

Date of sampling	05/09/2024
Reporting date	11/09/2024

Audit ID	180165	Audit firm	SGS Shanghai
Company name	SUZHOU NANHUA TEXTILE REORGANIZATION TECHNICAL CO., LTD.		
Contact person	Ruiyuan Chen		
Type of tax – tax ID no	91320509796141035E		
Address	No. 369 Luonan Road, Yanmu Village, Tongluo, Taoyuan Town, Wujiang District, Suzhou City		
Region state province	Jiangsu		
Town city / village	Suzhou		
Zip / Post code	215237		

Type of wastewater discharge	
Type of wastewater discharge	Indirect Discharge
Description of the discharge	Discharge to Centralized Waste Water Treatment Plant: Wujiang Ke'ou Sewage Treatment Co., Ltd. Address: Yanmu Village, Taoyuan Town, Wujiang District, Suzhou City, Jiangsu Province
[If direct discharge] Temperature of receiving water body:	Not applicable

Type of sludge disposal pathway	
Type of sludge disposal pathway	Pathway A

Type of treatment*	
PRELIMINARY	<input type="checkbox"/> Screening/Sieving/Grit remover (< 6 mm) <input checked="" type="checkbox"/> Screening/Sieving/Grit remover (≥ 6 mm) <input type="checkbox"/> Homogenization tank <input type="checkbox"/> pH Correction <input type="checkbox"/> Other (please specify):
PRIMARY	<input type="checkbox"/> Coagulation/Flocculation <input checked="" type="checkbox"/> Dissolved air flotation (DAF) <input 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 checked="" type="checkbox"/> Other (please specify): MBR membrane, RO reverse osmosis membrane
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*The information has been provided by the factory.

Sampler accreditation certification number (ZDHC):		C74D106818054	
Sampling affiliate		SGS Shanghai	
Sample description			
	Simple	Composite	Comments
(1) Untreated wastewater	-	Purple, composite sample at 9:20, 10:20, 11:20, 12:20, 13:20, 14:20, 15:20	pH: 7.9 Temperature: 39.2 °C
(2) Effluent	-	Pale yellowish, composite sample at 9:10, 10:10, 11:10, 12:10, 13:10, 14:10, 15:10	pH: 7.1 Temperature: 38.7 °C
(3) Sludge	Black/gray, grab sample at 13:30	-	-
(4) Leachate	YES	-	-



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Internal description – Final Test Report	
Testing laboratory	SGS Shanghai
Internal codification number (report number)	SL52425330114901TX
Reference sample number (sample ID)	-
Received on	06/09/2024
Analysis carried out from	06/09/2024 to 11/09/2024
Arrival temperature at lab	7.0 °C
Comments	1. Samples received within 24 hours.
Reporting date	11/09/2024

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	Sample and report only
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	ND	-	Sample and report only	-
Anti- Microbials & Biocides	ND	-	-	-
Chlorinated Parafins	ND	-	-	-
Chlorobenzenes & Chlorotoluenes	ND	-	Sample and report only	-
Chlorophenols	ND	-	-	-
N,N-di-methylformamide (DMFa)	ND	-	-	-
Dyes – Carcinogenic or Equivalent Concern	ND	-	-	-
Dyes – Disperse (Allergenic)	ND	-	-	-
Dyes – Navy Blue Colourant	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	-	Sample and report only	-
Restricted Aromatic Amines (Cleavable from Azo-colourants)	ND	-	-	-
UV Absorbers	ND	-	-	-
VOCs	ND	-	-	-

Sludge disposal pathway	
Comply sludge disposal pathway	NA

Remark (indicated in each parameter)



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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	2000 *	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)	Various	Textile and Leather: 0.05	Textile and Leather: 0.01	Textile and Leather: 0.005	0.005	ND	mg/L
Cadmium (Cd)	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.01	0.01	ND	mg/L
Mercury (Hg)	Various	Textile and Leather: 0.01	Textile and Leather: 0.005	Textile and Leather: 0.001	0.001	ND	mg/L
Lead (Pb)	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.01	0.01	ND	mg/L
Chromium VI (Cr VI)	Various	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 (Textile and Leather)	Result	Unit
			Untreated wastewater	
Octylphenol (OP)	140-66-9/ 1806-26-4/ 27193-28-8	5	ND	µg/L
Nonylphenol (NP)	104-40-5/ 11066-49-2/ 25154-52-3/84852-15-3	5	ND	µg/L
Octylphenoethoxylates (OPEOs)	9002-93-1/9036-19-5/68987-90-6	5	ND	µg/L
Nonylphenoethoxylates (NPEOs)	9016-45-9/26027-38-3/ 37205-87-1/68412-54-4/127087-87-0	5	ND	µg/L



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4. Anti- Microbials & 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	Textile: 100	ND	µg/L
Triclosan	3380-34-5	Textile and Leather: 100	ND	µg/L
Permethrin	Various	Textile 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
Short chain chlorinated paraffins (C10-C13)	85535-84-8	Textile and Leather: 25	ND	µg/L
Medium-chain Chlorinated Paraffins (MCCPs) (C14-C17)	85535-85-9	Textile and Leather: 500	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 items	CAS no.	Reporting Limit (Textile and Leather)	Result	
			Untreated wastewater	Unit
Monochlorobenzenes	108-90-7	0.2	ND	µg/L
1,2-Dichlorobenzene	95-50-1	0.2	ND	µg/L
1,3-Dichlorobenzene	541-73-1	0.2	ND	µg/L
1,4-Dichlorobenzene	106-46-7	0.2	ND	µg/L
1,2,3-Trichlorobenzene	87-61-6	0.2	ND	µg/L
1,2,4-Trichlorobenzene	120-82-1	0.2	ND	µg/L
1,3,5-Trichlorobenzene	108-70-3	0.2	ND	µg/L
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	ND	µg/L
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2	ND	µg/L
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	ND	µg/L
Pentachlorobenzene	608-93-5	0.2	ND	µg/L
Hexachlorobenzene	118-74-1	0.2	ND	µg/L
2-Chlorotoluene	95-49-8	0.2	ND	µg/L
3-Chlorotoluene	108-41-8	0.2	ND	µg/L
4-Chlorotoluene	106-43-4	0.2	ND	µg/L
2,3-Dichlorotoluene	32768-54-0	0.2	ND	µg/L
2,4-Dichlorotoluene	95-73-8	0.2	ND	µg/L
2,5-Dichlorotoluene	19398-61-9	0.2	ND	µg/L
2,6-Dichlorotoluene	118-69-4	0.2	ND	µg/L
3,4-Dichlorotoluene	95-75-0	0.2	ND	µg/L
3,5-Dichlorotoluene	25186-47-4	0.2	ND	µg/L
2,3,4-Trichlorotoluene	7359-72-0	0.2	ND	µg/L
2,3,6-Trichlorotoluene	2077-46-5	0.2	ND	µg/L
2,4,5-Trichlorotoluene	6639-30-1	0.2	ND	µg/L
2,4,6-Trichlorotoluene	23749-65-7	0.2	ND	µg/L
3,4,5-Trichlorotoluene	21472-86-6	0.2	ND	µg/L



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2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	ND	µg/L
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	ND	µg/L
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	ND	µg/L
Pentachlorotoluene	877-11-2	0.2	ND	µg/L

7. Chlorophenols

With reference to BS EN 12673:1999

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result	
			Untreated wastewater	Unit
2-Chlorophenol	95-57-8	0.5	ND	µg/L
3-Chlorophenol	108-43-0	0.5	ND	µg/L
4-Chlorophenol	106-48-9	0.5	ND	µg/L
2,3-Dichlorophenol	576-24-9	0.5	ND	µg/L
2,4-Dichlorophenol	120-83-2	0.5	ND	µg/L
2,5-Dichlorophenol	583-78-8	0.5	ND	µg/L
2,6-Dichlorophenol	87-65-0	0.5	ND	µg/L
3,4-Dichlorophenol	95-77-2	0.5	ND	µg/L
3,5-Dichlorophenol	591-35-5	0.5	ND	µg/L
2,3,4-Trichlorophenol	15950-66-0	0.5	ND	µg/L
2,3,5-Trichlorophenol	933-78-8	0.5	ND	µg/L
2,3,6-Trichlorophenol	933-75-5	0.5	ND	µg/L
2,4,5-Trichlorophenol	95-95-4	0.5	ND	µg/L
2,4,6-Trichlorophenol	88-06-2	0.5	ND	µg/L
3,4,5-Trichlorophenol	609-19-8	0.5	ND	µg/L
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	ND	µg/L
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	ND	µg/L
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	ND	µg/L
Pentachlorophenol PCP	87-86-5	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 (Textile)	Result	Unit
			Untreated wastewater	
N,N-di-methylformamide (DMFa)	68-12-2	1000 (Sample and Report only for mock leather)	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 (Textile and Leather)	Result	Unit
			Untreated wastewater	
C.I. Direct Black 38	1937-37-7	500	ND	µg/L
C.I. Direct Blue 6	2602-46-2	500	ND	µg/L
C.I. Acid Red 26	3761-53-3	500	ND	µg/L
C.I. Basic Red 9	569-61-9	500	ND	µg/L
C.I. Direct Red 28	573-58-0	500	ND	µg/L
C.I. Basic Violet 14	632-99-5	500	ND	µg/L
C.I. Disperse Blue 1	2475-45-8	Textile: 500	ND	µg/L
C.I. Disperse Blue 3	2475-46-9	Textile: 500	ND	µg/L
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	500	ND	µg/L
C.I. Basic Green 4 (malachite green chloride)	569-64-2	500	ND	µg/L
C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	500	ND	µg/L
C.I. Basic Green 4 (malachite green)	10309-95-2	500	ND	µg/L
Disperse Orange 11	82-28-0	Textile: 500	ND	µg/L
Basic violet 3 with >0.1% of Michler's Ketone*	548-62-9	500	ND	µg/L
C.I. Acid Violet 49	1694-09-3	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 (Textile)	Result	
			Untreated wastewater	Unit
Disperse Yellow 1	119-15-3	50	ND	µg/L
Disperse Blue 102	12222-97-8	50	ND	µg/L
Disperse Blue 106	12223-01-7	50	ND	µg/L
Disperse Yellow 39	12236-29-2	50	ND	µg/L
Disperse Orange 37/59/76	13301-61-6	50	ND	µg/L
Disperse Brown 1	23355-64-8	50	ND	µg/L
Disperse Orange 1	2581-69-3	50	ND	µg/L
Disperse Yellow 3	2832-40-8	50	ND	µg/L
Disperse Red 11	2872-48-2	50	ND	µg/L
Disperse Red 1	2872-52-8	50	ND	µg/L
Disperse Red 17	3179-89-3	50	ND	µg/L
Disperse Blue 7	3179-90-6	50	ND	µg/L
Disperse Blue 26	3860-63-7	50	ND	µg/L
Disperse Yellow 49	54824-37-2	50	ND	µg/L
Disperse Blue 35	12222-75-2	50	ND	µg/L
Disperse Blue 124	61951-51-7	50	ND	µg/L
Disperse Yellow 9	6373-73-5	50	ND	µg/L
Disperse Orange 3	730-40-5	50	ND	µg/L
Disperse Blue 35	56524-77-7	50	ND	µg/L



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11. Dyes - Navy Blue Colourant

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

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	
			Untreated wastewater	Unit
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	500	ND	µg/L
Component 2: C46H-30CrN10O20S2 3Na	Not Allocated	500	ND	µg/L

12. 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
Decabromodiphenyl ether (DecaBDE)	1163-19-5	Textile: 25 Leather: 5	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	Textile: 25 Leather: 5	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	Textile: 25 Leather: 5	ND	µg/L
Tris(1-aziridinylphosphine oxide) (TEPA)	545-55-1	Textile: 25 Leather: 5	ND	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	Textile: 25 Leather: 5	ND	µg/L
Tris(2,3-dibromopropyl phosphate) (TRIS)	126-72-7	Textile: 25 Leather: 5	ND	µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	Textile: 25 Leather: 5	ND	µg/L
Bis(2,3-dibromopropyl) phosphate	5412-25-9	Textile: 25 Leather: 5	ND	µg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	Textile: 25 Leather: 5	ND	µg/L
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	Textile: 25 Leather: 5	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	Textile: 25 Leather: 5	ND	µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	Textile: 25	ND	µg/L
Dibromobiphenyls (DiBB)	Multiple	Textile: 25	ND	µg/L



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Octabromobiphenyls (OctaBB)	Multiple	Textile: 25	ND	µg/L
Dibromopropylether	21850-44-2	Textile: 25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	Textile: 25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	Textile: 25	ND	µg/L
Monobromobiphenyls (MonoBB)	Multiple	Textile: 25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Multiple	Textile: 25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Multiple	Textile: 25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	Textile: 25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	Textile: 25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Multiple	Textile: 25	ND	µg/L
Boric acid	10043-35-3 11113-50-1	Textile: 100*	ND (ND) **	µg/L
Diboron trioxide	1303-86-2	Textile: 100*	ND (ND) **	µg/L
Disodium octaborate	12008-41-2	Textile: 100*	ND (ND) **	µg/L
Disodium tetraborate anhydrous	1303-96-4 1330-43-4	Textile: 100*	ND (ND) **	µg/L
Tetraboron disodium heptaoxide, hydrate	12267-73-1	Textile: 100*	ND (ND) **	µg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	Textile: 25 Leather: 5	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	Textile: 25 Leather: 5	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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13. 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 (Textile and Leather)	Result	Unit
			Untreated wastewater	
Bis(2-methoxyethyl)-ether	111-96-6	50	ND	µg/L
2-ethoxyethanol	110-80-5	50	ND	µg/L
2-ethoxyethyl acetate	111-15-9	50	ND	µg/L
Ethylene glycol dimethyl ether	110-71-4	50	ND	µg/L
2-methoxyethanol	109-86-4	50	ND	µg/L
2-methoxyethylacetate	110-49-6	50	ND	µg/L
2-methoxypropylacetate	70657-70-4	50	ND	µg/L
Triethylene glycol dimethyl ether	112-49-2	50	ND	µg/L

14. Halogenated solvents

With reference to US EPA 8260D: 2018

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



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15. Organotin compounds

With reference to DIN EN ISO17353:2005 (E)

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
Tricyclohexyltin (TCyHT)	Various	0.01	ND(<0.10µg/L) ¹	µg/L
Tripropyltin (TPT)	Various	0.01	ND(<0.10µg/L) ¹	µg/L
Dipropyltin compounds (DPT)	Various	0.01	ND(<0.10µg/L) ¹	µg/L
Tetrabutyltin compounds (TeBT)	Various	0.01	ND(<0.10µg/L) ¹	µg/L
Tetraoctyltin compounds (TeOT)	Various	0.01	ND(<0.10µg/L) ¹	µg/L
Tetraethyltin Compounds (TeET)	Various	0.01	ND(<0.10µg/L) ¹	µg/L
Mono-, di- and tri-octyltin derivatives	Various	0.01	ND(<0.10µg/L) ¹	µg/L
Monooctyltin (MOT)	15231-57-9	0.01	ND(<0.10µg/L) ¹	µg/L
Diocetyl tin (DOT)	94410-05-6, 12531-44-4	0.01	ND(<0.10µg/L) ¹	µg/L
Triocetyl tin (TOT)	Various	0.01	ND(<0.10µg/L) ¹	µg/L
Mono-, di- and tri-methyltin derivatives	Various	0.01	ND(<0.10µg/L) ¹	µg/L
Monomethyltin (MMT)	Various	0.01	ND(<0.10µg/L) ¹	µg/L
Dimethyltin (DMT)	Various	0.01	ND(<0.10µg/L) ¹	µg/L
Trimethyltin (TMT)	Various	0.01	ND(<0.10µg/L) ¹	µg/L
Mono-, di- and tri-butyltin derivatives	Various	0.01	ND(<0.10µg/L) ¹	µg/L
Monobutyltin (MBT)	1118-46-3, 78763-54-9	0.01	ND(<0.10µg/L) ¹	µg/L
Dibutyltin (DBT)	1002-53-5	0.01	ND(<0.10µg/L) ¹	µg/L
Tributyltin (TBT)	56573-85-4	0.01	ND(<0.10µg/L) ¹	µg/L
Mono-, di- and tri-phenyltin derivatives	Various	0.01	ND(<0.10µg/L) ¹	µg/L
Monophenyltin (MPHT)	Various	0.01	ND(<0.10µg/L) ¹	µg/L
Diphenyltin (DPHT)	Various	0.01	ND(<0.10µg/L) ¹	µg/L
Triphenyltin (TPHT)	892-20-6, 668-34-8	0.01	ND(<0.10µg/L) ¹	µg/L



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16. 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 (Textile)	Result	Unit
			Untreated wastewater	
AEEA [2-(2-aminoethylamino) ethanol]	111-41-1	500	ND	µg/L
Bisphenol A	80-05-7	10	ND	µg/L
Thiourea	62-56-6	50	ND	µg/L
Quinoline	91-22-5	50	ND	µg/L
Borate, zinc salt	12767-90-7	100*	B: ND (ND) ** Zn: ND (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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17. 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 (Textile and Leather)	Result	Unit
			Untreated wastewater	
Perfluoro-octane-sulfonic acid (PFOS)*	1763-23-1	0.01	ND	µg/L
Perfluoro-octanoic acid (PFOA)**	335-67-1	0.01	ND	µg/L
Perfluoro-octane-sulfon-amide (PFOSA)	754-91-6	0.01	ND	µg/L
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	1	ND	µg/L
1H,1H,2H,2H-Perfluorodecanol (8:2 FTOH)	678-39-7	1	ND	µg/L
N-Methyl-perfluoro-octane-sulfon-amido-ethanol (N-Me-FOSE)	24448-09-7	0.01	ND	µg/L
N-Ethyl-Perfluoro-octane-sulfon-amido-ethanol (N-Et-FOSE)	1691-99-2	0.01	ND	µg/L
N-Methyl-perfluoro-octane-sulfon-amide (N-Me-FOSA)	31506-32-8	0.01	ND	µg/L
N-Ethyl-perfluoro-octane-sulfon-amide (N-Et-FOSA)	4151-50-2	0.01	ND	µg/L
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	1	ND	µg/L
Methyl Perfluorooctanoate (Me-PFOA)	376-27-2	1	ND	µg/L
Ethyl Perfluorooctanoate (Et-PFOA)	3108-24-5	1	ND	µg/L
8:2 Fluorotelomer methacrylate (8:2 FTMA)	1996-88-9	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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18. 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 (Textile and Leather)	Result	Unit
			Untreated wastewater	
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	10	ND	µg/L
Dimethoxyethyl phthalate (DMEP)	117-82-8	10	ND	µg/L
Di-n-octyl phthalate (DNOP)	117-84-0	10	ND	µg/L
Di-iso-decyl phthalate (DIDP)	26761-40-0	10	ND	µg/L
Di-iso-nonyl phthalate (DINP)	28553-12-0	10	ND	µg/L
Di-n-hexyl phthalate (DnHP)	84-75-3	10	ND	µg/L
Dibutyl phthalate (DBP)	84-74-2	10	ND	µg/L
Butyl benzyl phthalate (BBP)	85-68-7	10	ND	µg/L
Dinonyl phthalate (DNP)	84-76-4	10	ND	µg/L
Diethyl phthalate (DEP)	84-66-2	10	ND	µg/L
Di-n-propyl phthalate (DPRP)	131-16-8	10	ND	µg/L
Di-iso-butyl phthalate (DIBP)	84-69-5	10	ND	µg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	ND	µg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C7-11- branched and linearalkyl esters (DHNUP)	68515-42-4, 68515-50-4	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C6-8 branched and linearalkyl esters , C7-rich (DIHP)	71888-89-6, 84777-06-0	10	ND	µg/L
Di-n-pentylphthalates	131-18-0	10	ND	µg/L
Diisopentylphthalates	605-50-5	10	ND	µg/L



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19. Polycyclic aromatic hydrocarbons (PAHs)

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

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



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20. 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 (Textile and Leather)	Result	Unit
			Untreated wastewater	
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1	ND	µg/L
4,4'-Diaminodiphenylmethane	101-77-9	0.1	ND	µg/L
4,4'-Oxydianiline	101-80-4	0.1	ND	µg/L
4-Chloroaniline	106-47-8	0.1	ND	µg/L
3,3'-Dimethoxybenzidine	119-90-4	0.1	ND	µg/L
3,3'-Dimethylbenzidine	119-93-7	0.1	ND	µg/L
p-Cresidine	120-71-8	0.1	ND	µg/L
2,4,5-Trimethylaniline	137-17-7	0.1	ND	µg/L
4,4'-Thiodianiline	139-65-1	0.1	ND	µg/L
4-Aminoazobenzene	60-09-3	0.1	ND	µg/L
2,4-Diaminoanisole	615-05-4	0.1	ND	µg/L
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	0.1	ND	µg/L
2,6-Xylidine	87-62-7	0.1	ND	µg/L
o-Anisidine	90-04-0	0.1	ND	µg/L
2-Naphthylamine	91-59-8	0.1	ND	µg/L
3,3'-Dichlorobenzidine	91-94-1	0.1	ND	µg/L
4-Aminobiphenyl	92-67-1	0.1	ND	µg/L
Benzidine	92-87-5	0.1	ND	µg/L
o-Toluidine	95-53-4	0.1	ND	µg/L
2,4-Xylidine	95-68-1	0.1	ND	µg/L
4-Chloro-o-toluidine	95-69-2	0.1	ND	µg/L
2,4-Diaminotoluene	95-80-7	0.1	ND	µg/L
o-Aminoazotoluene	97-56-3	0.1	ND	µg/L
5-Nitro-o-toluidine	99-55-8	0.1	ND	µg/L
2-Naphthylammoniumacetate	553-00-4	0.1	ND	µg/L
2,4,5-trimethylaniline hydrochloride	21436-97-5	0.1	ND	µg/L
4-chloro-o-toluidinium chloride	3165-93-3	0.1	ND	µg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	0.1	ND	µg/L



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21. UV Absorbers

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

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

22. 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	Textile and Leather: 1	ND	µg/L
Xylene	1330-20-7	Textile: 1	ND	µg/L
o-cresol	95-48-7	Textile and Leather: 1	ND	µg/L
p-cresol	106-44-5	Textile and Leather: 1	ND	µg/L
m-cresol	108-39-4	Textile and Leather: 1	ND	µg/L
Toluene	108-88-3	Textile: 1 (Sample and Report only for mock leather)	ND	µg/L

Remark

1) LOR values have been adjusted accordingly due to matrix interference.

ND = Not detected (< Reporting Limit)

NA = Not applicable

- = Not required to be tested



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SLUDGE

23. Sludge Parameters - Step 1 – Conventional

pH: HJ 962-2018

% Solids: HJ 613-2011

Paint Filter Test: US EPA 9095B:2004

Fecal 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	-	Sample and Report Only	Sample and Report Only	5-11	5-11	5-11	6.5-9	6.5-9	-	6.4	s.u.
% Solids	-	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	-	30.2	%
Paint Filter Test	-	Sample and Report Only	Sample and Report Only	Sample and Report Only	Pass	Pass	Pass	Sample and Report Only	-	Pass	-
Fecal Coliform	-	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	1000	1000	1000	ND	MPN/g

24. Sludge Parameters – Step 1 – Anions

With reference to HJ 745-2015

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	
Cyanide	-	Sample and Report Only	Sample and Report Only	100	85	70	70	70	20	ND	mg/kg



25. Sludge Parameters – Step 1 – Metals

Cr VI: US EPA 3060A:1996 & EPA 7196A:1996

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			
Arsenic (As)	Various	10	75	Textile: 5 Leather 2	52	mg/kg
Cadmium (Cd)	Various	3	85	Textile: 1 Leather 2	ND	mg/kg
Mercury (Hg)	Various	1	57	Textile: 1 Leather 0.2	2	mg/kg
Lead (Pb)	Various	10	840	Textile: 5 Leather 2	15	mg/kg
Antimony (Sb)	Various	12	Sample and Report Only	Textile: 5	26	mg/kg
Cobalt (Co)	Various	1600	Sample and Report Only	Textile: 400	ND	mg/kg
Nickel (Ni)	Various	70	420	Textile: 20	82	mg/kg
Silver (Ag)	Various	100	Sample and Report Only	Textile: 50	ND	mg/kg
Copper (Cu)	Various	200	4300	Textile: 50	116	mg/kg
Zinc (Zn)	Various	1000	7500	Textile: 400	ND	mg/kg
Total Chromium (Cr)	Various	100	3000	Textile: 50	271	mg/kg
Chromium VI (Cr VI)	Various	50	50	Textile: 20 Leather 2	ND	mg/kg
Barium (Ba)	Various	700	Sample and Report Only	Textile: 200	457	mg/kg
Selenium (Se)	Various	10	100	Textile: 5	ND	mg/kg

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



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26. 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 (Textile and Leather)	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
Octylphenol (OP)	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	0.4	ND	mg/kg
Nonylphenol (NP)	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	0.4	ND	mg/kg
Octylphenoethoxylates (OPEOs)	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	0.4	ND	mg/kg
Nonylphenoethoxylates (NPEOs)	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	0.4	ND	mg/kg

27. 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	
Benzo(a)pyrene (BaP)	50-32-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	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	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	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	0.2	ND	mg/kg



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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	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	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	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	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	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	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	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	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	0.2	ND	mg/kg
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	0.2	ND	mg/kg
Acenaphthene	83-32-9	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Phenanthrene	85-01-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	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	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	0.2	ND	mg/kg



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28. 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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.2	ND	mg/kg
2,3,4,5-Tetrachlorotoluene	76057-12-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,5,6-Tetrachlorotoluene	29733-70-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	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	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	0.2	ND	mg/kg



LEACHATE

29. 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 Items	CAS no.	Limit							Reporting Limit	Result	
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Leachate	Unit
Arsenic (As)	Various	Sample and Report Only	Sample and Report Only	5	2.75	0.5	0.5	0.5	0.005	ND	mg/L
Cadmium (Cd)	Various	Sample and Report Only	Sample and Report Only	1	0.58	0.15	0.15	0.15	0.01	-	mg/L
Mercury (Hg)	Various	Sample and Report Only	Sample and Report Only	0.2	0.125	0.05	0.05	0.05	0.001	ND	mg/L
Lead (Pb)	Various	Sample and Report Only	Sample and Report Only	5	2.75	0.5	0.5	0.5	0.01	ND	mg/L
Antimony (Sb)	Various	Sample and Report Only	Sample and Report Only	15	7.8	0.6	0.6	0.6	0.01	0.02	mg/L
Cobalt (Co)	Various	Sample and Report Only	Sample and Report Only	80	80	80	80	80	0.01	-	mg/L
Nickel (Ni)	Various	Sample and Report Only	Sample and Report Only	20	11.75	3.5	3.5	3.5	0.05	0.45	mg/L
Silver (Ag)	Various	Sample and Report Only	Sample and Report Only	5	5	5	5	5	0.005	-	mg/L
Copper (Cu)	Various	Sample and Report Only	Sample and Report Only	25	17.5	10	10	10	0.25	-	mg/L
Zinc (Zn)	Various	Sample and	Sample and	250	150	50	50	50	0.1	-	mg/L



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		Report Only	Report Only								
Total Chromium (Cr)	Various	Sample and Report Only	Sample and Report Only	15	10	5	5	5	0.05	ND	mg/L
Chromium VI (Cr VI)	Various	Sample and Report Only	Sample and Report Only	5	3.75	2.5	2.5	2.5	0.001	-	mg/L
Barium (Ba)	Various	Sample and Report Only	Sample and Report Only	100	67.5	35	35	35	35	-	mg/L
Selenium (Se)	Various	Sample and Report Only	Sample and Report Only	1	0.75	0.5	0.5	0.5	0.5	-	mg/L

Remark

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



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Annex A: Sampling photos & Sampling locations

UNTREATED WASTEWATER
Date & Time of Measurement: 05/09/2024 ;9:20 GPS Data: 30°50'26" N, 120°31'04" E
SAMPLING LOCATION, CLOSE-UP VIEW

SAMPLING LOCATION, FAR VIEW


EFFLUENT
Date & Time of Measurement: 05/09/2024 ;9:10 GPS Data: 30°50'25" N, 120°31'02" E
SAMPLING LOCATION, CLOSE-UP VIEW

SAMPLING LOCATION, FAR VIEW




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SLUDGE

Date & Time of Measurement: 05/09/2024 ;13:32

GPS Data: 30°50'24" N, 120°31'03" E

SAMPLING LOCATION, CLOSE-UP VIEW



SAMPLING LOCATION, FAR VIEW



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

SHSL-R/W/CS-016-16



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: 苏州南华纺织整理科技有限公司

工厂地址 Factory Address: 苏州市吴江区桃源镇南华纺织整理有限公司

采样日期 Sampling Date: 2024.9.11

采样种类 Sampling Type	<input type="checkbox"/> Incoming Water	<input checked="" type="checkbox"/> Untreated Wastewater	<input type="checkbox"/> Effluent	<input type="checkbox"/> Sludge
样品ID Sample ID:	<u>SL524-0290-2</u>	<u>SL524-0190-1</u>	<u>SL524-0190-1</u>	<u>SL524-0190-1</u>
采样地点 Sampling Location:	<u>集水池</u>	<u>污水站进水口</u>	<u>13#B池</u>	
GPS数据 GPS Data:	<u>30°50'24"N, 120°31'40"E</u>	<u>30°50'25"N, 120°31'2"E</u>	<u>30°50'24"N, 120°31'30"E</u>	
采样时间 Sampling Time:	<u>9:10-11:30</u>	<u>9:10-11:20</u>	<u>13:30-0:40</u>	

采样员信息 Sampler Information:

采样员姓名 Sampler Name: 张利超

采样员邮箱 Sampler E-mail: Dean-hang@sgs.com

ZDHC 授权采样员证书号 ZDHC Sampler Accreditation Cert. No.: C740106818014

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 (cm)	Meter	Pipe (O)	Flume (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 废水采样现场测试数据 (见附带的土壤采样记录表)

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废水流量下采集的。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品。The sampler listed below was on-site and collected the samples.

工厂名称 Factory Name: 苏州南华纺织整理科技有限公司

工厂代表姓名 Factory Representative Name: 张利超

工厂代表签名和盖章 Factory Representative Signature and Stamp: 张利超

采样员姓名 Sampler Name: 张利超

ZDHC 授权采样员证书号 ZDHC Sampler Accreditation Cert. No.: C740106818014

采样员签名 Sampler Signature: 张利超

日期 Date: 2024.9.11

日期 Date: 2024.9.11

Effective date: 2023.12.22



UNTREATED WASTEWATER



水质采样记录

SHSL-R-WI-CS-016-02

Water Sampling Records

任务单号Task Number: SL524-0190 采样日期Sampling Date: 2024, 9, 5 委托单位Client: ITX RAQZHU JA
 天气状况Weather Conditions: 31°C 晴 水体类型Type of Water: 废水 受检单位Factory: 苏州南孚电池整理科技有限公司
 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)					
1010101	集中口	0	9:20-9:30	38.6	7.8									紫色	No
		1	10:20-10:30	38.9	7.9									紫色	No
		2	11:20-11:30	38.7	8.1									紫色	No
		3	12:20-12:30	39.4	7.9						1990	PH	1,1,1,4	黑色	No
		4	13:20-13:30	39.5	7.8									紫色	No
		5	14:20-14:30	39.7	7.9									紫色	No
		6	15:20-15:30	39.3	8.0									紫色	No
均值 Average				39.2	7.9									紫色	No

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)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.
 水质表现: 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, 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: 2024.9.5 9:20
 其他现场信息: Additional on-site information: _____

采样员Sampler: 张利超 客户确认Client Confirmation: 张利超

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: SL524-0290 采样日期 Sampling Date: 2024/9/11 委托单位 Client: ITX RADON 5A
 天气状况 Weather Conditions: 31° 晴 水体类型 Type of Water: 排放废水 受检单位 Factory: 苏州南卓环境整理科技有限公司
 其他仪器设备 (名称、编号) Other instruments and equipment (name, number): PH2 f TX-771
 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)					
SL524-0290	排放口	0 9:10-9:20	35.6		6.9			平均流速						淡黄色	No
		1 10:10-10:20	35.5		7.2			300 L/min						淡黄色	No
		2 11:10-11:20	37.9		7.0									淡黄色	No
		3 12:10-12:20	39.2		7.3					330	PH	1.1.1.4		淡黄色	No
		4 13:10-13:20	39.3		6.9									淡黄色	No
		5 14:10-14:20	38.7		6.9									淡黄色	No
		6 15:10-15:20	35.9		7.3									淡黄色	No
均值 Average			38.7		7.1									淡黄色	No

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.
 水质表现: 水样颜色、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: 标签完好 Unbroken label 冷藏 Refrigeration 避光 Protect from light 减振措施 Vibration reduction 其他 Others: _____

照片拍摄时间 Time of Photo: 2024.9.11 9:10
 其他现场信息: 曝气池在右侧 1-3号池连接, 逐渐消解

采样员 Sampler: 张利超 客户确认 Client Confirmation: 张利超

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

****END OF REPORT****



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