

Date of sampling	07/08/2025
Reporting date	13/08/2025

Audit ID	29791	Audit firm	SGS Shanghai
Company name	ZHEJIANG ALICE DYEING AND FINISHING CO., LTD.		
Contact person	Weijiang Pan		
Type of tax – tax ID no	9133062174412820X2		
Address	Beiba Road, Binhai Industrial Zone, Keqiao District, Shaoxing City, Zhejiang Province		
Region state province	Zhejiang		
Town city / village	Shaoxing		
Zip / Post code	312073		

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: Shaoxing Keqiao Riverside Water Treatment Co., Ltd. Address: Intersection of Xingbin Road and North 11th Road in Binhai Industrial Zone, Ma'an Street, Keqiao District
[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 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 checked="" 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 type="checkbox"/> Sequencing batch reactor (SBR) <input type="checkbox"/> Other (please specify):



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TERTIARY	<input 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	-	Purple, composite sample at 9:30, 10:30, 11:30, 12:30, 13:30, 14:30, 15:30	pH: 6.6 Temperature: 47.8 °C
(2) Effluent	-	Light pink, composite sample at 9:10, 10:10, 11:10, 12:10, 13:10, 14:10, 15:10	pH: 7.0 Temperature: 33.9 °C
(3) Sludge	Black, grab sample at 14:50	-	-
(4) Leachate	YES	-	-



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Internal description – Final Test Report	
Testing laboratory	SGS Shanghai
Internal codification number (report number)	SL52515338448401TX
Reference sample number (sample ID)	-
Received on	08/08/2025
Analysis carried out from	08/08/2025 to 13/08/2025
Arrival temperature at lab	7.7 °C
Comments	1. Samples received within 24 hours.

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	No

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	8000 *	m ³ /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



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	Unit
			Untreated wastewater	
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	Unit
			Untreated wastewater	
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
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-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (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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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

20. 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

21. 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	-	5.1	s.u.
Faecal Coliform	-	NA	NA	NA	NA	NA	<1000	<1000	Textiles and Leather: 1000	NA	MPN/g
% Solids	-	Sample and Report Only	-	28.0	%						
Paint Filter Test	-	NA	NA	NA	Pass	Pass	Pass	Pass	-	Pass	-

22. 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



23. 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	393	mg/kg
Arsenic (As)	-	10	41	Textiles: 5 Leather: 2	ND	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	71	mg/kg
Lead (Pb)	-	10	400	Textiles: 5 Leather: 2	6	mg/kg
Nickel (Ni)	-	70	420	Textiles: 20	ND	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	605	mg/kg
Total Chromium (Cr)	-	100	1200	Textiles: 50	ND	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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24. 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

25. 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



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26. 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

27. 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	0.97	mg/L
Arsenic (As)	-	NA	NA	NA	2.75	0.5	0.5	0.5	0.005	-	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	-	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

UNTREATED WASTEWATER
Date & Time of Measurement: 07/08/2025; 9:45 GPS Data: 30°13'40" N, 120°41'30" E
SAMPLING LOCATION, CLOSE-UP VIEW

SAMPLING LOCATION, FAR VIEW


EFFLUENT
Date & Time of Measurement: 07/08/2025; 10:25 GPS Data: 30°13'40" N, 120°41'34" E
SAMPLING LOCATION, CLOSE-UP VIEW

SAMPLING LOCATION, FAR VIEW




SLUDGE

Date & Time of Measurement: 07/08/2025; 14:45

GPS Data: 30°13'39" N, 120°41'29" E

SAMPLING LOCATION, CLOSE-UP VIEW



SAMPLING LOCATION, FAR VIEW



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



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: 浙江爱利斯染整有限公司

工厂地址 Factory Address: 浙江省绍兴市柯桥区滨海工业区北八路

采样日期 Sampling Date: 2025.8.7

<input type="checkbox"/> Incoming Water	<input checked="" type="checkbox"/> Untreated Wastewater	<input type="checkbox"/> Effluent	<input checked="" type="checkbox"/> Sludge
样品ID Sample ID:	<u>SL625-0203-2</u>	<u>SL625-0203-1</u>	<u>SL625-0203-3</u>
采样地点 Sampling Location:	<u>原废水池下侧集水池 排污水外排管道总排口 17号渣堆机旁处</u>		
GPS 数据 GPS Data:	<u>30°13'40"N 120°41'30"E</u>	<u>30°13'40"N 120°41'34"E</u>	<u>30°13'39"N 120°41'37"E</u>
采样时间 Sampling Time:	<u>9:30-11:40</u>	<u>9:10-11:20</u>	<u>14:50-15:00</u>

采样员信息 Sampler Information:

采样员姓名 Sampler Name: 梅昱宇

采样员邮箱 Sampler E-mail: shiyu.shi@sgs.com

ZDHC 授权采样员证书号 ZDHC Sampler Accreditation Cert. No.: C14D106818116

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	<u>7.02</u>	<u>7.0</u>	<u>99.7</u>
Total Chlorine	<u>NA</u>	<u>NA</u>	<u>NA</u>

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

Measurement (mm)	Meter	Pipe (C)	Flange (U)	Wier (V)
Diameter	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
Depth	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>

ZDHC 废水采样现场测试记录 (见附流水池采样记录)

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

废水样本是在工厂正常生产规模和速率下采集的。The wastewater samples have been collected under the facility's normal production scale and wastewater flow rate. 下列列出的采样员是在现场采集了样本。The sampler listed below was on-site and collected the samples.

工厂名称 Factory Name: 浙江爱利斯染整有限公司 采样员姓名 Sampler Name: 梅昱宇

工厂代表姓名 Factory Representative Name: [Signature] ZDHC 授权采样员证书号 ZDHC Sampler Accreditation Cert. No.: C14D106818116

工厂代表签名和盖章 Factory Representative Signature and Stamp: [Signature] 采样员签名 Sampler Signature: 梅昱宇

日期 Date: 2025.8.7 日期 Date: 2025.8.7

Effective date: 2023.12.22



UNTREATED WASTEWATER



水质采样记录
Water Sampling Records

SHSL-R-WI-CS-016-02

任务单号Task Number: SL525-003 采样日期Sampling Date: 2025, 8, 7 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: 浙江爱利斯涂装有限公司
 其他仪器设备(名称、编号) Other instruments and equipment (name, number): PH计 JX-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)					
SL525-003-1	原废水池	0 9:30-9:40	46.5		6.5						590	PPG	1,2,3,4	紫色透明	No
	下收集池	1 10:30-10:40	45.8		6.6									紫色透明	No
		2 11:30-11:40	47.2		6.7									紫色透明	No
		3 12:30-12:40	48.5		6.4								以下空白	紫色透明	No
		4 13:30-13:40	49.3		6.5									紫色透明	No
		5 14:30-14:40	48.7		6.7									紫色透明	No
		6 15:30-15:40	48.9		6.6									紫色透明	No
均值 Average			47.8		6.6										

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 代表瓶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 照片拍摄时间Time of Photo: 9:16 2025.8.7
 Remark (Acid Washed)酸洗过的玻璃瓶.
 周边环境: 有无排污口, 是否废水池、回水池, 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: 施昊宇 客户确认Client Confirmation: [Signature]
 Effective date: 2023.12.26



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EFFLUENT



水质采样记录
Water Sampling Records

SHSL-R-WI-CS-016-02

任务单号 Task Number: SL525-0203 采样日期 Sampling Date: 2025/8/7 委托单位 Client: LTX 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: 浙江爱利斯涂装有限公司
 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: DHC-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)						
SL525-0203	排放废水 外排管道 龙头内	0 9:00-9:20 1 10:00-10:20 2 11:00-11:20 3 12:00-12:20 4 13:00-13:20 5 14:00-14:20 6 15:00-15:20	33.4 30.7 31.5 34.5 36.2 36.0 35.1		7.0 7.1 7.0 7.1 7.0 7.0 7.0			1.1日均 产生排放 废水量 约为8000吨			330	P+G	1,2,3,4	淡粉色 淡粉色 淡粉色 淡粉色 淡粉色 淡粉色 淡粉色	No No No No No No No	
均值 Average			33.9		7.0											

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代表用于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)酸洗过的玻璃瓶.
 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、有无漂浮物等. Apparent water quality: water color, smell, presence or absence of floating objects, etc.
 周边环境: 有无排污口, 是否积水区, 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:
 照片拍摄时间 Time of Photo: 10:25 2025-8-7
 其他现场信息: 曝气池无异常, 有存水, 均为2-3cm的淤泥且正新池清理

采样员 Sampler: 施曼宇 客户确认 Client Confirmation: [Signature]
 Effective date: 2023.12.26



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SLUDGE



SHSL-R-WI-CS-016-03

土壤采样记录
Soil Sampling Records

任务单号 Task Number: SL525-2023

采样日期 Sampling Date: 2025.8.7

委托单位 Client: ITX TRADING SA

天气状况 Weather Conditions: 晴

采样仪器 Sampling Instrument: _____

受检单位 Factory: 浙江爱利斯染整有限公司

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
SL525-2023-3	环氧泥堆积 仓库内	14:50-15:00	1800g	G	—	黑色	30°13'39"N 120°41'29"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: <u>14:45</u> <u>2025.8.7</u>	
<input type="checkbox"/> 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: <input type="checkbox"/> 恶臭 foul odor <input type="checkbox"/> 很臭 very smelly <input type="checkbox"/> 臭 smelly <input checked="" type="checkbox"/> 微臭 slightly smelly <input type="checkbox"/> 其他 Others _____ :								

采样员 Sampler: 施昊宇

客户确认 Client Confirmation: [Signature]

Effective date: 2023.12.26



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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)
DW001	污水排放口	色度	80
DW001	污水排放口	总磷 (以P计)	1.5mg/L
DW001	污水排放口	悬浮物	100
DW001	污水排放口	总氮 (以N计)	30mg/L
DW001	污水排放口	五日生化需氧量	150mg/L
DW001	污水排放口	可吸附有机卤化物	12mg/L
DW001	污水排放口	氨氮 (NH3-N)	20mg/L
DW001	污水排放口	硫化物	0.5mg/L
DW001	污水排放口	总镉	0.1mg/L
DW001	污水排放口	化学需氧量	500mg/L
DW001	污水排放口	苯胺类	1.0mg/L
DW001	污水排放口	pH值	6-9
DW001	污水排放口	二氧化氯	0.5mg/L

****END OF REPORT****

