



TEST REPORT

Technical Report

(7221)277-0005

November 4th,2021

Date Received

October 14th,2021

Page 1 of 23

Factory Company Name:
Factory Address:

GULLE ENTEGRE TEKSTIL ISLETMELERI EML. DAN. SAN. VE TIC. A.S.
ULAS ORGANIZE SANAYI BOLGESI MAH. D100 CAD. NO:33/1 59930
ERGENE-2 OSB TEKIRDAG/TURKEY

Project No.:
Client Reference No.:
Sampling Method:

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

Sample Pick Up Date:
Wastewater Discharge to:
On-Site Effluent Treatment
Plant (ETP):

October 14th,2021
Centralized ETP

Discharge Type:
Off-site ETP name (if
applicable):

Yes
Indirect Discharge
Ergene 2 Organized Industrial Zone

Off-site ETP address (if
applicable):

Ulas OSB Mah. 206 Sokak No:2 Ergene 2 OSB Ergene-Tekirdag

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

Ergene 2 Organize Sanayi Bolgesi Atiksu Aritma Tesisi,Tasarima Esas Atiksu
Karakteri Tablosu (See Appendix D)

Permit Validation Date:
Parameters Exceeded Local
Regulation

The permit could not be validated
1A)Conventional Parameters (Total-P)

Legal compliance:
Conventional Parameters

Not comply
Not comply with discharge license document

Overall Category:
Test Period:

October 15th,2021- November 3rd,2021

Sample Description:

I001) Dark Purple/Purple liquid– Raw Wastewater
I002) Purple/Maroon liquid – Treated Wastewater

Parameters exceeded maximum
holding time:

N/A



Technical Report:

(7221)277-0005

November 4th,2021

Page 2 of 23

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



Technical Report:

(7221)277-0005

November 4th, 2021

Page 3 of 23

Executive Summary

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

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



Technical Report:

(7221)277-0005

November 4th, 2021

Page 4 of 23

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 (agreed with client.). Composite sampling shall be performed for no less than six hours, with no more than one hour between discrete samples. Each discrete sample shall be of equal volume. Wastewater and freshwater samples should, as much as possible, be collected simultaneously, during the time that PU is in normal operation. The sampling shall aim 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.



Technical Report:

(7221)277-0005

November 4th, 2021

Page 5 of 23

Test Result

1A) Conventional Parameters

Temperature

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

Tested Item(s)	Result	Unit	Conclusion
I002	▲ 1.6 / max. 35°C (Comply with discharge license)	deg. C	DATA

Note:

deg. C = degree Celsius (°C)

Discharge License Criteria: 35°C

Total Suspended Solids (TSS)

Test Method : Reference to APHA 2540 D

Tested Item(s)	Result	Unit	Conclusion
I002	176 (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	309.5 (Comply with discharge license)	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: 1500 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	27.01	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable



Technical Report:

(7221)277-0005

November 4th, 2021

Page 6 of 23

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	-	8.26 (Comply with discharge license)
Conclusion	-	DATA

Note:

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

Discharge License Criteria: 6-10

Color [m⁻¹] (436nm; 525nm; 620nm)

Test Method : With reference to ISO 7887-B

Tested Item(s)	Result	Unit	Conclusion
I002	23.2;20.1;12.2	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	118 (Comply with discharge license)	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: 700 mg/L

Ammonium Nitrogen

Test Method : Reference to APHA 4500 NH₃ B,F

Tested Item(s)	Result	Unit	Conclusion
I002	1.65	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable



Technical Report:

(7221)277-0005

November 4th, 2021

Page 7 of 23

Total Phosphorus (Total-P)

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

Tested Item(s)	Result	Unit	Conclusion
I002	9.68 (Not comply with discharge license)	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: 5 mg/L

Adsorbable Organic Halogens (AOX)

Test Method : Reference to ISO 9562

Tested Item(s)	Result	Unit	Conclusion
I002	3.26	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: 250 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: 20 mg/L



Technical Report:

(7221)277-0005

November 4th, 2021

Page 8 of 23

Coliform

Test Method : Reference to ISO 9308-1

Tested Item(s)	Result	Unit	Conclusion
I002	100	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 100 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	0.46 (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	0.36	mg/L	DATA

Note:

mg/L = milligram per liter



Technical Report:

(7221)277-0005

November 4th,2021

Page 9 of 23

Discharge License Criteria: Not Applicable

1B) Conventional Parameters – METALS

Heavy Metals	I001 (mg/L)	I002 (mg/L)
Antimony(Sb) Discharge License Criteria: Not applicable	0.0386	0.0106
Chromium(Cr), total Discharge License Criteria: 5 mg/L	0.0107	0.007 (Comply with discharge license)
Cobalt(Co) Discharge License Criteria: Not applicable	ND	ND
Copper(Cu) Discharge License Criteria: 2 mg/L	0.0394	0.028 (Comply with discharge license)
Nickel (Ni) Discharge License Criteria: 5 mg/L	0.0053	0.0017 (Comply with discharge license)
Silver (Ag) Discharge License Criteria: 5 mg/L	ND	ND (Comply with discharge license)
Zinc(Zn) Discharge License Criteria: 10 mg/L	0.4393	0.0546 (Comply with discharge license)
Arsenic (As) Discharge License Criteria: 3 mg/L	0.0031	0.0031 (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	0.0069	0.0058 (Comply with discharge license)
Mercury (Hg) Discharge License Criteria: 0.2 mg/L	ND	ND (Comply with discharge license)



Technical Report:

(7221)277-0005

November 4th,2021

Page 10 of 23

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 41° 13' 12.63"
E/W 27° 43' 39.03"



I001) Sampling Point Surrounding Environment
N/S 41° 13' 12.63"
E/W 27° 43' 39.03"



I001) All sampled bottles with label



I001) pH value



I001) Sample for Phthalate Testing



I001) Packaging



I002) Sampling Point
N/S 41° 13' 12.63"
E/W 27° 43' 39.03"



I002) Sampling Point Surrounding Environment
N/S 41° 13' 12.63"
E/W 27° 43' 39.03"



I002) All sampled bottles with label



I002) pH value



I002) Sample for Phthalate Testing



I002) Packaging





Technical Report:

(7221)277-0005

November 4th, 2021

Page 13 of 23

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))
	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	OPEO/NPEO: ISO18857-2 or ASTM D7065(LC/MS; GC/MS or LC/MSMS for n=1,2)
	Nonylphenol ethoxylates (NPEO)	Various (inc. 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0)	5	0.4	
					APEO 1-18
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	



Technical Report:

(7221)277-0005

November 4th, 2021

Page 14 of 23

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	



Technical Report:

(7221)277-0005

November 4th, 2021

Page 15 of 23

Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			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



Technical Report:

(7221)277-0005

November 4th, 2021

Page 16 of 23

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 trimethyltin 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	
Diocetyl tin	Multiple	0.01	0.2		
Triocetyl tin	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	



Technical Report:

(7221)277-0005

November 4th, 2021

Page 17 of 23

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	
1A. Conventional Parameters	m-cresol	108-39-4	1	2	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
	Temperature	—	N/A	N/A	
	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		



Technical Report:

(7221)277-0005

November 4th,2021

Page 18 of 23

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



Technical Report:

(7221)277-0005

November 4th, 2021

Page 19 of 23

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: 72212770005

Client Name: GULLE ENTEGRE TEKSTIL ISLETMELERI EML. DAN. SAN. VE TIC. A.S.

Field Contact Person: Nihal Datan Phone No: 0332 655 60 61

Project (Facility Name and Address): ULAS OSB MAH. D100-CAD. NO:33H ERGENE-2 OSB TEHRAN

Sampling Location / Description: BEFORE TREATMENT

Sample Identification: Zero discharge with sampling plan

Sample Type: Composite Sample

Name of Sampler: *Eray OPAK*

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

Date of collection: 14.10.2021

Factory Type: Dyeing / Finishing / 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:	<input checked="" type="checkbox"/> Incoming water (required) <input checked="" type="checkbox"/> Wastewater before treatment <input type="checkbox"/> Wastewater after treatment – water at discharge point										
Sampler container number:											
Recording time:	ID	1	2	3	4	5	6	7	8		
	Time	11:20	12:20	13:20	14:20	15:20	16:20				
pH:		9.60	9.54	9.43	9.48	9.46	9.41				
Temp (°C):		40.3	42.7	41.1	47.0	41.5	40.4				
Color (visual estimation):		D. Purple	D. Purple	D. Purple	D. Purple	Purple	Purple				
Flow rate (volumetime):											
Volume collected, mL:											
Total volume collected:		<small>Remark: Total volume collected must be greater than total of sample size required</small>									

Analysis Required and Preservation Method

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



Technical Report:

(7221)277-0005

November 4th, 2021

Page 20 of 23

	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 (Y)	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 60% NaOH, add 0.55 mL of 10% Na ₂ S ₂ O ₅ and store sample at 2-8°C	
23. Cr(VI)	√	95 mL	Amber Glass, washed with nitric acid	Filter by 0.45µm filter in line, fill 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)		100 mL		Add 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			
27. Formaldehyde		20 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
29. Total Coliform (Remark 6)		125 mL	PC, clean, sterile, non-reactive	Add 0.55 mL of 10% Na ₂ S ₂ O ₅ 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		500 mL	Amber Glass, washed with pesticide grade acetone	Add 1 mL of 2.5M 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			
36. Acute aquatic toxicity: Luminescent Bacteria, Fish Egg, Daphnia, Algae		1000 mL		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, 30-36
- 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-00010-STP01, locations with those CPSD test capability inside TCG 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:

Fray DRAC
Full name:

Date: 14.10.2021

Comment from factory:

[Signature]

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/with Sample(s) collected by Bureau Veritas were stored in portable freezer / fridge that is maintained in 1-8°C

Signature of Factory Representative:

[Signature]
Full Name:

Date: 14.10.2021



Technical Report:

(7221)277-0005

November 4th, 2021

Page 21 of 23

	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: 72212770005

Client Name: GULLE ENTEGRE TEKSTIL, ISLETMELERI EML. DAN. SAN. VE TIC. A.S.

Field Contact Person: Nihat Öztün Phone No: 0282 655 90 61

Project (Facility Name and Address): ULAS OSB MAH. D100 CAD. NO:33/S ERGENE-2 OSB TEKIRDAG

Sampling Location / Description: AFTER TREATMENT

Sample Identification: Zero discharge with sampling plan

Sample Type: Composite Sample

Name of Sampler: *Fayaz OPAK*

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

Date of collection: 14.10.2021

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/time)				
Control No. of field equipment:											
Factory with effluent treatment plant:	<input checked="" type="radio"/> Yes										
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	11:10	12:10	13:10	14:10	15:10	16:10				
pH		8,05	8,44	8,37	8,30	8,35	8,30				
Temp (°C)		34,8	34,9	35,2	35,5	33,4	35,0				
Color (visual estimation)		Purple	Purple	Purple	Purple	Purple	Purple				
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 MRS/L Parameters)	Test required (Y)	Total of sample size	Type of container	Preservation method		
Combined test or individual test (Remark 4) <ol style="list-style-type: none"> Phthalate Chlorobenzenes, Chlorotoluene & PAH SCCPs APS 	√	1000 mL total or 1000 mL each	Amber Glass washed with nitric acid.	Without adding acid Store sample at 2-6°C		
	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. *Nitroamine		10 mL				
12. Banned Azodyes	√	2000 mL				
13. *Free primary aromatic amines		500 mL				
14. Organotin Compounds	√	500 mL				
15. VOC & Halogenated Solvents (Remark 5)	√	10 mL				Fill to full container without air gap, acidity to pH 2 with HCl and store sample at 2-6°C
16. PPCs (Remark 6)	√	2 mL			PE, washed with pesticide grade Acetone	Without adding acid Store sample at 2-6°C



Technical Report:

(7221)277-0005

November 4th, 2021

Page 22 of 23

	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 (Y)	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 0.06 ml of 10% Na ₂ O ₂ and store sample at 2-8°C
23. Cr(VI)	√	95 mL		Filter by 0.45µm filter in line, 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	Amber Glass, washed with nitric acid	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		
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 8 with 6M NaOH Store sample at 2-8°C
29. Total Coliform (Remark 6)	√	125 mL	PE, clean, sterile, non-reactive	Add 0.03 ml of 10% Na ₂ S ₂ O ₅ Store sample at 2-8°C
30. Faecal Coliform (Remark 6)	√	125 mL		
31. Persistent foam	√	N/A.	Foam higher than 40 cm (visual estimation): <u>Yes / No</u>	
32. Sulfite	√	100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA, 5.0g 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	Amber Glass, washed with nitric acid.	
36. Acute aquatic toxicity: Luminescent Bacteria; Fish Egg; Daphnia; Algae;		1000 mL		
37. Sulphate		100 mL		Without adding acid Store sample at 2-8°C
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, 31-36
 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-G00015-STIP01, loadings with those CPSD test capability inside TCO matrix can perform the combined test.
- Refer to CPSD-AN-G00070-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:

Enay OPAC
Full name

Date: 14.10.2021

Comment from factory:

[Signature]

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 contamination in leakage. Sample(s) collected by Bureau Veritas is/are stored in portable freezer / fridge that is maintained in 1-6°C

Signature of Factory Representative:

Nimet Lutun
Full Name

Date: 14.10.2021



APPENDIX D – Limitation Value of Legal Requirements

ERGİNE 2 ORGANİZE SANAYİ BÖLGESİ ATIKSU ALIŞTIRMA TESİSİ		
TASARIMA ESAS ATIKSU KARAKTERİ TABLOSU		
PARAMETRE	BİRİM	DEĞER
Kimyasal Oksijen İhtiyacı (KOİ)	mg/lt	1500
Blokimyasal Oksijen İhtiyacı (BOİ)	mg/lt	700
Askıda Katı Madde (AKM)	mg/lt	500
Yağ ve Gres	mg/lt	250
Katman ve petrol kökenli yağlar	mg/lt	50
Toplam Kjeldah Azotu (TKN)	mg/lt	60
Toplam Fosfor (TP)	mg/lt	5
pH	mg/lt	6 - 10
Toplam Krom (Cr)	mg/lt	5
Toplam Siyanür (Cn)	mg/lt	10
Toplam Sülfür	mg/lt	2
Sülfat (SO ₄)	mg/lt	1700
Fenol	mg/lt	20
Serbest Klor	mg/lt	5
Arsenik	mg/lt	3
Toplam Kurşun	mg/lt	3
Toplam Kadmiyum	mg/lt	2
Toplam Civa	-	0,2
Toplam Bakır	-	2
Toplam Nikel	mg/lt	5
Toplam Çinko		10
Toplam Kalay		5
Toplam Gümüş		5
Klorür		10000
Renk (Pt, Co)		1000
Sıcaklık (°C)		35