

Date of sampling	29/07/2024
Reporting date	06/08/2024

Audit ID	177421	Audit firm	SGS Guangzhou
Company name	GUANGDONG GOLDEN HORIZON DYEING CO.,LTD.		
Contact person	Huang Fei		
Type of tax – tax ID no	91441322737573145R		
Address	No. 127 ChangShou Road, JiuTan, YuanZhou Town, Boluo, HuiZhou, GuangDong Province		
Region state province	GuangDong		
Town city / village	HuiZhou		
Zip / Post code	516100		

Type of wastewater discharge	
Type of wastewater discharge	Direct Discharge
Description of the discharge	Discharge to XINCUN Drainage Canal
[If direct discharge] Temperature of receiving water body:	33.2 °C

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 type="checkbox"/> Screening/Sieving/Grit remover (≥ 6 mm) <input checked="" type="checkbox"/> Homogenization tank <input 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):



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Guangzhou Branch, Testing Services & Calibration Laboratory

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SECONDARY/BIOLOGICAL	<input checked="" type="checkbox"/> Activated sludge process. Aerobic reactor <input type="checkbox"/> Biological Biofilm reactor (MBBR, SAF, RBC..) <input checked="" type="checkbox"/> Sequencing batch reactor (SBR) <input type="checkbox"/> Other (please specify):
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):

*The information has been provided by the factory.

Sampler accreditation certification number (ZDHC):		C74D106818107	
Sampling affiliate		SGS Guangzhou	
Sample description			
	Simple	Composite	Comments
(1) Untreated wastewater	Light grey, grab sample at 10:50	-	pH: 6.9 Temperature: 34.6 °C
(2) Effluent	-	Colorless, composite sample at 9:35, 10:35, 11:35, 12:35, 13:35, 14:35, 15:35	pH:7.3 Temperature: 32.4 °C
(3) Sludge	Brown, grab sample at 12:40	-	-
(4) Leachate	YES	-	-



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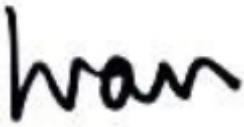
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SGS-CSI Standards Technical Services Co., Ltd.
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Internal description – Final Test Report	
Testing laboratory	SGS Guangzhou
Internal codification number (report number)	SL92429310437201TX
Reference sample number (sample ID)	92429310437201-01, 92429310437201-02, 92429310437201-03
Received on	29/07/2024
Analysis carried out from	30/07/2024 to 06/08/2024
Arrival temperature at lab	6.0 °C
Comments	Samples received within 24 hours

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Ivan Xie (Technical Manager)



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Summary of test results				
Test items	Untreated Wastewater	Effluent	Sludge	Leachate
Conventional Parameters and Anions	-	Fulfill Progressive limit	Please refer to the information in TEST RESULTS	-
Heavy Metals	-	Fulfill Progressive 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 Paraffins	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	-	-	-



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Sludge disposal pathway	
Comply sludge disposal pathway	Yes

Remark (indicated in each parameter)

- ND = Not detected (< ZDHC requirements)
- D = Detected (≥ ZDHC requirements)
- NA = Not applicable
- NC = Not conducted
- = 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	
pH	HJ 1147	Textile and Leather: 6-9			NA	7.3 (f)	-
Temperature Difference	GB/T 13195	Textile and Leather: Δ+15	Textile and Leather: Δ+10	Textile and Leather: Δ+5	NA	3.6	°C
E. Coli	APHA 9221 F	Textile and Leather: 126			126	ND	MPN/100mL
Colour (436nm; 525nm; 620nm)	ISO 7887 B	Textile and Leather: 7;5;3	Textile and Leather: 5;3;2	Textile and Leather: 2;1;1	2;1;1	ND;ND;ND	m-1
Persistent Foam	-	Textile and Leather: Not visible			NA	Not Visible (f)	-
Wastewater Flowrate	-	-			NA	1348 (f)	m ³ /day
Ammonium-Nitrogen	HJ 535	Textile: 10 Leather: 15	Textile: 1 Leather: 10	Textile: 0.5 Leather: 1	0.5	0.9	mg/L
AOX	HJ/T 83-2001	Textile: 3	Textile: 0.5	Textile: 0.1	0.1	ND	mg/L
Biochemical Oxygen Demand 5-days concentration (BOD ₅)	HJ 505	Textile: 30 Leather: 50	Textile: 15 Leather: 30	Textile: 8 Leather: 20	5	ND	mg/L
Chemical Oxygen Demand (COD)	HJ 828	Textile: 150 Leather: 250	Textile: 80 Leather: 150	Textile: 40 Leather: 100	40	ND	mg/L
Dissolved Oxygen (DO)	HJ 506	Textile and Leather: Sample and report only			0.5	5.88 (f)	mg/L
Oil and grease	HJ 637	Textile: 10 Leather: 20	Textile: 2 Leather: 10	Textile: 0.5 Leather: 5	0.5	0.5	mg/L
Total Phenols / Phenol Index	HJ 503	Textile and Leather: 0.5	Textile:0.01 Leather: 0.3	Textile: 0.001 Leather: 0.1	0.001	0.004	mg/L
Total Chlorine	HJ 586	Textile and Leather: Sample and report only			0.5	0.18 (f)	mg/L
Total Dissolved Solids (TDS)	APAH 2540C	Textile and Leather: Sample and report only			50	531	mg/L
Total Nitrogen	HJ 636	Textile: 20 Leather: 35	Textile: 10 Leather: 20	Textile: 5 Leather: 10	5	ND	mg/L
Total Phosphorus	GB/T 11893	Textile and Leather: 3	Textile: 0.5 Leather: 1	Textile: 0.1 Leather: 0.5	0.1	ND	mg/L
Total Suspended Solids (TSS)	GB/T 11901	Textile: 50 Leather: 70	Textile: 15 Leather: 50	Textile: 5 Leather: 20	5	ND	mg/L



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Chloride	HJ 84-2016	Textile and Leather: Sample and report only			1	180	mg/L
Cyanide	HJ 484	Textile: 0.2	Textile: 0.1	Textile: 0.05	0.05	ND	mg/L
Sulfate	HJ 84-2016	Textile and Leather: Sample and report only			5	75	mg/L
Sulfide	HJ1226	Textile: 0.5 Leather: 1	Textile: 0.05 Leather: 0.5	Textile: 0.01 Leather: 0.2	0.01	ND	mg/L
Sulfite	HJ 84-2016	Textile: 2	Textile: 0.5	Textile: 0.2	0.2	ND	mg/L

Remark

ND = Not detected (< Reporting Limit)
 NA = Not applicable
 NC = Not conducted
 - = Not required to be tested
 (f) = Parameter tested in field



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2. Heavy Metals

Sb, Ba, Se, As, Cr, Co, Cd, Cu, Pb, Ni, Ag, Zn: EPA 200.8
 Cr (VI): GB 7467
 Sn: HJ 700
 Hg: USEPA 200.8

Test items	CAS no.	Limit			Reporting Limit	Result	Unit
		Foundational	Progressive	Aspirational		Effluent	
Antimony (Sb)*	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.01	0.01	0.03	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
Barium (Ba)	Various	Textile: Sample and report only			35	ND	mg/L
Selenium (Se)	Various	Textile: Sample and report only			0.5	ND	mg/L
Tin (Sn)	Various	Textile: Sample and report only			0.1	ND	mg/L
Arsenic (As)	Various	Textile and Leather: 0.05	Textile and Leather: 0.01	Textile and Leather: 0.005	0.005	ND	mg/L
Total Chromium (Cr)	Various	Textile: 0.2 Leather: 1.5	Textile: 0.1 Leather: 0.8	Textile: 0.05 Leather: 0.3	0.05	ND	mg/L
Cobalt (Co)	Various	Textile and Leather: 0.05	Textile and Leather: 0.02	Textile and Leather: 0.01	0.01	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
Copper (Cu)	Various	Textile and Leather: 1	Textile and Leather: 0.5	Textile and Leather: 0.25	0.25	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
Nickel (Ni)	Various	Textile and Leather: 0.2	Textile and Leather: 0.1	Textile and Leather: 0.05	0.05	ND	mg/L
Silver (Ag)	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.005	0.005	ND	mg/L
Zinc (Zn)	Various	Textile and Leather: 5	Textile and Leather: 1	Textile and Leather: 0.5	0.1	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

Remark

ND = Not detected (< Reporting Limit)
 * = Sample and report only for polyester wet processing facilities



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

NP / OP: With reference to ISO 18857-2 (Modified dichloromethane extraction), followed by GC-MS

NPEO / OPEO: Solid phase extraction,analysis with reference to ASTM D7742

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated Wastewater	
Nonylphenoethoxylates (NPEOs)	9016-45-9 / 26027-38-3 / 37205-87-1 / 68412-54-4 / 127087-87-0	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
Octylphenol (OP)	140-66-9 / 1806-26-4 / 27193-28-8	5	ND	µg/L

Remark

1 µg/L = 0.001ppm

ND = Not detected (< Reporting Limit)

4. Anti- Microbials & Biocides

o-Phenylphenol (+salts): Solvent extraction,derivatization with KOH, acetic anhydride followed by GC-MS

Triclosan: Solvent extraction followed by GC-MS

Permethrin: Solvent extraction followed by GC-MS

Test items	CAS no.	Reporting Limit	Result	Unit
			Untreated Wastewater	
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

Remark

1 µg/L = 0.001ppm

ND = Not detected (< Reporting Limit)



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5. Chlorinated Paraffins

MCCPs: Preparation: With reference to USEPA 3510, Analysis: With reference to ISO 18219-2:2021Method for MCCP with GC-MS(NCI)

SCCPs: Preparation: With reference to USEPA 3510, Analysis: With reference to ISO 18219-1:2021Method for SCCP with GC-MS(NCI)

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

Remark

1 µg/L = 0.001ppm

6. Chlorobenzenes & Chlorotoluenes

Chlorobenzenes & Chlorotoluenes: Dichloromethane extraction followed by GC-MS

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated Wastewater	
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



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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
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

Remark

1 µg/L = 0.001ppm
 ND = Not detected (< Reporting Limit)

7. Chlorophenols

Chlorophenols: Solvent extraction,derivatization with KOH, acetic anhydride followed by GC-MS

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
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



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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

Remark

1 µg/L = 0.001ppm
 ND = Not detected (< Reporting Limit)

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

DMFa: USEPA 8270 E

Test item	CAS no.	Reporting Limit (Textile)	Result	Unit
			Untreated Wastewater	
N,N-di-methylformamide (DMFa)*	68-12-2	1000	ND	µg/L

Remark

1 µg/L = 0.001ppm



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9. Dyes - Carcinogenic or Equivalent Concern

Dyes - Carcinogenic or Equivalent Concern: With reference to Liquid extraction followed by LC-MS/MS

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated Wastewater	
Basic violet 3 with >0.1% of Michler's Ketone*	548-62-9	500	ND	µg/L
C.I. Acid Red 26	3761-53-3	500	ND	µg/L
C.I. Acid Violet 49	1694-09-3	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
C.I. Basic Red 9	569-61-9	500	ND	µg/L
C.I. Basic Violet 14	632-99-5	500	ND	µg/L
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. Direct Red 28	573-58-0	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
Disperse Orange 11	82-28-0	Textile: 500	ND	µg/L

Remark

1 µg/L = 0.001ppm

ND = Not detected (< Reporting Limit)

* = Reported concentration refers to the dye part only



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10. Dyes - Disperse (Allergenic)

Dyes - Disperse (Allergenic): With reference to Liquid extraction followed by LC-MS/MS

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

Remark

1 µg/L = 0.001ppm
 ND = Not detected (< Reporting Limit)



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11. Dyes - Navy Blue Colourant

Dyes - Navy Blue Colourant: With reference to Liquid extraction followed by LC-MS/MS

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

Remark

1 µg/L = 0.001ppm
 ND = Not detected (< Reporting Limit)

12. Flame retardants

Boric acid, Diboron trioxide, Disodium octaborate, Disodium tetraborate anhydrous, Tetraboron disodium heptaoxide, hydrate: EPA 200.7
 Others: Dichloromethane extraction followed by GC-MS

Test Items	CAS no.	Reporting Limit	Result	Unit
			Untreated Wastewater	
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	Textile: 25 Leather: 5	ND	µg/L
Bis(2,3-dibromopropyl) phosphate	5412-25-9	Textile: 25 Leather: 5	ND	µg/L
Decabromodiphenyl ether (DecaBDE)	1163-19-5	Textile: 25 Leather: 5	ND	µg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	Textile: 25 Leather: 5	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	Textile: 25 Leather: 5	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	Textile: 25 Leather: 5	ND	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	Textile: 25 Leather: 5	ND	µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	Textile: 25 Leather: 5	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	Textile: 25 Leather: 5	ND	µg/L



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Tris(1-aziridinylphosphine oxide) (TEPA)	545-55-1	Textile: 25 Leather: 5	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	Textile: 25 Leather: 5	ND	µg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	Textile: 25 Leather: 5	ND	µg/L
Tris(2,3-dibromopropyl phosphate) (TRIS)	126-72-7	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
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

Remark

1 µg/L = 0.001ppm

ND = Not detected (< Reporting Limit)

* = 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

Glycols / Glycol Ethers: With reference to USEPA 8270 E followed by GC-MS

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

Remark

1 µg/L = 0.001ppm
 ND = Not detected (< Reporting Limit)

14. Halogenated Solvents

Halogenated Solvents: With reference to USEPA 8260 D, Purge and Trap or Static Headspace followed by GC-MS

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
Tetrachloroethene	127-18-4	1	ND	µg/L
Trichloroethene	79-01-6	1	ND	µg/L

Remark

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 ND = Not detected (< Reporting Limit)



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15. Organotin compounds

TeET: With reference to ISO 17353

Others: With reference to ISO 17353 or Derivatization with NaB(C₂H₅)₄ followed by GC-MS

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

Remark

1 µg/L = 0.001ppm



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ND = Not detected (< Reporting Limit)

16. Other/Miscellaneous Chemicals

AEEA [2-(2-aminoethylamino) ethanol], Bisphenol A, Thiourea, Quinoline: With reference to Liquid extraction followed by LC-MS/MS
 Borate, zinc salt: HJ 700

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

Remark

1 µg/L = 0.001ppm

ND = Not detected (< Reporting Limit)

* = 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)

17. Perfluorinated and Polyfluorinated Chemicals (PFCs)

PFCs: With reference to USEPA 537:2020 followed by LC-MS/MS

FTOH: With reference to USEPA 8270 E,Derivatization with acetic anhydride followed by GC-MS

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
N-Ethyl-perfluoro-octane-sulfon-amide (N-Et-FOSA)	4151-50-2	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-amido-ethanol (N-Et-FOSE)	1691-99-2	0.01	ND	µg/L



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N-Methyl-perfluoro-octane-sulfon-amido-ethanol (N-Me-FOSE)	24448-09-7	0.01	ND	µg/L
Perfluoro-octane-sulfon-amide (PFOSA)	754-91-6	0.01	ND	µg/L
Perfluoro-octanoic acid (PFOA)**	335-67-1	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
1H,1H,2H,2H-Perfluorodecanol (8:2 FTOH)	678-39-7	1	ND	µg/L
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	1	ND	µg/L
8:2 Fluorotelomer methacrylate (8:2 FTMA)	1996-88-9	1	ND	µg/L

Remark

1 µg/L = 0.001ppm

ND = Not detected (< Reporting Limit)

* = 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

Phthalates: Dichloromethane extraction, analysis with reference to USEPA8270 E

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated Wastewater	
1,2-benzenedicarboxylic acid, di-C6-8 branched and linearalkyl esters, C7-rich (DIHP)	71888-89-6 / 84777-06-0	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
Dimethoxyethyl phthalate (DMEP)	117-82-8	10	ND	µg/L
Butyl benzyl phthalate (BBP)	85-68-7	10	ND	µg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	ND	µg/L
Di-iso-decyl phthalate (DIDP)	26761-40-0	10	ND	µg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	ND	µg/L
Di-iso-butyl phthalate (DIBP)	84-69-5	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
Di-n-octyl phthalate (DNOP)	117-84-0	10	ND	µg/L
Di-n-pentylphthalates	131-18-0	10	ND	µg/L
Di-n-propyl phthalate (DPRP)	131-16-8	10	ND	µg/L
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	10	ND	µg/L
Dibutyl phthalate (DBP)	84-74-2	10	ND	µg/L
Diethyl phthalate (DEP)	84-66-2	10	ND	µg/L
Diisopentylphthalates	605-50-5	10	ND	µg/L
Dinonyl phthalate (DNP)	84-76-4	10	ND	µg/L

Remark

1 µg/L = 0.001ppm
 ND = Not detected (< Reporting Limit)



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19. Polycyclic aromatic hydrocarbons (PAHs)

PAHs: Solvent extraction followed by GC-MS

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

Remark

1 µg/L = 0.001ppm

ND = Not detected (< Reporting Limit)



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20. Restricted Aromatic Amines (Cleavable from Azo-colourants)

Restricted Aromatic Amines: Reduction step with sodium dithionite, solvent extraction followed by GC-MS or LC-MS/MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
2-Naphthylamine	91-59-8	0.1	ND	µg/L
2-Naphthylammoniumacetate	553-00-4	0.1	ND	µg/L
2,4-Xylidine	95-68-1	0.1	ND	µg/L
2,4,5-Trimethylaniline	137-17-7	0.1	ND	µg/L
2,4,5-trimethylaniline hydrochloride	21436-97-5	0.1	ND	µg/L
2,6-Xylidine	87-62-7	0.1	ND	µg/L
3,3'-Dichlorobenzidine	91-94-1	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
4-Aminoazobenzene	60-09-3	0.1	ND	µg/L
4-Aminobiphenyl	92-67-1	0.1	ND	µg/L
4-Chloro-o-toluidine	95-69-2	0.1	ND	µg/L
4-chloro-o-toluidinium chloride	3165-93-3	0.1	ND	µg/L
4-Chloroaniline	106-47-8	0.1	ND	µg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoaniso le sulphate	39156-41-7	0.1	ND	µg/L
2,4-Diaminoaniso le	615-05-4	0.1	ND	µg/L
2,4-Diaminotoluene	95-80-7	0.1	ND	µg/L
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1	ND	µg/L
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	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
4,4'-Thiodianiline	139-65-1	0.1	ND	µg/L
5-Nitro-o-toluidine	99-55-8	0.1	ND	µg/L



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p-Cresidine	120-71-8	0.1	ND	µg/L
Benzidine	92-87-5	0.1	ND	µg/L
o-Aminoazotoluene	97-56-3	0.1	ND	µg/L
o-Anisidine	90-04-0	0.1	ND	µg/L
o-Toluidine	95-53-4	0.1	ND	µg/L

Remark

1 µg/L = 0.001ppm
 ND = Not detected (< Reporting Limit)

21. UV Absorbers

UV Absorbers: Dichloromethane extraction followed by GC-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

Remark

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 ND = Not detected (< Reporting Limit)



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22. Volatile organic compounds (VOCs)

Benzene, Xylene, Toluene: With reference to USEPA 8260 D, Purge and Trap or Static Headspace followed by GC-MS

m-cresol / o-cresol / p-cresol: USEPA 8270 E, followed by GC-MS

Test Items	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
Benzene	71-43-2	Textile and Leather: 1	ND	µg/L
m-cresol	108-39-4	Textile and Leather: 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
Xylene	1330-20-7	Textile: 1	ND	µg/L
Toluene	108-88-3	Textile: 1 (Sample and Report only for mock leather)	ND	µg/L

Remark

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ND = Not detected (< Reporting Limit)



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SLUDGE

23. Sludge Parameters - Step 1 - Conventional

pH: HJ 962

% Solids: HJ 613 at 105°C

Paint Filter Test: USEPA 9095 B

Fecal Coliform: EPA 1681

Test Items	CAS no.	Limit							Reporting Limit (Textile and Leather)	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	-	7.88	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	-	37.2	%
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

Remark

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24. Sludge Parameters - Step 1 - Anions

Cyanide: HJ 745

Test Items	CAS no.	Limit - Dry Weight							Reporting Limit (Textile)	Result	
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	Unit
Cyanide	-	Sample and Report Only	Sample and Report Only	100	85	70	70	70	20	ND	mg/kg

Remark

ND = Not detected (< Reporting Limit)

25. Sludge Parameters - Step 1 - Metals

Sb, As, Ba, Cd, Co, Cu, Pb, Ni, Se, Ag, Cr, Zn: Preparation: USEPA 3050, Analysis: USEPA 6020 B

Cr VI: Preparation:USEPA 3060 A, Analysis: USEPA 7196

Hg: GB/T 22105.1

Test Items	CAS no.	Limit - Dry Weight		Reporting Limit	Result	
		Total Metals Threshold Values*	Max Total Metals limit for Pathway G		Sludge	Unit
Antimony (Sb)	Various	12	Sample and Report Only	Textile: 5	45	mg/kg
Arsenic (As)	Various	10	75	Textile: 5 Leather: 2	6	mg/kg
Barium (Ba)	Various	700	Sample and Report Only	Textile: 200	ND	mg/kg
Cadmium (Cd)	Various	3	85	Textile: 1 Leather: 2	ND	mg/kg
Cobalt (Co)	Various	1600	Sample and Report Only	Textile: 400	ND	mg/kg
Copper (Cu)	Various	200	4300	Textile: 50	77	mg/kg
Lead (Pb)	Various	10	840	Textile: 5 Leather: 2	19	mg/kg



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Nickel (Ni)	Various	70	420	Textile: 20	23	mg/kg
Selenium (Se)	Various	10	100	Textile: 5	ND	mg/kg
Silver (Ag)	Various	100	Sample and Report Only	Textile: 50	ND	mg/kg
Total Chromium (Cr)	Various	100	3000	Textile: 50	495	mg/kg
Zinc (Zn)	Various	1000	7500	Textile: 400	438	mg/kg
Chromium VI (Cr VI)	Various	50	50	Textile: 20 Leather: 2	ND	mg/kg
Mercury (Hg)	Various	1	57	Textile: 1 Leather: 0.2	ND	mg/kg

Remark

ND = Not detected (< Reporting Limit)

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

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

NP/OP: Solvent extraction, analysis with reference to ISO 18857-2

NPEO/OPEO: Solvent extraction, analysis with reference to ISO 18254-1

Test Items	CAS no.	Limit - Dry Weight							Reporting Limit (Textile and Leather)	Result	
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	Unit
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
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
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

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27. Sludge Parameters - Step 1 - MRSL - Polycyclic Aromatic Hydrocarbons (PAHs)

PAHs: Solvent extraction,analysis with reference to USEPA 8270 E

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	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
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
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
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
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
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
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
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(k)fluoranthene	207-08-09	Sample	Sample	Sample	0.2	0.2	0.2	0.2	0.2	ND	mg/kg



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		and Report Only	and Report Only	and Report Only							
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
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
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
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
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
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
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

Remark

ND = Not detected (< Reporting Limit)



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28. Sludge Parameters - Step 1 - MRSL - Chlorotoluenes

Chlorotoluenes: Solvent extraction, analysis with reference to USEPA8270 E

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



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		Report Only	Report Only	Report Only							
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
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

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LEACHATE

29. Leachate Parameters - Step 2 - Metals

Cr, Pb, Sb: Leachate Extraction: USEPA 1311, Analysis: USEPA 200.8

Test Items	CAS no.	Limit							Reporting Limit	Result	
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Leachate	Unit
Total Chromium (Cr)	Various	Sample and Report Only	Sample and Report Only	15	10	5	5	5	0.05	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	0.06	mg/L

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Annex A: Sampling photos & Sampling locations

UNTREATED WASTEWATER
GPS Data: 23°09'33.72" N, 113°57'56.93" E
SAMPLING LOCATION, CLOSE-UP VIEW



SAMPLING LOCATION, FAR VIEW



EFFLUENT
GPS Data: 23°09'34.02" N, 113°58'02.42" E
SAMPLING LOCATION, CLOSE-UP VIEW



SAMPLING LOCATION, FAR VIEW



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SLUDGE

GPS Data: 23°09'35.26" N, 113°57'59.20" E

SAMPLING LOCATION, CLOSE-UP VIEW



SAMPLING LOCATION, FAR VIEW



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Annex B: On-site Field Data Record Sheet
UNTREATED WASTEWATER

水质采样记录
Water Sampling Records

任务单号 Task Number: 0437-TX 采样日期 Sampling Date: 2024.7.29 委托单位 Client: TX TRADING SA
 天气状况 Weather Conditions: 阴 水体类型 Type of Water: 原废水 受检单位 Factory: 博罗县九潭天羽漂染有限公司
 其他仪器设备 (名称、编号) Other instruments and equipment (name, number): TX-28-6
 参考采样规范 Reference Sampling Specification: R201HC Wastewater and Sludge Laboratory Sampling and Analysis Plan (SAP) HJT 91-2002
 (地表水环境质量监测规范) (地表水) (Surface Water Quality Monitoring Specification (Surface Water)) 其他 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值 (无范围)	溶解氧 Dissolved Oxygen (mg/L)	总氯 Total Chlorine (mg/L)	废水流量 Wastewater Flow Meter (m3/day)	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)					
001-001	原废水调节池 (以下空白)	10:50	32.6		6.9						192	PS/VOA	123A	浅灰色	NA
均值 Average															
备注: 备注: 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代表棕色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 (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. 水质外观: 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, 是否排水区、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. 减振减噪 Vibration reduction 5. 其他 Others:													照片拍摄时间 Time of Photo: 11:07	其他现场信息: Additional on-site information	

采样员 Sampler: 杨 审核员 Reviewer: 张 客户确认 Client Confirmation: 张

Effective Date: 01/01/2024



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EFFLUENT



**水质采样记录
Water Sampling Records**

任务单号 Task Number: 04372TX 采样日期 Sampling Date: 2024.7.29 委托单位 Client: ITX TRADING SA
 天气状况 Weather Conditions: 阴 水体类型 Type of Water: 排放废水 委托单位 Factory: 博罗县九潭天羽漂染有限公司
 其他仪器设备 (名称、编号) Other instruments and equipment (name, number): TX-202-2, TX-246, TX-240-2, TX-247-2
 参考采样规范 Reference Sampling Specification: WZHC Wastewater and Sludge Laboratory Sampling and Analysis Plan (SAP) HJ/T 91-2002
 (地表水环境质量标准监测任务作业指导书) 其他 Others: 电导率: 203.165

样品编号 Sample Number	采样位置 Sampling Location	采样时间 Sampling Time (Hours)	温度 Temp (°C)		pH值 (无量纲)	溶解氧 Dissolved Oxygen (mg/L)	总氯 Total Chlorine (mg/L)	废水流量 Wastewater Flow Meter (m3/day)	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)	流速 Velocity (cm/s)						
0076-002	排放废水口	0 9:35	30.3	31.2	7.1	4.05	0.18	134g						无色透明	NA NO	
		1 10:35	31.7	32.1	7.1	4.71				719L	785VOA	723A	无色透明	NA NO		
		2 11:35	32.2	32.0	7.3	4.58								无色透明	NA NO	
		3 12:35	34.6	31.7	7.2	4.93									无色透明	NA NO
		4 13:35	34.0	32.9	7.2	4.51			工厂过往12个月排放量: Total Industrial Wastewater generated over a 12 months: 426059 m³						无色透明	NA NO
		5 14:35	34.1	32.3	7.1	4.73	0.13		工厂过往12个月开工天数: 316 Total working days in a 12 month period:						无色透明	NA NO
6 15:35	32.1	32.2	7.3	5.38									无色透明	NA NO		
均值 Average			32.4	32.4	7.3	5.88								无色透明	NA 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.
 水质描述: 水色、浊度、臭、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, 是否饮用水区, 回水区, 有无居民区, 工业区, 有无居民区, 工业区和城市化地区等。
 Surrounding environment: whether there is a sewage outlet, whether there is a residential area, a backwater area, whether there is a residential area, an industrial area and a pesticide and fertilizer use area, etc.
 保存方式 Storage methods: 1.标签密封Uncrockan label 2.冷藏Refrigeration 3.避光Protect from light 4.减振Vibration reduction 5.其他Others: _____
 采样员 Sampler: 李颖 审核员 Reviewer: 陈和记 客户确认 Client Confirmation: 陈和记



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SLUDGE



受控编号: ZHDC-7_土壤采样原始记录_v2.0_20240101

土壤采样记录 Soil Sampling Records

任务单号 Task Number: 04372TX

采样日期 Sampling Date: 2024, 7, 29

委托单位 Client: ITX TRADING SA

天气状况 Weather Conditions: 阴

采样仪器 Sampling Instrument: /

受检单位 Factory: 博罗县潭天羽漂染有限公司

参考采样规范: ZHDC Wastewater and Sludge Laboratory Sampling and Analysis Plan (SAP) 其他:

样品编号 Sample Number	采样位置/GPS 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
0076 003	15#池边	12:40	2-1kg	G	/	褐色	N 23°09'35.26" E 113°51'54.20"	/
	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: 13:01

样品现场密封 Samples are sealed in the field

采样现场周围异味 Odor around the sampling site: 恶臭 foul odor 很臭 very smelly 臭 smelly 微臭 slightly smelly 其他 Others _____ :

采样员 Sampler: 李硕

审核员 Reviewer: 刘永红

客户确认 Client Confirmation: 张进



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Annex C: Limit according to regulation / Contract limit with centralized ETP (if proceed)

水污染物排放执行标准名称	纺织染整工业水污染物排放标准 GB 4287-2012,广东省水污染物排放限值标准 DB44/26-2001,水污染物排放限值 DB44/ 26—2001
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表 10 废水污染物排放

序号	排放口编号	排放口名称	污染物种类	许可排放浓度限值	第一年
					主要排放口
1	DW001	生产废水排放口	可吸附有机卤化物	12mg/L	/
2	DW001	生产废水排放口	色度	40mg/L	/
3	DW001	生产废水排放口	总氮（以 N 计）	15mg/L	/



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序号	排放口编号	排放口名称	污染物种类	许可排放浓度限值	第一年
4	DW001	生产废水排放口	二氧化氯	0.5mg/L	/
5	DW001	生产废水排放口	pH 值	6-9	/
6	DW001	生产废水排放口	石油类	5.0mg/L	/
7	DW001	生产废水排放口	挥发酚	0.3mg/L	/
8	DW001	生产废水排放口	化学需氧量	80mg/L	/
9	DW001	生产废水排放口	总镉	0.1mg/L	/
10	DW001	生产废水排放口	苯胺类	1.0mg/L	/
11	DW001	生产废水排放口	氨氮 (NH3-N)	10mg/L	/
12	DW001	生产废水排放口	五日生化需氧量	20mg/L	/
13	DW001	生产废水排放口	悬浮物	50mg/L	/
14	DW001	生产废水排放口	总磷 (以 P 计)	0.5mg/L	/
15	DW001	生产废水排放口	溶解性总固体 (全盐类)	/mg/L	/

序号	排放口编号	排放口名称	污染物种类	许可排放浓度限值	第一年
16	DW001	生产废水排放口	硫化物	0.5mg/L	/

****END OF REPORT****



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