



# TEST REPORT

## Technical Report

(7222)052-0264

September 23<sup>rd</sup>, 2022

Date Received

September 07<sup>th</sup>, 2022

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Factory Company Name:  
Factory Address:

GULLE ENTEGRE TEKSTİL İŞLETMELERİ EML. DAN. VE TİC. A.Ş.  
ULAS OSB MAH. D100 CAD. NO:33/1 ERGENE-2 OSB 59930  
TEKIRDAG/TURKEY

Sampling Method:

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

Sample Pick Up Date:

September 07<sup>th</sup>, 2022

Wastewater Discharge to:  
On-Site Effluent Treatment  
Plant (ETP):

Centralized ETP  
Yes

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

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 Yonetim Kurulu Baskanligi (See Appendix D)

Permit Validation Date:

The permit could not be validated

Parameters Exceeded Local  
Regulation

1A) Conventional Parameters (Temperature, Total-P)

Legal compliance:

Legal Non-Compliance

Conventional Parameters:

Exceed discharge license criteria

MRSL Parameters:

Not Detected

Test Period:

September 08<sup>th</sup>, 2022- September 23<sup>rd</sup>, 2022

Sample Description:

I001) Dark Blue/Light Purple/Red Liquid– Raw Wastewater  
I002) Light Red Liquid– Treated Wastewater

Parameters exceeded maximum  
holding time:

NA



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**REMARK1:** Analysis of Table1 conventional parameters, except pH, temperature, heavy metals, coliform 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](mailto:Kerem.can@bureauveritas.com)

Technical enquiry-Chemical

Ayca Cevikus

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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.

**BUREAU VERITAS CONSUMER PRODUCTS SERVICES TEST LABORATUVARLARI LTD. STI**

PREPARED BY:

**Ayca Cevikus**  
**MEA CDM & CSR**  
**Manager**

**Kerem Can**  
**General Manager, CPS Turkey**



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## Executive Summary

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

<b>ZDHC MRSL Substances</b>	<b>I001</b>	<b>I002</b>
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	ND	ND
2L) Phthalates	ND	ND
2M) Polycyclic Aromatic Hydrocarbons	ND	ND
2N) Volatile Organic Compounds	ND	ND

Note / Key :

- - Meet discharge license criteria
- - Exceed discharge license criteria
- NR - Not Requested / Not required
- D - Detected
- ND - Not Detected
- NA - 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) Polycyclic Aromatic Hydrocarbons
- 2N) Volatile Organic Compounds

## **Sampling Plan**

Two environment samples were sampled per factory, including 1) Raw wastewater; 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 grab 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 refers to ZDHC Wastewater and Sludge Laboratory Sampling and Analysis Plan
- 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	▲ 1.4 / 36.9 °C (Exceed discharge license)	°C	DATA

Note: °C = degree Celsius  
Direct Discharge Limit: Foundational ▲ 15 / max. 35°C; Progressive ▲ 10 / max. 30°C; Aspirational ▲ 5 / max. 25°C  
Indirect Discharge Limit: 35°C

#### **Total Suspended Solids (TSS)**

Test Method : Reference to APHA 2540 D

Tested Item(s)	Result	Unit	Conclusion
I002	103 (Meet discharge license)	mg/L	DATA

Note: mg/L = milligram per liter  
Direct Discharge Limit: Foundational 50 mg/L; Progressive 15 mg/L; Aspirational 5 mg/L  
Indirect Discharge Limit: 500 mg/L

#### **Chemical Oxygen Demand (COD)**

Test Method : Reference to APHA 5220 D

Tested Item(s)	Result	Unit	Conclusion
I002	305.7 (Meet discharge license)	mg/L	DATA

Note: mg/L = milligram per liter  
Direct Discharge Limit: Foundational 150 mg/L; Progressive 80 mg/L; Aspirational 40 mg/L  
Indirect Discharge Limit: 1500 mg/L

#### **Total Nitrogen (Total-N)**

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

Tested Item(s)	Result	Unit	Conclusion
I002	32.26	mg/L	DATA

Note: mg/L = milligram per liter  
Direct Discharge Limit: Foundational 20 mg/L; Progressive 10 mg/L; Aspirational 5 mg/L  
Indirect Discharge Limit: Not applicable



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### **pH Value**

Test Method : Reference to U. S. EPA 150.1

-	Unit	Result
<b>Test Item(s)</b>	-	I002
Temp. of sample	°C	25
pH value of sample	-	7.96 (Meet discharge license)
<b>Conclusion</b>	-	DATA

Note: °C = degree Celsius

Direct Discharge Limit: 6 – 9

Indirect Discharge Limit: 6 – 10

### **Color [m<sup>-1</sup>] (436nm; 525nm; 620nm)**

Test Method : Reference to ISO 7887-B

Tested Item(s)	Result	Unit	Conclusion
I002	10.4 ; 8.4 ; 6.6	m <sup>-1</sup>	DATA

Note:

Direct Discharge Limit: Foundational 7;5;3 m<sup>-1</sup>; Progressive 5;3;2 m<sup>-1</sup>; Aspirational 2;1;1 m<sup>-1</sup>

Indirect Discharge Limit: Not applicable

### **Biochemical Oxygen Demand (BOD<sub>5</sub>)**

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

Tested Item(s)	Result	Unit	Conclusion
I002	92.9 (Meet discharge license)	mg/L	DATA

Note: mg/L = milligram per liter

Direct Discharge Limit: Foundational 30 mg/L; Progressive 15 mg/L; Aspirational 5 mg/L

Indirect Discharge Limit: 700 mg/L

### **Ammonium Nitrogen**

Test Method : Reference to APHA 4500 NH<sub>3</sub> B,C

Tested Item(s)	Result	Unit	Conclusion
I002	24.4	mg/L	DATA

Note: mg/L = milligram per liter

Direct Discharge Limit: Foundational 10 mg/L; Progressive 1 mg/L; Aspirational 0.5 mg/L

Indirect Discharge Limit: 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	8.26 (Exceed discharge license)	mg/L	DATA

Note: mg/L = milligram per liter  
Direct Discharge Limit: Foundational 3 mg/L; Progressive 0.5 mg/L; Aspirational 0.1 mg/L  
Indirect Discharge Limit: 5 mg/L

### **Adsorbable Organic Halogens (AOX)**

Test Method : Reference to ISO 9562

Tested Item(s)	Result	Unit	Conclusion
I002	2.56	mg/L	DATA

Note: mg/L = milligram per liter  
Direct Discharge Limit: Foundational 5 mg/L; Progressive 1 mg/L; Aspirational 0.1 mg/L  
Indirect Discharge Limit: Not applicable

### **Oil and Grease**

Test Method : Reference to ISO 9377-2

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

Note: mg/L = milligram per liter  
Direct Discharge Limit: Foundational 10 mg/L; Progressive 2 mg/L; Aspirational 0.5 mg/L  
Indirect Discharge Limit: 250 mg/L

### **Phenol**

Test Method : Reference to APHA 5530B, D

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

Note: mg/L = milligram per liter  
Direct Discharge Limit: Foundational 0.5 mg/L; Progressive 0.01 mg/L; Aspirational 0.001 mg/L  
Indirect Discharge Limit: 20 mg/L



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### **Coliform**

Test Method : Reference to ISO 9308-1

Tested Item(s)	Result	Unit	Conclusion
I002	6	bacteria/ 100 mL	DATA

Note: bacteria/100 mL = bacteria per 100 milliliters  
Direct Discharge Limit: Foundational 400 / 100 ml; Progressive 100 / 100 ml; Aspirational 25 / 100 ml  
Indirect Discharge Limit: Not applicable

### **Persistent Foam**

Test Method : Visual

Tested Item(s)	Result	Unit	Conclusion
I002	Dissipating Foam	-	DATA

Note:  
Direct Discharge Limit: -  
Indirect Discharge Limit: Not applicable

### **ANIONS - Cyanide**

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

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

Note: mg/L = milligram per liter  
Direct Discharge Limit: Foundational 0.2 mg/L; Progressive 0.1 mg/L; Aspirational 0.05 mg/L  
Indirect Discharge Limit: 10 mg/L

### **ANIONS - Sulfide**

Test Method : Reference APHA 4500 S<sup>2</sup>-D

Tested Item(s)	Result	Unit	Conclusion
I002	0.059 (Meet discharge license)	mg/L	DATA

Note: mg/L = milligram per liter  
Direct Discharge Limit: Foundational 0.5 mg/L; Progressive 0.05 mg/L; Aspirational 0.01 mg/L  
Indirect Discharge Limit: 2 mg/L

### **ANIONS - Sulfite**

Test Method : Reference to SM 4500-SO<sub>3</sub>-2 C

Tested Item(s)	Result	Unit	Conclusion
I002	0.22 (Meet discharge license)	mg/L	DATA

Note: mg/L = milligram per liter  
Direct Discharge Limit: Foundational 2 mg/L; Progressive 0.5 mg/L; Aspirational 0.2 mg/L  
Indirect Discharge Limit: 1.7 mg/L





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### **1B) Conventional Parameters - METALS**

<b>Parameter</b>	<b>I001 (mg/L)</b>	<b>I002 (mg/L)</b>
<b>Antimony (Sb)</b>  Direct Discharge Limit: Foundational 0.1 mg/L; Progressive 0.05 mg/L; Aspirational 0.01 mg/L  Indirect Discharge Limit: Not applicable	0.0268	0.0140
<b>Chromium (Cr), total</b>  Direct Discharge Limit: Foundational 0.1 mg/L; Progressive 0.05 mg/L; Aspirational 0.01 mg/L  Indirect Discharge Limit: 5 mg/L	0.0118	0.0090 (Meet discharge license)
<b>Cobalt (Co)</b>  Direct Discharge Limit: Foundational 0.1 mg/L; Progressive 0.05 mg/L; Aspirational 0.01 mg/L  Indirect Discharge Limit: Not applicable	ND	ND
<b>Copper (Cu)</b>  Direct Discharge Limit: Foundational 0.1 mg/L; Progressive 0.05 mg/L; Aspirational 0.01 mg/L  Indirect Discharge Limit: 2 mg/L	0.1103	0.0327 (Meet discharge license)
<b>Nickel (Ni)</b>  Direct Discharge Limit: Foundational 0.1 mg/L; Progressive 0.05 mg/L; Aspirational 0.01 mg/L  Indirect Discharge Limit: 5 mg/L	0.0055	0.0150 (Meet discharge license)
<b>Silver (Ag)</b>  Direct Discharge Limit: Foundational 0.1 mg/L; Progressive 0.05 mg/L; Aspirational 0.01 mg/L  Indirect Discharge Limit: 5 mg/L	ND	ND (Meet discharge license)



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Parameter	I001 (mg/L)	I002 (mg/L)
<b>Zinc (Zn)</b>  Direct Discharge Limit: Foundational 0.1 mg/L; Progressive 0.05 mg/L; Aspirational 0.01 mg/L  Indirect Discharge Limit: 10 mg/L	0.0611	0.0375 (Meet discharge license)
<b>Arsenic (As)</b>  Direct Discharge Limit: Foundational 0.1 mg/L; Progressive 0.05 mg/L; Aspirational 0.01 mg/L  Indirect Discharge Limit: 3 mg/L	0.0054	0.0037 (Meet discharge license)
<b>Cadmium (Cd)</b>  Direct Discharge Limit: Foundational 0.1 mg/L; Progressive 0.05 mg/L; Aspirational 0.01 mg/L  Indirect Discharge Limit: 2 mg/L	ND	ND (Meet discharge license)
<b>Chromium VI (CrVI)</b>  Direct Discharge Limit: Foundational 0.1 mg/L; Progressive 0.05 mg/L; Aspirational 0.01 mg/L  Indirect Discharge Limit: Not applicable	ND	ND
<b>Lead (Pb)</b>  Direct Discharge Limit: Foundational 0.1 mg/L; Progressive 0.05 mg/L; Aspirational 0.01 mg/L  Indirect Discharge Limit: 3 mg/L	0.0013	ND (Meet discharge license)
<b>Mercury (Hg)</b>  Direct Discharge Limit: Foundational 0.1 mg/L; Progressive 0.05 mg/L; Aspirational 0.01 mg/L  Indirect Discharge Limit: 0.2 mg/L	ND	ND (Meet discharge license)



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Others Priority Chemical Groups

	<b>I001 (µg/L)</b>	<b>I002 (µg/L)</b>
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) Polycyclic Aromatic Hydrocarbons	ND	ND
2N) Volatile Organic Compounds	ND	ND

Remark :

- Test method, reporting limit and list of chemical are summarized in Appendix B.
- ND = Not detected (Please refer to reporting limit shown in Appendix B).

**APPENDIX A - Photo of the Sample/ Sampling Location**

I001) Sampling Point  
N/S 40° 58' 58.65"  
E/W 27° 30' 4.99"



I001) Sampling Point Surrounding Environment  
N/S 40° 58' 58.65"  
E/W 27° 30' 4.99"



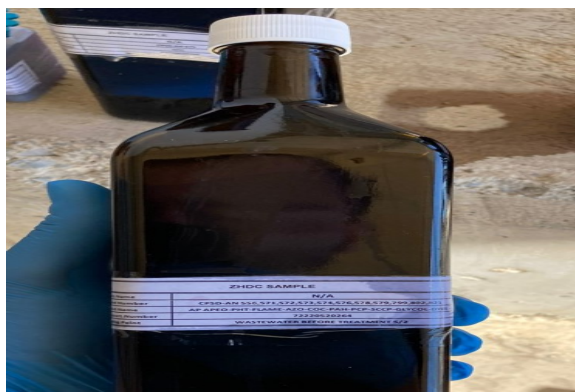
I001) All sampled bottles with label



I001) pH value



I001) Sample for Phthalate Testing



I001) Packaging





I002) Sampling Point  
N/S 40° 58' 58.65"  
E/W 27° 30' 4.99"



I002) Sampling Point Surrounding Environment  
N/S 40° 58' 58.65"  
E/W 27° 30' 4.99"



I002) All sampled bottles with label



I002) pH value



I002) Sample for Phthalate Testing



I002) Packaging



## APPENDIX B

Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)	Sludge (mg/kg)	
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	
	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	

Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)	Sludge (mg/kg)	
	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-Xyldine	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-Xyldine	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 (malachite green chloride)	569-64-2	500	10	
	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	

Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)	Sludge (mg/kg)	
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-dichloro-isopropyl) 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 Liquid Extraction LC/MS
	2-ethoxyethanol	110-80-5	50	10	
	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	



Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)	Sludge (mg/kg)	
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 <sub>2</sub> H <sub>5</sub> ) 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 esters 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 (DnHP)	84-75-3	10	2	
	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	

Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)	Sludge (mg/kg)	
	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. Polycyclic 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 (Foundational, Progressive, and Aspirational).
	TSS	—	N/A	N/A	
	COD	—	N/A	N/A	
	Total-N	—	N/A	N/A	
	pH	—	N/A	N/A	
	Color [m <sup>-1</sup> ] (436nm; 525nm; 620nm)	—	N/A	N/A	
	BOD5	—	N/A	N/A	
	Ammonium-N	—	N/A	N/A	
	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	Cyanide: With reference to APHA 4500 CN—B,C&E and followed by UV analysis
	<b>ANIONS</b>				
	Cyanide( CN-)	Various (incl. 57-12-5)	0.02	1	
	Sulfide	—	N/A	N/A	
	Sulfite	—	N/A	N/A	
1B. Conventional Parameters -	Antimony( Sb )	7440-36-0	0.001	N/A	Various Acid Digestion with
	Chromium( Cr ), total	7440-47-3	0.001	N/A	



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September 23<sup>rd</sup>, 2022

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Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)	Sludge (mg/kg)	
<b>METALS</b>	Cobalt( Co )	7440-48-4	0.001	N/A	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
	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	
<b>3. Conventional Parameters</b>	Dry mass (total solids)	—	N/A	N/A	US EPA 160.3 / 209A

Note / Key :

U. S. EPA = United States Environmental Protection Agency

APHA = American Public Health Association

## APPENDIX C – Onsite Field Data Record Sheet


		<b>FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)</b>	
<b>General Data</b>			
Laboratory Sample Number:	72220520264		
Client Name:	GULLE ENTEGRE TEKSTIL ISLETMELERI EML. DAN. SAN. VE TIC. A.S.		
Field Contact Person:	Nimet Üstün	Phone No: 0282 655 54 31	
Project (Facility Name and Address):	ULAS OSB MAH. D100 CAD. NO:33/1 ERGENE-2 OSB TEKIRDAG		
Sampling Location / Description:	BEFORE TREATMENT		
Sample Identification:	Zero discharge with sampling plan		
Sample Type:	Composite Sample		
Name of Sampler:	Ali Serkan YILDIZIM		
Discharge mode:	Direct discharge to environment (Specify destination: River, Sea, Stream...) OR Indirect disci		
Date of collection:	07.09.2022		
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 : <u>                    </u>		Temp : <u>                    </u> °C		Color : <u>                    </u>	
Control No. of field equipment							
Factory with effluent treatment plant:		Yes					
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			
Recording time	ID						
	Time	11:00		12:00		13:00	
pH :		10.80		9.21		10.11	
Temp (°C) :		37.8		43.5		41.7	
Color (visual estimation):		dark blue		light purple		dark blue	
Flow rate (volume/time)							
Volume collected, mL							
Total volume collected							
		Remark: Total volume collected must be greater than total of sample					

### Analysis Required and Preservation Method

Tests (ZDHC MRSL Parameters)	Test required (v)	Total of sample size	Type of container
Combined test or Individual test (Remark 4)	1. Phthalate	√	1000 mL total or 1000 mL each
	2. Chlorobenzenes, Chlorotoluene & PAH	√	
	3. SCCPs	√	
	4. APS	√	

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

Tests (Conventional Parameters)	Test required (V)	Total of sample size	Type of container	Preservation method
<b>Combined test or Individual test (Remark 4)</b>	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 <sub>3</sub> 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 <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , 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		
25. Phenols		500 mL		Acidify to pH 2 with H <sub>2</sub> SO <sub>4</sub> 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 <sub>2</sub> SO <sub>4</sub> 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	PE, clean, sterile, non-reactive	Add 0.05 ml of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 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): 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 <sub>2</sub> SO <sub>4</sub> Store sample at 2-8°C
35. Adsorbable organically bound halogens (AOX)		100 mL		
36. Acute aquatic toxicity: Luminus Bacteria; Fish Egg; Daphne; Alage;		1000 mL	Amber Glass; washed with nitric acid;	
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, 31-35  
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:

Ali Serkan YILDIRIM  
Full name:

Date: 07.09.2022

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:

[Signature]

Saba Nils GIMAR  
Full Name:

Date: 07.09.2022

**GÜLLE ENTEGRE TEKSTİL**  
İşletmeleri Eml.Dan.San. ve Tic. A.Ş.  
Cihangir Mah. Sarıyazbek Cad.  
No:8/1- A Blok Avcılar-İSTANBUL  
Marmara Kurumlar V.D:4200018979

-before





FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE  
(COMPOSITE / INDIVIDUAL SAMPLING)

**General Data**

Laboratory Sample Number: 72220520264

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

Field Contact Person: Nimet Üstün Phone No: 0282 655 54 31

Project (Facility Name and Address): ULAS OSB MAH. D100 CAD. NO:33/1 ERGENE-2 OSB TEKIRDAG

Sampling Location / Description: AFTER TREATMENT

Sample Identification: Zero discharge with sampling plan

Sample Type: Composite Sample

Name of Sampler: Ali Sarker YILDIRIM

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

Date of collection: 07.09.2022

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:	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
Recording time	ID				
	Time	11:05	12:05	13:05	14:05
pH :	7.98	8.01	8.01	7.98	8.00
Temp (°C) :	35.5	36.0	35.6	36.8	36.9
Color (visual estimation):	light red	light red	light red	light red	light red
Flow rate (volume/time)					
Volume collected, mL					
Total volume collected	Remark: Total volume collected must be greater than total of sample size				

**Analysis Required and Preservation Method**

Tests (ZDHC MRSL Parameters)	Test required (V)	Total of sample size	Type of container
Combined test or Individual test (Remark 4)	1. Phthalate	√	1000 mL total or 1000 mL each
	2. Chlorobenzenes, Chlorotoluene & PAH	√	
	3. SCCPs	√	
	4. AOC	√	

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

Tests (Conventional Parameters)	Test required (V)	Total of sample size	Type of container	Preservation method
<b>Combined test or Individual test (Remark 4)</b>	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 <sub>3</sub> 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 <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 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 <sub>2</sub> SO <sub>4</sub> 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 <sub>2</sub> SO <sub>4</sub> 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 <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Store sample at 2-8°C
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		
34. Ammonium-N	✓	500 mL		Acidify to pH 2 with H <sub>2</sub> SO <sub>4</sub> 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;	
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, 31-35  
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:

Ali Serkan YILDIRIM  
Full name:

Date: 07.09.2022

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 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:

Sema Melis GUNER  
Full Name:

Date: 07/09/22

[Signature]

**GULLE ENTEGRE TEKSTİL**  
İşletmeleri Eml.Dan.San. ve Tic. A.Ş.  
Cihangir Mah. Sarıyazıcıoğlu Cad.  
No:8/1-A Blok Avcılar-İSTANBUL  
Marmara Kurumlar V.D.:4200018979

## APPENDIX D – Limitation Value of Legal Requirements



### ERGENE 2 ORGANİZE SANAYİ BÖLGESİ YÖNETİM KURULU BAŞKANLIĞI

Sayı: 2021 / 839  
Konu: Ortak Arıtma Tesisi Hakkında

22.09/2021

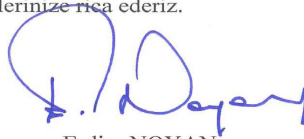
#### GÜLLE ENTEGRE TEKSTİL İŞLETMELERİ EMLAK DANIŞMANLIĞI SAN. VE TİC. A.Ş.

16 Eylül 2021 tarihi itibarı ile Bölgemiz altyapılarına ait ana kollektör hattı imalatlarımız tamamlanmıştır. Firmanız atıksularını deşarj ettiğiniz eski hatların ana kollektör hattımıza bağlantısı yapılmış, bu tarihten itibaren atıksularınız eski hatlardan ana kollektör hattımıza gelerek direk alıcı ortama gitmeyecektir.

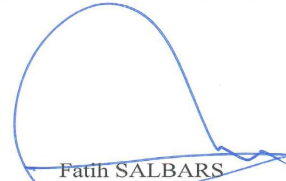
Atıksu arıtma tesisimiz ön kabul kriterleri; Kimyasal Oksijen İhtiyacı (KOİ) 1.500 mg/lit, Biokimyasal Oksijen İhtiyacı (BOİ) 700 mg/lit, Askıda Katı Madde (AKM) 500 mg/lit, Yağ ve Gres 250 mg/lit, Katman ve petrol kökenli yağlar 50 mg/lit, Toplam Kjeldah Azotu (TKN) 60 mg/lit, Toplam Fosfor (TP) 5 mg/lit, Toplam Krom (Cr) 5 mg/lit, Toplam Siyanür (Cn) 10 mg/lit, Toplam Sülfür 2 mg/lit, Sülfat (SO<sub>4</sub>) 1.700 mg/lit, Fenol 20 mg/lit, Serbest Klor 5 mg/lit, Arsenik 3 mg/lit, Toplam Kurşun 3 mg/lit, Toplam Kadmiyum 2 mg/lit, Toplam Nikel 5 mg/lit, Toplam Civa 0,2 mg/lit, Toplam Bakır 2 mg/lit, Toplam Çinko 10 mg/lit, Toplam Kalay 5 mg/lit, Toplam Gümüş 5 mg/lit, Klorür 10.000 mg/lit, Renk 1.000 (Pt,Co), Sıcaklık 35 °C, Ph 6-10 olacak olup, kabul kriterlerinin sağlanması durumunda arıtma tesisinizin çalıştırılmasına gerek kalmayacaktır. Organize Sanayi Bölgeleri Uygulama Yönetmeliği'ne göre arıtma tesisinin işletme masraflarında katılım payları, atıksu debisi ve kirlilik parametreleri esas alınarak yönetim kurulunca tespit edileceği belirtilmiştir. Ayrıca işletmenizin deşarjı sırasında kabul parametreleri üzerinde olası aşırı kirlilik olması durumunda yine Bölgemiz Yönetim Kurulu tarafından belirlenecek ek birim işletme maliyeti katılım paylarına ilave edilecektir. Bölgemiz sınırları içerisindeki fabrikaların deşarj noktalarında atıksu izleme scada sistemimiz henüz hazır olmaması sebebi ile işletme maliyetleri şu aşamada atıksu debinin oranında hesaplanarak tarafınıza faturalandırılacaktır.

Bu bağlamda, Bölgemiz ortak atıksu arıtma tesisi devreye alma işlemleri başlamış olup bahsi geçen konulara riayet edilmesi hususunda,

Gereğini bilgilerinize rica ederiz.



Erdim NOYAN  
Yönetim Kurulu Üyesi



Fatih SALBARS  
Yönetim Kurulu Başkan V.