Date of sampling	11/12/2024
Reporting date	17/12/2024

Audit ID	188152	**Audit firm**	SGS TURKEY
Company name	URHAN TEKSTIL SANAYI VE TICARET A.S.		
Contact person	NAFİYE ÇETİN		
Type of tax – tax ID no	8940225672		
Address	PINAR KENT MAH. CAFER SADIK ABALIOGLU (SAHINLER) BLV. NO:19 IC KAPI NO:1		
Region state province	DENIZLI		
Town city / village	PAMUKKALE		
Zip / Post code	20170		

Type of wastewater discharge	
Type of wastewater discharge	Direct Discharge
Description of the discharge	Discharge to Çürüksu River
[If direct discharge] Temperature of receiving water body:	N/A

Type of sludge disposal pathway	
Type of sludge disposal pathway	A

Type of treatment*	
PRELIMINARY	[X] Screening/Sieving/Grit remover (< 6 mm) [ ] Screening/Sieving/Grit remover (≥ 6 mm) [X] Homogenization tank [X] pH Correction [ ] Other (please specify):
PRIMARY	[X] Coagulation/Flocculation [ ] Dissolved air flotation (DAF) [X] Sedimentation tanks or Settler/Clarifier [ ] Other (please specify):
SECONDARY/BIOLOGICAL	[X] Activated sludge process. Aerobic reactor [ ] Biological Biofilm reactor (MBBR, SAF, RBC..) [ ] Sequencing batch reactor (SBR) [X] Other (please specify): Bioprecipitation
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.

Sampler accreditation certification number (ZDHC):	**C74D106817564**
Sampling affiliate	**SGS TURKEY**

Sample description

	Simple	Composite	Comments
(1) Untreated wastewater	NO	YES – 09:00-15:00	NO
(2) Effluent	NO	YES – 09:00-15:00	NO
(3) Sludge	YES – 14:00	NO	NO

Internal description – Final Test Report	
Testing laboratory	SGS TURKEY
Internal codification number (report number)	TR2585223-01
Reference sample number (sample ID)	1) Untreated Wastewater 2) Effluent 3) Sludge
Received on	12/12/2024
Analysis carried out from	12/12/2024 to 17/12/2024
Arrival temperature at lab	7,2 ºC
Comments	/
Reporting date	17/12/2024

The test results relate to the tested items only.
Test reports without SGS seal and authorized signatures are invalid.

Issued in Istanbul
Signed for and on behalf of
SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.

Mesut Akpolat Customer Services Supervisor	Murat Öztaş Customer Services Team Leader
	

Notes

SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.-Tüketici ve Perakende Laboratuvarı (Consumer and Retail) operating as ZDHC tests is accredited by TÜRKAK according to AB-690-T and ISO/IEC 17025:2017 standard.
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SGS applied shared risk decision rule.
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Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Unless further specified in an individual contract the sample(s) retention time is 30 days.
In this Test Report tests marked (1) are included in the TURKAK Accreditation Scope of this Laboratory.

Summary of test results			
Test items	**Untreated wastewater**	**Effluent**	**Sludge**
Conventional Parameters and Anions	-	**Exceed Foundational Limit**	**Please refer to the information in TEST RESULTS**
Heavy Metals	-	**Fulfill Aspirational Limit**	-
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	**ND**	-	**ND**
Anti- Microbials & Biocides	**ND**	-	-
Chlorinated Paraffins	**ND**	-	-
Chlorobenzenes & Chlorotoluenes	**D**	-	**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)	**D**	-	-
UV Absorbers	**ND**	-	-
VOCs	**ND**	-	-

Sludge disposal pathway	
Comply sludge disposal pathway	Yes

Remark (Indicated in each parameter)

ND = Not detected
D = Detected
NA = Not applicable
NC = Not conducted
- = Not required to be tested
@ = Maximum holding time exceeded
(T) = handling temperature exceeded

Test results

Wastewater

1. Conventional Parameters and Anions[1]

Test Items	Test method	Limit			Reporting Limit	Result	Unit
		Foundational	Progressive	Aspirational		Effluent	
pH	SM 4500 H+ B	Textile and Leather: 6-9			NA	7,84 (f)	-
Temperature Difference	SM 2550 B	Textile and Leather: Δ+15	Textile and Leather: Δ+10	Textile and Leather: Δ+5	NA	NC* (f)	ºC
E. Coli	SM 9221 B presumptive, confirm positive with SM 9221 F	Textile and Leather: 126			126	170	MPN/ 100mL
Colour (436nm; 525nm; 620nm)	SM 4500 H+ B	Textile and Leather: 7;5;3	Textile and Leather: 5;3;2	Textile and Leather: 2;1;1	2;1;1	ND	m-1
Persistent Foam	-	Textile and Leather: Not visible			NA	Not Visible (f)	-
Wastewater Flowrate	-	-			NA	1254,6 (f)	m^3/day
Ammonium-Nitrogen	SM 4500-NH3 B SM 4500-NH3 F	Textile: 10 Leather: 15	Textile: 1 Leather: 10	Textile: 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)	SM 5210 B	Textile: 30 Leather: 50	Textile: 15 Leather: 30	Textile: 8 Leather: 20	8	ND	mg/L
Chemical Oxygen Demand (COD)	SM 5220 B	Textile: 150 Leather: 250	Textile: 80 Leather: 150	Textile: 40 Leather: 100	40	ND	mg/L
Dissolved Oxygen (DO)	ISO 17289	Textiles and Leather: ≥4			4	7,14 (f)	mg/L
Oil and grease	ISO 9377-2	Textile: 10 Leather: 20	Textile: 2 Leather: 10	Textile: 0.5 Leather: 5	0.5	ND	mg/L
Total Phenols / Phenol Index	SM 5530 B&C	Textile and Leather: 0.5	Textile:0.01 Leather: 0.3	Textile: 0.001 Leather: 0.1	0.001	ND	mg/L
Total Chlorine	SM 4500 Cl- G	Textiles and Leather: 1			1	ND	mg/L
Total Dissolved Solids (TDS)	SGS In House Method CTSL-SOP-WW-040NF.Rev.0 using multimeter	Textile and Leather: Sample and report only			50	2890	mg/L
Total Nitrogen	ISO 10304-1 ISO 5663	Textile: 20 Leather: 35	Textile: 10 Leather: 20	Textile: 5 Leather: 10	5	19,5	mg/L
Total Phosphorus	SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3051A, EPA 6020B) – Analysis by ICP-MS	Textile and Leather: 3	Textile: 0.5 Leather: 1	Textile: 0.1 Leather: 0.5	0.1	ND	mg/L
Total Suspended Solids (TSS)	SM 2540 D	Textile: 50 Leather: 70	Textile: 15 Leather: 50	Textile: 5 Leather: 20	5	ND	mg/L
Chloride	ISO 10304-1	Textile and Leather: Sample and report only			1	1376	mg/L
Cyanide	SM 4500-CN C SM 4500-CN E	Textile: 0.2	Textile: 0.1	Textile: 0.05	0.05	ND	mg/L

Sulfate	ISO 10304-1	Textile and Leather: Sample and report only			5	302	mg/L
Sulfide	SM 4500 - S^{2-}D	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	Textiles and Leather: 2	Textiles and Leather: 0.5	Textiles and Leather: 0.2	0.2	ND	mg/L

Remark

ND = Not detected
NA = Not applicable
NC = Not conducted
- = Not required to be tested
(f) = Parameter tested in field
(S) = The analysis was subcontracted to xxxxx lab for testing.
= Non accredited parameter
* sampling location of receiving body of water upstream is inaccessible due to the safety issue

2. Heavy Metals[1]

Sb: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS
Cr (VI): SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 218.6) – Analysis by IC-UV
Ba: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS
Se: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS
Sn: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS
As: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS
Cr: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS
Co: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS
Cd: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS
Cu: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS
Pb: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS
Ni: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS
Ag: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS
Zn: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS
Hg: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS

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

Remark

ND = Not detected
NA = Not applicable
NC = Not conducted
- = Not required to be tested
(S) = The analysis was subcontracted to xxxxx lab for testing.
= Non accredited parameter
*= Sample and report only for polyester wet processing facilities

3. Alkylphenol (AP) & Alkylphenol Ethoxylates (APEOs): including all isomers[1]

NP / OP: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from ISO 18254-1) - Analysis by LC- MS MS
NPEO / OPEO: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from ISO 18254-1) - Analysis by LC- MS MS / SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from ISO 18857-2) - Analysis by GC- MS

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
Octylphenol (OP)	140-66-9/ 1806-26-4/ 27193-28-8	5	ND	µg/L
Nonylphenol (NP)	104-40-5/ 11066-49-2/ 25154-52-3/84852-15-3	5	ND	µg/L
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

Remark

1 µg/L = 0.001ppm
ND = Not detected
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

4. Anti- Microbials & Biocides[1]

o-Phenylphenol (+salts): SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3510C, ISO 18857-2) - Analysis by GC- MS
Triclosan: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3510C, ISO 18857-2) - Analysis by GC- MS
Permethrin: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3510C, ISO 18857-2) - Analysis by GC- MS

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
o-Phenylphenol (+salts)	90-43-7	Textiles: 100 Leather: Sample and Report Only	ND	µg/L
Triclosan	3380-34-5	100	ND	µg/L
Permethrin	Various	500	ND	µg/L

Remark

1 µg/L = 0.001ppm
ND = Not detected
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

5. Chlorinated Paraffins

MCCPs: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from ISO 18219-1, ISO 18219-2) - Analysis by GC- NCI/MS

SCCPs: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from ISO 18219-1, ISO 18219-2) - Analysis by GC- NCI/MS

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

Remark

1 µg/L = 0.001ppm
ND = Not detected
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

6. Chlorobenzenes & Chlorotoluenes[1]

Chlorobenzenes & Chlorotoluenes: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 8260D, EPA 8270E) - Analysis by GC-MS

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
Monochlorobenzenes	108-90-7	0.2	ND	µg/L
1,2-Dichlorobenzene	95-50-1	0.2	0,3	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

Remark

1 µg/L = 0.001ppm
ND = Not detected
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

7. Chlorophenols[1]

Chlorophenols: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 8270E) - Analysis by GC-MS

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

Remark

1 µg/L = 0.001ppm
ND = Not detected
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

8. N,N-di-methylformamide (DMFa) [1]

DMFa: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 521, EPA 8270E) - Analysis by GC-MS

Test item	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
N,N-di-methylformamide (DMFa)	68-12-2	Textiles: 1000 Leather: Sample and Report Only	ND	µg/L

Remark

1 µg/L = 0.001ppm
ND = Not detected
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

9. Dyes - Carcinogenic or Equivalent Concern[1]

Dyes - Carcinogenic or Equivalent Concern: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from DIN 54231) - Analysis by LC-MS MS

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
C.I. Direct Black 38	1937-37-7	500	ND	µg/L
C.I. Direct Blue 6	2602-46-2	500	ND	µg/L
C.I. Acid Red 26	3761-53-3	500	ND	µg/L
C.I. Basic Red 9	569-61-9	500	ND	µg/L
C.I. Direct Red 28	573-58-0	500	ND	µg/L
C.I. Basic Violet 14	632-99-5	500	ND	µg/L
C.I. Disperse Blue 1	2475-45-8	500	ND	µg/L
C.I. Disperse Blue 3	2475-46-9	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	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

Remark

1 µg/L = 0.001ppm
ND = Not detected
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
* = Reported concentration refers to the dye part only

10. Dyes - Disperse (Allergenic) [1]

Dyes - Disperse (Allergenic): SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from DIN 54231) - Analysis by LC-MS MS

Test Items	CAS no.	Reporting Limit (Textile)	Result	
			Untreated wastewater	Unit
Disperse Yellow 1	119-15-3	50	ND	µg/L
Disperse Blue 102	12222-97-8	50	ND	µg/L
Disperse Blue 106	12223-01-7	50	ND	µg/L
Disperse Yellow 39	12236-29-2	50	ND	µg/L
Disperse Orange 37/59/76	13301-61-6	50	ND	µg/L
Disperse Brown 1	23355-64-8	50	ND	µg/L
Disperse Orange 1	2581-69-3	50	ND	µg/L
Disperse Yellow 3	2832-40-8	50	ND	µg/L
Disperse Red 11	2872-48-2	50	ND	µg/L
Disperse Red 1	2872-52-8	50	ND	µg/L
Disperse Red 17	3179-89-3	50	ND	µg/L
Disperse Blue 7	3179-90-6	50	ND	µg/L
Disperse Blue 26	3860-63-7	50	ND	µg/L
Disperse Yellow 49	54824-37-2	50	ND	µg/L
Disperse Blue 35	12222-75-2	50	ND	µg/L
Disperse Blue 124	61951-51-7	50	ND	µg/L
Disperse Yellow 9	6373-73-5	50	ND	µg/L
Disperse Orange 3	730-40-5	50	ND	µg/L
Disperse Blue 35	56524-77-7	50	ND	µg/L

Remark

1 µg/L = 0.001ppm
ND = Not detected
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

11. Flame retardants[1]

Boric acid, Diboron trioxide, Disodium octaborate, Disodium tetraborate anhydrous, Tetraboron disodium heptaoxide, hydrate: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS

Others: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 8321) - Analysis by LC-MS MS / SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 527, ISO 22032) - Analysis by LC-MS MS

Test Items	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
Decabromodiphenyl ether (DecaBDE)	1163-19-5	Textiles and Leather: 25	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	Textiles and Leather: 25	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	Textiles and Leather: 25	ND	µg/L
Tris(1-aziridinylphosphine oxide) (TEPA)	545-55-1	Textiles and Leather: 25	ND	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	Textiles and Leather: 25	ND	µg/L
Tris(2,3-dibromopropyl phosphate) (TRIS)	126-72-7	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	5412-25-9	Textiles and Leather: 25	ND	µg/L
Hexabromocyclododecane (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
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	Textiles and Leather: 25	ND	µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	Textiles and Leather: 25	ND	µg/L
Dibromobiphenyls (DiBB)	Multiple	Textiles and Leather: 25	ND	µg/L
Octabromobiphenyls (OctaBB)	Multiple	Textiles and Leather: 25	ND	µg/L
Dibromopropylether	21850-44-2	Textiles and Leather: 25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	Textiles and Leather: 25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	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
Nonabromobiphenyls (NonaBB)	Multiple	Textiles and Leather: 25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	Textiles and Leather: 25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	Textiles and Leather: 25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Multiple	Textiles and Leather: 25	ND	µg/L
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
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	Textiles and Leather: 25	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	Textiles and Leather: 25	ND	µg/L

Remark

1 µg/L = 0.001ppm
ND = Not detected
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
* = Limit refers to elemental boron, not the salt.
** = Result in term of elemental boron (Result in term of the corresponding boron salt)

12. Glycols/Glycol Ethers[1]

Glycols / Glycol Ethers: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 - Analysis by GC- MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
Bis(2-methoxyethyl)-ether	111-96-6	50	ND	µg/L
2-ethoxyethanol	110-80-5	50	ND	µg/L
2-ethoxyethyl acetate	111-15-9	50	ND	µg/L
Ethylene glycol dimethyl ether	110-71-4	50	ND	µg/L
2-methoxyethanol	109-86-4	50	ND	µg/L
2-methoxyethylacetate	110-49-6	50	ND	µg/L
2-methoxypropylacetate	70657-70-4	50	ND	µg/L
Triethylene glycol dimethyl ether	112-49-2	50	ND	µg/L

Remark

1 µg/L = 0.001ppm
ND = Not detected
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

13. Halogenated solvents[1]

Halogenated Solvents: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 8260 D, EPA 5021A) - Analysis by GC-MS Head Space

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

Remark

1 µg/L = 0.001ppm
ND = Not detected
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

14. Organotin compounds[1]

TeET: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from ISO 17353) - Analysis by GC- MS
Others: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from ISO 17353) - Analysis by GC- MS

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

Remark

1 µg/L = 0.001ppm
ND = Not detected
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

15. Other/Miscellaneous Chemicals[1]

AEEA [2-(2-aminoethylamino) ethanol]: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 - Analysis by LC – MS MS

Bisphenol A: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3510C, ISO 18857-2) - Analysis by GC- MS

Thiourea: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 - Analysis by LC – MS MS

Quinoline: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 - Analysis by LC – MS MS

Borate, zinc salt: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS

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

Remark

1 µg/L = 0.001ppm
ND = Not detected
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
* = 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) [1]

PFCs: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from DIN 38407-42) - Analysis by LC – MS MS / SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from CEN/TS 15968) - Analysis by GC- MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
Perfluoro-octane-sulfonic acid (PFOS)*	1763-23-1	0.01	ND	µg/L
Perfluoro-octanoic acid (PFOA)**	335-67-1	1	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

Remark

1 µg/L = 0.001ppm
ND = Not detected
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
* = PFOS refer to its salts/derivative including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH_4 (CAS No.: 29081-56-9), PFOS-$NH(OH)_2$ (CAS No.: 70225-14-8), PFOS-$N(C_2H_5)_4$ (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)

17. Phthalates – including all other esters of ortho-phthalic acid[1]

Phthalates: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 8270E, ISO14389, ISO 18856) - Analysis by GC- MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	10	ND	µg/L
Dimethoxyethyl phthalate (DMEP)	117-82-8	10	ND	µg/L
Di-n-octyl phthalate (DNOP)	117-84-0	10	ND	µg/L
Di-iso-decyl phthalate (DIDP)	26761-40-0	10	ND	µg/L
Di-iso-nonyl phthalate (DINP)	28553-12-0	10	ND	µg/L
Di-n-hexyl phthalate (DnHP)	84-75-3	10	ND	µg/L
Dibutyl phthalate (DBP)	84-74-2	10	ND	µg/L
Butyl benzyl phthalate (BBP)	85-68-7	10	ND	µg/L
Dinonyl phthalate (DNP)	84-76-4	10	ND	µg/L
Diethyl phthalate (DEP)	84-66-2	10	ND	µg/L
Di-n-propyl phthalate (DPRP)	131-16-8	10	ND	µg/L
Di-iso-butyl phthalate (DIBP)	84-69-5	10	ND	µg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	ND	µg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C7-11-branched and 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

Remark

1 µg/L = 0.001ppm
ND = Not detected
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

18. Polycyclic aromatic hydrocarbons (PAHs) [1]

PAHs: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 8270E, DIN 38407-39) - Analysis by GC- MS

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

Remark

1 µg/L = 0.001ppm
ND = Not detected
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

19. Restricted Aromatic Amines (Cleavable from Azo-colourants) [1]

Restricted Aromatic Amines: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from ISO 14362-1, ISO 14362-3) - Analysis by LC- MS MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1	ND	µg/L
4,4'-Diaminodiphenylmethane	101-77-9	0.1	ND	µg/L
4,4'-Oxydianiline	101-80-4	0.1	ND	µg/L
4-Chloroaniline	106-47-8	0.1	0,3	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

Remark

1 µg/L = 0.001ppm
ND = Not detected
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

20. UV Absorbers[1]

UV Absorbers: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 3510C, EPA 8270E) - Analysis by GC- MS

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

Remark

1 µg/L = 0.001ppm
ND = Not detected
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

21. Volatile organic compounds (VOCs) [1]

Benzene: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 8260 D, EPA 5021A) - Analysis by GC-MS Head Space

m-cresol / o-cresol / p-cresol: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 8270E) - Analysis by GC- MS

Xylene: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 8260 D, EPA 5021A) - Analysis by GC-MS Head Space

Toluene: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 (modified from EPA 8260 D, EPA 5021A) - Analysis by GC-MS Head Space

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

Remark

1 µg/L = 0.001ppm
ND = Not detected
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

22. Sludge Parameters - Step 1 – Conventional[1]

% Solids: SGS In-house Method CTSL-SOP-WW-020NF.Rev.11 (modified from US EPA 160.3 / 209A) - Analysis by GC- MS

Test Items	CAS no.	Limit							Reporting Limit (Textile and Leather)	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
% 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	-	24,9	%

Remark

ND = Not detected
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

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

NP/OP: SGS In-house Method CTSL-SOP-WW-020NF.Rev.11 (modified from EPA 3540C, ISO 18857-2) - Analysis by ICP-MS / SGS In-house Method CTSL-SOP-WW-020NF.Rev.11 (modified from EPA 3540C, ISO 18857-2) - Analysis by GC- MS

NPEO/OPEO: SGS In-house Method CTSL-SOP-WW-020NF.Rev.11 (modified from EPA 3540C, ISO 18857-2) - Analysis by LC-MS MS

Test Items	CAS no.	Limit – Dry weight							Reporting Limit (Textile and Leather)	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
Octylphenol (OP)	140-66-9/ 1806-26-4/ 27193-28-8	0.4	0.4	0.4	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	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	ND	mg/kg
Octylphenolethoxylates (OPEOs)	9002-93-1/9036-19-5/68987-90-6	0.4	0.4	0.4	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	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	ND	mg/kg

Remark

ND = Not detected
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

24. Sludge Parameters - Step 1 - MRSL – Polycyclic Aromatic Hydrocarbons (PAHs) [1]

PAHs: SGS In-house Method CTSL-SOP-WW-020NF.Rev.11 (modified from EPA 3550, EPA 827) - Analysis by GC-MS

Test Items	CAS no.	Limit – Dry weight							Reporting Limit (Textile and Leather)	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
Benzo(a)pyrene (BaP)	50-32-8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Anthracene	120-12-7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Pyrene	129-00-0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	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	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	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	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	0.2	ND	mg/kg
Fluoranthene	206-44-0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.2	ND	mg/kg
Acenaphthylene	208-96-8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Chrysene	218-01-9	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	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	0.2	ND	mg/kg
Acenaphthene	83-32-9	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Phenanthrene	85-01-8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Fluorene	86-73-7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Naphthalene	91-20-3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	ND	mg/kg

Remark

ND = Not detected
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

25. Sludge Parameters - Step 1 - MRSL – Chlorotoluenes[1]

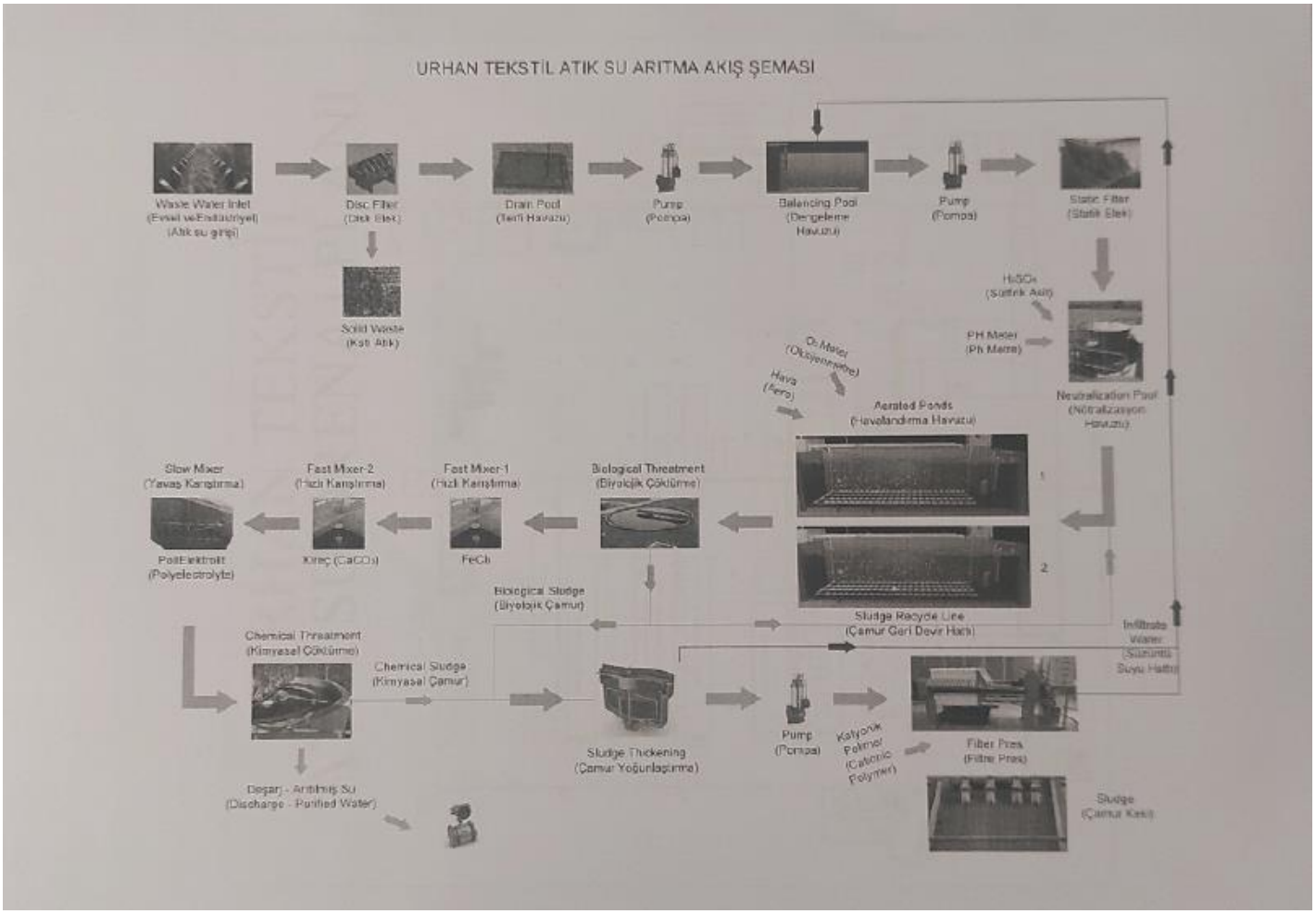
Chlorotoluenes: SGS In-house Method CTSL-SOP-WW-020NF.Rev.11 (modified from EPA 3550, EPA 827) - Analysis by GC-MS

Test Items	CAS no.	Limit – Dry weight							Reporting Limit (Textile and Leather)	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
2-Chlorotoluene	95-49-8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
3-Chlorotoluene	108-41-8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
4-Chlorotoluene	106-43-4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	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	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	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	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	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	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	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	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	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	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	0.2	ND	mg/kg
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.2	ND	mg/kg
Pentachlorotoluene	877-11-2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	ND	mg/kg

Remark

ND = Not detected
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

PIPING PLAN


URHAN TEKSTİL ATIK SU ARITMA AKIŞ ŞEMASI
Waste Water Inlet
(Evsel ve/veEndüstriyel)
(Atık su girişi)
Disc Filter
(Disk Elek)
Solid Waste
(Katı Atık)
Drain Pool
(Terfi Havuzu)
Pump
(Pompa)
Balancing Pool
(Dengeleme Havuzu)
Pump
(Pompa)
Static Filter
(Statik Elek)
H2SO4
(Sülfirik Asit)
PH Meter
(Ph Metre)
Neutralization Pool
(Nötralizasyon Havuzu)
Hava
(Fero)
Aerated Ponds
(Havalandırma Havuzu)
1
2
Biological Threatment
(Biyolojik Çöktürme)
Fast Mixer-1
(Hızlı Karıştırma)
FeCl3
Fast Mixer-2
(Hızlı Karıştırma)
Kireç (CaCO3)
Slow Mixer
(Yavaş Karıştırma)
PoliElektrolit
(Polyelectrolyte)
Biological Sludge
(Biyolojik Çamur)
Sludge Recycle Line
(Çamur Geri Devir Hattı)
Chemical Threatment
(Kimyasal Çöktürme)
Chemical Sludge
(Kimyasal Çamur)
Sludge Thickening
(Çamur Yoğunlaştırma)
Pump
(Pompa)
Kalyonik Polimer
(Cationic Polymer)
Filter Press
(Filtre Pres)
Sludge
(Çamur Keki)
Deşarj - Arıtılmış Su
(Discharge - Purified Water)

SAMPLING PHOTOS

UNTREATED WASTEWATER	
GPS Data: 37°48'19.9" N, 29°11'34.5" E	
SAMPLING LOCATION, CLOSE-UP VIEW	SAMPLING LOCATION, FAR VIEW
	

EFFLUENT	
GPS Data: 37°48'20.3" N, 29°11'35.1" E	
SAMPLING LOCATION, CLOSE-UP VIEW	SAMPLING LOCATION, FAR VIEW
	

SLUDGE	
GPS Data: 37°48'20.0" N, 29°11'35.0" E	
SAMPLING LOCATION, CLOSE-UP VIEW	SAMPLING LOCATION, FAR VIEW
	

SGS

ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration

ZDHC Wastewater Sampling Information:

Factory Name: Urhan Tekstil San. ve Tic. A.Ş.
Factory Address: Pınarkent Mah. Cafer Sadık Abalioğlu Bulvarı No:19/1 Pamukkale Denizli
Sampling Location: ☒ Untreated Wastewater ☐ Effluent ☐ Sludge
GPS Data: 37.855414 / 29.192917
Sampling Date: 17.12.2024
Sampling Time: 09.00 - 15.00
Sample ID:

Sampler Information:

Sampler Name: NURETTİN DELİ
Sampler E-mail: nurettin.deli@sgs.com
ZDHC Sampler Accreditation Cert. No.: C74D106817564

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	7.00		7.00		100
Total Chlorine					

ZDHC Wastewater Flow Device Dimensions

ZDHC Wastewater Flow Device Dimensions				
Measurement (cm)	Meter	Pipe (O)	Flume (U)	Weir (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) m³/h	Alternate Measured Flow	
	Wastewater Discharge	Receiving Water							Depth (cm)	Velocity (cm/s)
0	43.0	–	8.18	Purple	NO	13,78	–			
1	40,8	–	8.06	Grey	NO	12,98	–			
2	41,9	–	7,12	Grey	NO	7,38	–			
3	40,6	–	8,37	Grey	NO	6,69	–			
4	43,5	–	9,44	Grey	NO	5,92	–			
5	43,7	–	9,64	Brown	NO	6,34	–			
6	40,9	–	9,75	Brown	NO	6,80	–			
Average	42,0	–	8,65	Brown	NO	8,55	–			

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: Urhan Tekstil San. ve Tic. A.Ş.
Factory Representative Name: Nafiye GETİN
Factory Representative Signature and Stamp:

URHAN TEKSTİL SAN. VE TİC. A.Ş.
Pınarkent Mah. Cafer Sadık Abalioğlu Bulv. No : 19/1
Pamukkale / DENİZLİ
Tel : 0 258 - 267 20 50 (Pbx) Fax : 267 20 51
Sarayiçi Vergi Dairesi 894 022 55 72

Sampler Name: NURETTİN DELİ
ZDHC Sampler Accreditation Cert. No.: C74D106817564
Sampler Signature:

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Not: Arıtmanın untreated kısmında debimetre bulunmadığından ölçüm alınamadı.

SGS

ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration

ZDHC Wastewater Sampling Information:

Factory Name: Urhan Tekstil San ve Tic. A.Ş.
Factory Address: Pınarkent Mah. Cafer Sadık Ababoğlu Bulvarı No:19/1 Pamukkale Denizli
Sampling Location: ☐ Untreated Wastewater ☒ Effluent ☐ Sludge
GPS Data: 29,805641 / 29,193077
Sampling Date: 11.12.2024
Sampling Time: 09.00 - 15.00
Sample ID:

Sampler Information:

Sampler Name: NURETTİN DELİ
Sampler E-mail: nurettin.deli@sgs.com
ZDHC Sampler Accreditation Cert. No.: C74D106817564

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	7.00		7.00		100
Total Chlorine					

ZDHC Wastewater Flow Device Dimensions

ZDHC Wastewater Flow Device Dimensions				
Measurement (cm)	Meter	Pipe (O)	Flume (U)	Weir (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)	Alternate Measured Flow	
	Wastewater Discharge	Receiving Water							Depth (cm)	Velocity (cm/s)
0	18,2	-	7,26	Transf	NO	7,27	<0,02	37,9		
1	19,5	-	7,29	Trans	NO	7,03	<0,02	49,7		
2	20,5	-	7,83	Trans	NO	8,97	<0,02	76,5		
3	21,0	-	7,51	Trans	NO	6,91	<0,02	74,4		
4	21,3	-	8,16	Trans	NO	6,80	<0,02	71,2		
5	22,1	-	8,07	Trans	NO	6,61	<0,02	74,0		
6	22,6	-	8,59	Trans	NO	6,41	<0,02	67,9		
Average	20,7	-	7,84	Trans	NO	7,14	<0,02	63,6		

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: Urhan Tekstil San. ve Tic. A.Ş.
Factory Representative Name: Hatice ÇETİN
Factory Representative Signature and Stamp:

URHAN TEKSTİL SAN. VE TİC. A.Ş.
Pınarkent Mah. Cafer Sadık Ababoğlu Bulv. No: 19/1
Pamukkale / DENİZLİ
Tel: 0 258 - 267 29 50 (Pbx) Fax: 258 20 51
Sigortar Vergi Dairesi: 894 022 56 72

Sampler Name: NURETTİN DELİ
ZDHC Sampler Accreditation Cert. No.: C74D106817564
Sampler Signature:

Not: Atıksu Gönderen Mekanın ile değerlendirilmektedir.

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SGS

ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration

ZDHC Wastewater Sampling Information:

Factory Name: Urhan Tekstil San. ve Tic. A.Ş.
Factory Address: Pınarkent Mah. Cafer Sadık Abalıoğlu Bulvarı No:19/1 Pamukkale Denizli
Sampling Location: ☐ Untreated Wastewater ☐ Effluent ☒ Sludge
GPS Data: 37,805555 / 29,199050
Sampling Date: 11.12.2024
Sampling Time: 14.00
Sample ID:

Sampler Information:

Sampler Name: NURETTİN DELİ
Sampler E-mail: nurettin.deli@sgs.com
ZDHC Sampler Accreditation Cert. No.: C74D106817564

Sampling Method:

☒ Grab ☐ 8-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 (O)	Flume (U)	Weir (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)	Alternate Measured Flow	
	Wastewater Discharge	Receiving Water							Depth (cm)	Velocity (cm/s)
0										
1										
2										
3										
4										
5										
6										
Average										

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: Urhan Tekstil San. ve Tic. A.Ş.
Factory Representative Name: Nafiye GEZİN
Factory Representative Signature and Stamp:

URHAN TEKSTİL SAN. VE TİC. A.Ş.
Pınarkent Mah. Cafer Sadık Abalıoğlu Bulv. No : 19/1
Pamukkale / DENİZLİ
Tel: 0 258 [illegible] Fax: 0 258 [illegible]
Sayılar Vergi Dairesi: 841 022 5572
Mersis No: 0593022557200016 Tic. Sic. No: 20016

Sampler Name: NURETTİN DELİ
ZDHC Sampler Accreditation Cert. No.: C74D106817564
Sampler Signature:

Gemer; Beysu Global Enerji A.Ş. tarafından bertaraf edilmektedir.

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RSTS-WW-D-005

REGULATORY REQUIREMENTS TURKEY LOCAL DISCHARGE REGULATION

TEXTILE INDUSTRY WASTEWATER DISCHARGE STANDARDS OF THE RECEIVING ENVIRONMENT

Table 4: Textile Industry (Wool Washing, Finishing, weaving and etc.)			
PARAMETER	UNIT	**COMPOSITE SAMPLE 2 HOURS**	**COMPOSITE SAMPLE 24 HOURS**
CHEMICAL OXYGEN DEMAND (COD)	(mg/L)	400	300
SUSPENDED SOLIDS	(mg/L)	400	300
AMMONIUM NITROGEN (NH4-N)	(mg/L)	5	-
FREE CHLORINE	(mg/L)	0.3	-
TOTAL CHROMIUM	(mg/L)	2	1
SULFUR (S^{-2})	(mg/L)	0.1	-
SULPHITE	(mg/L)	1	-
OIL AND GREASE	(mg/L)	200	100
FISH BIOTEST		4	3
pH		6....9	6....9
COLOR	(Pt-Co)	280	260

*** End of Report ***