

Test Report No.
DHKSL250016612
Date: 02/03/2025

Date of sampling	23/02/2025
Reporting date	02/03/2025

Audit ID	22056	Audit firm	SGS Bangladesh Ltd.
Company name	Denimach Washing Ltd		
Contact person	Yamin Chowdury		
Type of tax - tax ID no	547812702329		
Address	Mouja : Kewa, Ward No. 05, Masterbari, Sreepur, Gazipur.		
Region state province	Sreepur		
Town city / village	Gazipur		
Zip / Post code	N/A		

Type of wastewater discharge	
Type of wastewater discharge	Direct Discharge
Description of the discharge	Discharge to Lake
[If direct discharge] Temperature of receiving water body:	29° C

Type of sludge disposal pathway	
Type of sludge disposal pathway	C

Type of treatment*	
PRELIMINARY	☒ Screening/Sieving/Grit remover (< 6 mm) ☐ Screening/Sieving/Grit remover (≥ 6 mm) ☒ Homogenization tank ☒ pH correction ☐ Other (please specify):
PRIMARY	☐ Coagulation/Flocculation ☐ Dissolved air flotation (DAF) ☐ Sedimentation tanks or Settler/Clarifier ☐ Other (please specify):
SECONDARY/BIOLOGICAL	☒ Activated sludge process. Aerobic reactor ☐ Biological biofilm reactor (MBBR, SAF, RBC...) ☐ Sequencing batch reactor (SBR) ☒ Other (please specify): Biological with MBR technology
TERTIARY	☐ Absorption with activated carbon ☒ High rate filtration ☐ Techniques (Ozone, Fenton reaction, Photo catalytic degradation...) ☐ Other (please specify):

*The information has been provided by the factory.

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Sampler accreditation certification number (ZDHC):		ZDHC-A-25-E-C001068-R4CE2-5938D	
Sampling affiliate		SGS Bangladesh Ltd.	
Sample description			
	Simple	Composite	Comments
(1) Untreated wastewater	NO	YES, Blue, composite sample at 11:00,12:00,13:00,14:00,15:00, 16:00	NA
(2) Effluent	NO	YES, Transparent, composite sample at 10:00,11:00,12:00,13:00,14:00, 15:00,	NA
(3) Sludge	YES, Grey, grab sample at 15:20	NO	NA
(4) Leachate	NA	NA	NA

Internal description - Final Test Report	
Testing laboratory	SGS Bangladesh Ltd.
Internal codification number (report number)	DHKSL250016612
Reference sample number (sample ID)	Untreated wastewater, Effluent, Sludge
Received on	23/02/2025
Analysis carried out from	23/02/2025 to 02/03/2025
Arrival temperature at lab	5° C
Comments	Samples received within 04:50 hours

Remarks

Sample received temperature is greater than 8°C and less than 10°C when received from the laboratory.

Sign for and on behalf of
SGS Bangladesh Ltd



RAFIQUL ISLAM

Chemical Lab Manager

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

Sludge disposal pathway	
Comply sludge disposal pathway	Yes

Remark (indicated in each parameter)

ND = Not detected (< ZDHC requirements)

D = Detected (≥ ZDHC requirements)

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Test results

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Wastewater
1. Conventional Parameters and Anions

Test item	Test Method	Limit			Reporting limit	Result	Unit
		Foundational	Progressive	Aspirational		Effluent	
pH	APHA 4500H+B	Textiles and Leather: 6-9			NA	7.8(f)	-
Temperature Difference	APHA 2550	Textiles and Leather: Δ+15	Textiles and Leather: Δ+10	Textiles and Leather: Δ+5	NA	2(f)	°C
E. Coli	APHA 9221B & APHA 9221G	Textiles and Leather: 126			126	ND	MPN/100mL
Colour (436nm; 525nm; 620nm)	ISO 7887 B	Textiles and Leather: 7;5;3	Textiles and Leather: 5;3;2	Textiles and Leather: 2;1;1	2;1;1	ND;ND;ND	m ⁻¹
Persistent Foam	-	Textiles and Leather: Absent			NA	Absent (f)	-
Wastewater Flow Rate	-	-			NA	3564(f)	m ³ /day
Ammonium-Nitrogen	APHA 4500 NH3 F	Textiles: 10 Leather: 15	Textiles: 1 Leather: 10	Textiles: 0.5 Leather: 1	0.5	ND	mg/L
AOX	ISO 9562	Textiles and Leather: 3	Textiles and Leather: 0.5	Textiles and Leather: 0.1	0.1	ND	mg/L
Biochemical Oxygen Demand 5-days Concentration (BOD ₅)	APHA 5210 B	Textiles: 30 Leather: 50	Textiles: 15 Leather: 30	Textiles: 8 Leather: 20	8	ND	mg/L
Chemical Oxygen Demand (COD)	APHA 5220 D	Textiles: 150 Leather: 250	Textiles: 80 Leather: 150	Textiles: 40 Leather: 100	40	ND	mg/L
Dissolved Oxygen (DO)	APHA 4500-O-G	Textiles and Leather: ≥4			4	6(f)	mg/L
Oil and Grease	APHA 5520-B/C	Textiles: 10 Leather: 20	Textiles: 2 Leather: 10	Textiles: 0.5 Leather: 5	0.5	ND	mg/L
Total Phenols / Phenol Index	APHA 5530-B	Textiles: 0.5 Leather: 0.5	Textiles: 0.01 Leather: 0.3	Textiles: 0.001 Leather: 0.1	0.001	ND	mg/L
Total Chlorine	APHA 4500-Cl-G	Textiles and Leather: 1			1	ND (f)	mg/L
Total Dissolved Solids (TDS)	APHA 2540-C	Textiles and Leather: Sample and Report Only			50	568	mg/L

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Total Nitrogen	APHA 4500-N B/C	Textiles: 20 Leather: 35	Textiles: 10 Leather: 20	Textiles: 5 Leather: 10	5	ND	mg/L
Total Phosphorus	APHA 4500P-J	Textiles: 3 Leather: 3	Textiles: 0.5 Leather: 1	Textiles: 0.1 Leather: 0.5	0.1	ND	mg/L
Total Suspended Solids (TSS)	APHA 2540D	Textiles: 50 Leather: 70	Textiles: 15 Leather: 50	Textiles: 5 Leather: 20	5	6	mg/L
Chloride	APHA 4500-Cl D	Textiles and Leather: Sample and Report Only			1	98	mg/L
Cyanide, Total	APHA 4500-CN-E	Textiles: 0.2	Textiles: 0.1	Textiles: 0.05	0.05	ND	mg/L
Sulfate	APHA 4500-SO4 E	Textiles and Leather: Sample and Report Only			5	30	mg/L
Sulfide	APHA 4500-S2-D	Textiles: 0.5 Leather: 1	Textiles: 0.05 Leather: 0.5	Textiles: 0.01 Leather: 0.2	0.01	ND	mg/L
Sulfite	APHA 4500-SO32-C	Textiles and Leather: 2	Textiles and Leather: 0.5	Textiles and Leather: 0.2	0.2	ND	mg/L

Remark

ND = Not detected (< Reporting limit)

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(f) = Parameter tested in field

(S) = The analysis was performed by a subcontracted laboratory assessed as competent

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2. Heavy Metals

Cr (VI): ISO 18412:2005

Ba, Se, Sn: USEPA 200.8, USEPA 6010 C, USEPA 6020 A

Sb, As, Cr, Co: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A

Cd: USEPA 200.8, USEPA 6010 C, USEPA 6020 A,

Cu: USEPA 200.8, USEPA 6010 C, USEPA 6020 A,

Pb: USEPA 200.8, USEPA 6010 C, USEPA 6020 A,

Ni: USEPA 200.8, USEPA 6010 C, USEPA 6020 A,

Ag: USEPA 200.8, USEPA 6010 C, USEPA 6020 A,

Zn: USEPA 200.8, USEPA 6010 C, USEPA 6020 A,

Hg: EPA 200.8, EPA 6020A

B: USEPA 200.8, USEPA 6010C, USEPA 6020A

Test item	CAS no.	Limit			Reporting limit	Result	Unit
		Foundational	Progressive	Aspirational		Effluent	
Antimony (Sb)	-	Textiles and Leather: 0.1	Textiles and Leather: 0.05	Textiles and Leather: 0.01	0.01	ND	mg/L
Chromium VI (Cr VI)	-	Textiles: 0.05 Leather: 0.15	Textiles: 0.005 Leather: 0.05	Textiles: 0.001 Leather: 0.02	0.001	ND	mg/L
Barium (Ba)	-	Textiles and Leather: Sample and Report Only			35	ND	mg/L
Selenium (Se)	-	Textiles and Leather: Sample and Report Only			0.5	ND	mg/L
Tin (Sn)	-	Textiles and Leather: Sample and Report Only			0.1	ND	mg/L
Arsenic (As)	-	Textiles and Leather: 0.05	Textiles and Leather: 0.01	Textiles and Leather: 0.005	0.005	ND	mg/L
Chromium (Cr), Total	-	Textiles: 0.2 Leather: 1.5	Textiles: 0.1 Leather: 0.8	Textiles: 0.05 Leather: 0.3	0.05	ND	mg/L
Cobalt (Co)	-	Textiles and Leather: 0.05	Textiles and Leather: 0.02	Textiles and Leather: 0.01	0.01	ND	mg/L
Cadmium (Cd)	-	Textiles and Leather: 0.1	Textiles and Leather: 0.05	Textiles and Leather: 0.01	0.01	ND	mg/L
Copper (Cu)	-	Textiles and Leather: 1	Textiles and Leather: 0.5	Textiles and Leather: 0.25	0.25	ND	mg/L
Lead (Pb)	-	Textiles and Leather: 0.1	Textiles and Leather: 0.05	Textiles and Leather: 0.01	0.01	ND	mg/L
Nickel (Ni)	-	Textiles and Leather: 0.2	Textiles and Leather: 0.1	Textiles and Leather: 0.05	0.05	ND	mg/L
Silver (Ag)	-	Textiles and Leather: 0.1	Textiles and Leather: 0.05	Textiles and Leather: 0.005	0.005	ND	mg/L
Zinc (Zn)	-	Textiles and Leather: 5	Textiles and Leather: 1	Textiles and Leather: 0.5	0.1	ND	mg/L
Mercury (Hg)	-	Textiles and Leather: 0.01	Textiles and Leather: 0.005	Textiles and Leather: 0.001	0.001	ND	mg/L

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

NP/OP: With reference to ISO 18254-1, ISO 18857-2 Followed by LC/MS & GCMS analysis.

NPEO / OPEO: With reference to ISO 18254-1, ISO 18857-2 Followed by LC/MS & GCMS analysis

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

Remark

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4. Antimicrobials and Biocides

o-Phenylphenol (+salts): Solvent extraction & derivatization with BSTFA+TMCS followed by GC/MS analysis.

Triclosan: Solvent extraction & derivatization with BSTFA+TMCS followed by GC/MS analysis.

Permethrin: Solvent extraction & derivatization with BSTFA+TMCS followed by GC/MS analysis.

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

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5. Chlorinated Paraffins

MCCPs: Preparation: EPA 3510.

Analysis: ISO18219-2:2021 Method for MCCP with GC-MS(NCI) or LC-MS/MS.

SCCPs: Preparation EPA 3510.

Analysis: ISO18219-1:2021, ISO 12010:2019 Methods for SCCP with GC-MS(NCI) or LC-MS/MS

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

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6. Chlorobenzenes and Chlorotoluenes

Test Method: With reference to USEPA 8260B, USEPA 8270D, Dichloromethane extraction followed by GC/MS analysis.

Test item	CAS no.	Reporting limit	Result	Unit
			Untreated Wastewater	
1,2-Dichlorobenzene	95-50-1	Textiles and Leather: 0.2	ND	µg/L
Monochlorobenzene	108-90-7	Textiles and Leather: 0.2	ND	µg/L
1,3-Dichlorobenzene	541-73-1	Textiles and Leather: 0.2	ND	µg/L
1,4-Dichlorobenzene	106-46-7	Textiles and Leather: 0.2	ND	µg/L
1,2,3-Trichlorobenzene	87-61-6	Textiles and Leather: 0.2	ND	µg/L
1,2,4-Trichlorobenzene	120-82-1	Textiles and Leather: 0.2	ND	µg/L
1,3,5-Trichlorobenzene	108-70-3	Textiles and Leather: 0.2	ND	µg/L
1,2,3,4-Tetrachlorobenzene	634-66-2	Textiles and Leather: 0.2	ND	µg/L
1,2,3,5-Tetrachlorobenzene	634-90-2	Textiles and Leather: 0.2	ND	µg/L
1,2,4,5-Tetrachlorobenzene	95-94-3	Textiles and Leather: 0.2	ND	µg/L
Pentachlorobenzene	608-93-5	Textiles and Leather: 0.2	ND	µg/L
Hexachlorobenzene	118-74-1	Textiles and Leather: 0.2	ND	µg/L
2-Chlorotoluene	95-49-8	Textiles and Leather: 0.2	ND	µg/L
3-Chlorotoluene	108-41-8	Textiles and Leather: 0.2	ND	µg/L
4-Chlorotoluene	106-43-4	Textiles and Leather: 0.2	ND	µg/L
2,3-Dichlorotoluene	32768-54-0	Textiles and Leather: 0.2	ND	µg/L
2,4-Dichlorotoluene	95-73-8	Textiles and Leather: 0.2	ND	µg/L
2,5-Dichlorotoluene	19398-61-9	Textiles and Leather: 0.2	ND	µg/L
2,6-Dichlorotoluene	118-69-4	Textiles and Leather: 0.2	ND	µg/L
3,4-Dichlorotoluene	95-75-0	Textiles and Leather: 0.2	ND	µg/L
3,5-Dichlorotoluene	25186-47-4	Textiles and Leather: 0.2	ND	µg/L
2,3,4-Trichlorotoluene	7359-72-0	Textiles and Leather: 0.2	ND	µg/L
2,3,6-Trichlorotoluene	2077-46-5	Textiles and Leather: 0.2	ND	µg/L
2,4,5-Trichlorotoluene	6639-30-1	Textiles and Leather: 0.2	ND	µg/L
2,4,6-Trichlorotoluene	23749-65-7	Textiles and Leather: 0.2	ND	µg/L
3,4,5-Trichlorotoluene	21472-86-6	Textiles and Leather: 0.2	ND	µg/L
2,3,4,5-Tetrachlorotoluene	1006-32-2	Textiles and Leather: 0.2	ND	µg/L
2,3,4,6-Tetrachlorotoluene	875-40-1	Textiles and Leather: 0.2	ND	µg/L
2,3,5,6-Tetrachlorotoluene	1006-31-1	Textiles and Leather: 0.2	ND	µg/L
Pentachlorotoluene	877-11-2	Textiles and Leather: 0.2	ND	µg/L

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7. Chlorophenols

Test Method: With reference to USEPA 8270E, Solvent extraction and derivatization with KOH, acetic anhydride followed by GC/MS analysis.

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

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Test Report No.
DHKSL250016612
Date: 02/03/2025
Remark

1 µg/L = 0.001 ppm
 ND = Not detected (< Reporting limit)
 NA = Not applicable
 NC = Not conducted
 - = Not required to be tested
 (S) = The analysis was performed by a subcontracted laboratory assessed as competent
 # = Non accredited parameter
 @ = Maximum holding time exceed

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

Test Method: With reference to EPA 8015, EPA 3535A, (Solid-phase Extraction followed by GC-MS analysis)

Test item	CAS no.	Reporting limit	Result	Unit
			Untreated Wastewater	
Dimethyl formamide; N,N-Dimethylformamide (DMFa)	68-12-2	Textiles: 1000 Leather: Sample and Report Only	ND	µg/L

Remark

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 ND = Not detected (<Reporting limit)
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9. Dyes - Carcinogenic or Equivalent Concern

Test Method: With reference to Liquid extraction followed by HPLC-MSD-DAD analysis.

Test item	CAS no.	Reporting limit	Result	Unit
			Untreated Wastewater	
Basic violet 3 with >0.1% of Michler's Ketone	548-62-9	Textiles and Leather: 500	ND	µg/L
C.I. Acid Red 26	3761-53-3	Textiles and Leather: 500	ND	µg/L
C.I. Acid Violet 49	1694-09-3	Textiles and Leather: 500	ND	µg/L
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	Textiles and Leather: 500	ND	µg/L
C.I. Basic Green 4 (Malachite Green Chloride)^	569-64-2	Textiles and Leather: 500	ND	µg/L
C.I. Basic Green 4 (Malachite Green Oxalate)^	2437-29-8	Textiles and Leather: 500	ND	µg/L
C.I. Basic Green 4 (Malachite Green)	10309-95-2	Textiles and Leather: 500	ND	µg/L
C.I. Basic Red 9	569-61-9	Textiles and Leather: 500	ND	µg/L
C.I. Basic Violet 14	632-99-5	Textiles and Leather: 500	ND	µg/L
C.I. Direct Black 38	1937-37-7	Textiles and Leather: 500	ND	µg/L

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C.I. Direct Blue 6	2602-46-2	Textiles and Leather: 500	ND	µg/L
C.I. Direct Red 28	573-58-0	Textiles and Leather: 500	ND	µg/L
C.I. Disperse Blue 1	2475-45-8	Textiles and Leather: 500	ND	µg/L
C.I. Disperse Blue 3	2475-46-9	Textiles and Leather: 500	ND	µg/L
Disperse Orange 11	82-28-0	Textiles and Leather: 500	ND	µg/L

Remark

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NC = Not conducted

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= Non accredited parameter

@ = Maximum holding time exceed

^ = The test result is based on the calculation of selected element(s) and to the worst-case scenario

10. Dyes - Disperse (Allergenic)

Test Method: With reference to Liquid extraction followed by HPLC-MSD-DAD analysis.

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

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Disperse Yellow 39	12236-29-2	Textiles: 50	ND	µg/L
Disperse Yellow 49	54824-37-2	Textiles: 50	ND	µg/L
Disperse Yellow 9	6373-73-5	Textiles: 50	ND	µg/L

Remark

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11. Flame Retardants

Boric acid, Diboron trioxide, Disodium octaborate, Disodium tetraborate, anhydrous, Tetraboron disodium heptaoxide, hydrate:
 Others: With references to USEPA 527, USEPA 8270E, USEPA 8321B, Solvent extraction followed by GC/MS analysis.

Test item	CAS no.	Reporting limit	Result	Unit
			Untreated Wastewater	
Boric acid	10043-35-3 / 11113-50-1	Textiles and Leather: 500*	ND (ND)**	µg/L
Diboron trioxide	1303-86-2	Textiles and Leather: 500*	ND (ND)**	µg/L
Disodium octaborate	12008-41-2	Textiles and Leather: 500*	ND (ND)**	µg/L
Disodium tetraborate, anhydrous	1303-96-4 / 1330-43-4	Textiles and Leather: 500*	ND (ND)**	µg/L
Tetraboron disodium heptaoxide, hydrate	12267-73-1	Textiles and Leather: 500*	ND (ND)**	µg/L
Hexabromocyclodecane (HBCDD)	3194-55-6	Textiles and Leather: 25	ND	µg/L
2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	Textiles and Leather: 25	ND	µg/L
Polybromobiphenyls (PBB)	59536-65-1	Textiles and Leather: 25	ND	µg/L
Monobromobiphenyls (MonoBB)	Multiple	Textiles and Leather: 25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Multiple	Textiles and Leather: 25	ND	µg/L
Dibromobiphenyls (DiBB)	Multiple	Textiles and Leather: 25	ND	µg/L
Dibromopropylether	21850-44-2	Textiles and Leather: 25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Multiple	Textiles and Leather: 25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	Textiles and Leather: 25	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	Textiles and Leather: 25	ND	µg/L

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Hexabromodiphenyl ether (HexaBDE)	36483-60-0	Textiles and Leather: 25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	Textiles and Leather: 25	ND	µg/L
Octabromobiphenyls (OctaBB)	Multiple	Textiles and Leather: 25	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	Textiles and Leather: 25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Multiple	Textiles and Leather: 25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	Textiles and Leather: 25	ND	µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	Textiles and Leather: 25	ND	µg/L
Decabromodiphenyl ether (DecaBDE)	1163-19-5	Textiles and Leather: 25	ND	µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	Textiles and Leather: 25	ND	µg/L
Bis(2,3-dibromopropyl) phosphate (BDBPP)	5412-25-9	Textiles and Leather: 25	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	Textiles and Leather: 25	ND	µg/L
Tris(1-aziridinyl) phosphine oxide (TEPA)	545-55-1	Textiles and Leather: 25	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	Textiles and Leather: 25	ND	µg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	Textiles and Leather: 25	ND	µg/L
Tris(2,3-dibromopropyl)-phosphate (TRIS)	126-72-7	Textiles and Leather: 25	ND	µg/L

Remark

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NA = Not applicable

NC = Not conducted

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(S) = The analysis was performed by a subcontracted laboratory assessed as competent

= Non accredited parameter

@ = Maximum holding time exceed

* = 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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Test Report No.
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Date: 02/03/2025
12. Glycols / Glycol Ethers

Test Method: With reference to USEPA 8270E, Solvent extraction followed by GC/MS analysis.

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

Remark

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Date: 02/03/2025
13. Halogenated Solvents

Halogenated Solvents: With reference to USEPA 8260D, Head-space & Solvent extraction followed by GC/MS analysis.

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

Remark

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ND = Not detected (< Reporting limit)

NA = Not applicable

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14. Organotin Compounds

Test Method: With reference to ISO 17353 and followed by GC/MS analysis

Test item	CAS no.	Reporting limit	Result	Unit
			Untreated Wastewater	
Dipropyltin Compounds (DPT)	Multiple including: 867-36-7	Textiles and Leather: 0.01	ND	µg/L
Mono-, di- and tri-butyltin derivatives	Multiple including: 1118-46-3, 1461-22-9	Textiles and Leather: 0.01	ND	µg/L
Monobutyltin (MBT)		Textiles and Leather: 0.01	ND	µg/L
Dibutyltin (DBT)		Textiles and Leather: 0.01	ND	µg/L
Tributyltin (TBT)		Textiles and Leather: 0.01	ND	µg/L
Mono-, di- and tri-methyltin derivatives		Textiles and Leather: 0.01	ND	µg/L
Monomethyltin (MMT)	Multiple including: 993-16-8, 753-73-1, 1066-45-1	Textiles and Leather: 0.01	ND	µg/L
Dimethyltin (DMT)		Textiles and Leather: 0.01	ND	µg/L
Trimethyltin (TMT)		Textiles and Leather: 0.01	ND	µg/L
Mono-, di- and tri-octyltin derivatives		Textiles and Leather: 0.01	ND	µg/L
Monooctyltin (MOT)	Multiple including: 3091-25-6, 3542-36-7,	Textiles and Leather: 0.01	ND	µg/L

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Diocetyltn (DOT)	2587-76-0	Textiles and Leather: 0.01	ND	µg/L
Triocetyltn (TOT)		Textiles and Leather: 0.01	ND	µg/L
Mono-, di- and tri-phenyltn derivatives	Multiple including: 1124-19-2, 1135-99-5, 639-58-7	Textiles and Leather: 0.01	ND	µg/L
Monophenyltn (MPHT)		Textiles and Leather: 0.01	ND	µg/L
Diphenyltn (DPhT)		Textiles and Leather: 0.01	ND	µg/L
Triphenyltn (TPHT)		Textiles and Leather: 0.01	ND	µg/L
Tetrabutyltn Compounds (TeBT)	Multiple including: 1461-25-2	Textiles and Leather: 0.01	ND	µg/L
Tetraethyltn Compounds (TeET)	Multiple including: 597-64-8	Textiles and Leather: 0.01	ND	µg/L
Tetraoctyltn Compounds (TeOT)	Multiple including: 3590-84-9	Textiles and Leather: 0.01	ND	µg/L
Tricyclohexyltn (TCyHT)	Multiple including: 3091-32-5	Textiles and Leather: 0.01	ND	µg/L
Tripropyltn Compounds (TPT)	Multiple including: 2279-76-7	Textiles and Leather: 0.01	ND	µg/L

Remark

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15. Other / Miscellaneous Chemicals

AEEA [2-(2-aminoethylamino) ethanol]: With reference to Liquid extraction followed by LCMS/LCMS-MS analysis.
 Bisphenol A: With reference to Solvent extraction & derivatization with BSTFA+TMCS followed by GC/MS analysis.
 Thiourea: With reference to Liquid extraction followed by LCMS/LCMS-MS analysis
 Quinoline: With reference to Liquid extraction followed by LCMS/LCMS-MS analysis
 Borate, zinc salt: With reference to USEPA 200.8,USEPA 6010C,USEPA 6020A

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

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 # = Non accredited parameter
 @ = Maximum holding time exceed
 * = 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)

16. Perfluorinated and Polyfluorinated Chemicals (PFCs)

Ionic PFAS: With reference to EPA 537:2020 and followed by LC-MSMS/LCMS analysis.

Non-ionic PFAS (FTA/FTOH): Solvent extraction & derivatisation with acetic anhydride followed by GC/MS analysis.

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

Remark

1 µg/L = 0.001 ppm

ND = Not detected (< Reporting limit)

NA = Not applicable

NC = Not conducted

- = Not required to be tested

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= Non accredited parameter

@ = Maximum holding time exceed

 * = PFOS refer to its salts/derivative including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3) and POSF (CAS No.: 307-35-7)

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

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

Test Method: With reference to USEPA 8270E, ISO 18856, Solvent extraction followed by GC/MS analysis.

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

Remark

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18. Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to USEPA 8270E, Solvent extraction followed by GC/MS analysis.

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

Remark

1 µg/L = 0.001 ppm

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19. Restricted Aromatic Amines (Cleavable from Azo-Colourants)

Test Method: With reference to With reference to EN 14362-1 & 3 and Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC-DAD analysis.

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

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Remark

1 µg/L = 0.001 ppm

ND = Not detected (< Reporting limit)

NA = Not applicable

NC = Not conducted

- = Not required to be tested

(S) = The analysis was performed by a subcontracted laboratory assessed as competent

= Non accredited parameter

@ = Maximum holding time exceed

* = The amine was detected according to ISO 14362-1:2017 with the reducing agent. A similar result was obtained from the procedure carried out without the reducing agent. According to ISO 14362-1:2017 Annex C.2.1.2.2, the amine originated from a source other than azo colorants

= The amine was detected according to ISO 14362-1:2017 with the reducing agent. Confirmation procedure was carried out without reducing agent, according to ISO 14362-1:2017 Annex C.2.1.2.2, the amine originated from azo colorants

^ = The test result is based on the calculation of selected element(s) and to the worst-case scenario

20. UV Absorbers

Test Method: With reference to Dichloromethane extraction followed by GCMS analysis.

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

Remark

1 µg/L = 0.001 ppm

ND = Not detected (< Reporting limit)

NA = Not applicable

NC = Not conducted

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= Non accredited parameter

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21. Volatile Organic Compounds (VOC)

Benzene: With reference to USEPA 8260D, Head-space & Solvent extraction followed by GC/MS analysis.

m-cresol / o-cresol / p-cresol: With reference to USEPA 8260D, Head-space & Solvent extraction followed by GC/MS analysis

Xylene: With reference to USEPA 8260D, Head-space & Solvent extraction followed by GC/MS analysis

Toluene: With reference to USEPA 8260D, Head-space & Solvent extraction followed by GC/MS analysis

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

Remark

1 µg/L = 0.001 ppm

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SLUDGE
22. Sludge Parameters - Step 1 - Conventional

pH: EPA SW 9045D

% Solids: EPA 160.3

Paint Filter Test: EPA 9095 B

Fecal Coliform: EPA 1681

Test item	CAS no.	Limit							Reporting limit	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
pH	-	NA	NA	NA	5-11	5-11	6.5-9	6.5-9	-	NA	s.u.
Faecal Coliform	-	NA	NA	NA	NA	NA	<1000	<1000	Textiles and Leather: 1000	NA	MPN/g
% 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	-	29.01	%
Paint Filter Test	-	NA	NA	NA	Pass	Pass	Pass	Pass	-	NA	-

Remark

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Test Report No.
DHKSL250016612
Date: 02/03/2025
23. Sludge Parameters - Step 1 - Anions

Analysis: EPA 9014

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

Remark

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NA = Not applicable

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24. Sludge Parameters - Step 1 - Metals

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

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

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

Hg: Preparation: option 1: USEPA 7471 B option 2: USEPA 3051 A Analysis: EPA 3050, EPA 6010D, EPA 6020B

Test item	CAS no.	Limit - Dry weight		Reporting limit	Result	Unit
		Total metals threshold values*	Max total metals limits for Pathway G		Sludge	
Antimony (Sb)	-	12	NA	Textiles: 5	NA	mg/kg
Arsenic (As)	-	10	41	Textiles: 5 Leather: 2	NA	mg/kg
Barium (Ba)	-	700	N/A	Textiles: 200	NA	mg/kg
Cadmium (Cd)	-	3	39	Textiles: 1 Leather: 2	NA	mg/kg
Cobalt (Co)	-	1600	NA	Textiles: 400	NA	mg/kg
Copper (Cu)	-	200	1500	Textiles: 50	NA	mg/kg
Lead (Pb)	-	10	400	Textiles: 5 Leather: 2	NA	mg/kg
Nickel (Ni)	-	70	420	Textiles: 20	NA	mg/kg
Selenium (Se)	-	10	36	Textiles: 5	NA	mg/kg
Silver (Ag)	-	100	NA	Textiles: 50	NA	mg/kg
Zinc (Zn)	-	1000	2800	Textiles: 400	NA	mg/kg

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Test Report No.
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Date: 02/03/2025

Total Chromium (Cr)	-	100	1200	Textiles: 50	NA	mg/kg
Chromium VI (Cr VI)	-	50	50	Textiles: 20 Leather: 2	NA	mg/kg
Mercury (Hg)	-	1	17	Textiles: 1 Leather: 0.2	NA	mg/kg

Remark

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

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

NP/OP: With reference to ISO 18254-1, ISO 18857-2 Followed by LC/MS & GCMS analysis

NPEO/OPEO: With reference to ISO 18254-1, ISO 18857-2 Followed by LC/MS & GCMS analysis

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

Remark

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

With reference USEPA 8270E, Solvent extraction followed by GC/MS analysis

Test items	CAS no.	Limit - Dry weight							Reporting limit	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
Acenaphthene	83-32-9	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Acenaphthylene	208-96-8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Anthracene	120-12-7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Benzo(a)anthracene	56-55-3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Benzo(a)pyrene	50-32-8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Benzo(b)fluoranthene	205-99-2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Benzo(e)pyrene	192-97-2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Benzo(ghi)perylene	191-24-2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Benzo(j)fluoranthene	205-82-3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Benzo(k)fluoranthene	207-08-09	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Chrysene	218-01-9	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Dibenz(a,h)anthracene	53-70-3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Fluoranthene	206-44-0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Fluorene	86-73-7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Indeno (1,2,3-cd)pyrene	193-39-5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Naphthalene	91-20-3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Phenanthrene	85-01-8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Pyrene	129-00-0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg

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Test Report No.
DHKSL250016612
Date: 02/03/2025
Remark

ND = Not detected (< Reporting limit)
 NA = Not applicable
 NC = Not conducted
 - = Not required to be tested
 (S) = The analysis was performed by a subcontracted laboratory assessed as competent
 # = Non accredited parameter
 @ = Maximum holding time exceed

27. Sludge Parameters - Step 1 - MRSL - Chlorotoluenes

Test Method: With reference to USEPA 8260B, USEPA 8270D, Dichloromethane extraction followed by GC/MS analysis.

Test items	CAS no.	Limit - Dry weight							Reporting limit	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
2-Chlorotoluene	95-49-8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
3-Chlorotoluene	108-41-8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
4-Chlorotoluene	106-43-4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
2,3-Dichlorotoluene	32768-54-0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
2,4-Dichlorotoluene	95-73-8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
2,5-Dichlorotoluene	19398-61-9	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
2,6-Dichlorotoluene	118-69-4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
3,4-Dichlorotoluene	95-75-0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
3,5-Dichlorotoluene	25186-47-4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
2,3,4-Trichlorotoluene	7359-72-0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
2,3,6-Trichlorotoluene	2077-46-5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
2,4,5-Trichlorotoluene	6639-30-1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
2,4,6-Trichlorotoluene	23749-65-7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
3,4,5-Trichlorotoluene	21472-86-6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
2,3,4,5-Tetrachlorotoluene	1006-32-2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg

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Test Report No.

DHKSL250016612

Date: 02/03/2025

2,3,5,6-Tetrachlorotoluene	1006-31-1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg
Pentachlorotoluene	877-11-2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg

Remark

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- = Not required to be tested

(S) = The analysis was performed by a subcontracted laboratory assessed as competent

= Non accredited parameter

@ = Maximum holding time exceed

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LEACHATE
28. 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

Test item	CAS no.	Limit							Reporting Limit	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Leachate	
Antimony (Sb)	-	NA	NA	NA	7.8	0.6	0.6	0.6	0.01	NA	mg/L
Arsenic (As)	-	NA	NA	NA	2.75	0.5	0.5	0.5	0.005	NA	mg/L
Barium (Ba)	-	NA	NA	NA	67.5	35	35	35	35	NA	mg/L
Cadmium (Cd)	-	NA	NA	NA	0.58	0.15	0.15	0.15	0.01	NA	mg/L
Cobalt (Co)	-	NA	NA	NA	80	80	80	80	0.01	NA	mg/L
Copper (Cu)	-	NA	NA	NA	17.5	10	10	10	0.25	NA	mg/L
Lead (Pb)	-	NA	NA	NA	2.75	0.5	0.5	0.5	0.01	NA	mg/L
Nickel (Ni)	-	NA	NA	NA	11.75	3.5	3.5	3.5	0.05	NA	mg/L
Selenium (Se)	-	NA	NA	NA	0.75	0.5	0.5	0.5	0.5	NA	mg/L
Silver (Ag)	-	NA	NA	NA	5	5	5	5	0.005	NA	mg/L
Zinc (Zn)	-	NA	NA	NA	50	50	50	50	0.1	NA	mg/L
Total Chromium (Cr)	-	NA	NA	NA	5	5	5	5	0.05	NA	mg/L
Chromium VI (Cr VI)	-	NA	NA	NA	3.75	2.5	2.5	2.5	0.001	NA	mg/L
Mercury (Hg)	-	NA	NA	NA	0.125	0.05	0.05	0.05	0.001	NA	mg/L

Remark

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NA = Not applicable

NC = Not conducted

- = Not required to be tested

(S) = The analysis was performed by a subcontracted laboratory assessed as competent

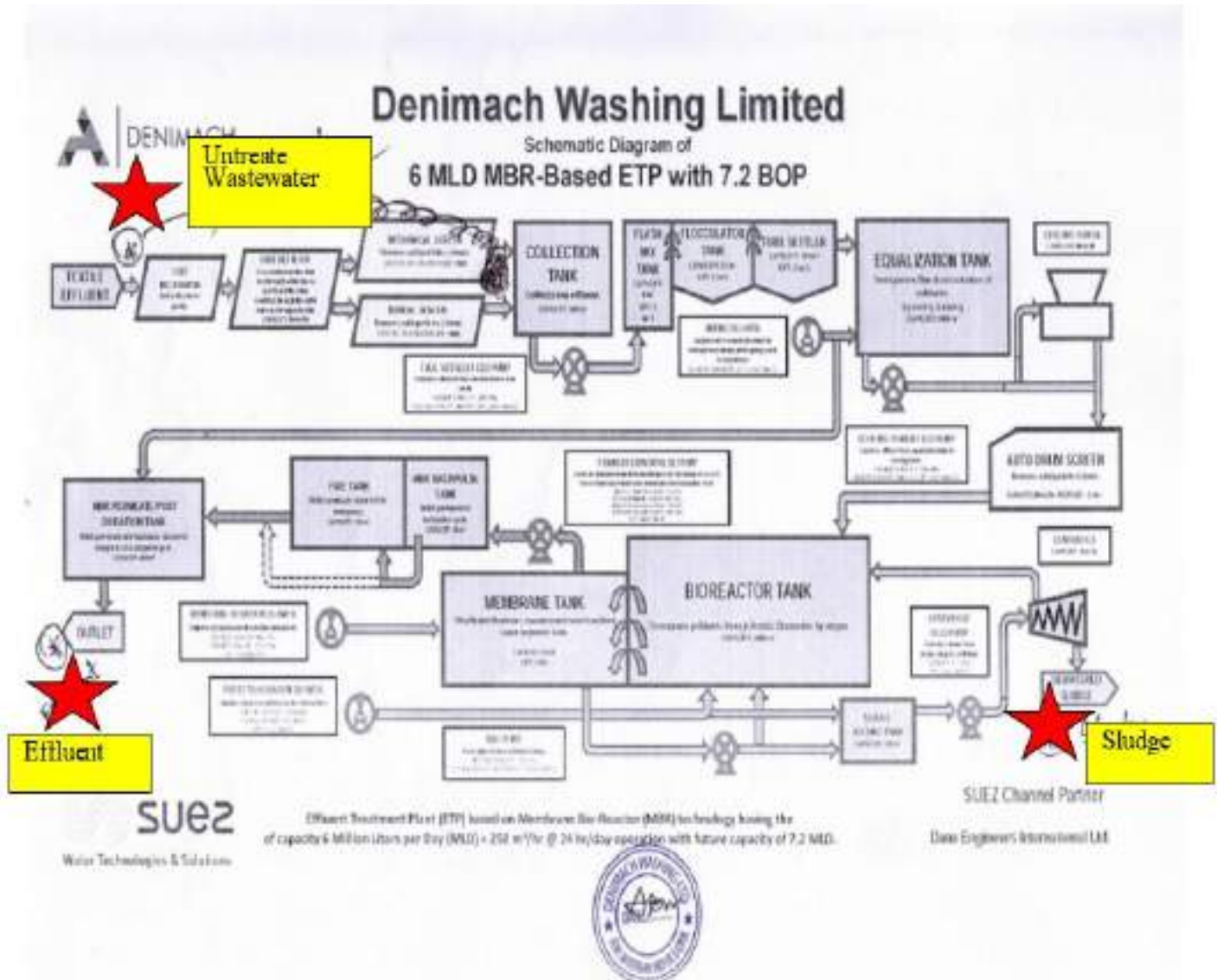
= Non accredited parameter

@ = Maximum holding time exceed

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PIPING PLAN



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Annex A: Sampling photos & Sampling locations

PERSISTENT FOAM
Date & Time of Measurement: 23/02/2025;10:00
Sampling Location: Outlet


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Untreated Waste Water

GPS Data: N 24.1861612 E 90.43086

SAMPLING LOCATION, CLOSE-UP VIEW



Effluent

GPS Data: N 24.1858433 E 90.4308517

SAMPLING LOCATION, CLOSE-UP VIEW



SAMPLING LOCATION, FAR VIEW



SAMPLING LOCATION, FAR VIEW



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Sludge

GPS Data: N 24.1846417 E 90.4305131

SAMPLING LOCATION, CLOSE-UP VIEW



SAMPLING LOCATION, FAR VIEW



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



ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration

ZDHC Wastewater Sampling Information:

Factory Name: DENIMACH WASHING LTD
 Factory Address: Mouja: Keesa, Ward No. 05, Masterbari, Bospur, Gazipur
 Sampling Location: ☒ Untreated Wastewater ☐ Effluent ☐ Sludge
 GPS Data: 24.1861612; 90.43086
 Sampling Date: 23/02/2025
 Sampling Time: 10:10, 11:10, 12:10, 13:10, 14:10, 15:10, 16:10
 Sample ID: QP-2875

Sampler Information:

Sampler Name: Md. Fayzal Islam
 Sampler E-mail: fayzal.islam@sgs.com
 ZDHC Sampler Accreditation Cert. No.: ZDHC-A-25-E-G01068-R4CE2-59380

Sampling Method:

☐ Grab ☒ 5-hour Composite ☐ Others, please specify _____
☐ Autosampler ☒ Manual

Discharge Method:

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

ZDHC Wastewater Sampling Field Testing QA/QC:

Parameter	LCS Known	LCS Measured	Accuracy %
pH			
Total Chlorine			

ZDHC Wastewater Flow Device Dimensions:

Measurement (cm)	Meter	Pipe (D)	Flume (U)	Wier (V)
Diameter	NA			
Depth	NA	NA	NA	

ZDHC Wastewater Sample Collection Field Test Measurements:

Sampling Time (Hours)	Temp (°C)		pH	Visible Colour	Persistent Foam (Yes/No)	Dissolved Oxygen (mg/L)	Total Chlorine (mg/L)	Wastewater Flow Meter (L/min)	Alternate Measured Flow	
	Wastewater Discharge	Receiving Water							Depth (cm)	Velocity (cm/s)
0				Blue						
1				1						
2				1						
3				1						
4				1						
5				1						
6				1						
Average				Blue						

ZDHC Wastewater Sampling - Facility Confirmation

The wastewater samples have been collected under the facility's normal production scale and wastewater flow rate.
 The sampler listed below was on-site and collected the samples.

Factory Name: DENIMACH WASHING LTD
 Factory Representative Name: Mr. Md. Zahurul Islam
 Factory Representative Signature and Stamp: 

Sampler Name: Md. Fayzal Islam
 ZDHC Sampler Accreditation Cert. No.: ZDHC-A-25-E-G01068-R4CE2-59380
 Sampler Signature: 

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ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration

ZDHC Wastewater Sampling Information:

Factory Name: DENIMACH WASHING LTD
 Factory Address: Mawa: Kewa, Ward No. 05, Masumbar, Sreepur, Garipur
 Sampling Location: ☐ Untreated Wastewater ☒ Effluent ☐ Sludge
 GPS Data: 24-1861612; 90-49086 24.1858433; 90.4908517
 Sampling Date: 23/02/2025
 Sampling Time: 10:00, 11:00, 12:00, 13:00, 14:00, 15:00, 16:00
 Sample ID: OP-2873

Sampler Information:

Sampler Name: Md. Fayzal Islam
 Sampler E-mail: fayzal.islam@sgs.com
 ZDHC Sampler Accreditation Cert. No.: ZDHC-A-25-E-001058-14CE12-55380

Sampling Method:

☐ Grab ☒ 9-hour Composite ☐ Others, please specify: _____
☐ Autosampler ☒ Manual

Discharge Method:

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

ZDHC Wastewater Sampling Field Testing QA/QC

ZDHC Wastewater Sampling Field Testing QA/QC			
Parameter	LCS Known	LCS Measured	Accuracy %
pH	7.0	7.02	100
Total Chlorine			

ZDHC Wastewater Flow Device Dimensions

ZDHC Wastewater Flow Device Dimensions				
Measurement (cm)	Water	Pipe (ID)	Flume (L)	Weir (W)
Diameter	NA			
Depth	NA	NA	NA	

ZDHC Wastewater Sample Collection Field Test Measurements

ZDHC Wastewater Sample Collection Field Test Measurements										
Sampling Time (Hours)	Temp (°C)		pH	Visible Colour	Persistent Foam (Yes/No)	Dissolved Oxygen (mg/L)	Total Chlorine (mg/L)	Wastewater Flow Meter	Alternate Measured Flow	
	Wastewater Discharge	Receiving Water							Depth (cm)	Velocity (cm/s)
0	31	29	7.87	translucent	NO	5.2	0.54	152.2		
1	32	29	7.06	"	"	5.1	0.51	151.0		
2	31	28	7.80	"	"	5.5	0.56	149.4		
3	32	29	7.77	"	"	6.9	0.52	148.2		
4	31	29	7.68	"	"	6.1	0.53	146.6		
5	29	28	7.70	"	"	6.0	0.54	145.8		
6	31	29	7.61	"	"	5.7	0.51	146.2		
Average	31	29	7.8	"	"	5.6	0.53	148.5		

= 3564 m³/day

ZDHC Wastewater Sampling - Facility Confirmation

The wastewater samples have been collected under the facility's normal production scale and wastewater flow rate.
 The sampler listed below was on-site and collected the samples.

Factory Name: DENIMACH WASHING LTD
 Factory Representative Name: Mr. Md. Jahurul Islam
 Factory Representative Signature and Stamp: 
 Sampler Name: Md. Fayzal Islam
 ZDHC Sampler Accreditation Cert. No.: ZDHC-A-25-E-001058-14CE12-55380
 Sampler Signature: 



ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration

ZDHC Wastewater Sampling Information:

Factory Name: DENIMACH WASHING LTD.
 Factory Address: Mouja - Kema, Ward No. 05, Masterbari, Sreepur, Garpur
 Sampling Location: ☐ Untreated Wastewater ☐ Effluent ☒ Sludge
 GPS Data: 24.1846417; 90.4305131
 Sampling Date: 23/02/2025
 Sampling Time: 15:20
 Sample ID: DP-2875

Sampler Information:

Sampler Name: Md. Fayzal Islam
 Sampler E-mail: fayzal.islam@sgs.com
 ZDHC Sampler Accreditation Cert. No.: ZDHC-A-25-E-0001068-RACE2-59380

Sampling Method:

☒ Grab ☐ 6-hour Composite ☐ Others, please specify: _____
☐ Autosampler ☒ Manual

Discharge Method:

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

ZDHC Wastewater Sampling Field Testing QA/QC

ZDHC Wastewater Sampling Field Testing QA/QC				
Parameter	LCS Known	LCS Measured		Accuracy %
pH				
Total Chlorine				

ZDHC Wastewater Flow Device Dimensions

ZDHC Wastewater Flow Device Dimensions				
Measurement (cm)	Meter	Pipe (ID)	Flume (L)	Wtr (V)
Diameter	NA			
Depth	NA	NA	NA	

ZDHC Wastewater Sample Collection Field Test Measurements

ZDHC Wastewater Sample Collection Field Test Measurements										
Sampling Time (Hours)	Temp (°C)		pH	Visible Colour	Persistent Foam (Yes/No)	Dissolved Oxygen (mg/L)	Total Chlorine (mg/L)	Wastewater Flow Meter (L/min)	Altimeter Measured Flow	
	Wastewater Discharge	Receiving Water							Depth (cm)	Velocity (cm/s)
0				Grey						
1										
2										
3										
4										
5										
6										
Average				Grey						

ZDHC Wastewater Sampling - Facility Confirmation

The wastewater samples have been collected under the facility's normal production scale and wastewater flow rate.
 The sampler listed below was on-site and collected the samples.

Factory Name: DENIMACH WASHING LTD. Sampler Name: Md. Fayzal Islam
 Factory Representative Name: Mr. Md. Jahurul Islam ZDHC Sampler Accreditation Cert. No.: ZDHC-A-25-E-0001068-RACE2-59380
 Factory Representative Signature and Stamp: Sampler Signature:



Md. Fayzal Islam
 (Signature)

Issue 1 / Dec 2021
 RST5-WW-0-001

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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 Rules, 2023				
SCHEDULE-5				
		Effluent		
Parameters	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

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.