

Technical Report

(7221)287-0229

November 2nd, 2021

Date Received

October 20th, 2021

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Factory Company Name:

AKKUS TEKSTIL SAN. TIC. A.S.

Factory Address:

CIHANGIR 19.SEHIT PIYADE ER YAVUZ BAHAR SOK. 34310
AVCILAR/ISTANBUL

Project No.:

N/A

Client Reference No.:

N/A

Sampling Method:

I001) Raw Wastewater – 6 hours - Time – weighted Composite
I002) Treated Wastewater – 6 hours - Time – weighted Composite

Sample Pick Up Date:

October 20th, 2021

Wastewater Discharge to:

Municipal ETP

On-Site Effluent Treatment
Plant (ETP):

Yes

Discharge Type:

Indirect Discharge

Off-site ETP name (if
applicable):

Istanbul Water and Sewerage Administration

Off-site ETP address (if
applicable):

Yakuplu, Botas No:11 D:13, 34524 Beylikduzu/Istanbul

Local Regulation: / Ordinance /
requirements related to
wastewater discharged are
followed:

Tablo 1:Desarj Limitleri Atiksularin Atiksu Altyapi Tesislerine Desarjinda Ongorulen
Atiksu Standartlari (See Appendix D)

Permit Validation Date:

The permit validation date is not valid.

Parameters Exceeded Local
Regulation

1A)Conventional Parameters (TSS)

Legal compliance:

Not comply

Conventional Parameters

Not comply with discharge license document

Overall Category:

Test Period:

October 21st, 2021- November 2nd, 2021

Sample Description:

I001) Blue/Dark blue/Light blue liquid– Raw Wastewater
I002) Blue/Dark blue liquid – Treated Wastewater

Parameters exceeded maximum
holding time:

N/A



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REMARK1: Analysis of Table1 conventional parameters, except pH, temperature, heavy metals have subcontracted to local accredited laboratories. (Accreditation number no: AB-0363-T AB-0012-T AB-0241-T)

REMARK2: Please refer to discharge criteria of the offsite ETP attached at the end of this report.

REMARK

If there are questions or concerns on this report, please contact the following persons:

General enquiry and invoicing

Kerem Can Kerem.can@bureauveritas.com

Technical enquiry-Chemical

Ayca Cevikus Ayca.cevikus@bureauveritas.com

This report shown the test result of the auxiliary chemical and/or raw material samples, which collected during particular factory audit. The results of this report shall not be used for any regulatory compliance purposes.

* The sampling is agreed with client.

PREPARED BY: **Ayca Cevikus**
MEA CDM Manager
Zero Discharge & Higg
Verification &
Environmental

Kerem Can
Deputy General Manager
& Operation Manager



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Executive Summary

1A) Conventional	I001	I002
Temperature	NR	□
TSS		■
COD		□
Total-N		N/A
pH Value		□
Color [m ⁻¹] (436nm; 525nm; 620nm)		N/A
BOD ₅		N/A
Ammonium-N		N/A
Total-P		N/A
AOX		N/A
Oil and Grease		□
Phenol		□
Coliform		N/A
Persistent Foam		N/A
ANIONS - Cyanide		□
ANIONS - Sulfide		□
ANIONS - Sulfite		N/A
1B) Conventional Parameters – METALS	N/A	□

Note / Key :

- □ – Meet discharge license criteria
- ■ – Exceeding discharge license criteria
- NR – Not Requested / Not required
- N/A – Not Applicable

ZDHC MRSL Substances	I001	I002
2A) APs and APEOs	o	o
2B) Chlorobenzenes and Chlorotoluenes	o	o
2C) Chlorophenols	o	o
2D) Azo Dyes	o	o
2E) Carcinogenic Dyes	o	o
2F) Disperse Dyes	o	o
2G) Flame Retardants	o	o
2H) Glycols	o	o
2I) Halogenated Solvents	o	o
2J) Organotin Compounds	o	o
2K) Perfluorinated and Polyfluorinated	o	o
2L) Phthalates	o	o
2M) Poly Aromatic Hydrocarbons	o	o
2N) Volatile Organic Compounds	o	o

Note / Key :

- ● – Detected
- o – Not Detected
- NR – Not Requested
- N/A – Not Applicable



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Objective

The environment samples were tested for below parameters.

- 1A) Conventional Parameters
- 1B) Conventional Parameters – METALS
- 2A) APs and APEOs
- 2B) Chlorobenzenes and Chlorotoluenes
- 2C) Chlorophenols
- 2D) Azo Dyes
- 2E) Carcinogenic Dyes
- 2F) Disperse Dyes
- 2G) Flame Retardants
- 2H) Glycols
- 2I) Halogenated Solvents
- 2J) Organotin Compounds
- 2K) Perfluorinated and Polyfluorinated Chemicals
- 2L) Phthalates
- 2M) Poly Aromatic Hydrocarbons
- 2N) Volatile Organic Compounds

Sampling Plan

Basically, two environment samples were sampled per factory, including 1) Raw Wastewater and 2) Discharged Wastewater. Total number of sample collected will be depended on the actual factory facilities and manufacturing processes.

Method of sampling used is time-weighted composite samples based on the ZDHC Wastewater Guidelines. Composite sampling is performed for no less than six hours, with no more than one hour between discrete samples. Each discrete sample is of equal volume. Wastewater and freshwater samples is, as much as possible, collected simultaneously, during the time that PU is in normal operation. The sampling aims to analyse the snapshot of water quality characteristics of the operating PU. Under no circumstance shall samples be taken during times when the production process is not running or the wastewater is diluted due to heavy rainfall, etc.

Remark :

- Sampling procedure is with reference to below standards:
 - 1) South Australia EPA Guidelines (June 2007), Regulatory Monitoring and Testing Water and Wastewater Sampling.
 - 2) Australia EPA (Victoria) Guideline (June 2009), Sampling and Analysis of Waters, Wastewaters, Soils and Wastes.
 - 3) ISO 5667-3:2003, Water Quality - Sampling - Part 3: Guidance on the Preservation and Handling of Water Samples.
 - 4) ASTM D3976-92 (Reapproved 2010), Standard Practice for Preparation of Sediment Samples for Chemical Analysis.
- Field data records are attached in Appendix C.



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Test Result

1A) Conventional Parameters

Temperature

Test Method : Measurement by U. S. EPA170.1

Tested Item(s)	Result	Unit	Conclusion
I002	▲ 2.6 / max. 27.3 °C (Comply with discharge license)	deg. C	DATA

Note:

deg. C = degree Celsius (°C)

Discharge License Criteria: 50 °C

Total Suspended Solids (TSS)

Test Method : Reference to APHA 2540 D

Tested Item(s)	Result	Unit	Conclusion
I002	676 (Not comply with discharge license)	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: 500 mg/L

Chemical Oxygen Demand (COD)

Test Method : Reference to APHA 5220 D

Tested Item(s)	Result	Unit	Conclusion
I002	355.9 (Comply with discharge license)	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: 1000 mg/L

Total Nitrogen (Total-N)

Test Method : Reference to SM 4500-Norg:B, SM 4500-NO3:E

Tested Item(s)	Result	Unit	Conclusion
I002	19.26	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable



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pH Value

Test Method : Reference to U. S. EPA 150.1

-	Unit	Result
Test Item(s)	-	I002
Parameter	-	-
Temp. of sample	deg. C	25
pH value of sample	-	7.59 (Comply with discharge license)
Conclusion	-	DATA

Note:

Temp. = Temperature deg. C = degree Celsius (°C)

Discharge License Criteria: 6-12

Color [m⁻¹] (436nm; 525nm; 620nm)

Test Method : With reference to ISO 7887-B

Tested Item(s)	Result	Unit	Conclusion
I002	2.2; 0.9; 0.5	m ⁻¹	DATA

Note:

Discharge License Criteria: Not Applicable

Biochemical Oxygen Demand (BOD₅)

Test Method : Reference to APHA 5210B (5 days)

Tested Item(s)	Result	Unit	Conclusion
I002	126.5	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable

Ammonium Nitrogen

Test Method : Reference to APHA 4500 NH₃ B,F

Tested Item(s)	Result	Unit	Conclusion
I002	1.01	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable



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Total Phosphorus (Total-P)

Test Method : Reference to APHA 4500-P B,C

Tested Item(s)	Result	Unit	Conclusion
I002	24.7	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable

Adsorbable Organic Halogens (AOX)

Test Method : Reference to ISO 9562

Tested Item(s)	Result	Unit	Conclusion
I002	2	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable

Oil and Grease

Test Method : Reference to ISO 9377-2

Tested Item(s)	Result	Unit	Conclusion
I002	<0.003 (Comply with discharge license)	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: 150 mg/L

Phenol

Test Method : Reference to APHA 5530 B,D

Tested Item(s)	Result	Unit	Conclusion
I002	<0.1 (Comply with discharge license)	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: 10 mg/L



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Coliform

Test Method : Reference to ISO 9308-1

Tested Item(s)	Result	Unit	Conclusion
I002	800	bacteria/ 100 mL	DATA

Note:

bacteria/100 mL = bacteria per 100 milliliters

Discharge License Criteria: Not Applicable

Remark: Due to the colonies is huge, result of coliform content is base on sample having dilution factor 10000 times

Persistent Foam

Test Method : Visual

Tested Item(s)	Result	Unit	Conclusion
I002	No foam	-	DATA

Discharge License Criteria: Not Applicable

ANIONS - Cyanide

Test Method : Reference to SM 4500-CN C/ SM 4500-CN E

Tested Item(s)	Result	Unit	Conclusion
I002	<0.01 (Comply with discharge license)	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: 10 mg/L

ANIONS - Sulfide

Test Method : Reference to APHA 4500 S²⁻-D

Tested Item(s)	Result	Unit	Conclusion
I002	0.24 (Comply with discharge license)	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: 2 mg/L

ANIONS - Sulfite

Test Method : Reference to SM 4500-SO₃-2 C

Tested Item(s)	Result	Unit	Conclusion
I002	0.29	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable

1B) Conventional Parameters – METALS

Heavy Metals	I001 (mg/L)	I002 (mg/L)
Antimony(Sb) Discharge License Criteria: Not applicable	ND	ND
Chromium(Cr), total Discharge License Criteria: 5 mg/L	0.6	0.297 (Comply with discharge license)
Cobalt(Co) Discharge License Criteria: Not applicable	0.0133	0.0044
Copper(Cu) Discharge License Criteria: 5 mg/L	0.1166	0.0235 (Comply with discharge license)
Nickel (Ni) Discharge License Criteria: 5 mg/L	0.2861	0.0164 (Comply with discharge license)
Silver (Ag) Discharge License Criteria: Not applicable	ND	ND
Zinc(Zn) Discharge License Criteria: 10 mg/L	0.1833	0.0653 (Comply with discharge license)
Arsenic (As) Discharge License Criteria: 3 mg/L	0.0041	0.0033 (Comply with discharge license)
Cadmium(Cd) Discharge License Criteria: 2 mg/L	ND	ND (Comply with discharge license)
Chromium VI(CrVI) Discharge License Criteria: Not applicable	ND	ND
Lead(Pb) Discharge License Criteria: 3 mg/L	0.024	0.012 (Comply with discharge license)
Mercury (Hg) Discharge License Criteria: 0.2 mg/L	ND	ND (Comply with discharge license)



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Others Priority Chemical Groups

	I001 (ug/L)	I002 (ug/L)
2A) APs and APEOs	ND	ND
2B) Chlorobenzenes and Chlorotoluenes	ND	ND
2C) Chlorophenols	ND	ND
2D) Azo Dyes	ND	ND
2E) Carcinogenic Dyes	ND	ND
2F) Disperse Dyes	ND	ND
2G) Flame Retardants	ND	ND
2H) Glycols	ND	ND
2I) Halogenated Solvents	ND	ND
2J) Organotin Compounds	ND	ND
2K) Perfluorinated and Polyfluorinated Chemicals	ND	ND
2L) Phthalates	ND	ND
2M) Poly Aromatic Hydrocarbons	ND	ND
2N) Volatile Organic Compounds	ND	ND

Remark :

- Test method, reporting limit and list of chemical are summarized in tables of Appendix A
- ND = Not detected (Please refer to reporting limit shown in Appendix A.).
- All results are in ppb as unit.
- ppm = part(s) per million; ppb = part(s) per billion.

APPENDIX A - Photo of the Sample/ Sampling Location

I001) Sampling Point
N/S 40° 59' 19.00"
E/W 28° 41' 48.91"



I001) Sampling Point Surrounding Environment
N/S 40° 59' 19.00"
E/W 28° 41' 48.91"



I001) All sampled bottles with label



I001) pH value



I001) Sample for Phthalate Testing



I001) Packaging



I002) Sampling Point
N/S 40° 59' 19.00"
E/W 28° 41' 48.91"



I002) Sampling Point Surrounding Environment
N/S 40° 59' 19.00"
E/W 28° 41' 48.91"



I002) All sampled bottles with label



I002) pH value



I002) Sample for Phthalate Testing



I002) Packaging





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APPENDIX B

Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
2A. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	Nonylphenol NP, mixed isomers	Various (incl. 104-40-5, 11066-49-2, 25154-52-3, 84852-15-3)	5	0.4	NP/OP: ISO 18857-2 (modified dichloromethane extraction) or ASTM D7065 (GC/MS or LC/MS(-MS)) OPEO/NPEO: ISO18857-2 or ASTM D7065(LC/MS; GC/MS or LC/MSMS for n=1,2) APEO 1-18
	Octylphenol OP, mixed isomers	Various (incl. 140-66-9, 1806-26-4, 27193-28-8)	5	0.4	
	Octylphenol ethoxylates (OPEO)	Various (incl. 9002-93-1, 9036-19-5, 68987-90-6)	5	0.4	
	Nonylphenol ethoxylates (NPEO)	Various (inc. 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0)	5	0.4	
2B. Chlorobenzenes and Chlorotoluenes	Monochlorobenzene	108-90-7	0.2	0.2	USEPA 8260B,8270D. Dichloromethane extraction followed by GC/MS
	1,2-Dichlorobenzene	95-50-1	0.2	0.2	
	1,3-Dichlorobenzene	541-73-1	0.2	0.2	
	1,4-Dichlorobenzene	106-46-7	0.2	0.2	
	1,2,3-Trichlorobenzene	87-61-6	0.2	0.2	
	1,2,4-Trichlorobenzene	120-82-1	0.2	0.2	
	1,3,5-Trichlorobenzene	108-70-3	0.2	0.2	
	1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	0.2	
	1,2,3,5-Tetrachlorobenzene	634-90-2	0.2	0.2	
	1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	0.2	
	Pentachlorobenzene	608-93-5	0.2	0.2	
	Hexachlorobenzene	118-74-1	0.2	0.2	
	2-Chlorotoluene	95-49-8	0.2	0.2	
	3-Chlorotoluene	108-41-8	0.2	0.2	
	4-Chlorotoluene	106-43-4	0.2	0.2	
	2,3-Dichlorotoluene	32768-54-0	0.2	0.2	
	2,4-Dichlorotoluene	95-73-8	0.2	0.2	
	2,5-Dichlorotoluene	19398-61-9	0.2	0.2	
	2,6-Dichlorotoluene	118-69-4	0.2	0.2	
	3,4-Dichlorotoluene	95-75-0	0.2	0.2	
	3,5-Dichlorotoluene	25186-47-4	0.2	0.2	
	2,3,4-Trichlorotoluene	7359-72-0	0.2	0.2	
	2,3,6-Trichlorotoluene	2077-46-5	0.2	0.2	
	2,4,5-Trichlorotoluene	6639-30-1	0.2	0.2	
	2,4,6-Trichlorotoluene	23749-65-7	0.2	0.2	
	3,4,5-Trichlorotoluene	21472-86-6	0.2	0.2	
	2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	0.2	
	2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	0.2	
	2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	0.2	
	Pentachlorotoluene	877-11-2	0.2	0.2	
2C. Chlorophenols	2-Chlorophenol	95-57-8	0.5	0.05	USEPA 8270 D Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC/MS
	3-Chlorophenol	108-43-0	0.5	0.05	
	4-Chlorophenol	106-48-9	0.5	0.05	
	2,3-Dichlorophenol	576-24-9	0.5	0.05	
	2,4-Dichlorophenol	120-83-2	0.5	0.05	
	2,5-Dichlorophenol	583-78-8	0.5	0.05	



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Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	2,6-Dichlorophenol	87-65-0	0.5	0.05	
	3,4-Dichlorophenol	95-77-2	0.5	0.05	
	3,5-Dichlorophenol	591-35-5	0.5	0.05	
	2,3,4-Trichlorophenol	15950-66-0	0.5	0.05	
	2,3,5-Trichlorophenol	933-78-8	0.5	0.05	
	2,3,6-Trichlorophenol	933-75-5	0.5	0.05	
	2,4,5-Trichlorophenol	95-95-4	0.5	0.05	
	2,4,6-Trichlorophenol	88-06-2	0.5	0.05	
	3,4,5-Trichlorophenol	609-19-8	0.5	0.05	
	2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	0.05	
	2,3,4,6-Tetrachlorophenol	58-90-2	0.5	0.05	
	2,3,5,6-Tetrachlorophenol	935-95-5	0.5	0.05	
	Pentachlorophenol (PCP)	87-86-5	0.5	0.05	
2D. Dyes - Azo (Forming Restricted Amines)	4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	0.1	0.2	EN 14362. Reduction step with Sodiumdithionite, solvent extraction, GC/MS or LC/MS
	4,4'-methylenedianiline	101-77-9	0.1	0.2	
	4,4'-Oxydianiline	101-80-4	0.1	0.2	
	4-Chloroaniline	106-47-8	0.1	0.2	
	3,3'-Dimethoxybenzidine	119-90-4	0.1	0.2	
	3,3'-Dimethylbenzidine	119-93-7	0.1	0.2	
	6-methoxy-m-toluidine (p-Cresidine)	120-71-8	0.1	0.2	
	2,4,5-Trimethylaniline	137-17-7	0.1	0.2	
	4,4'-Thiodianiline	139-65-1	0.1	0.2	
	4-Aminoazobenzene	60-09-3	0.1	0.2	
	4-Methoxy-m-phenylenediamine	615-05-4	0.1	0.2	
	4,4'-Methylene-di-o-toluidine	838-88-0	0.1	0.2	
	2,6-Xylidine	87-62-7	0.1	0.2	
	o-Anisidine	90-04-0	0.1	0.2	
	2-Naphthylamine	91-59-8	0.1	0.2	
	3,3'-Dichlorobenzidine	91-94-1	0.1	0.2	
	4-Aminodiphenyl	92-67-1	0.1	0.2	
	Benzidine	92-87-5	0.1	0.2	
	o-Toluidine	95-53-4	0.1	0.2	
	2,4-Xylidine	95-68-1	0.1	0.2	
	4-Chloro-o-toluidine	95-69-2	0.1	0.2	
	4-Methyl-m-phenylenediamine	95-80-7	0.1	0.2	
	o-Aminoazotoluene	97-56-3	0.1	0.2	
	5-nitro-o-toluidine	99-55-8	0.1	0.2	
2E. Dyes-Carcinogenic or Equivalent Concern	C.I. Direct Black 38	1937-37-7	500	10	Liquid Extraction LC/MS
	C.I. Direct Blue 6	2602-46-2	500	10	
	C.I. Acid Red 26	3761-53-3	500	10	
	C.I. Basic Red 9	569-61-9	500	10	
	C.I. Direct Red 28	573-58-0	500	10	
	C.I. Basic Violet 14	632-99-5	500	10	
	C.I. Disperse Blue 1	2475-45-8	500	10	
	C.I. Disperse Blue 3	2475-46-9	500	10	
	C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	500	10	
	C.I. Basic Green 4	569-64-2	500	10	



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			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	(malachite green chloride)				
	C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	500	10	
	C.I. Basic Green 4(malachite green)	10309-95-2	500	10	
	Disperse Orange 11	82-28-0	500	10	
2F. Dyes-disperse (sensitizing)	Disperse Yellow 1	119-15-3	50	2	Liquid Extraction LC/MS
	Disperse Blue 102	12222-97-8	50	2	
	Disperse Blue 106	12223-01-7	50	2	
	Disperse Yellow 39	12236-29-2	50	2	
	Disperse Orange 37/59/76	13301-61-6	50	2	
	Disperse Brown 1	23355-64-8	50	2	
	Disperse Orange 1	2581-69-3	50	2	
	Disperse Yellow 3	2832-40-8	50	2	
	Disperse Red 11	2872-48-2	50	2	
	Disperse Red 1	2872-52-8	50	2	
	Disperse Red 17	3179-89-3	50	2	
	Disperse Blue 7	3179-90-6	50	2	
	Disperse Blue 26	3860-63-7	50	2	
	Disperse Yellow 49	54824-37-2	50	2	
	Disperse Blue 35	12222-75-2	50	2	
	Disperse Blue 124	61951-51-7	50	2	
	Disperse Yellow 9	6373-73-5	50	2	
	Disperse Orange 3	730-40-5	50	2	
	Disperse Blue 35	56524-77-7	50	2	
2G. Flame Retardants	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	5	1	ISO 22032, USEPA527 and USEPA8321B. Dichloromethane extraction GC/MS or LC/MS(-MS)
	Decabromodiphenyl ether (DecaBDE)	1163-19-5	5	1	
	Tris(2,3-dibromopropyl) phosphate (TRIS/TDBPP)	126-72-7	5	1	
	Pentabromodiphenyl ether (PentaBDE)	32534-81-9	5	1	
	Octabromodiphenyl ether (OctaBDE)	32536-52-0	5	1	
	Bis(2,3-dibromopropyl) phosphate (BIS/BDBPP)	5412-25-9	5	1	
	Tris(aziridinyl)-phosphineoxide (TEPA)	545-55-1	5	1	
	Polybromobiphenyls (PBBs)	59536-65-1	5	1	
	Tetrabromobisphenol A (TBBPA)	79-94-7	5	1	
	Hexabromocyclododecane (HBCDD)	3194-55-6	5	1	
	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	5	1	
	Tris(1,3-dichloroisopropyl) phosphate (TDCP)	13674-87-8	5	1	
	Short chain chlorinated paraffins (SCCPs) (C10-C13)	85535-84-8	5	1	
2H. Glycols	Bis(2-methoxyethyl)-ether	111-96-6	50	10	US EPA 8270

Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	2-ethoxyethanol	110-80-5	50	10	Liquid Extraction LC/MS
	2-ethoxyethyl acetate	111-15-9	50	10	
	Ethylene glycol dimethyl ether	110-71-4	50	10	
	2-methoxyethanol	109-86-4	50	10	
	2-methoxyethylacetate	110-49-6	50	10	
	2-methoxypropylacetate	70657-70-4	50	10	
	Triethylene glycol dimethyl ether	112-49-2	50	10	
2I. Halogenated Solvents	1,2-Dichloroethane	107-06-2	1	2	USEPA 8260B Headspace GC/MS or Purgeand-Trap-GC/MS
	Methylene Chloride	75-09-2	1	2	
	Trichloroethylene	79-01-6	1	2	
	Tetrachloroethylene	127-18-4	1	2	
2J. Organotin Compounds	Mono-, di- and tri-methyltin derivatives	Multiple	0.01	0.2	ISO 17353 Derivatisation with NaB(C ₂ H ₅) GC/MS
	Mono-, di- and tri-butyltin derivatives	Multiple	0.01	0.2	
	Mono-, di- and tri-phenyltin derivatives	Multiple	0.01	0.2	
	Mono-, di- and tri-octyltin derivatives	Multiple	0.01	0.2	
	Monomethyltin	Multiple	0.01	0.2	
	Dimethyltin	Multiple	0.01	0.2	
	Trimethyltin	Multiple	0.01	0.2	
	Monobutyltin	Multiple	0.01	0.2	
	Dibutyltin	Multiple	0.01	0.2	
	Tributyltin	Multiple	0.01	0.2	
	Monophenyltin	Multiple	0.01	0.2	
	Diphenyltin	Multiple	0.01	0.2	
	Triphenyltin	Multiple	0.01	0.2	
	Monooctyltin	Multiple	0.01	0.2	
	Dioctyltin	Multiple	0.01	0.2	
	Trioctyltin	Multiple	0.01	0.2	
2K. Perfluorinated and Polyfluorinated Chemicals (PFCs)	Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.01	0.10	DIN 38407-42 (modified) Ionic PFC: Concentration or direct injection, LC/MS(-MS); Non-ionic PFC (FTOH): derivatisation with acetic anhydride, followed by GC/MS
	Perfluoro-n-octanoic acid (PFOA)	335-67-1	0.01	0.10	
	Perfluorobutanesulfonic acid (PFBS)	29420-49-3, 29420-43-3	0.01	0.10	
	Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	0.01	0.10	
	8:2 FTOH	678-39-7	1	1	
	6:2 FTOH	647-42-7	1	1	
2L. Phthalates (including all other esthers of phthalic acid)	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	10	2	US EPA 8270D, ISO 18856 Dichloromethane extraction GC/MS
	Dimethoxyethyl phthalate (DMEP)	117-82-8	10	2	
	Di-n-octyl phthalate (DNOP)	117-84-0	10	2	
	Di-iso-decyl phthalate (DIDP)	26761-40-0	10	2	
	Di-iso-nonyl phthalate (DINP)	28553-12-0	10	2	
	Di-n-hexyl phthalate	84-75-3	10	2	



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Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	(DnHP)				
	Dibutyl phthalate (DBP)	84-74-2	10	2	
	Butyl benzyl phthalate (BBP)	85-68-7	10	2	
	Dinonyl phthalate (DNP)	84-76-4	10	2	
	Diethyl phthalate (DEP)	84-66-2	10	2	
	Di-n-propyl phthalate (DPRP)	131-16-8	10	2	
	Di-iso-butyl phthalate (DIBP)	84-69-5	10	2	
	Di-cyclohexyl phthalate (DCHP)	84-61-7	10	2	
	Di-iso-octyl phthalate (DIOP)	27554-26-3	10	2	
	1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP)	68515-42-4	10	2	
	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	10	2	
2M. Poly Aromatic Hydrocarbons (PAHs)	Benzo[a]pyrene (BaP)	50-32-8	1	0.2	DIN 38407-39 Solvent extraction GC/MS
	Anthracene	120-12-7	1	0.2	
	Pyrene	129-00-0	1	0.2	
	Benzo[ghi]perylene	191-24-2	1	0.2	
	Benzo[e]pyrene	192-97-2	1	0.2	
	Indeno[1,2,3-cd]pyrene	193-39-5	1	0.2	
	Benzo[j]fluoranthene	205-82-3	1	0.2	
	Benzo[b]fluoranthene	205-99-2	1	0.2	
	Fluoranthene	206-44-0	1	0.2	
	Benzo[k]fluoranthene	207-08-9	1	0.2	
	Acenaphthylene	208-96-8	1	0.2	
	Chrysene	218-01-9	1	0.2	
	Dibenz[a,h]anthracene	53-70-3	1	0.2	
	Benzo[a]anthracene	56-55-3	1	0.2	
	Acenaphthene	83-32-9	1	0.2	
	Phenanthrene	85-01-8	1	0.2	
	Fluorene	86-73-7	1	0.2	
	Naphthalene	91-20-3	1	0.2	
2N. Volatile Organic Compound (VOCs)	Benzene	71-43-2	1	2	ISO 11423-1 Headspace- or Purge-and-Trap-GC/MS
	Xylene	1330-20-7	1	2	
	o-cresol	95-48-7	1	2	
	p-cresol	106-44-5	1	2	
	m-cresol	108-39-4	1	2	
1A. Conventional Parameters	Temperature	—	N/A	N/A	Apply the standard methods that best apply to the region (ISO, EU, US, China), please refer to ZDHC Wastewater Guidelines for more details on the testing method and the levels
	TSS	—	N/A	N/A	
	COD	—	N/A	N/A	
	Total-N	—	N/A	N/A	
	pH	—	N/A	N/A	
	Color [m ⁻¹] (436nm; 525nm; 620nm)	—	N/A	N/A	
	BOD5	—	N/A	N/A	



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Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	Ammonium-N	—	N/A	N/A	(Foundational, Progressive, and Aspirational). Cyanide: With reference to APHA 4500 CN—B,C&E and followed by UV analysis
	Total-P	—	N/A	N/A	
	AoX	—	N/A	N/A	
	Oil and Grease	—	N/A	N/A	
	Phenol	—	N/A	N/A	
	Coliform(bacteria/100ml)	—	N/A	N/A	
	Persistent Foam	—	Not visible	Not visible	
	ANIONS				
	Cyanide(CN-)	Various (incl. 57-12-5)	0.02	1	
	Sulfide	—	N/A	N/A	
	Sulfite	—	N/A	N/A	
Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (mg/L) / (ppm)	Sludge (mg/kg) / (ppm)	
1B. Conventional Parameters - METALS	Antimony(Sb)	7440-36-0	0.001	N/A	Various Acid Digestion with ICP analysis please refer to ZDHC Wastewater Guidelines for more details on the testing method and the levels (Foundational, Progressive, and Aspirational). Cr(VI): Various Solvent extraction and derivatisation followed by UV analysis
	Chromium(Cr), total	7440-47-3	0.001	N/A	
	Cobalt(Co)	7440-48-4	0.001	N/A	
	Copper(Cu)	7440-50-8	0.001	N/A	
	Nickel(Ni)	7440-02-0	0.001	N/A	
	Silver(Ag)	7440-22-4	0.001	N/A	
	Zinc(Zn)	7440-66-6	0.001	N/A	
	Arsenic(As)	7440-38-2	0.001	2	
	Cadmium(Cd)	7440-43-9	0.0001	2	
	Chromium VI(CrVI)	18540-29-9	0.001	2	
	Lead(Pb)	7439-92-1	0.001	2	
	Mercury(Hg)	7439-97-6	0.00005	0.2	
3. Conventional Parameters	Dry mass (total solids)	—	N/A	N/A	US EPA 160.3 / 209A

Note / Key :

ppm = part(s) per million; ppb = part(s) per billion

U. S. EPA = United States Environmental Protection Agency

APHA = American Public Health Association



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APPENDIX C – Onsite Field Data Record Sheet

FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)		CPSD-AN-00613-DATA 04	
		Issue Date:	
		Version No.: 14	
		Business Line: Analytical	

General Data

Laboratory Sample Number: 72212870229

Client Name: AKKUS TEKSTIL SAN. TIC. A.S.

Field Contact Person: KORAY ARSLAN Phone No: 05425095731

Project (Facility Name and Address): CIHANGIR 19, SEHIT PIYADE YAVUZ BAHAR SOK. 34310 AVCILAR-ISTANBUL/TURKEY

Sampling Location / Description: BEFORE TREATMENT

Sample Identification: Zero discharge with sampling plan

Sample Type: Composite Sample

Name of Sampler: Emre OPAK

Discharge mode: Direct discharge to environment (Specify destination: River, Sea, Stream...) Or Indirect discharge to sewage treatment plant

Date of collection: 20.10.2021

Factory Type: Dyeing / Printing / Washing / Finishing / Others (please specify):


*Note: It would be selected more than one

Field Data for Wastewater

Arrival Time:	Departure Time:
Field Parameters	pH: Temp: °C Color: Flow rate: (volume/min)
Control No. of field equipment	
Factory with effluent treatment plant:	Yes No
Sample matrix:	Incoming water (if required)
	x Wastewater before treatment
	Wastewater after treatment – water at discharge point
Sampler container number	
	1 2 3 4 5 6 7 8
Recording time	ID Time
	09:10 10:10 11:10 12:10 13:10 14:10
pH:	8.06 7.63 6.91 7.22 7.59 7.81
Temp (°C):	25.1 24.8 25.5 26.8 25.3 25.9
Color (visual estimation):	Blue D.Blue L.Blue D.Blue Blue L.Blue
Flow rate (volume/time)	
Volume collected, mL	
Total volume collected	Remark: Total volume collected must be greater than total of sample size required

Analysis Required and Preservation Method

Tests (ZDHC MRSL Parameters)	Test required (Y)	Total of sample size	Type of container	Preservation method		
Combined test or Individual test (Remark 4)	1. Phthalate	✓	Amber Glass, washed with nitric acid.	Without adding acid Store sample at 2-8°C		
	2. Chlorobenzenes, Chlorotoluene & PAH	✓				
	3. SCCPs	✓				
	4. APS	✓				
5. APEOs	✓	100 mL				
6. Chlorophenols & Cresols	✓	100 mL				
7. Flame retardant	✓	500 mL				
8. Dyes	✓	10 mL				
9. Glycol	✓	50 mL				
10. *Pesticides		1000 mL				
11. *Nitrosamine		10 mL				
12. Banned Azodyes	✓	2000 mL				
13. *Free primary aromatic amines		500 mL				
14. Organotin Compounds	✓	500 mL				
15. VOC & Halogenated Solvents (Remark 6)	✓	10 mL				
16. PFCs (Remark 6)	✓	2 mL	PE, washed with pesticide grade Acetone	Without adding acid Store sample at 2-8°C		

	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)		CPSD-AN-00613-DATA 04
			Issue Date:
			Version No.: 14
		Business Line: Analytical	

Tests (Conventional Parameters)	Test required (v)	Total of sample size	Type of container	Preservation method
Combined test or Individual test (Remark 4)	17. Total suspended solids (TSS) 18. Total dissolved solids (TDS)	2000 mL total or 2000 mL each	Amber Glass, washed with nitric acid,	Without adding acid Store sample at 2-8°C
19. 5-day Biochemical Oxygen Demand (BOD5)		1000 mL		
20. Colour		100 mL		
21. Heavy Metals except Cr(VI) & Total-P (Remark 6)	√	9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO ₃ and store at 2-8°C
22. Cyanide		500 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% Na ₂ S ₂ O ₃ and store sample at 2-8°C
23. Cr(VI)	√	95 mL		Filter by 0.45µm filter in field, fill to full container without air gap, adjust pH to 9.0-9.5 by adding ammonium buffer. Store sample at 2-8°C
24. Chemical oxygen demand (COD)		150 mL		
25. Phenols		500 mL	Amber Glass; washed with nitric acid	Acidify to pH 2 with H ₂ SO ₄ Store sample at 2-8°C
26. Oil and Grease & Total Hydrocarbon		1000 mL		
27. *Formaldehyde		25 mL		Fill to full container without air gap; acidify to pH 2 with H ₂ SO ₄ and store sample at 2-8°C
28. Sulfide (Remark 5)		50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C
29. Total Coliform (Remark 6)		125 mL		
30. Faecal Coliform (Remark 6)		125 mL	PE, clean, sterile, non-reactive	Add 0.05 ml of 10% Na ₂ S ₂ O ₃ Store sample at 2-8°C
31. Persistent foam		N.A.	Foam higher than 45 cm (visual estimation): Yes / No	
32. Sulfite		100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA, 0.5g zinc acetate Store sample at 2-8°C
33. Total-N		100 mL		
34. Ammonium-N		500 mL		Acidify to pH 2 with H ₂ SO ₄ Store sample at 2-8°C
35. Adsorbable organically bound halogens (AOX)		100 mL		
36. Acute aquatic toxicity: Luminus Bacteria; Fish Egg; Daphne; Algae;		1000 mL	Amber Glass; washed with nitric acid;	Without adding acid Store sample at 2-8°C
37. Sulphate		100 mL		
38. Chloride		100 mL		
39. Others:				

*Remarks:

- Individual sampling can be performed upon request
- The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.
- Scope of ZDHC guideline: Parameter 1-9, 12, 14-17, 19-26, 28, 29, 31-35
Scope of synthetic leather industry: Parameter 1-9, 12, 14-21, 23-26, 28, 30, 31, 33, 34, 37, 38
Scope of MMCF: Parameter 5, 15, 17, 19-21, 23 - 26, 28, 33-36
Free primary aromatic amine, pesticides, nitrosamine and formaldehyde are not in the scope of ZDHC Guideline, they are tested upon request.
- Refer to CPSD-AN-G00019-STIP01, locations with those CPSD test capability inside TCD matrix can perform the combined test.
- Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.
- Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by:

Full name: Eray OPAK

Date:

20.10.2021

Comment from factory

Acknowledgement by factory

I hereby confirmed that Bureau Veritas has completed the stated sampling activity at captioned date, time and location. All sample(s) is/are collected in designated container(s) and without any observation in leakage. Sample(s) collected by Bureau Veritas is/are stored in portable freezer / fridge that is maintained in 1-6°C

Signatory of Factory Representative:

Full Name:

Moray Kaya
AKKUS TEKSTİL SAN.TİC. A.Ş.
Merkez: Organize San. Bölgesi V. Fikret Güven Cad.
19. Sok. No: 11 ATILIM / ARBİN
Şube: Çarşıyık Mah. Şehit Piyade Er Yavuz Bahar Sok.
No: 19 Avcılar / İSTANBUL
Mardin V.D: 031 058 1873 Tic. Sic. No: Merkez: 6071
Şube Tic. Sic. No: 930871-0

Date:

20.10.2021



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	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	CPSD-AN-00613-DATA 04
		Issue Date:
		Version No.: 14
		Business Line: Analytical

General Data

Laboratory Sample Number: 72212870229

Client Name: AKKUS TEKSTIL SAN. TIC. A.S.

Field Contact Person: KORAY ARSLAN Phone No: 05425095731

Project (Facility Name and Address): CİHANGİR 19, SEHİT PIYADE YAVUZ BAHAİR SOK. 34310 AVCILAR-İSTANBUL/TURKEY

Sampling Location / Description: AFTER TREATMENT

Sample Identification: Zero discharge with sampling plan

Sample Type: Composite Sample / Grab sample (Please delete as appropriate)

Name of Sampler: Emay ORAK

Discharge mode: Direct discharge to environment (Specify destination: River, Sea, Stream...) ☒ Indirect discharge to sewage treatment plant

Date of collection: 20.10.2021

Factory Type: Dyeing / Printing / Washing / Finishing / Others (please specify):


*Note: It would be selected more than one

Field Data for Wastewater

Arrival Time:			Departure Time:					
Field Parameters	pH:		Temp:	°C	Color:			
Control No. of field equipment								
Factory with effluent treatment plant:	<input checked="" type="radio"/> Yes <input type="radio"/> No							
Sample matrix:	Incoming water (If required)							
	Wastewater before treatment							
	x Wastewater after treatment – water at discharge point							
Sampler container number	1	2	3	4	5	6	7	8
Recording time	ID	Time						
pH:		09:20	10:20	11:20	12:20	13:20	14:20	
Temp (°C):		7.92	7.77	7.42	7.31	7.43	7.63	
Color (visual estimation):		24.7	25.7	26.1	27.3	27.0	26.6	
Flow rate (volume/time)		Blue	Blue	Blue	Blue	D.Blue	Blue	
Volume collected, mL								
Total volume collected		Remark: Total volume collected must be greater than total of sample size required						

Analysis Required and Preservation Method

Tests (ZDHC MRSL Parameters)		Test required (v)	Total of sample size	Type of container	Preservation method		
Combined test or Individual test (Remark 4)	1. Phthalate	√	1000 mL total or 1000 mL each	Amber Glass, washed with nitric acid,	Without adding acid Store sample at 2-8°C		
	2. Chlorobenzenes, Chlorotoluene & PAH	√					
	3. SCCPs	√					
	4. APS	√					
5. APEOs		√	100 mL				
6. Chlorophenols & Cresols		√	100 mL				
7. Flame retardant		√	500 mL				
8. Dyes		√	10 mL				
9. Glycol		√	50 mL				
10. *Pesticides			1000 mL				
11. *Nitrosamine			10 mL				
12. Banned Azodyes		√	2000 mL				
13. *Free primary aromatic amines			500 mL				
14. Organotin Compounds		√	500 mL				
15. VOC & Halogenated Solvents (Remark 6)		√	10 mL				Fill to full container without air gap; acidify to pH 2 with HCl and store sample at 2-8°C
16. PFCs (Remark 6)		√	2 mL			PE, washed with pesticide grade Acetone	Without adding acid Store sample at 2-8°C

	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)		CPSD-AN-00613-DATA 04
			Issue Date:
			Version No.: 14
			Business Line: Analytical

Tests (Conventional Parameters)		Test required (v)	Total of sample size	Type of container	Preservation method
Combined test or Individual test (Remark 4)	17. Total suspended solids (TSS)	√	2000 mL total or 2000 mL each	Amber Glass, washed with nitric acid,	Without adding acid Store sample at 2-8°C
	18. Total dissolved solids (TDS)				
19. 5-day Biochemical Oxygen Demand (BOD5)	√	1000 mL			
20. Colour	√	100 mL			
21. Heavy Metals except Cr(VI) & Total-P (Remark 6)	√	9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO ₃ and store at 2-8°C	
22. Cyanide	√	500 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 mL of 10% Na ₂ S ₂ O ₃ and store sample at 2-8°C	
23. Cr(VI)	√	95 mL	Amber Glass; washed with nitric acid	Filter by 0.45µm filter in field, fill to full container without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer. Store sample at 2-8°C	
24. Chemical oxygen demand (COD)	√	150 mL		Acidify to pH 2 with H ₂ SO ₄ Store sample at 2-8°C	
25. Phenols	√	500 mL			
26. Oil and Grease & Total Hydrocarbon	√	1000 mL		Fill to full container without air gap; acidify to pH 2 with H ₂ SO ₄ and store sample at 2-8°C	
27. *Formaldehyde		25 mL			
28. Sulfide (Remark 5)	√	50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C	
29. Total Coliform (Remark 6)	√	125 mL	PE, clean, sterile, non-reactive	Add 0.05 mL of 10% Na ₂ CO ₃ Store sample at 2-8°C	
30. Faecal Coliform (Remark 6)		125 mL			
31. Persistent foam	√	N.A.	Foam higher than 45 cm (visual estimation): <u>Yes / No</u>		
32. Sulfite	√	100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA, 0.5g zinc acetate Store sample at 2-8°C	
33. Total-N	√	100 mL	Amber Glass, washed with nitric acid;	Acidify to pH 2 with H ₂ SO ₄ Store sample at 2-8°C	
34. Ammonium-N	√	500 mL			
35. Adsorbable organically bound halogens (AOX)	√	100 mL		Without adding acid Store sample at 2-8°C	
36. Acute aquatic toxicity: Luminous Bacteria; Fish Egg; Daphne; Algae;		1000 mL			
37. Sulphate		100 mL			
38. Chloride		100 mL			
39. Others:					
Observation/ Remark:					

*Remarks:

- Individual sampling can be performed upon request
- The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.
- Scope of ZDHC guideline: Parameter 1-9, 12, 14-17, 19-26, 28, 29, 31-35
Scope of synthetic leather industry: Parameter 1-9, 12, 14-21, 23-26, 28, 30, 31, 33, 34, 37, 38
Scope of MMCF: Parameter 5, 15, 17, 19-21, 23 - 26, 28, 33-36
Free primary aromatic amine, pesticides, nitrosamine and formaldehyde are not in the scope of ZDHC Guideline, they are tested upon request.
- Refer to CPSD-AN-G00019-STIP01, locations with those CPSD test capability inside TCD matrix can perform the combined test.
- Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.
- Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by:

Emay OPAK
Full name:

Date: 20-10-2021

Comment from factory

Acknowledgement by factory

I hereby confirmed that Bureau Veritas has completed the stated sampling activity at captioned date, time and location. All sample(s) is/are collected in designated container(s) and without any observation in leakage. Sample(s) collected by Bureau Veritas is/are stored in portable freezer / fridge that is maintained in 1-6°C

Signatory of Factory Representative:

Muruf Korg
Full Name:
AKKUS TEKSTİL SAN. TİC. A.Ş.
Merkez: Organize San. Bölgesi V. Fikret Güven Cad.
19 Sok. No: 11 Arslanlı / ARDIN
Şube: Çiğdemli Mah. Samsun Piyade Er Yavuz Bahar Sok.
No: 19 Avcılar / İSTANBUL
Mardin V.D.: 031 055 1973 Tic. Sic. No. Merkez: 8071
Şube Tic. Sic. No: 930871-0

Date: 20-10-2021

APPENDIX D – Limitation Value of Legal Requirements

İSKİ GENEL MÜDÜRLÜĞÜ ATIKSULARIN KANALİZASYONA DEŞARJ YÖNETMELİĞİ

TABLO 1: DEŞARJ LİMİTLERİ

ATIKSULARIN ATIKSU ALTYAPI TESİSLERİNE
DEŞARJINDA ÖNGÖRÜLEN ATIKSU STANDARTLARI

Parametre	Kanalizasyon Sistemleri Tam Arıtma İle Sonuçlanan Atıksu Altyapı Tesislerinde	Kanalizasyon Sistemleri Ön Arıtma + Derin Deniz Deşarjı İle Sonuçlanan Atıksu Altyapı Tesislerinde
Sıcaklık (°C)	50	50
pH	6 - 12	6 - 12
Askıda katı madde (mg/L)	500	350
Yağ ve gres (mg/L)	150	50
Kimyasal oksijen ihtiyacı (KOİ) (mg/L)	1000	600
Sülfat (SO ₄ ²⁻) (mg/L)	1700	1700
Toplam sülfür (S) (mg/L)	2	2
Fenol (mg/L)	10	10
Toplam fosfor (P) (mg/L)	-	10
Arsenik (As) (mg/L)	3	10
Toplam siyanür (Toplam CN ⁻) (mg/L)	10	10
Toplam kurşun (Pb) (mg/L)	3	3
Toplam kadmiyum (Cd) (mg/L)	2	2
Toplam krom (Cr) (mg/L)	5	5
Toplam civa (Hg) (mg/L)	0.2	0.2
Toplam bakır (Cu) (mg/L)	5	5
Toplam nikel (Ni) (mg/L)	5	5
Toplam çinko (Zn) (mg/L)	10	10
Cl ⁻ (Klorür) (mg/L)	15000	-
Metilen mavisi ile reaksiyon veren yüzey aktif maddeleri (MBAS) (mg/L)	Biyolojik olarak parçalanması Türk Standartları Enstitüsü standartlarına uygun olmayan maddelerin boşaltımı prensip olarak yasaktır.	