Date of sampling	14/08/2024
Reporting date	22/08/2024

Audit ID	178950	**Audit firm**	SGS TURKEY
Company name	AKIN TEKSTIL A.S		
Contact person	MURAT KARAASLAN		
Type of tax – tax ID no	0270015035		
Address	GUNDOGDU MAH. 1. CAD. NO:11 EVRENSEKIZ		
Region state province	LULEBURGAZ		
Town city / village	KIRKLARELI		
Zip / Post code	-		

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

Type of sludge disposal pathway	
Type of sludge disposal pathway	C

Type of treatment*	
PRELIMINARY	[X] Screening/Sieving/Grit remover (< 6 mm) [X] Screening/Sieving/Grit remover (≥ 6 mm) [X] Homogenization tank [ ] pH Correction [ ] Other (please specify):
PRIMARY	[ ] Coagulation/Flocculation [ ] Dissolved air flotation (DAF) [ ] Sedimentation tanks or Settler/Clarifier [X] Other (please specify): Neutralization
SECONDARY/BIOLOGICAL	[ ] Activated sludge process. Aerobic reactor [ ] Biological Biofilm reactor (MBBR, SAF, RBC..) [ ] Sequencing batch reactor (SBR) [ ] Other (please specify): Not Available
TERTIARY	[ ] Absorption with activated carbon [ ] High rate filtration [ ] Techniques (ozone, Fenton reaction, photo catalytic degradation…) [ ] Other (please specify): Not Available

*The information has been provided by the factory.

Sampler accreditation certification number (ZDHC):	**8F1465016562**
Sampling affiliate	**SGS TURKEY**

Sample description

	Simple	Composite	Comments
(1) Untreated wastewater	NO	YES – 11:00-17:00	NO
(2) Effluent	NO	YES – 11:00-17:00	NO
(3) Sludge	YES – 16:00	NO	NO
(4) Leachate	NO	NO	NO

Internal description – Final Test Report	
Testing laboratory	SGS TURKEY
Internal codification number (report number)	TR2531725-01
Reference sample number (sample ID)	1) Untreated Wastewater 2) Effluent 3) Sludge
Received on	15/08/2024
Analysis carried out from	15/08/2024 to 22/08/2024
Arrival temperature at lab	6,9 ºC
Comments	/
Reporting date	22/08/2024

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**	**Leachate**
Conventional Parameters and Anions	-	**Exceed Foundational Limit**	**Please refer to the information in TEST RESULTS**	-
Heavy Metals	-	**Fulfill Aspirational Limit**	**Please refer to the information in TEST RESULTS**	-
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	**ND**	-	**ND**	-
Anti- Microbials & 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**	-	-	-
Dyes – Navy Blue Colourant	**ND**	-	-	-
Flame Retardants	**ND**	-	-	-
Glycols / Glycol Ethers	**ND**	-	-	-
Halogenated Solvents	**D**	-	-	-
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	**D**	-	-	-

Sludge disposal pathway	
Comply sludge disposal pathway	N/A

Remark (indicated in each parameter)

ND = Not detected (< ZDHC requirements)
D = Detected (≥ ZDHC requirements)
NA = Not applicable
NC = Not conducted
- = Not required to be tested
@ = Maximum holding time exceed

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	7,74 (f)	-
Temperature Difference	SM 2550 B	Textile and Leather: Δ+15	Textile and Leather: Δ+10	Textile and Leather: Δ+5	NA	0,5 (f)	ºC
E. Coli	SM 9221 B presumptive, confirm positive with SM 9221 F	Textile and Leather: 126			126	ND	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	1436 (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	Textile: 3	Textile: 0.5	Textile: 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	5	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	Textile and Leather: Sample and report only			0.5	5,93 (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	Textile and Leather: Sample and report only			0.5	ND (f)	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	3230	mg/L
Total Nitrogen	ISO 10304-1 ISO 5663	Textile: 20 Leather: 35	Textile: 10 Leather: 20	Textile: 5 Leather: 10	5	23,8	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	0,76	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	987	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	2264	mg/L
Sulfide	SM 4500 - $S2^-$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	Textile: 2	Textile: 0.5	Textile: 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
**WW flowrate can not be measured due to 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 items	CAS no.				Reporting Limit		Unit
		Foundational	Progressive	Aspirational		Effluent	
Arsenic (As)	Various	Textile and Leather: 0.05	Textile and Leather: 0.01	Textile and Leather: 0.005	0.005	ND	mg/L
Cadmium (Cd)	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.01	0.01	ND	mg/L
Mercury (Hg)	Various	Textile and Leather: 0.01	Textile and Leather: 0.005	Textile and Leather: 0.001	0.001	ND	mg/L
Lead (Pb)	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.01	0.01	ND	mg/L
Antimony (Sb) *	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.01	0.01	ND	mg/L
Cobalt (Co)	Various	Textile and Leather: 0.05	Textile and Leather: 0.02	Textile and Leather: 0.01	0.01	ND	mg/L
Nickel (Ni)	Various	Textile and Leather: 0.2	Textile and Leather: 0.1	Textile and Leather: 0.05	0.05	ND	mg/L
Silver (Ag)	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.005	0.005	ND	mg/L
Copper (Cu)	Various	Textile and Leather: 1	Textile and Leather: 0.5	Textile and Leather: 0.25	0.25	ND	mg/L
Zinc (Zn)	Various	Textile and Leather: 5	Textile and Leather: 1	Textile and Leather: 0.5	0.1	ND	mg/L
Total Chromium (Cr)	Various	Textile: 0.2 Leather: 1.5	Textile: 0.1 Leather: 0.8	Textile: 0.05 Leather: 0.3	0.05	ND	mg/L
Chromium VI (Cr VI)	Various	Textile: 0.05 Leather: 0.15	Textile: 0.005 Leather: 0.05	Textile: 0.001 Leather: 0.02	0.001	ND	mg/L
Barium (Ba)	Various	Textile: Sample and report only			35	ND	mg/L
Selenium (Se)	Various	Textile: Sample and report only			0.5	ND	mg/L
Tin (Sn)	Various	Textile: Sample and report only			0.1	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	Result	Unit
			Untreated wastewater	
o-Phenylphenol (+salts)	90-43-7	Textile: 100	ND	µg/L
Triclosan	3380-34-5	Textile and Leather: 100	ND	µg/L
Permethrin	Various	Textile and Leather: 500	ND	µg/L

Remark

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

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	Result	Unit
			Untreated wastewater	
Short chain chlorinated paraffins (C10-C13)	85535-84-8	Textile and Leather: 25	ND	µg/L
Medium-chain Chlorinated Paraffins (MCCPs) (C14-C17)	85535-85-9	Textile and Leather: 500	ND	µg/L

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	ND	µg/L
1,3-Dichlorobenzene	541-73-1	0.2	ND	µg/L
1,4-Dichlorobezene	106-46-7	0.2	ND	µg/L
1,2,3-Trichlorobenzene	87-61-6	0.2	ND	µg/L
1,2,4-Trichlorobenzene	120-82-1	0.2	ND	µg/L
1,3,5-Trichlorobenzene	108-70-3	0.2	ND	µg/L
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	ND	µg/L
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2	ND	µg/L
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	ND	µg/L
Pentachlorobenzene	608-93-5	0.2	ND	µg/L
Hexachlorobenzene	118-74-1	0.2	ND	µg/L
2-Chlorotoluene	95-49-8	0.2	ND	µg/L
3-Chlorotoluene	108-41-8	0.2	ND	µg/L
4-Chlorotoluene	106-43-4	0.2	ND	µg/L
2,3-Dichlorotoluene	32768-54-0	0.2	ND	µg/L
2,4-Dichlorotoluene	95-73-8	0.2	ND	µg/L
2,5-Dichlorotoluene	19398-61-9	0.2	ND	µg/L
2,6-Dichlorotoluene	118-69-4	0.2	ND	µg/L
3,4-Dichlorotoluene	95-75-0	0.2	ND	µg/L
3,5-Dichlorotoluene	25186-47-4	0.2	ND	µg/L
2,3,4-Trichlorotoluene	7359-72-0	0.2	ND	µg/L
2,3,6-Trichlorotoluene	2077-46-5	0.2	ND	µg/L
2,4,5-Trichlorotoluene	6639-30-1	0.2	ND	µg/L
2,4,6-Trichlorotoluene	23749-65-7	0.2	ND	µg/L
3,4,5-Trichlorotoluene	21472-86-6	0.2	ND	µg/L
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	ND	µg/L

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

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 (Textile)	Result	Unit
			Untreated wastewater	
N,N-di-methylformamide (DMFa)*	68-12-2	1000	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
* = Sample and report only for mock leather

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	Textile: 500	ND	µg/L
C.I. Disperse Blue 3	2475-46-9	Textile: 500	ND	µg/L
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	500	ND	µg/L
C.I. Basic Green 4 (malachite green chloride)	569-64-2	500	ND	µg/L
C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	500	ND	µg/L
C.I. Basic Green 4 (malachite green)	10309-95-2	500	ND	µg/L
Disperse Orange 11	82-28-0	Textile: 500	ND	µg/L
Basic violet 3 with >0.1% of Michler´s Ketone*	548-62-9	500	ND	µg/L
C.I. Acid Violet 49	1694-09-3	500	ND	µg/L

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. Dyes - Navy Blue Colourant[1]

Dyes - Navy Blue Colourant: SGS In-house Method CTSL-SOP-WW-019NF.Rev.10 - Analysis by LC-MS MS

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

Remark

1 µg/L = 0.001ppm
ND = Not detected
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

12. 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	Textile: 25 Leather: 5	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	Textile: 25 Leather: 5	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	Textile: 25 Leather: 5	ND	µg/L
Tris(1-aziridinylphosphine oxide) (TEPA)	545-55-1	Textile: 25 Leather: 5	ND	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	Textile: 25 Leather: 5	ND	µg/L
Tris(2,3-dibromopropyl phosphate) (TRIS)	126-72-7	Textile: 25 Leather: 5	ND	µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	Textile: 25 Leather: 5	ND	µg/L
Bis(2,3-dibromopropyl) phosphate	5412-25-9	Textile: 25 Leather: 5	ND	µg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	Textile: 25 Leather: 5	ND	µg/L
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	Textile: 25 Leather: 5	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	Textile: 25 Leather: 5	ND	µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	Textile: 25	ND	µg/L
Dibromobiphenyls (DiBB)	Multiple	Textile: 25	ND	µg/L
Octabromobiphenyls (OctaBB)	Multiple	Textile: 25	ND	µg/L
Dibromopropylether	21850-44-2	Textile: 25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	Textile: 25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	Textile: 25	ND	µg/L
Monobromobiphenyls (MonoBB)	Multiple	Textile: 25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Multiple	Textile: 25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Multiple	Textile: 25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	Textile: 25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	Textile: 25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Multiple	Textile: 25	ND	µg/L
Boric acid	10043-35-3 11113-50-1	Textile: 100*	ND (ND)**	µg/L
Diboron trioxide	1303-86-2	Textile: 100*	ND (ND)**	µg/L

Disodium octaborate	12008-41-2	Textile: 100*	ND (ND)**	µg/L
Disodium tetraborate anhydrous	1303-96-4 1330-43-4	Textile: 100*	ND (ND)**	µg/L
Tetraboron disodium heptaoxide, hydrate	12267-73-1	Textile: 100*	ND (ND)**	µg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	Textile: 25 Leather: 5	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	Textile: 25 Leather: 5	ND	µg/L

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)

13. 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

14. 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	7	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

15. 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

16. 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)

17. 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	0.01	ND	µg/L
Perfluoro-octane-sulfon-amide (PFOSA)	754-91-6	0.01	ND	µg/L
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	1	ND	µg/L
1H,1H,2H,2H-Perfluorodecanol (8:2 FTOH)	678-39-7	1	ND	µg/L
N-Methyl-perfluoro-octane-sulfon-amido-ethanol (N-Me-FOSE)	24448-09-7	0.01	ND	µg/L
N-Ethyl-Perfluoro-octane-sulfon-amido-ethanol (N-Et-FOSE)	1691-99-2	0.01	ND	µg/L
N-Methyl-perfluoro-octane-sulfon-amide (N-Me-FOSA)	31506-32-8	0.01	ND	µg/L
N-Ethyl-perfluoro-octane-sulfon-amide (N-Et-FOSA)	4151-50-2	0.01	ND	µg/L
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	1	ND	µg/L
Methyl Perfluorooctanoate (Me-PFOA)	376-27-2	1	ND	µg/L
Ethyl Perfluorooctanoate (Et-PFOA)	3108-24-5	1	ND	µg/L
8:2 Fluorotelomer methacrylate (8:2 FTMA)	1996-88-9	1	ND	µg/L

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)

18. 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

19. 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

20. 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	1,2	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

21. 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)	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

22. 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	Result	Unit
			Untreated wastewater	
Benzene	71-43-2	Textile and Leather: 1	ND	µg/L
Xylene	1330-20-7	Textile: 1	ND	µg/L
o-cresol	95-48-7	Textile and Leather: 1	ND	µg/L
p-cresol	106-44-5	Textile and Leather: 1	6	µg/L
m-cresol	108-39-4	Textile and Leather: 1	ND	µg/L
Toluene	108-88-3	Textile: 1 (Sample and Report only for mock leather)	ND	µg/L

Remark

1 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
* = Sample and report only for mock leather

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

pH: EPA 9045D

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

Paint Filter Test: EPA 9095B

Fecal Coliform: EPA 1681

Test Items	CAS no.	Limit							Reporting Limit	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
pH	-	Sample and Report Only	Sample and Report Only	5-11	5-11	5-11	6.5-9	6.5-9	-	7,12	s.u.
% Solids	-	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	-	12,7	%
Paint Filter Test	-	Sample and Report Only	Sample and Report Only	Sample and Report Only	Pass	Pass	Pass	Sample and Report Only	-	Not Visible	-
Fecal Coliform	-	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	1000	1000	1000	ND	MPN/g

Remark

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 – Anions[1]

Cyanide: EPA 9013, EPA 9010, EPA 9014 - Analysis by Spectrophotometric Method

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

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 – Metals[1]

Sb: SGS In-house Method CTSL-SOP-WW-020NF.Rev.11 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS

As: SGS In-house Method CTSL-SOP-WW-020NF.Rev.11 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS

Ba: SGS In-house Method CTSL-SOP-WW-020NF.Rev.11 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS

Cd: SGS In-house Method CTSL-SOP-WW-020NF.Rev.11 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS

Co: SGS In-house Method CTSL-SOP-WW-020NF.Rev.11 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS

Cu: SGS In-house Method CTSL-SOP-WW-020NF.Rev.11 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS

Pb: SGS In-house Method CTSL-SOP-WW-020NF.Rev.11 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS

Ni: SGS In-house Method CTSL-SOP-WW-020NF.Rev.11 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS

Se: SGS In-house Method CTSL-SOP-WW-020NF.Rev.11 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS

Ag: SGS In-house Method CTSL-SOP-WW-020NF.Rev.11 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS

Cr: SGS In-house Method CTSL-SOP-WW-020NF.Rev.11 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS

Zn: SGS In-house Method CTSL-SOP-WW-020NF.Rev.11 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS

Cr VI: SGS In-house Method CTSL-SOP-WW-020NF.Rev.11 (modified from EPA 3060A, EPA7196) - Analysis by UV - VIS Method

Hg: SGS In-house Method CTSL-SOP-WW-020NF.Rev.11 (modified from EPA 3051A, EPA 6020B) - Analysis by ICP-MS

Test Items	CAS no.	Limit – Dry weight		Reporting Limit	Result	Unit
		Total Metals Threshold Values*	Max Total Metals limit for Pathway G		Sludge	
Arsenic (As)	Various	10	75	Textile: 5 Leather 2	ND	mg/kg
Cadmium (Cd)	Various	3	85	Textile: 1 Leather 2	ND	mg/kg
Mercury (Hg)	Various	1	57	Textile: 1 Leather 0.2	ND	mg/kg
Lead (Pb)	Various	10	840	Textile: 5 Leather 2	ND	mg/kg
Antimony (Sb)	Various	12	Sample and Report Only	Textile: 5	ND	mg/kg
Cobalt (Co)	Various	1600	Sample and Report Only	Textile: 400	ND	mg/kg
Nickel (Ni)	Various	70	420	Textile: 20	ND	mg/kg
Silver (Ag)	Various	100	Sample and Report Only	Textile: 50	ND	mg/kg
Copper (Cu)	Various	200	4300	Textile: 50	69	mg/kg
Zinc (Zn)	Various	1000	7500	Textile: 400	ND	mg/kg
Total Chromium (Cr)	Various	100	3000	Textile: 50	ND	mg/kg
Chromium VI (Cr VI)	Various	50	50	Textile: 20 Leather 2	ND	mg/kg
Barium (Ba)	Various	700	Sample and Report Only	Textile: 200	ND	mg/kg
Selenium (Se)	Various	10	100	Textile: 5	ND	mg/kg

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

1. 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	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	0.4	ND	mg/kg
Nonylphenol (NP)	104-40-5/ 11066-49-2/ 25154-52-3/84852-15-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	0.4	ND	mg/kg
Octylphenolethoxylates (OPEOs)	9002-93-1/9036-19-5/68987-90-6	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	0.4	ND	mg/kg
Nonylphenolethoxylates (NPEOs)	9016-45-9/26027-38-3/ 37205-87-1/68412-54-4/127087-87-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	0.4	ND	mg/kg

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

2. 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)	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
Benzo(a)pyrene (BaP)	50-32-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Anthracene	120-12-7	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Pyrene	129-00-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(ghi)perylene	191-24-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(e)pyrene	192-97-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Indeno (1,2,3-cd)pyrene	193-39-5	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(j)fluoranthene	205-82-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(b)fluoranthene	205-99-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Fluoranthene	206-44-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(k)fluoranthene	207-08-09	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Acenaphthylene	208-96-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Chrysene	218-01-9	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg

Dibenz(a,h)anthracene	53-70-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(a)anthracene	56-55-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Acenaphthene	83-32-9	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Phenanthrene	85-01-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Fluorene	86-73-7	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Naphthalene	91-20-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg

Remark

ND = Not detected
NA = Not applicable
NC = Not conducted
- = Not required to be tested
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= Non accredited parameter

3. 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	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
3-Chlorotoluene	108-41-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
4-Chlorotoluene	106-43-4	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3-Dichlorotoluene	32768-54-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,4-Dichlorotoluene	95-73-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,5-Dichlorotoluene	19398-61-9	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,6-Dichlorotoluene	118-69-4	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
3,4-Dichlorotoluene	95-75-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
3,5-Dichlorotoluene	25186-47-4	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,4-Trichlorotoluene	7359-72-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,6-Trichlorotoluene	2077-46-5	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,4,5-Trichlorotoluene	6639-30-1	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,4,6-Trichlorotoluene	23749-65-7	Sample and	Sample and	Sample and	0.2	0.2	0.2	0.2	0.2	ND	mg/kg

		Report Only	Report Only	Report Only							
3,4,5-Trichlorotoluene	21472-86-6	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,4,5-Tetrachlorotoluene	76057-12-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,5,6-Tetrachlorotoluene	29733-70-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,4,6-Tetrachlorotoluene	875-40-1	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Pentachlorotoluene	877-11-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg

Remark

ND = Not detected
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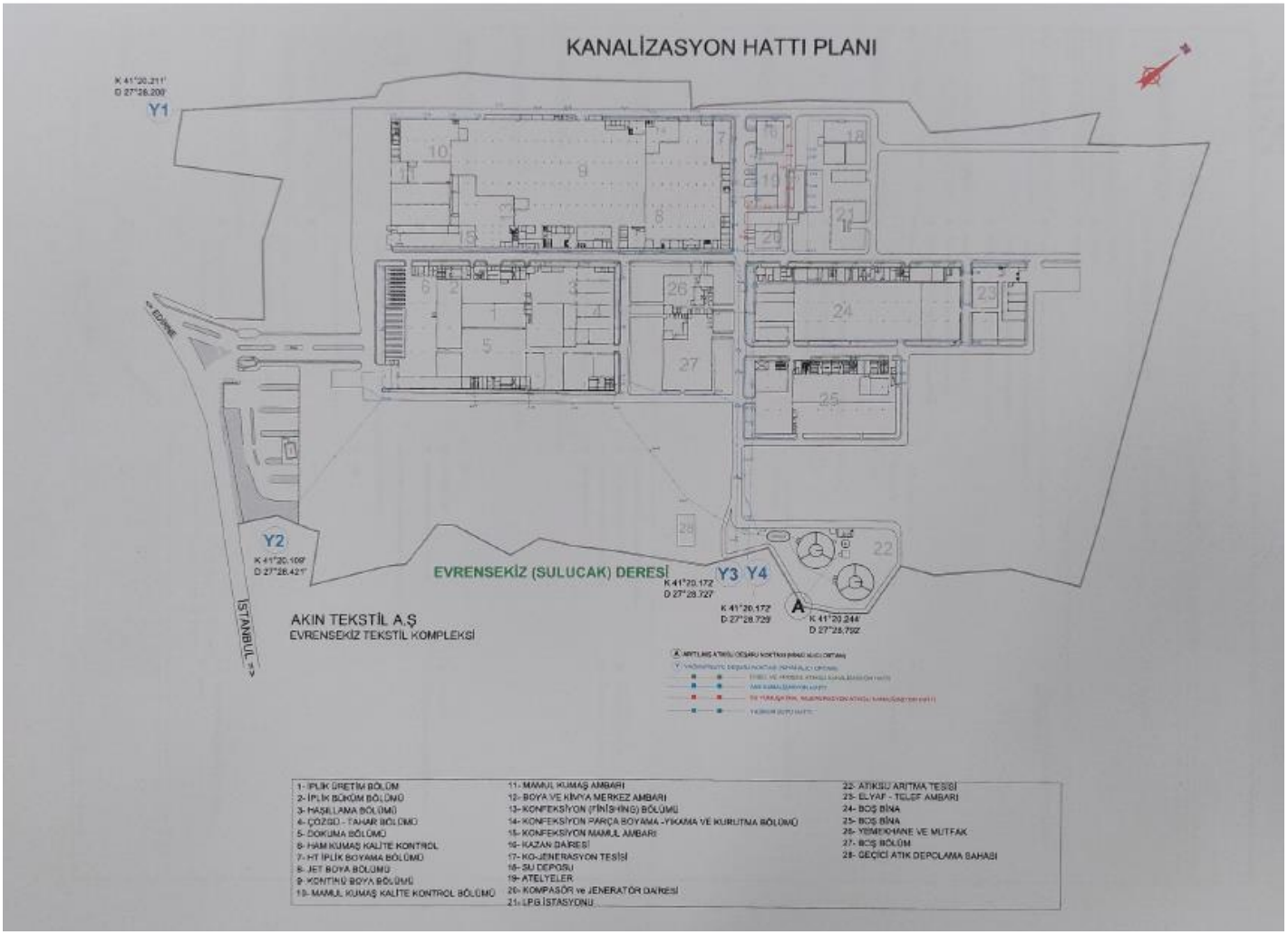
NC = Not conducted
- = Not required to be tested
(S) = The analysis was performed by a subcontracted laboratory assessed as competent
= Non accredited parameter

PIPING PLAN


KANALİZASYON HATTI PLANI
Y1
Y2
Y3 Y4
A
EVRENSEKİZ (SULUCAK) DERESİ
AKIN TEKSTİL A.Ş
EVRENSEKİZ TEKSTİL KOMPLEKSİ
İSTANBUL
EDİRNE
1- İPLİK ÜRETİM BÖLÜM
2- İPLİK BÜKÜM BÖLÜMÜ
3- HAŞİLLAMA BÖLÜMÜ
4- ÇÖZGÜ - TAHAR BÖLÜMÜ
5- DOKUMA BÖLÜMÜ
6- HAM KUMAŞ KALİTE KONTROL
7- HT İPLİK BOYAMA BÖLÜMÜ
8- JET BOYA BÖLÜMÜ
9- KONTİNÜ BOYA BÖLÜMÜ
10- MAMUL KUMAŞ KALİTE KONTROL BÖLÜMÜ
11- MAMUL KUMAŞ AMBARI
12- BOYA VE KİMYA MERKEZ AMBARI
13- KONFEKSİYON (FİNİSHİNG) BÖLÜMÜ
14- KONFEKSİYON PARÇA BOYAMA -YIKAMA VE KURUTMA BÖLÜMÜ
15- KONFEKSİYON MAMUL AMBARI
16- KAZAN DAİRESİ
17- KO-JENERASYON TESİSİ
18- SU DEPOSU
19- ATELYELER
20- KOMPASÖR ve JENERATÖR DAİRESİ
21- LPG İSTASYONU
22- ATIKSU ARITMA TESİSİ
23- ELYAF - TELEF AMBARI
24- BOŞ BİNA
25- BOŞ BİNA
26- YEMEKHANE VE MUTFAK
27- BOŞ BÖLÜM
28- GEÇİCİ ATIK DEPOLAMA SAHASI

SAMPLING PHOTOS

UNTREATED WASTEWATER

GPS Data: 41°20'11"N 27°28'46"E

SAMPLING LOCATION, CLOSE-UP VIEW

SAMPLING LOCATION, FAR VIEW

EFFLUENT

GPS Data: 41°20'11"N 27°28'46"E

SAMPLING LOCATION, CLOSE-UP VIEW

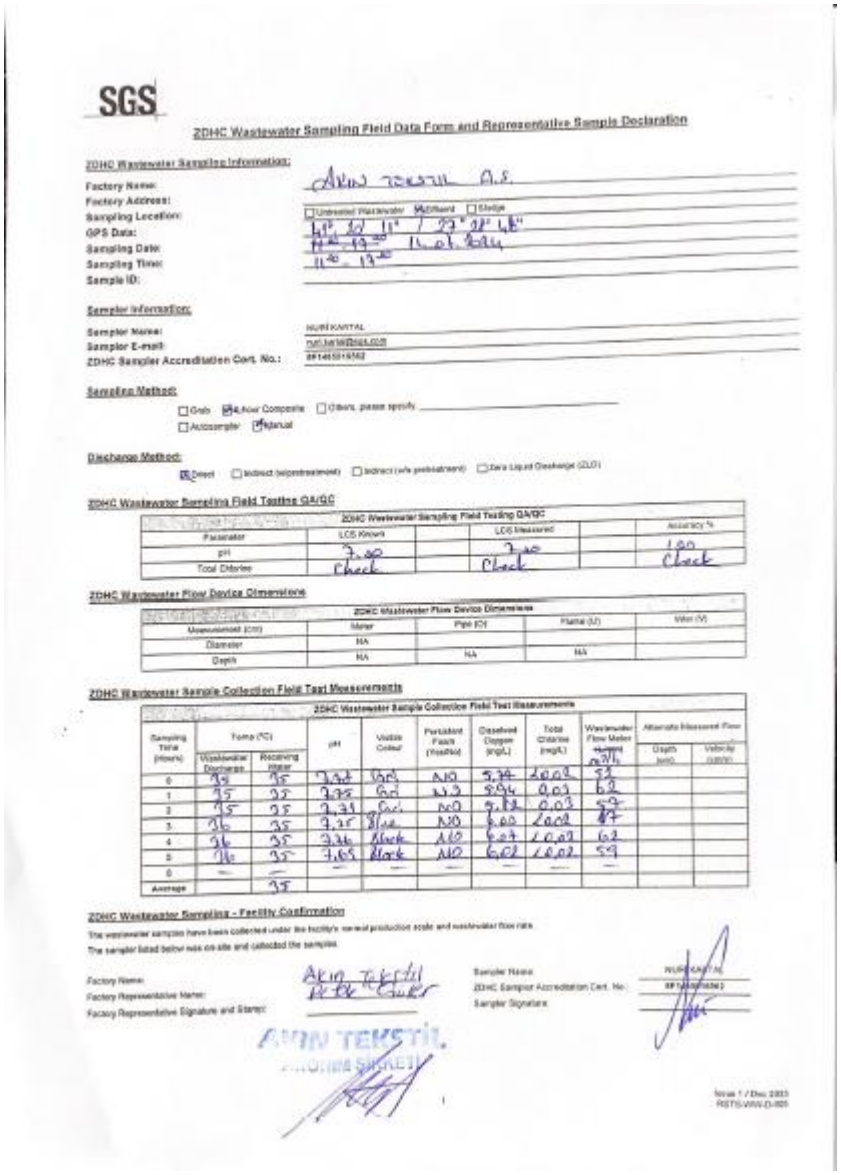
SAMPLING LOCATION, FAR VIEW

SLUDGE

GPS Data: 41°20'11"N 27°28'46"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: AKIN TEKSTIL A.S.
Factory Address:
Sampling Location: ☐Untreated Wastewater ☑Effluent ☐Sludge
GPS Data: 41° 10' 11" / 29° 22' 48"
Sampling Date: 14.08.2024
Sampling Time: 11:40 - 13:40
Sample ID:

Sampler Information:

Sampler Name: NURİ KANTAL
Sampler E-mail:
ZDHC Sampler Accreditation Cert. No.:

Sampling Method:

☐Grab ☑4-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	Check		Check	Check

ZDHC Wastewater Flow Device Dimensions

ZDHC Wastewater Flow Device Dimensions				
Measurement (cm)	Meter	Pipe (D)	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 (Hour's)	Temp (°C)		pH	Visible Colour	Persistent Foam (Yes/No)	Dissolved Oxygen (mg/L)	Total Chlorine (mg/L)	Wastewater Flow Meter (L/s)	Alternate Measured Flow	
	Wastewater Discharge	Receiving Water							Depth (cm)	Velocity (cm/s)
0	36	35	7.32	Dark	NO	5.74	2.03	52		
1	35	35	7.35	Dark	NO	5.96	0.03	52		
2	35	35	7.31	Dark	NO	5.82	0.03	59		
3	36	35	7.25	Black	NO	6.00	2.02	87		
4	36	35	7.36	Black	NO	6.04	2.02	62		
5	36	35	7.65	Black	NO	6.02	2.02	59		
6	—	—	—	—	—	—	—	—		
Average		35								

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: Akın Tekstil A.Ş.
Factory Representative Name:
Factory Representative Signature and Stamp:

AKIN TEKSTİL A.Ş.

Sampler Name: NURİ KANTAL
ZDHC Sampler Accreditation Cert. No.:
Sampler Signature:

SGS

ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration

ZDHC Wastewater Sampling Information:

Factory Name: AKIN TEKSTİL A.Ş.
Factory Address:
Sampling Location: ☒ Untreated Wastewater ☐ Effluent ☐ Sludge
GPS Data: 41° 11' 12" / 29° 21' 45"
Sampling Date: 16.07.2024
Sampling Time: 11:00 - 17:00
Sample ID:

Sampler Information:

Sampler Name: NURİ KARTAL
Sampler E-mail: nuri.kartal@sgs.com
ZDHC Sampler Accreditation Cert. No.: [illegible]

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	Check		Check		Check

ZDHC Wastewater Flow Device Dimensions

ZDHC Wastewater Flow Device Dimensions				
Measurement (unit)	Meter	Pipe (D)	Flume (W)	Weir (W)
Diameter	NA			
Depth	NA	NA	NA	

ZDHC Wastewater Sample Collection Field Test Measurements

Sampling Time (Hours)	Temp (°C) Wastewater Discharge	Temp (°C) Receiving Water	pH	Visible Colour	Persistent Foam (Yes/No)	Dissolved Oxygen (mg/L)	Total Chlorine (mg/L)	Wastewater Flow Meter (L/min)	Alternate Measured Flow Depth (cm)	Alternate Measured Flow Velocity (cm/s)
0	39.5		10.75	Black	NO	5.14				
1	39		10.44	Black	NO	5.28				
2	39		10.52	Black	NO	5.31				
3	40		10.67	Black	NO	5.31				
4	40		10.92	Black	NO	4.94				
5	40		10.17	Black	NO	5.19				
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: AKIN TEKSTİL
Factory Representative Name: Peter Güler
Factory Representative Signature and Stamp: AKIN TEKSTİL ... ŞİRKETİ

Sampler Name: NURİ KARTAL
ZDHC Sampler Accreditation Cert. No.: [illegible]
Sampler Signature:

Issue 1 / Dec 2023
RSTS-WW-D-006

SGS

ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration

ZDHC Wastewater Sampling Information:

Factory Name: Akın Tekstil A.Ş.
Factory Address: [illegible handwritten address]
Sampling Location: ☐ Untreated Wastewater ☐ Effluent ☑ Sludge
GPS Data:
Sampling Date: 16.08.2024
Sampling Time: 16[illegible]
Sample ID:

Sampler Information:

Sampler Name: NURI KARTAL
Sampler E-mail: [illegible]@sgs.com
ZDHC Sampler Accreditation Cert. No.: BF[illegible]

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 (unit)	Meter	Pipe (D)	Flume (U)	Weir (V)
Diameter	NA			
Depth	NA	NA	NA	

ZDHC Wastewater Sample Collection Field Test Measurements

Sampling Time (Hours)	Temp (°C) Wastewater Discharge	Temp (°C) Receiving Water	pH	Visible Colour	Persistent Foam (Yes/No)	Dissolved Oxygen (mg/L)	Total Chlorine (mg/L)	Wastewater Flow Meter (L/min)	Alternate Measured Flow Depth (cm)	Alternate Measured Flow 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: Akın Tekstil
Factory Representative Name: [illegible handwritten name]
Factory Representative Signature and Stamp: AKIN TEKSTİL [stamp, signature]

Sampler Name: NURI KARTAL
ZDHC Sampler Accreditation Cert. No.: BF[illegible]
Sampler Signature: [signature]

Issue 1 / Dec 2023
[illegible]

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 ***