

DHK: TX: 2310010513 Date: 17/05/2023 Test Report No.

Date of sampling	02/05/2023
Reporting date	17/05/2023

Audit ID	139990	Audit firm	SGS Bangladesh Ltd.		
Company name	Hoorain HTF Ltd.	Hoorain HTF Ltd.			
Contact person	ld. Nazmul Hasan				
Type of tax – tax ID no	85901301423				
Address	Bejura, Madhabpur, Habiganj	Bejura, Madhabpur, Habiganj			
Region state province	Habiganj	Habiganj			
Town city / village	Sylhet				
Zip / Post code	3330				

Type of wastewater discharge		
Type of waste discharge	Direct Discharge	
Description of the discharge	Discharge to Canal	
[If direct discharge] Temperature of receiving water body:	36.7°C	

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

Sampler accreditation certification number (ZDHC):			C74D106819559		
Sampling affiliate SGS Bangladesh Ltd.					
Sample description					
	Simple		Composite	Comments	
(1) Untreated wastewater	YES, Dark Blue, sample at 19:10		NO	N/A	
(2) Effluent	NO		Light Blue, composite sample at 10, 13:40, 14:40, 15:40, 16:40, 17:40, 18:40.	N/A	
(3) Sludge	YES, Dark Grey, Sample at 19.30			N/A	
(4) Leachate	YES		N/A	N/A	



Internal description – Final Test Report	
Testing laboratory	SGS Bangladesh Ltd,SGS India Private Limited.
Internal codification number (report number)	2310010513
Reference sample number (sample ID)	Untreated wastewater, Effluent, Sludge.
Received on	02/5/2023 at SGS Bangladesh Ltd; 09/05/2023 at SGS India Private Limited.
Analysis carried out from	02/05/2023-07/05/2023 at SGS Bangladesh Ltd;09/05/2023-17/05/2023 at SGS India Private Limited
Arrival temperature at lab	7 °C
Comments	NA
Reporting date	17/05/2023

Sign for and on behalf of SGS Bangladesh Ltd

Kenner)

RAFIQUL ISLAM Chemical Lab Manager



Summary of test results							
Test items	Untreated wastewater	Effluent	Sludge	Leachate			
Conventional Parameters and Anions	-	Fulfill Foundational limit @	Please refer to the information in TEST RESULTS	-			
Heavy Metals	-	Fulfill Aspirational limit	Please refer to the information in TEST RESULTS	D			
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	ND	-	ND	-			
Anti- Microbials & 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	-	-	-			
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	-	ND	-			
Restricted Aromatic Amines (Cleavable from Azo-colourants)	ND	-	-	-			
UV Absorbers	ND	-	-	-			
VOCs	ND	-	-	-			

Remark (Indicated in each parameter)

ND = Not detected

D = Detected

NA = Not applicable

- = Not required to be tested

@ = Maximum holding time exceeded

(T) = handling temperature exceeded



Test results

Wastewater

1. Conventional Parameters and Anions

			Limit				
Test Items	Test method					Result	Unit
		Foundational	Progressive	Aspirational		Effluent	
рН	ISO 10523, USEPA 150.1, SM 4500 H+, HJ 1147 or IS 3025 (Part 11) - Electrometric method only	Тех	ctile and Leather: (NA	7.4 (f)	-
Temperature Difference	DIN 38 404-4, USEPA 170.1, SM 2550, GB/T 13195 or IS 3025 (Part 9)	Textile and Leather: Δ+15	Textile and Leather: Δ+10	Textile and Leather: Δ+5	NA	0.1 (f)	°C
E. Coli	SM 9221 B presumptive, confirm positive with SM 9221 F or G	Tex	tile and Leather: 1	26	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	NA	5.8;3.8;2.7(S)	m ⁻¹
Persistent Foam	-	Textile	Textile and Leather: Not visible			Not Visible	-
Wastewater Flowrate	-		-			725 (f)	m³/day
Ammonium-Nitrogen	ISO 7150, ISO 11732, USEPA 350.1, USEPA 350.3, SM 4500 NH3 D, E, F, G or H, HJ 535 or IS 3025 (Part 34) - Phenate or ammonia selective electrode only	Textile: 10 Leather: 15	Textile: 1 Leather: 10	Textile: 0.5 Leather: 1	0.5	ND(S)	mg/L
AOX	ISO 9562, HACH LCK 390 or HJ/T 83-2001	Textile: 3	Textile: 0.5	Textile: 0.1	0.1	ND(S)	mg/L
Biochemical Oxygen Demand 5-days concentration (BOD ₅)	ISO 5815-1, USEPA 405.1, SM 5210 B, HJ 505 or IS 3025 (Part 44) - Seeded dilution water (BOD ₅)	Textile: 30 Leather: 50	Textile: 15 Leather: 30	Textile: 8 Leather: 20	5	16	mg/L
Chemical Oxygen Demand (COD)	ISO 6060, ISO 15705, USEPA 410.4, SM 5220 D, HJ 828, GB/T 11914 or IS 3025 (Part 58)	Textile: 150 Leather: 250	Textile: 80 Leather: 150	Textile: 40 Leather: 100	40	77	mg/L
Dissolved Oxygen (DO)	ISO 5814, USEPA 360.1, SM 4500 O G or HJ 506	Textile and Le	eather: Sample an	d report only	0.5	6.4 (f)	mg/L
Oil and grease	ISO 9377-2, USEPA 1664 Revision B, SM 5520 B or C, HJ 637 - Total oil and grease or IS 3025 (Part 39) - Partition gravimetric or partition infra-red	Textile: 10 Leather: 20	Textile: 2 Leather: 10	Textile: 0.5 Leather: 5	0.5	ND	mg/L
Total Phenols / Phenol Index	ISO 6439, SM 5530 B or C, HJ 503 or IS 3025 (Part 43)	Textile and Leather: 0.5	Textile:0.01 Leather: 0.3	Textile: 0.001 Leather: 0.1	0.001	ND	mg/L
Total Chlorine	ISO 7393-2, USÉPA 330.5, SM 4500 CI- G or HJ 586	Textile and Le	eather: Sample an	d report only	0.5	ND (f)	mg/L



Total Dissolved Solids (TDS)	USEPA 160.1, SM 2540 C, GB/T 5750.4- 2006 (180°C centigrade) or IS 3025 (Part 16) 179°C to 181°C	Textile and Leather: Sample and report only			50	1406	mg/L
Total Nitrogen	ISO 11905 - Part 1, ISO 29441, USEPA 351.2, SM 4500 P J, SM 4500 N B, C, HJ 636 or IS 3025 (Part 34) (Ammonia, nitrate, nitrite, organic)	Textile: 20 Leather: 35	Textile: 10 Leather: 20	Textile: 5 Leather: 10	5	8	mg/L
Total Phosphorus	ISO 6878, ISO 11885, ISO 17294, USEPA 200.7, USEPA 200.8, USEPA 365.4, USEPA 6010 C, USEPA 6020 A, SM 4500 P J, GB/T 11893, IS 3025 (Part 31) or IS 3025 (Part 65)	Textile and Leather: 3	Textile: 0.5 Leather: 1	Textile: 0.1 Leather: 0.5	0.1	0.8	mg/L
Total Suspended Solids (TSS)	ISO 11923, USEPA 160.2, SM 2540 D, GB/T 11901 or IS 3025 (Part 17) 103°C to 105°C	Textile: 50 Leather: 70	Textile: 15 Leather: 50	Textile: 5 Leather: 20	5	20	mg/L
Chloride	ISO 10304-1, ISO 15923-1, USEPA 300, SM 4110 B, C, SM 4500 CI D or E, HJ 84- 2016 or IS 3025 (Part 32) - Potentiometric or automated ferricyanide only	Textile and Le	Textile and Leather: Sample and report only			282	mg/L
Cyanide	ISO 6703-1, -2, -3, ISO 14403-1, -2, USEPA 335.2, SM 4500 CN or HJ 484	Textile: 0.2	Textile: 0.1	Textile: 0.05	0.05	ND	mg/L
Sulfate	ISO 10304-1, ISO 15923-1, USEPA 300, USEPA 9038, SM 4110 B, C, SM 4500 SO ₄ ²⁻ E, F, G, HJ 84- 2016 or IS 3025 (Part 24)	Textile and Leather: Sample and report only			5	ND	mg/L
Sulfide	ISO 10530, SM 4500 S ²⁻ D, E, G or I, HJ 1226 or IS 3025 (Part 29) - Methylene blue only	Textile: 0.5 Leather: 1	Textile: 0.05 Leather: 0.5	Textile: 0.01 Leather: 0.2	0.01	ND	mg/L
Sulfite	ISO 10304-3, SM 4500 SO ₃ ²⁻ C or HJ 84-2016	Textile: 2	Textile: 0.5	Textile: 0.2	0.2	ND(S)	mg/L

Remark

ND = Not detected

NA = Not applicable

^{- =} Not required to be tested

⁽f) = Parameter tested in field

⁽S) = The analysis was subcontracted to SGS India Private Limited, lab Reference no.1442023091 for testing.

^{# =} Non accredited parameter



2. Heavy Metals

Cr (VI): ISO 18412, USEPA 218.6, GB 7467 or IS 3025 (Part 52) Ba, Se, Sn: USEPA 200.8, USEPA 6010 C, USEPA 6020 A or HJ 700

Sb, As, Cr, Co: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, HJ 700 or IS 3025 (Part 65)

Cd: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 7475, HJ 700, IS 3025 (Part 65) or IS 3025 (Part 41) – AAS instrumental method Cu: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 7475, HJ 700, IS 3025 (Part 65) or IS 3025 (Part 42) – AAS instrumental method Pb: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 7475, HJ 700, IS 3025 (Part 65) or IS 3025 (Part 47) – AAS instrumental method Pb: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 7475, HJ 700, IS 3025 (Part 65) or IS 3025 (Part 47) – AAS instrumental method Ni: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 11912, HJ 700, IS 3025 (Part 55) or IS 3025 (Part 54) - AAS instrumental method

Ag: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 11907, HJ 700 or IS 3025 (Part 65) or IS 3025 (Part 49) – AAS instrumental method

Hg: ISO 17294, USEPA 200.8 - SIM, USEPA 245.1, USEPA 245.7, USEPA 6020 A - SIM, HJ 597, HJ 694, IS 3025 (Part 48) - Cold vapour AAS only or IS 3025 (Part 65) - SI

B: ISO 17294, USEPA 6010 C, USEPA 6020 A, HJ 700 or IS 3025 (Part 65)

			Limit			Result	
Test items	CAS no.	Foundation al	Progressive	Aspirational	Reporting Limit	Effluent	Unit
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
Antimony (Sb) *	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.01	0.01	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
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
Copper (Cu)	Various	Textile and Leather: 1	Textile and Leather: 0.5	Textile and Leather: 0.25	0.25	ND	mg/L
Zinc (Zn)	Various	Textile and Leather: 5	Textile and Leather: 1	Textile and Leather: 0.5	0.1	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
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	Tex	Textile: Sample and report only			ND	mg/L
Tin (Sn)	Various	Tex	tile: Sample and re	port only	0.1	ND	mg/L

Remark

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= Non accredited parameter

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DHK: TX: 2310010513 Test Report No. Date: 17/05/2023

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

NP/OP: With reference to ISO 18857-2 (Modified dichloromethane extraction) or ASTM D7065 (GC-MS or LC-MS(-MS)) NPEO / OPEO: With reference to ISO 18857-2 or ASTM D7742

Test items	CAS no.	Reporting Limit (Textile and Leather)	Untreated wastewater	Unit
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
Octylphenolethoxylates (OPEOs)	9002-93-1/9036-19-5/68987-90-6	5	ND	μg/L
Nonylphenolethoxylates (NPEOs)	9016-45-9/26027-38-3/ 37205- 87- 1/68412-54-4/127087-87-0	5	ND	μg/L

4. Anti- Microbials & Biocides

o-Phenylphenol (+salts): With reference to BS EN 12673-1999, USEPA 8270 E or Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS

Triclosan: With reference to BS EN 12673-1999, USEPA 8270 E or Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS

Permethrin: With reference to ISO 14154:2005, USEPA 8270 E, Solvent extraction followed by GC-MS or An alternative method, without derivatization and determination by LC-MS / LC-MS/MS

			Result	
Test items	CAS no.	Reporting Limit (Textile)	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 Parafins

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

SCCPs: Preparation: With reference to USEPA 3510. Analysis: With reference to ISO 12010:2019, ISO 18219-1:2021 or Method for SCCP with GC-MS(NCI) or LC-MS/MS

Test items	CAS no.	Reporting Limit (Textile)	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

With reference to USEPA 8260 D, USEPA 8270 E, Purge and Trap, Headspace or Dichloromethane extraction followed by GC-MS.

		Reporting Limit	Result	
Test items	CAS no.	(Textile and Leather)	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-Dichlorobezene	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
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, USEPA 8270 E or Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS

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

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

With reference to USEPA 8015 or USEPA 8270 E

Test item	CAS no.	Reporting Limit (Textile)	Result Untreated wastewater	Unit
N,N-di-methylformamide (DMFa)	68-12-2	1000 (Sample and Report only for mock leather)	ND	μg/L

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9. Dyes - Carcinogenic or Equivalent Concern

With reference to Liquid extraction followed by LC-MS

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



10. Dyes - Disperse (Allergenic)

With reference to Liquid extraction followed by LC-MS

		Reporting Limit	Result	
Test Items	CAS no.	(Textile)	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

11. Dyes - Navy Blue Colourant

With reference to Liquid extraction followed by LC-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

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12. Flame retardants

Boric acid, Diboron trioxide, Disodium octaborate, Disodium tetraborate anhydrous, Tetraboron disodium heptaoxide, hydrate: ISO 17294, USEPA 6010 C, USEPA 6020 A, HJ 700 or IS 3025 (Part 65)

Others: With reference to ISO 22032, USEPA 527, USEPA 8270 E, USEPA 8321 B or Dichloromethane extraction followed by GC-MS or

LC-MS(-MS)

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
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

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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.

13. Glycols/Glycol Ethers

With reference to USEPA 8270 E or Liquid extraction followed by LC-MS or GC-MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result Untreated wastewater	- Unit
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 USEPA 8260 D, Purge and Trap or Headspace followed by GC-MS

	0.00	Reporting Limit	Result	Unit μg/L
Test Items	CAS no.	(Textile and Leather)	Untreated wastewater	Unit
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

^{**}Result in term of elemental boron (Result in term of the corresponding boron salt)



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

		Reporting Limit	Result	
Test Items	C AS no .	(Textile and Leather)	Untreated wastewater	Unit
Triclyclohexyltin (TCyHT)	Various	0.01	ND	μg/L
Tripropyltin (TPT)	Various	0.01	ND	μg/L
Dipropyltin compounds (DPT)	Various	0.01	ND	μg/L
Tetrabutyltin compounds (TeBT)	Various	0.01	ND	μg/L
Tetraoctyltin compounds (TeOT)	Various	0.01	ND	μg/L
Tetraethyltin Compounds (TeET)	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
Dioctyltin (DOT)	94410-05-6, 12531-44-4	0.01	ND	μg/L
Trioctyltin (TOT)	Various	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-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-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



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16. Other/Miscellaneous Chemicals

AEEA [2-(2-aminoethylamino) ethanol]: With reference to Liquid extraction followed by LC-MS/MS

Bisphenol A: With reference to Liquid extraction followed by LC-MS Thiourea: With reference to Liquid extraction followed by LC-MS Quinoline: With reference to Liquid extraction followed by LC-MS

Borate, zinc salt: ISO 17294, USEPA 6010 C, USEPA 6020 A, HJ 700 or IS 3025 (Part 65)

Test Items	CAS no.	Reporting Limit (Textile)	Result Untreated wastewater	Unit
AEEA [2-(2-aminoethylamino) ethanol]	111-41-1	500	ND	μg/L
Bisphenol A	, , ,		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.

17. Perfluorinated and Polyfluorinated Chemicals (PFCs)

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

FTOH:With reference to BS EN 12673-1999, USEPA 8270 E or Derivatization with acetic anhydride followed by GC-MS

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

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^{**} Result in term of elemental boron / zinc (Result in term of the corresponding boron / zinc salt)

^{**} PFOA refer to its sálts 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 acidWith reference to USEPA 8270 E, ISO 18856 or Dichloromethane extraction followed by GC-MS

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



19. Polycyclic aromatic hydrocarbons (PAHs)

With reference to DIN 38407-39, USEPA 8270 E or Solvent extraction followed by GC-MS

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



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

With reference to USEPA 8270 E or Reduction step with sodium dithionite, solvent extraction followed by GC-MS and LC-MS/MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result Untreated wastewater	Unit
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 ISO 22032, USEPA 527, USEPA 8270 E, USEPA 8321 B or Dichloromethane extraction followed by GC-MS or LC-MS(-MS)

Test Items	CAS no.	Reporting Limit (Textile)	Result Untreated wastewater	Unit
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: With reference to ISO 11423-1, ISO 20595, USEPA 8260 D, Purge and Trap or Headspace followed by GC-MS m-cresol / o-cresol / p-cresol: With reference to BS EN 12637-1999, ISO 11423-1, USEPA 8270 E, Purge and Trap or Headspace followed by GC-MS

Xylene: With reference to ISO 11423-1, USEPA 8260 D, Purge and Trap or Headspace followed by GC-MS

Toluene: With reference to ISO 11423-1, USEPA 8260 D or HJ 1067

Test Items	CAS no.	Reporting Limit	Result Untreated wastewater	Unit
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

ND = Not detected

NA = Not applicable

- = Not required to be tested



SLUDGE

23. Sludge Parameters - Step 1 - Conventional

pH: USEPA 9045 D or HJ 962

% Solids: USEPA 160.3 or HJ 613 at 105°C

Paint Filter Test: USEPA SW-846 or USEPA 9095 B

Fecal Coliform: USEPA 1681

		Limit								Result	
Test Items	CAS no.	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G	Reporting Limit	Sludge	Unit
рН	-	e and		5_11	5-11	5-11	6.5-9	6.5-9	-	8.7	-
% Solids	-	e and	e and	e and	e and	e and	e and	Sampl e and Report Only	_	17.75	%
Paint Filter Test	-	e and	e and	Sampl e and Report Only	Pacc	Pass	Pass	Sampl e and Report Only		Pass	-
Fecal Coliform	-	e and	e and	e and	e and	Sampl e and Report Only	1000	1000	1000	ND	MPN/g

24. Sludge Parameters - Step 1 - Anions

Preparation: USEPA 9013

Analysis: USEPA 9014, USEPA 9213 or HJ 745

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



25. Sludge Parameters - Step 1 - Metals

Sb, As, Cr, Co, Cd, Cu, Pb, Ni, Zn: Preparation: USEPA 3050 Analysis: USEPA 6010 D, USEPA 6020 B or HJ 803

Cr VI: Preparation: USEPA 3060 A Analysis: USEPA 7196 or USEPA 7199

Ba, Se, Ag: Preparation: USEPA 3050 Analysis: USEPA 6010 D or USEPA 6020 B

Hg: Preparation: option 1: USEPA 7471 B option 2: USEPA 3051 A Analysis: option 1: USEPA 7471 B, option 2: USEPA 6020 B or GB/T 22105.1

or HJ 923

Test Items	CAS no.	Limit – Dry weigh	ıt	Reporting Limit	Result	
		Total Metals Threshold Values*	Max Total Metals limit for Pathway G		Sludge	Unit
Arsenic (As)	Various	10	75	Textile: 5 Leather 2	ND	mg/kg
Cadmium (Cd)	Various	3	85	Textile: 1 Leather 2	ND	mg/kg
Mercury (Hg)	Various	1	57	Textile: 1 Leather 0.2	ND	mg/kg
Lead (Pb)	Various	10	840	Textile: 5 Leather 2	ND	mg/kg
Antimony (Sb)	Various	12	Sample and Report Only	Textile: 5	ND	mg/kg
Cobalt (Co)	Various	1600	Sample and Report Only	Textile: 400	ND	mg/kg
Nickel (Ni)	Various	70	420	Textile: 20	ND	mg/kg
Silver (Ag)	Various	100	Sample and Report Only	Textile: 50	ND	mg/kg
Copper (Cu)	Various	200	4300	Textile: 50	913	mg/kg
Zinc (Zn)	Various	1000	7500	Textile: 400	614	mg/kg
Total Chromium (Cr)	Various	100	3000	Textile: 50	68	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	ND	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.



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

NP/OP: Preparation: With reference to USEPA 3540 / 3541 - Soxhlet or USEPA 3550 - Ultrasonic

Analysis: With reference to ISO 18857-2 or ASTM D7065

NPEO/OPEO: Preparation: With reference to USEPA 3540 / 3541 - Soxhlet or USEPA 3550 - Ultrasonic

Analysis: With reference to ISO 18254-1, ISO 18857-2 or ASTM D7065

			1	Limit – [Ory w	eight				Result	
Test Items	CAS no.	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G	Reporting Limit (Textile and Leather)	Sludge	Unit
Octylphenol (OP)	140-66-9/ 1806-26-4/ 27193-28-8		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
Octylphenolethoxylates (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
Nonylphenolethoxylates (NPEOs)	9016-45-9/26027-38- 3/ 37205-87- 1/68412-54-4/127087- 87-0	and	and	Sample and Report Only	n 4	0.4	0.4	0.4	0.4	ND	mg/kg

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

Preparation: With reference to USEPA 3540 / 3541 - Soxhlet or USEPA 3550 - Ultrasonic

Clean-up: With reference to USEPA 3640

Analysis: With reference to USEPA 8270 E or HJ 805-2016

				Limit -	- Dry w	eight				Result	
Test Items	CAS no.	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G	Reporting Limit (Textile)	Sludge	Unit
Benzo(a)pyrene (BaP)	50-32-8	Sampl e and Report Only	e and	Sampl e and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Anthracene	120-12-7	e and	e and	Sampl e and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Pyrene	129-00-0	Sampl e and Report Only	e and	Sampl e and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg

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Benzo(ghi)perylene	191-24-2	Sampl Sample and e and Report Report Only Only	e and	0.0	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(e)pyrene	192-97-2	Sampl Sample and e and Report Report Only Only	e and	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Indeno (1,2,3-cd)pyrene	193-39-5	Sampl Sample and e and Report Report Only Only	e and	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(j)fluoranthene	205-82-3	Sampl Sample and e and Report Report Only Only	e and	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(b)fluoranthene	205-99-2	Sampl Sample and e and Report Report Only Only	e and	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Fluoranthene	206-44-0	Sampl Sample and e and Report Report Only Only	e and	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(k)fluoranthene	207-08-09	Sampl Sample and e and Report Report Only Only	e and	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Acenaphthylene	208-96-8	Sampl Sample and e and Report Report Only Only	e and	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Chrysene	218-01-9	Sampl Sample and e and Report Report Only Only	e and	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Dibenz(a,h)anthracene	53-70-3	Sampl Sample and e and Report Report Only Only	e and	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(a)anthracene	56-55-3	Sampl Sample and e and Report Report Only	e and	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Acenaphthene	83-32-9	Sampl Sampl e and e and Report Report Only Only	e and t Report	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Phenanthrene	85-01-8	Sampl Sample and e and Report Report Only	Sampl e and t Report	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Fluorene	86-73-7	Sampl Sampl e and e and Report Report Only Only	Sampl e and t Report	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Naphthalene	91-20-3	Sampl Sample and Report Report Only Only	l Sampl e and t Report	0.2	0.2	0.2	0.2	0.2	ND	mg/kg



28. Sludge Parameters - Step 1 - MRSL - Chlorotoluenes

Preparation: With reference to USEPA 3540 / 3541 - Soxhlet or USEPA 3550 - Ultrasonic

Clean-up: With reference to USEPA 3640

Analysis: With reference to USEPA 8270 E or HJ 605

			L	_imit – C	Ory wei	ght				Result	
Test Items	CAS no.	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G	Reporting Limit (Textile and Leather)	Sludge	Unit
2-Chlorotoluene	95-49-8	Sample and Report Only	Sample and Report Only	e and	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	Sampl e 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	Sampl e 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	Sampl e 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		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	Sampl e and	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	Sampl e and	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	Sampl e 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	e and	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	e and Report	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		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	Sampl e and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg

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2,4,6-Trichlorotoluene	23749-65-7	Sample and Report Only	Sample and Report Only	Sampl e 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	Sampl e 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	Sampl e 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	Sampl e 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	Sampl e 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	Sampl e and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg

LEACHATE

29. Leachate Parameters - Step 2 - Metals

As, Cd, Cr, Pb, Sb, Ba, Co, Cu, Ni, Se, Ag, Zn: Leachate Extraction: USEPA 1311 or USEPA 3051 A Analysis: ISO 11885, ISO 17294-2, USEPA 200.7, USEPA 200.8, USEPA 6010 C or USEPA 6020 A

Cr (VI): Leachate Extraction: USEPA 1311 Analysis: ISO 18412, USEPA 7196 or USEPA 7199

Hg: Leachate Extraction: USEPA 1311 of USEPA 3051 A Analysis: ISO 12846, ISO 17852, USEPA 7471 B or USEPA 6020 B

				Li	mit					Result	
Test Items	CAS no.	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G	Reporting Limit	Leachate	Unit
Arsenic (As)	Various	Sample and Report Only	Sample and Report Only	5	2.75	0.5	0.5	0.5	0.005	NA	mg/L
Cadmium (Cd)	Various	Sample and Report Only	Sample and Report Only	1	0.58	0.15	0.15	0.15	0.01	NA	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	NA	mg/L
Lead (Pb)	Various	Sample and Report Only	Sample and Report Only	5	2.75	0.5	0.5	0.5	0.01	NA	mg/L
Antimony (Sb)	Various	Sample and Report Only	Sample and Report Only	15	7.8	0.6	0.6	0.6	0.01	NA	mg/L

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Cobalt (Co)	Various	Sample and Report Only	Sample and Report Only	80	80	80	80	80	0.01	NA	mg/L
Nickel (Ni)	Various	Sample and Report Only	Sample and Report Only	20	11.75	3.5	3.5	3.5	0.05	NA	mg/L
Silver (Ag)	Various	Sample and Report Only	Sample and Report Only	5	5	5	5	5	0.005	NA	mg/L
Copper (Cu)	Various	Sample and Report Only	Sample and Report Only	25	17.5	10	10	10	0.25	0.76(S)	mg/L
Zinc (Zn)	Various	Sample and Report Only	Sample and Report Only	250	150	50	50	50	0.1	NA	mg/L
Total Chromium (Cr)	Various	Sample and Report Only	Sample and Report Only	15	10	5	5	5	0.05	NA	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	NA	mg/L
Barium (Ba)	Various	Sample and Report Only	Sample and Report Only	100	67.5	35	35	35	35	NA	mg/L
Selenium (Se)	Various	Sample and Report Only	Sample and Report Only	1	0.75	0.5	0.5	0.5	0.5	NA	mg/L

Remark

ND = Not detected

NA = Not applicable

^{- =} Not required to be tested

⁽S) = The analysis was subcontracted to SGS India Private Limited, lab Reference no.1442023091 for testing.

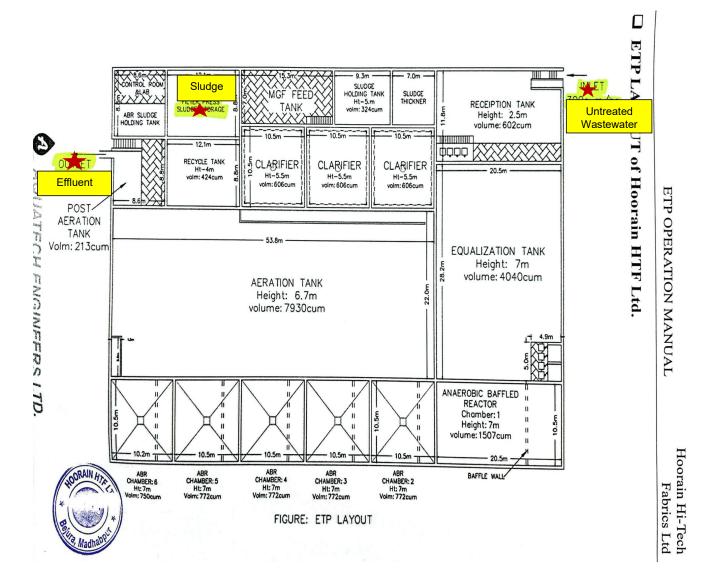


Test Report No.

DHK: TX: 2310010513

PIPING PLAN

Date: 17/05/2023



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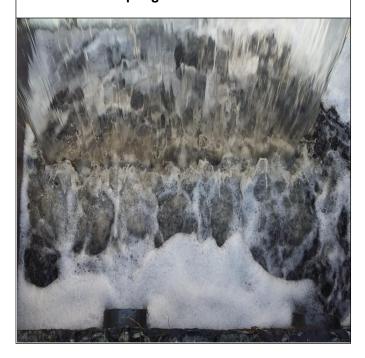


Annex A: Sampling photos & Sampling locations

PERSISTENT FOAM

Date & Time of Measurement: 02/05/2023 & 15:40

Sampling Location: Outlet





Untreated Waste Water

GPS Data: N 24°08.375' E 091°20.079'

SAMPLING LOCATION, CLOSE-UP VIEW



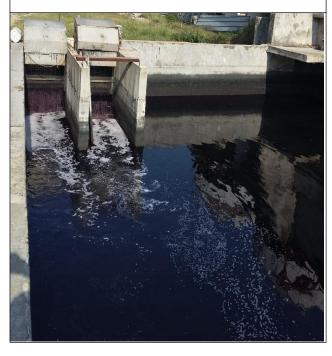
Effluent

GPS Data: N 24°08.370' E 091°20.034'

SAMPLING LOCATION, CLOSE-UP VIEW



SAMPLING LOCATION, FAR VIEW



SAMPLING LOCATION, FAR VIEW



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Sludge

GPS Data: N 24°08.372' E 091°20.042'

SAMPLING LOCATION, CLOSE-UP VIEW



SAMPLING LOCATION, FAR VIEW



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Annex B: On-site Field Data Record Sheet

				Wat	er Samp	ling Reco	ord	
Tracking no.	2305020037			Sampling Date:	02/05/2023		Client Name: HOORAIN H	TF LTD
Lab received	container tempera	ture:		pH Meter:	<u>d</u> on the same of		Therometer:	
				Water Types:	BEFORE		5.00	The state of the s
No.	Sampling No.	Locations	Time	рН	Temperature (°C)	Sample Volume (L)	Containers	Characteristic Descriptions/Remark
1	Phthalates+FR+ COC+FTOA/ FTOH	Before	19:15		2-8°C	2 L	2 (each 1 L)/Amber glass bottle with PTFE lined lid	Tarker J. Trans
2	PAHs, Glycol	Before	19:15		2-8°C	1 L	1 (each 1 L)/Amber glass bottle with PTFE lined lid	
3	Disperse Dyes	Before	19:15	1	2-8°C	3- 1L	1 (each 1 L)/Amber glass bottle with PTFE lined lid	1992
4	Chlorophenols	Before	19:15		2-8°C	Sept1 L	1 (each 1 L)/Amber glass bottle with PTFE lined lid	
5	Organotin Compounds	Before	19:16	HCI topH 2-3	2-8°C	2 L	2 (each 1 L)/Amber glass bottle with PTFE lined lid	
6	SCCP	Before	19:17		2-8°C	ของก1 L	1 (each 1 L)/Amber glass bottle with PTFE lined lid	
7	Azo Dyes	Before	19:17		2-8°C	2 L	2 (each 1 L)/Amber glass bottle with PTFE lined lid	
8	PFCs	Before	19:18		2-8°C	1 2 L	2 (each 1 L)/Amber glass bottle with PTFE lined lid	Art in the

Water Sampling Record

Tracking no. 2305020037 Sampling Date: 02/05/2023 Client Name: HOORAIN HTF LTD

Lab received container temperature: pH Meter: _____

Water Types: ___ BEFORE

No.	Sampling No.	Locations	Time	pH	Temperature (°C)	Sample Volume (L)	Containers	Characteristic Descriptions/Remarks
9	Halogenated Solvent(VOC)	Before	19:19	HCL to pH<2	2-8°C	500ml	1 (each 500ml)/Amber glass bottle with PTFE lined lid	
10	AP/APEO	Before	19:19		2-8°C	2 L	2 (each 1 ltr)/Amber glass bottle with PTFE lined lid	
11	Anti Microbial & Biocides	Before	19: 20		2-8°C	2 L	2 (each 1 ltr)/Amber glass bottle with PTFE lined lid	
12	DMFa	Before	19:20	\$ B 60	2-8°C	500ml	1 (each 500ml)/Amber glass bottle with PTFE lined lid	
13	Heavy Metals	Before	19:21	HNO3 to pH<2	2-8°C	500 ml	1 (each 500ml)/Amber glass bottle with PTFE lined lid	PLYS - VEC
14	UV Absorbers	Before	19:21	3 JAN	2-8°C	1 L	1 (each 1 ltr)/Amber glass bottle with PTFE lined lid	

Sampling by:

Checked by:

Confirmed by Client:

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SGS Water Sampling Record Sampling Date: 02/05/2023 Client Name: HOORAIN HTF LTD Tracking no. 2305020037 Lab received container temperature: pH Meter: Therometer: Water Types: AFTER Characteristic Descriptions/Remarks Temperature (°C) Sample Volume Sampling No. 18:45 7.7 (each 500ml)/Amber glass bottle with PTFE lined lid TSS & TDS After 2-8°C 500 ml 18:46 Heavy Metals After HNO3 to pH<2 2-8°C 250 ml 2 (each 250ml)/Amber glas bottle with PTFE lined lid 18:47 Cr(VI) After 250 ml 1 (each 250ml)/Amber glas bottle with PTFE lined lid Ammonium sulfate uffer to pH 9.0-9.5 1 (each 1 L)/Amber Glass bottle Heavy Metals (Murcury) 18:47 After HNO3 to pH<2 2-8°C 1 L 7.7 After 18:48 500 mi (each 500ml)/Amber glas bottle with PTFE lined lid 18:49 (each 500ml)/Amber glas bottle with PTFE lined fid 18:50 1 (each 1 L)/Amber Glass 18:51 8 Cyanide After 2-8°C 500 ml ST Plastic bottle Sampling by: Checked by: Confirmed by Client: Effective Date: 03 May, 2015

SGS

Water Sampling Record

2305020037 Sampling Date: Tracking no.

02/05/2023

Client Name: HOORAIN HTF LTD

Lab received container temperature:

pH Meter: _

Water Types:

Therometer: _

No.	Sampling No.	Locations	Time	рН	Temperature (°C)	Sample Volume (L)	Containers	Characteristic Descriptions/Remarks
9	Sulfite	After	18:52	Add 2 ml 2.5% EDTA Soln	2-8°C	500ml	2 (each 250ml)/Amber glass bottle with PTFE lined lid	
10	Chloride & Sulfate	After	18:52		2-8°C	500ml	1 (each 500ml)/Amber glass bottle with PTFE lined lid	
11	Total Phenolics	After	18:53	H2SO4 to pH<2	2-8°C	500ml	1 (each 500ml)/Amber glass bottle with PTFE lined lid	
12	Ammonium-N + Total N+ Total-P	After	18:53	H2SO4 to pH<2	2-8°C	500ml	1 (each 500ml)/Amber glass bottle with PTFE lined lid	
13	Oil & Grease	After	18:53	H2SO4 to pH<2	2-8°C	500ml	1 (each 500ml)/Amber glass bottle with PTFE lined lid	
14	Sulfide	Afterer	18:54	4 drops 2N Zinc acetate,NaOH> pH 9	2-8°C	250ml	2 (each 250ml)/Amber glass bottle with PTFE lined lid	
15	AOX	After	18:55	0.1 ml 10% sodium thiosulfate H2SO4, pH<2	2-8°C	1L	2 (each 500ml)/Amber glass bottle	

Sampling by:

Checked by:

Confirmed by Client:

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Sludge Sampling Record Sampling Date: 02/05/2023 Client Name: HOORAIN HTF LTD Tracking no. 2305020037 Sample Types: Sludge GPS Tracking info. N24°08.372 Sample Sludge Characteristic Colour (Visual) E091° 20.042 Sampling No. Time Containers No. Locations Volume Location Descriptions/Remarks (L) Dark Gre Sludge ETP 19:30 1 kg Sludge Disposal pathway If sludge not found, describe the reason The WW Guideline defines seven ZDHC Disposal Pathways, they ar e:

- ZDHC Disposal Pathway A - Offsite Incineration at >1000oC

- ZDHC Disposal Pathway B - Landfill with Significant Control Measures

- ZDHC Disposal Pathway C - Building Products Processed at >1000oC

- ZDHC Disposal Pathway D - Landfill with Limited Control Measures

- ZDHC Disposal Pathway E - Offsite Incineration and Building Products • ZDHC Disposal Pathway F - Landfills with No Control Measures • ZDHC Disposal Pathway G - Land Application Sampling by: Checked by: Confirmed by Client: property Effective Date: 03 May, 2015 02-05-23 1/1

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

LOCAL WASTEWATER DISCHARGE REQUIREMENTS BASED ON The Environment Conservation Rules, 2023 (BANGLADESH LOCAL REGULATION-SCHEDULE-5)

The Environment Conservation F	Kules, 2023			
SCHEDULE-5				
			Effluent	
Paramters	CAS No.		Value	Unit
pH Value (min.)	-	-	6.0	-
pH Value (max.)	-	-	9.0	-
Temperature	-	-	Maximum 5 °C above the temperature of the water body	°C
Biochemical Oxygen Demand (BOD5 at 20 °C)	-	<	30	mg/L
Chemical Oxygen Demand (COD)	-	<	200	mg/L
Total Suspended Solids (TSS)	-	<	100	mg/L
Total Dissolved Solid(TDS)	-	<	2100	mg/L
Sulfide	-	<	2.0	mg/L
Oil and Grease	-	<	10	mg/L
Cadmium (Cd)	7440-43-9	<	0.02	mg/L
Lead (Pb)	7439-92-1	<	0.1	mg/L
Nickel (Ni)	7440-02-0	<	1.0	mg/L
Chromium (Total Cr)	7440-47-3	<	0.5	mg/L
Cobalt (Co)	7440-48-4	<	0.5	mg/L
Phenol Compounds	-	<	1.0	mg/L