles and Leather: 1	ND	µg/L



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**14. Organotin compounds**

With reference to DIN EN ISO17353:2005 (E)

Test item	CAS no.	Reporting limit	Result	Unit
			Untreated Wastewater	
Dipropyltin Compounds (DPT)	Multiple including: 867-36-7	Textiles and Leather: 0.01	ND	µg/L
Mono-, di- and tri-butyltin derivatives	Multiple including: 1118-46-3, 1461-22-9	Textiles and Leather: 0.01	ND	µg/L
Monobutyltin (MBT)		Textiles and Leather: 0.01	ND	µg/L
Dibutyltin (DBT)		Textiles and Leather: 0.01	ND	µg/L
Tributyltin (TBT)		Textiles and Leather: 0.01	ND	µg/L
Mono-, di- and tri-methyltin derivatives	Multiple including: 993-16-8, 753-73-1, 1066-45-1	Textiles and Leather: 0.01	ND	µg/L
Monomethyltin (MMT)		Textiles and Leather: 0.01	ND	µg/L
Dimethyltin (DMT)		Textiles and Leather: 0.01	ND	µg/L
Trimethyltin (TMT)		Textiles and Leather: 0.01	ND	µg/L
Mono-, di- and tri-octyltin derivatives	Multiple including: 3091-25-6, 3542-36-7, 2587-76-0	Textiles and Leather: 0.01	ND	µg/L
Monooctyltin (MOT)		Textiles and Leather: 0.01	ND	µg/L
Diocetyl tin (DOT)		Textiles and Leather: 0.01	ND	µg/L
Triocetyl tin (TOT)		Textiles and Leather: 0.01	ND	µg/L
Mono-, di- and tri-phenyltin derivatives	Multiple including: 1124-19-2, 1135-99-5, 639-58-7	Textiles and Leather: 0.01	ND	µg/L
Monophenyltin (MPHT)		Textiles and Leather: 0.01	ND	µg/L
Diphenyltin (DPHT)		Textiles and Leather: 0.01	ND	µg/L
Triphenyltin (TPHT)		Textiles and Leather: 0.01	ND	µg/L
Tetrabutyltin Compounds (TeBT)	Multiple including: 1461-25-2	Textiles and Leather: 0.01	ND	µg/L
Tetraethyltin Compounds (TeET)	Multiple including: 597-64-8	Textiles and Leather: 0.01	ND	µg/L
Tetraoctyltin Compounds (TeOT)	Multiple including: 3590-84-9	Textiles and Leather: 0.01	ND	µg/L
Tricyclohexyltin (TCyHT)	Multiple including: 3091-32-5	Textiles and Leather: 0.01	ND	µg/L
Tripropyltin Compounds (TPT)	Multiple including: 2279-76-7	Textiles and Leather: 0.01	ND	µg/L



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**15. Other/Miscellaneous Chemicals**

AEEA, Thiourea: With reference to inhouse method followed by LC-MS/MS

Bisphenol A: With reference to ISO 18857-2:2009

Quinoline: With reference to US EPA 3510C:1996 & US EPA 8270E:2018

Borate, zinc salt: US EPA 200.8:1994

Test Items	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
AEEA [2-(2-aminoethylamino) ethanol]	111-41-1	Textiles and Leather: 500	ND	µg/L
Bisphenol A	80-05-7	Textiles and Leather: 10	ND	µg/L
Borate, zinc salt	12767-90-7	Textiles and Leather: 100*	B: ND (ND)** Zn: ND (ND)**	µg/L
Quinoline	91-22-5	Textiles and Leather: 50	ND	µg/L
Thiourea	62-56-6	Textiles and Leather: 50	ND	µg/L

\* Limit refers to boron and zinc individually, not the salt.

\*\* Result in term of elemental boron / zinc (Result in term of the corresponding boron / zinc salt)



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16. Perfluorinated and Polyfluorinated Chemicals (PFCs)

PFCs: With reference to US EPA 537.1:2020 & inhouse method

FTOH: With reference to US EPA 3510C:1996 & US EPA 8270E:2018

Test Items	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
Perfluorooctane sulfonate (PFOS)*	Multiple including: 1763-23-1	Textiles and Leather: 0.01	ND	µg/L
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	Textiles and Leather: 0.01	ND	µg/L
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	Textiles and Leather: 0.01	ND	µg/L
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2	Textiles and Leather: 0.01	ND	µg/L
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (MeFOSE)	24448-09-7	Textiles and Leather: 0.01	ND	µg/L
Perfluorooctane sulfonamide (PFOSA)	754-91-6	Textiles and Leather: 0.01	ND	µg/L
Perfluorooctanoic acid (PFOA)**	Multiple including: 335-67-1	Textiles and Leather: 1	ND	µg/L
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	Textiles and Leather: 1	ND	µg/L
Methyl Perfluorooctanoate (Me-PFOA)	376-27-2	Textiles and Leather: 1	ND	µg/L
Ethyl Perfluorooctanoate (Et-PFOA)	3108-24-5	Textiles and Leather: 1	ND	µg/L
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	Textiles and Leather: 1	ND	µg/L
1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA)	27905-45-9	Textiles and Leather: 1	ND	µg/L
8:2 Fluorotelomer methacrylate (8:2 FTMA)	1996-88-9	Textiles and Leather: 1	ND	µg/L

\* PFOS refer to its salts/derivative including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH<sub>4</sub> (CAS No.: 29081-56-9), PFOS-NH(OH)<sub>2</sub> (CAS No.: 70225-14-8), PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> (CAS No.: 56773-42-3) and POSF (CAS No.: 307-35-7)

\*\* PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1)



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**17. Phthalates – including all other esters of ortho-phthalic acid**

With reference to US EPA 3510C:1996 & US EPA 8270E:2018

Test Items	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
1,2-benzenedicarboxylic acid, di-C6-8 branched and linear alkyl esters, C7-rich (DIHP)	71888-89-6 / 84777-06-0	Textiles and Leather: 10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP)	68515-42-4 / 68515-50-4	Textiles and Leather: 10	ND	µg/L
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	Textiles and Leather: 10	ND	µg/L
Butyl benzyl phthalate (BBP)	85-68-7	Textiles and Leather: 10	ND	µg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	Textiles and Leather: 10	ND	µg/L
Di-iso-decyl phthalate (DIDP)	26761-40-0	Textiles and Leather: 10	ND	µg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	Textiles and Leather: 10	ND	µg/L
Di-isobutyl phthalate (DIBP)	84-69-5	Textiles and Leather: 10	ND	µg/L
Di-isononyl phthalate (DINP)	28553-12-0	Textiles and Leather: 10	ND	µg/L
Di-n-hexyl phthalate (DnHP)	84-75-3	Textiles and Leather: 10	ND	µg/L
Di-n-octyl phthalate (DNOP)	117-84-0	Textiles and Leather: 10	ND	µg/L
Di-n-pentylphthalates	131-18-0	Textiles and Leather: 10	ND	µg/L
Di-n-propyl phthalate (DPRP)	131-16-8	Textiles and Leather: 10	ND	µg/L
Di(ethylhexyl) phthalate (DEHP)	117-81-7	Textiles and Leather: 10	ND	µg/L
Dibutyl phthalate (DBP)	84-74-2	Textiles and Leather: 10	ND	µg/L
Diethyl phthalate (DEP)	84-66-2	Textiles and Leather: 10	ND	µg/L
Diisopentylphthalates	605-50-5	Textiles and Leather: 10	ND	µg/L
Dinonyl phthalate (DNP)	84-76-4	Textiles and Leather: 10	ND	µg/L



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**18. Polycyclic aromatic hydrocarbons (PAHs)**

With reference to US EPA 3510C:1996 & US EPA 8270E:2018

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



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**19. Restricted Aromatic Amines (Cleavable from Azo-colourants)**

With reference to EN ISO 14362-1:2017, EN ISO 14362-3:2017 (if needed), US EPA 3510C:1996 & US EPA 8270E:2018

Test Items	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
2-naphthylamine	91-59-8	Textiles and Leather: 0.1	ND	µg/L
2-naphthylammoniumacetate^	553-00-4	Textiles and Leather: 0.1	ND	µg/L
2,4-xylidine	95-68-1	Textiles and Leather: 0.1	ND	µg/L
2,4,5-trimethylaniline	137-17-7	Textiles and Leather: 0.1	ND	µg/L
2,4,5-trimethylaniline hydrochloride^	21436-97-5	Textiles and Leather: 0.1	ND	µg/L
2,6-xylidine	87-62-7	Textiles and Leather: 0.1	ND	µg/L
3,3'-dichlorobenzidine	91-94-1	Textiles and Leather: 0.1	ND	µg/L
3,3-dimethoxybenzidine	119-90-4	Textiles and Leather: 0.1	ND	µg/L
3,3-dimethylbenzidine	119-93-7	Textiles and Leather: 0.1	ND	µg/L
4-aminoazobenzene	60-09-3	Textiles and Leather: 0.1	ND	µg/L
4-aminodiphenyl	92-67-1	Textiles and Leather: 0.1	ND	µg/L
4-chloro-o-toluidine	95-69-2	Textiles and Leather: 0.1	ND	µg/L
4-chloro-o-toluidinium chloride^	3165-93-3	Textiles and Leather: 0.1	ND	µg/L
4-chloroaniline	106-47-8	Textiles and Leather: 0.1	ND	µg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate^	39156-41-7	Textiles and Leather: 0.1	ND	µg/L
4-methoxy-m-phenylenediamine	615-05-4	Textiles and Leather: 0.1	ND	µg/L
4-methyl-m-phenylenediamine	95-80-7	Textiles and Leather: 0.1	ND	µg/L
4,4-methylene-bis-(2-chloro-aniline)	101-14-4	Textiles and Leather: 0.1	ND	µg/L
4,4-methylenedi-o-toluidine	838-88-0	Textiles and Leather: 0.1	ND	µg/L
4,4-methylenedianiline	101-77-9	Textiles and Leather: 0.1	ND	µg/L
4,4-oxydianiline	101-80-4	Textiles and Leather: 0.1	ND	µg/L
4,4-thiodianiline	139-65-1	Textiles and Leather: 0.1	ND	µg/L
5-nitro-o-toluidine	99-55-8	Textiles and Leather: 0.1	ND	µg/L
6-methoxy-m-toluidine	120-71-8	Textiles and Leather: 0.1	ND	µg/L
Benzidine	92-87-5	Textiles and Leather: 0.1	ND	µg/L
o-aminoazotoluene	97-56-3	Textiles and Leather: 0.1	ND	µg/L
o-anisidine	90-04-0	Textiles and Leather: 0.1	ND	µg/L
o-toluidine	95-53-4	Textiles and Leather: 0.1	ND	µg/L



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**20. UV Absorbers**

With reference to inhouse method followed by LC-MS/MS

Test Items	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	Textiles and Leather: 100	ND	µg/L
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	Textiles and Leather: 100	ND	µg/L
2-benzotriazol-2-yl-4,6-di-tertbutylphenol (UV-320)	3846-71-7	Textiles and Leather: 100	ND	µg/L
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	Textiles and Leather: 100	ND	µg/L

**21. Volatile organic compounds (VOCs)**

Benzene, Xylene, Toluene: With reference to US EPA 8260D: 2018

m-cresol / o-cresol / p-cresol: With reference to US EPA 3510C:1996 & US EPA 8270E:2018

Test Items	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
Benzene	71-43-2	Textiles and Leather: 1	ND	µg/L
m-cresol	108-39-4	Textiles and Leather: 1	ND	µg/L
o-cresol	95-48-7	Textiles and Leather: 1	ND	µg/L
p-cresol	106-44-5	Textiles and Leather: 1	ND	µg/L
Toluene	108-88-3	Textiles and Leather: 1	ND	µg/L
Xylene	1330-20-7	Textiles and Leather: 1	ND	µg/L

**Remark**

- 1 µg/L = 0.001 ppm
- ND = Not detected (< Reporting limit)
- NA = Not applicable
- NC = Not conducted
- = Not required to be tested



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**SLUDGE**

**22. Sludge Parameters - Step 1 – Conventional**

pH: HJ 962-2018

% Solids: HJ 613-2011

Paint Filter Test: US EPA 9095B:2004

Faecal Coliform: USEPA 1681

Test Items	CAS no.	Limit							Reporting Limit	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
pH	-	NA	NA	NA	5-11	5-11	6.5-9	6.5-9	-	7.5	s.u.
Faecal Coliform	-	NA	NA	NA	NA	NA	<1000	<1000	Textiles and Leather: 1000	-	MPN/g
% Solids	-	Sample and Report Only	-	55.2	%						
Paint Filter Test	-	NA	NA	NA	Pass	Pass	Pass	Pass	-	Pass	-

**23. Sludge Parameters – Step 1 – Anions**

With reference to HJ 745-2015

Test Items	CAS no.	Limit – Dry weight							Reporting Limit	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
Cyanide	-	NA	NA	NA	85	70	70	70	Textile: 20	ND	mg/kg



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24. Sludge Parameters – Step 1 – Metals

Cr VI: US EPA 3060A:1996 & HJ 1082

Hg: HJ 923-2017

Others: US EPA 3050B:1996 & US EPA 6020B:2014

Test Items	CAS no.	Limit – Dry weight		Reporting Limit	Result	Unit
		Total Metals Threshold Values*	Max Total Metals limit for Pathway G		Sludge	
Antimony (Sb)	-	12	NA	Textiles: 5	ND	mg/kg
Arsenic (As)	-	10	41	Textiles: 5 Leather: 2	20	mg/kg
Barium (Ba)	-	700	NA	Textiles: 200	ND	mg/kg
Cadmium (Cd)	-	3	39	Textiles: 1 Leather: 2	ND	mg/kg
Cobalt (Co)	-	1600	NA	Textiles: 400	ND	mg/kg
Copper (Cu)	-	200	1500	Textiles: 50	51	mg/kg
Lead (Pb)	-	10	400	Textiles: 5 Leather: 2	37	mg/kg
Nickel (Ni)	-	70	420	Textiles: 20	37	mg/kg
Selenium (Se)	-	10	36	Textiles: 5	ND	mg/kg
Silver (Ag)	-	100	NA	Textiles: 50	ND	mg/kg
Zinc (Zn)	-	1000	2800	Textiles: 400	ND	mg/kg
Total Chromium (Cr)	-	100	1200	Textiles: 50	50	mg/kg
Chromium VI (Cr VI)	-	50	50	Textiles: 20 Leather: 2	ND	mg/kg
Mercury (Hg)	-	1	17	Textiles: 1 Leather: 0.2	ND	mg/kg

\* Leachate should be tested if Total Metals Threshold Values is exceeded in sludge.



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**25. Sludge Parameters - Step 1 - MRSL - Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers**

NP/OP: With reference to inhouse method followed by GC-MS

NPEO/OPEO: With reference to inhouse method followed by GC-MS & LC-MS/MS

Test Items	CAS no.	Limit – Dry weight							Reporting Limit	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
Nonylphenol ethoxylates (NPEO)	Multiple including: 9016-45-9 / 26027-38-3 / 37205-87-1 / 68412-54-4 / 127087-87-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	Textiles and Leather: 0.4	ND	mg/kg
Nonylphenol (NP), mixed isomers	Multiple including: 104-40-5 / 11066-49-2 / 25154-52-3 / 84852-15-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	Textiles and Leather: 0.4	ND	mg/kg
Octylphenol ethoxylates (OPEO)	Multiple including: 9002-93-1 / 9036-19-5 / 68987-90-6	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	Textiles and Leather: 0.4	ND	mg/kg
Octylphenol (OP), mixed isomers	Multiple including: 140-66-9 / 1806-26-4 / 27193-28-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	Textiles and Leather: 0.4	ND	mg/kg

**26. Sludge Parameters - Step 1 - MRSL – Polycyclic Aromatic Hydrocarbons (PAHs)**

With reference to US EPA 3570 & US EPA 8270E:2018

Test Items	CAS no.	Limit – Dry weight							Reporting Limit (Textile)	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
Acenaphthene	83-32-9	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Acenaphthylene	208-96-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Anthracene	120-12-7	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg



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		Only	Only	Only							
Benzo(a)anthracene	56-55-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Benzo(a)pyrene	50-32-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Benzo(b)fluoranthene	205-99-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Benzo(e)pyrene	192-97-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Benzo(ghi)perylene	191-24-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Benzo(j)fluoranthene	205-82-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Benzo(k)fluoranthene	207-08-09	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Chrysene	218-01-9	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Dibenz(a,h)anthracene	53-70-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Fluoranthene	206-44-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Fluorene	86-73-7	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Indeno (1,2,3-cd)pyrene	193-39-5	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Naphthalene	91-20-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg



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Phenanthrene	85-01-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Pyrene	129-00-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg



SGS-CSTC (Shanghai) Co., Ltd.  
 Inspection & Testing Services  
 Softline Laboratory

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27. Sludge Parameters - Step 1 - MRSL – Chlorotoluenes

With reference to US EPA 3570 & US EPA 8270E:2018

Test Items	CAS no.	Limit – Dry weight							Reporting Limit (Textile and Leather)	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
2-Chlorotoluene	95-49-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
3-Chlorotoluene	108-41-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
4-Chlorotoluene	106-43-4	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
2,3-Dichlorotoluene	32768-54-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
2,4-Dichlorotoluene	95-73-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
2,5-Dichlorotoluene	19398-61-9	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
2,6-Dichlorotoluene	118-69-4	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
3,4-Dichlorotoluene	95-75-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
3,5-Dichlorotoluene	25186-47-4	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
2,3,4-Trichlorotoluene	7359-72-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
2,3,6-Trichlorotoluene	2077-46-5	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg



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2,4,5-Trichlorotoluene	6639-30-1	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
2,4,6-Trichlorotoluene	23749-65-7	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
3,4,5-Trichlorotoluene	21472-86-6	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
2,3,4,5-Tetrachlorotoluene	1006-32-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
2,3,4,6-Tetrachlorotoluene	875-40-1	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
2,3,5,6-Tetrachlorotoluene	1006-31-1	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Pentachlorotoluene	877-11-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg

**LEACHATE**

**28. Leachate Parameters - Step 2 – Metals**

Cr (VI): USEPA 1311:1992, US EPA 3060A:1996 & EPA 7196A:1996

Hg: USEPA 1311:1992 & HJ 694-2014

Others: USEPA 1311:1992 & USEPA 200.8:1994

Test item	CAS no.	Limit							Reporting Limit	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Leachate	
Antimony (Sb)	-	NA	NA	NA	7.8	0.6	0.6	0.6	0.01	-	mg/L
Arsenic (As)	-	NA	NA	NA	2.75	0.5	0.5	0.5	0.005	ND	mg/L
Barium (Ba)	-	NA	NA	NA	67.5	35	35	35	35	-	mg/L
Cadmium (Cd)	-	NA	NA	NA	0.58	0.15	0.15	0.15	0.01	-	mg/L



Cobalt (Co)	-	NA	NA	NA	80	80	80	80	0.01	-	mg/L
Copper (Cu)	-	NA	NA	NA	17.5	10	10	10	0.25	-	mg/L
Lead (Pb)	-	NA	NA	NA	2.75	0.5	0.5	0.5	0.01	ND	mg/L
Nickel (Ni)	-	NA	NA	NA	11.75	3.5	3.5	3.5	0.05	-	mg/L
Selenium (Se)	-	NA	NA	NA	0.75	0.5	0.5	0.5	0.5	-	mg/L
Silver (Ag)	-	NA	NA	NA	5	5	5	5	0.005	-	mg/L
Zinc (Zn)	-	NA	NA	NA	50	50	50	50	0.1	-	mg/L
Total Chromium (Cr)	-	NA	NA	NA	5	5	5	5	0.05	-	mg/L
Chromium VI (Cr VI)	-	NA	NA	NA	3.75	2.5	2.5	2.5	0.001	-	mg/L
Mercury (Hg)	-	NA	NA	NA	0.125	0.05	0.05	0.05	0.001	-	mg/L

**Remark**

ND = Not detected (< Reporting limit)  
 NA = Not applicable  
 NC = Not conducted  
 -= Not required to be tested



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Annex A: Sampling photos & Sampling locations

<b>UNTREATED WASTEWATER(PRINTING)</b>
Date & Time of Measurement: 22/05/2025 ; 10:45 GPS Data: 30°35'47" N, 120°31'12" E
<b>SAMPLING LOCATION, CLOSE-UP VIEW</b>



**SAMPLING LOCATION, FAR VIEW**



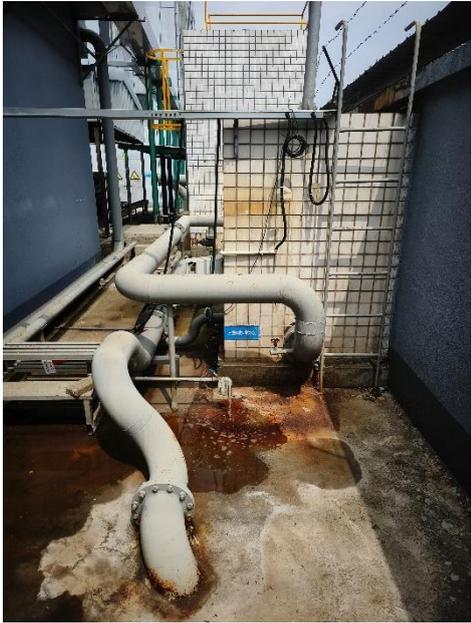
<b>UNTREATED WASTEWATER (DYEING)</b>
Date & Time of Measurement: 22/05/2025 ; 11:45 GPS Data: 30°35'58" N, 120°31'22" E
<b>SAMPLING LOCATION, CLOSE-UP VIEW</b>



**SAMPLING LOCATION, FAR VIEW**



EFFLUENT
<p>Date &amp; Time of Measurement: 22/05/2025 ; 10:15 GPS Data: 30°36'02" N, 120°31'25" E</p>
SAMPLING LOCATION, CLOSE-UP VIEW

SAMPLING LOCATION, FAR VIEW


SLUDGE
<p>Date &amp; Time of Measurement: 22/05/2025 ; 15:45 GPS Data: 30°35'52" N, 120°31'18" E</p>
SAMPLING LOCATION, CLOSE-UP VIEW

SAMPLING LOCATION, FAR VIEW




### Annex B: ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration

SHSL-88WA-02-010-10

**SGS**

**ZDHC 废水采样现场数据表和代表性样品声明**  
**ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration**

**ZDHC 废水采样信息 ZDHC Wastewater Sampling Information:**

工厂名称 Factory Name: 浙江嘉名涂装有限公司

工厂地址 Factory Address: 浙江省嘉兴市桐乡市凤鸣街道 工业园区

采样日期 Sampling Date: 2025.5.22

采样种类 Sampling Type:  Incoming Water  Untreated Wastewater  Effluent  Sludge

样品ID Sample ID: SL525-0B2-2025 (SLE25-0B2-2025) SLE25-0B2-1 SLE25-0B2-3

采样地点 Sampling Location: 清漆废水处理站; 漆雾回收水格; 调漆间; 排漆废样水管道; 工厂污泥堆积堆

GPS 坐标 GPS Data: 30°38'58"N 120°31'32"E 30°38'47"N 120°31'02"E 30°36'2"N 120°31'38"E 30°35'52"N 120°31'18"E

采样时间 Sampling Time: 9:50-16:10 9:20-15:30 15:30-15:40

**采样员信息 Sampler Information:**

采样员姓名 Sampler Name: 施昊宇

采样员邮箱 Sampler E-mail: Shy.hou@sgs.com

ZDHC 授权采样员证书号 ZDHC Sampler Accreditation Cert. No.: C74D106818116

**采样方法 Sampling Method:**

Incoming Water:  Grab  6-hour Composite  Others, please specify: \_\_\_\_\_  
 Autosampler  Manual

Untreated Wastewater:  Grab  6-hour Composite  Others, please specify: \_\_\_\_\_  
 Autosampler  Manual

Effluent:  Grab  6-hour Composite  Others, please specify: \_\_\_\_\_  
 Autosampler  Manual

Sludge:  Grab  6-hour Composite  Others, please specify: \_\_\_\_\_  
 Autosampler  Manual

**排放方式 Discharge Method:**

Direct  Indirect (w/pretreatment)  Indirect (w/o pretreatment)  Zero Liquid Discharge (ZLD)

**ZDHC 废水采样现场测试 QA/QC ZDHC Wastewater Sampling Field Testing QA/QC**

Parameter	LCS Known	LCS Measured	Accuracy %
pH	7.02	7.0	99.7
Total Chlorine	NA	NA	NA

**ZDHC 废水流量装置尺寸 ZDHC Wastewater Flow Device Dimensions**

Measurement (cm)	Meter	Pipe (Ø)	Flume (U)	Wtr (V)
Diameter	NA	NA	NA	NA
Depth	NA	NA	NA	NA

**ZDHC 废水采样现场测试记录 (见附表水(土)样采样记录)**  
ZDHC Wastewater Sample Collection Field Test Measurements (See attached data sheets of Water/Soil sampling records)

**ZDHC 废水采样工厂确认 ZDHC Wastewater Sampling - Facility Confirmation**

该样品是在工厂正常生产期间废水流量正常时收集的。The wastewater samples have been collected under the facility's normal production cycle and wastewater flow rate. 下列列出的采样员得到授权收集了样品。The sampler listed below was on-site and collected the sample.

工厂名称 Factory Name: 浙江嘉名涂装有限公司 采样员姓名 Sampler Name: 施昊宇

工厂代表姓名 Factory Representative Name: 施亚峰 ZDHC 授权采样员证书号 ZDHC Sampler Accreditation Cert. No.: C74D106818116

工厂代表签名和盖章 Factory Representative Signature and Stamp: 施亚峰 采样员签名 Sampler Signature: 施昊宇

日期 Date: 2025.5.22 日期 Date: 2025.5.22

Effective date: 2020.12.22



UNTREATED WASTEWATER



水质采样记录  
Water Sampling Records

SHSL-R-WI-CS-016-02

任务单号 Task Number: SL25-0132 采样日期 Sampling Date: 2025, 5, 22 委托单位 Client: ITX TRADING SA  
 天气状况 Weather Conditions: 晴 水体类型 Type of Water: 原废水 受检单位 Factory: 浙江喜多美有限公司  
 其他仪器设备 (名称、编号) Other instruments and equipment (name, number): PH计 TX-711  
 参考采样规范 Reference Sampling Specification:  ZDHC-SAP  Others:

样品编号 Sample Number	采样位置 Sampling Location	采样时间 Sampling Time (Hours)	温度 Temp (°C)		pH	溶解氧 Dissolved Oxygen (mg/L)	总氯 Total Chlorine (mg/L)	废水流量 Wastewater Flow Meter (L/min)	交替测量流量 Alternate Measured Flow		采样体积 Sample Volume (mL)	容器材质 Container Material	保存方式 Storage Method	可见颜色 Visible Colour	持久性泡沫 Persistent Foam (Yes/No)
			废水排放 Wastewater Discharge	接收水体 Receiving Water					深度 Depth (cm)	速度 Velocity (cm/s)					
SL25-0132-1	印花废水过	0 9:50-10:10	38.5		7.6						5990	P+G	1.2.3.4	蓝色	No
0132-2	未道格栅前	1 10:50-11:10	38.2		7.6									蓝色	No
	地下沟渠内采集	2 11:30-12:10	37.7		7.5							以下空白		蓝色	No
	十染废水过	3 12:50-13:10	36.5		7.6									深蓝色	No
	未道格栅	4 13:50-14:10	36.7		7.4									蓝色	No
	沟渠内采集	5 14:50-15:10	36.9		7.5									蓝色	No
	混合	6 15:50-16:10	36.3		7.0									蓝色	No
均值 Average			37.3		7.6									最终记录: 蓝色	

备注: 容器材质: P代表PE瓶, G代表玻璃瓶, VOA vial代表棕色玻璃瓶, ST.Steel代表不锈钢, G-TLC 代表盖子带有特氟龙内衬的棕色玻璃瓶; P(A) 代表酸洗过的塑料瓶; G(A) = Glass (Acid Washed) for pickled glass bottles. 照片拍摄时间 Time of Photo: 10:45 (印花原废水) 2025.5.22  
 11:45 (染色原废水)  
 其他现场信息: 记录单内PH、温度、颜色等数据均为混合取样后获得。  
 周边环境: 有无排污口, 是否死水区、回水区, 有无居民区、工业区, 有无居民区、工业区和农药化肥使用区等。  
 Surrounding environment: whether there is a sewage outlet, whether there is a stagnant water area, a backwater area, whether there is a residential area, an industrial area, whether there is a residential area, an industrial area and a pesticide and fertilizer use area, etc.  
 保存方式 Storage method: 1.标签完好 Unbroken label 2.冷藏 Refrigeration 3.避光 Protect from light 4.减振措施 Vibration reduction 5.其他 Others:

采样员 Sampler: 施景宇 客户确认 Client Confirmation: 施景宇  
 Effective date: 2023.12.26 2025.5.22



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**EFFLUENT**



水质采样记录

SHSL-R-WI-CS-016-02

Water Sampling Records

任务单号 Task Number: SLE25-0132 采样日期 Sampling Date: 2025.5.22 委托单位 Client: ITX TRADING SA  
 天气状况 Weather Conditions: 晴 水体类型 Type of Water: 排放废水 受检单位 Factory: 浙江嘉名染整有限公司  
 其他仪器设备 (名称、编号) Other instruments and equipment (name, number): PH计 TX-711  
 参考采样规范 Reference Sampling Specification:  ZHC-SAP  Others:

样品编号 Sample Number	采样位置 Sampling Location	采样时间 Sampling Time (Hours)	温度 Temp (°C)		pH	溶解氧 Dissolved Oxygen (mg/L)	总氯 Total Chlorine (mg/L)	废水流量 Wastewater Flow Meter (L/min)	交替测量流量 Alternate Measured Flow		采样体积 Sample Volume (mL)	容器材质 Container Material	保存方式 Storage Method	可见颜色 Visible Colour	持久性泡沫 Persistent Foam (Yes/No)
			废水排放 Wastewater Discharge	接收水体 Receiving Water					深度 Depth (cm)	速度 Velocity (cm/s)					
SLE25-0132-1	排放废水	9:20-9:30	30.7		7.4			27.8			330	P+G	1.2.3.4	淡黄色	No
	取水口水槽	10:20-10:30	31.5		7.4			生排放						淡黄色	No
	内采集	11:20-11:30	33.2		7.6			水量为			以下空白			淡黄色	No
		12:20-12:30	32.7		7.6			2.0吨						淡黄色	No
		13:20-13:30	33.9		7.4									淡黄色	No
		14:20-14:30	31.2		7.3									淡黄色	No
		15:20-15:30	29.7		7.2									淡黄色	No
均值 Average			31.8		7.4										

备注: 容器材质: P代表PE瓶, G代表玻璃瓶; VOA vial代表棕色玻璃瓶; ST.Steel代表不锈钢; G-TLC代表带有特氟龙内衬的棕色玻璃瓶; P(A)代表瓶洗过的塑料瓶; G(A)=Glass (Acid Washed)瓶洗过的玻璃瓶。  
 Container material: P for PE bottles, G for glass bottles, VOA vial for brown glass bottles, ST.Steel for stainless steel, G-TLC for brown glass bottles with Teflon lining lids, P(A) for pickled plastic bottles, G(A) = Glass (Acid Washed) for pickled glass bottles.  
 水质表观: 水体颜色、气味、有无悬浮物等。 Apparent water quality: water color, smell, presence or absence of floating objects, etc.  
 周边环境: 有无排污口, 是否死水区、回水区, 有无居民区、工业区, 有无居民区、工业区和农药化肥使用区等。  
 Surrounding environment: whether there is a sewage outlet, whether there is a stagnant water area, a backwater area, whether there is a residential area, an industrial area, whether there is a residential area, an industrial area and a pesticide and fertilizer use area, etc.  
 保存方式 Storage method: 1.标签完好 Unbroken label 2.冷藏 Refrigeration 3.避光 Protect from light 4.减振防震 Vibration reduction 5.其他 Others:  
 照片拍摄时间 Time of Photo: 10:15 2025.5.22  
 其他现场信息: 曝气池无异常存在浓度约为1-2cm的泡沫且正在向四周扩散

采样员 Sampler: 施秉宇

客户确认 Client Confirmation:

施秉宇  
2025.5.22

Effective date: 2023.12.26



SLUDGE



SHSL-R-WI-CS-016-03

土壤采样记录  
Soil Sampling Records

任务单号 Task Number: SL25-0132

采样日期 Sampling Date: 2025.5.22

委托单位 Client: ITK TRADING SA

天气状况 Weather Conditions: 晴

采样仪器 Sampling Instrument: \_\_\_\_\_

受检单位 Factory: 浙江嘉善染整有限公司

样品编号 Sample Number	采样位置 Sampling Location	采样时间 Sampling Time (Hours)	采样量 Sample Size	容器材质 Container Material	采样深度 Sampling Depth	样品描述 Sample Description	GPS	备注 Remark
SL25-0132-3	工厂污泥堆积 仓库内	15:30-15:40	180g	G	—	土黄色及外部黑 色内部土黄色	30°35'52"N 120°31'18"E	—
		以下空白				以下空白		

备注 Remarks: 容器材质: G代表玻璃瓶 Container Material: G stands for glass bottle  
照片拍摄时间 Time of Photo: 15:45 2025.5.22

样品现场密封 Samples are sealed in the field  
采样现场周围异味 Odor around the sampling site:  恶臭 foul odor  很臭 very smelly  臭 smelly  微臭 slightly smelly  其他 Others \_\_\_\_\_

采样员 Sampler: 施昊宇

客户确认 Client Confirmation: 杨亚峰  
2025.5.22

Effective date: 2023.12.26



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Softline Laboratory

**Annex C: Limit according to FACTORY DISCHARGE LICENCE BASED ON GB 4287-2012 Discharge standards**

1、废水污染物排放许可限值

(1) 主要排放口

排放口编号	排放口名称	污染物种类	许可排放浓度限值 (mg/L)
DW004	废水总排放口	苯胺类	1.0mg/L
DW004	废水总排放口	可吸附有机卤素	12mg/L
DW004	废水总排放口	悬浮物	100mg/L
DW004	废水总排放口	总镉	0.1mg/L
DW004	废水总排放口	色度	80
DW004	废水总排放口	硫化物	0.5mg/L
DW004	废水总排放口	二氧化氯	0.5mg/L
DW004	废水总排放口	pH值	6-9
DW004	废水总排放口	总磷 (以P计)	1.5mg/L
DW004	废水总排放口	氨氮 (NH3-N)	20mg/L
DW004	废水总排放口	化学需氧量	200mg/L
DW004	废水总排放口	五日生化需氧量	50mg/L
DW004	废水总排放口	总氮 (以N计)	30mg/L
DW004	废水总排放口	流量	/

\*\*\*\*END OF REPORT\*\*\*\*



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