

|                  |            |
|------------------|------------|
| Date of sampling | 20/07/2023 |
| Reporting date   | 26/07/2023 |

|                         |  |            |            |
|-------------------------|--|------------|------------|
| Audit ID                | 148126   | Audit firm | SGS TURKEY |
| Company name            | ISTANBUL TERBIYE BOYA SAN. VE TIC. A.S.          |            |            |
| Contact person          | ABDULHADİ ÖZTEKİN                                |            |            |
| Type of tax – tax ID no | 4810620994                                       |            |            |
| Address                 | 2. OSB YILDIRIM BEYAZIT MAH. FATİH BULVARI NO:41 |            |            |
| Region state province   | TEKIRDAG   |            |            |
| Town city / village     | CERKEZKOY  |            |            |
| Zip / Post code         | 59500  |            |            |

| Type of wastewater discharge                               |   |
|--|---|
| Type of wastewater discharge                               | Indirect Discharge Without Pre-Treatment        |
| Description of the discharge                               | Discharge to Çerkezköy OSB Atıksu Arıtma Tesisi |
| [If direct discharge] Temperature of receiving water body: | N/A   |

| Type of sludge disposal pathway |     |
|---------------------------------|-----|
| Type of sludge disposal pathway | N/A |

|  |        |                  |          |
|--|--------|------------------|----------|
| Sampler accreditation certification number (ZDHC): |        | 8F1465016562     |          |
| Sampling affiliate                                 |        | SGS TURKEY       |          |
| Sample description                                 |        |                  |          |
|  | Simple | Composite        | Comments |
| (1) Untreated wastewater                           | NO     | YES, 10:20-16:20 | NO       |

| Internal description – Final Test Report     |                          |
|--|--------------------------|
| Testing laboratory                           | SGS Turkey               |
| Internal codification number (report number) | TR2339493                |
| Reference sample number (sample ID)          | /                        |
| Received on                                  | 21/07/2023               |
| Analysis carried out from                    | 21/07/2023 to 26/07/2023 |
| Arrival temperature at lab                   | 7,8 °C                   |
| Comments                                     | /                        |
| Reporting date                               | 26/07/2023               |

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

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

Mesut Akpolat  
Customer Services Supervisor

Murat Öztaş  
Customer Services Team Leader



## Notes

SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.-Tüketici ve Perakende Laboratuvarı (Consumer and Retail) operating as ZDHC tests is accredited by TÜRKAK according to AB-690-T and ISO/IEC 17025:2017 standard.

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SGS applied shared risk decision rule.

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Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Unless further specified in an individual contract the sample(s) retention time is 30 days.

In this Test Report tests marked (1) are included in the TURKAK Accreditation Scope of this Laboratory.

| Summary of test results   |                            |
|---|----------------------------|
| Test items  | Untreated wastewater       |
| Conventional Parameters and Anions  | -                          |
| Heavy Metals  | Fulfill Aspirational Limit |
| Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers | ND                         |
| Anti- Microbials & Biocides   | ND                         |
| Chlorinated Paraffins   | ND                         |
| Chlorobenzenes & Chlorotoluenes   | ND                         |
| Chlorophenols   | ND                         |
| N,N-di-methylformamide (DMFa)   | ND                         |
| Dyes – Carcinogenic or Equivalent Concern                                   | ND                         |
| Dyes – Disperse (Allergenic)  | ND                         |
| Dyes – Navy Blue Colourant  | ND                         |
| Flame Retardants  | D                          |
| Glycols / Glycol Ethers   | ND                         |
| Halogenated Solvents  | ND                         |
| Organotin Compounds   | ND                         |
| Other / Miscellaneous Chemicals   | ND                         |
| Perfluorinated and Polyfluorinated Chemicals (PFCs)                         | ND                         |
| Phthalates – including all other esters of ortho-phthalic acid              | ND                         |
| Polycyclic Aromatic Hydrocarbons (PAHs)                                     | D                          |
| Restricted Aromatic Amines (Cleavable from Azo-colourants)                  | D                          |
| UV Absorbers  | ND                         |
| VOCs  | ND                         |

**Remark (Indicated in each parameter)**

ND = Not detected

D = Detected

NA = Not applicable

NC = Not conducted

- = Not required to be tested

@ = Maximum holding time exceeded

(T) = handling temperature exceeded

**Test results**

**Wastewater**

**1. Conventional Parameters and Anions**

| Test Items          | Test method | Limit        |             |              | Reporting Limit | Result               | Unit                |
|---------------------|-------------|--------------|-------------|--------------|-----------------|----------------------|---------------------|
|                     |             | Foundational | Progressive | Aspirational |                 | Untreated wastewater |                     |
| Wastewater Flowrate | -           | -            |             |              | NA              | 393,26 (f)           | m <sup>3</sup> /day |

**Remark**

- ND = Not detected
- NA = Not applicable
- NC = Not conducted
- = Not required to be tested
- (f) = Parameter tested in field
- (S) = The analysis was subcontracted to xxxxx lab for testing.
- # = Non accredited parameter

## 2. Heavy Metals

Cr (VI): ISO 18412, USEPA 218.6, GB 7467 or IS 3025 (Part 52)

As: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, HJ 700 or IS 3025 (Part 65)

Cd: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 7475, HJ 700, IS 3025 (Part 65) or IS 3025 (Part 41) – AAS instrumental method

Pb: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 7475, HJ 700, IS 3025 (Part 65) or IS 3025 (Part 47) – AAS instrumental method

Hg: ISO 17294, USEPA 200.8 – SIM, USEPA 245.1, USEPA 245.7, USEPA 6020 A – SIM, HJ 597, HJ 694, IS 3025 (Part 48) – Cold vapour AAS only or IS 3025 (Part 65) – SI

| Test items          | CAS no. | Limit                          |                                 |                                 | Reporting Limit | Result               | Unit |
|---------------------|---------|--------------------------------|---------------------------------|---------------------------------|-----------------|----------------------|------|
|                     |         | Foundational                   | Progressive                     | Aspirational                    |                 | Untreated wastewater |      |
| Arsenic (As)        | Various | Textile and Leather: 0.05      | Textile and Leather: 0.01       | Textile and Leather: 0.005      | 0.005           | ND                   | mg/L |
| Cadmium (Cd)        | Various | Textile and Leather: 0.1       | Textile and Leather: 0.05       | Textile and Leather: 0.01       | 0.01            | ND                   | mg/L |
| Mercury (Hg)        | Various | Textile and Leather: 0.01      | Textile and Leather: 0.005      | Textile and Leather: 0.001      | 0.001           | ND                   | mg/L |
| Lead (Pb)           | Various | Textile and Leather: 0.1       | Textile and Leather: 0.05       | Textile and Leather: 0.01       | 0.01            | ND                   | mg/L |
| Chromium VI (Cr VI) | Various | Textile: 0.05<br>Leather: 0.15 | Textile: 0.005<br>Leather: 0.05 | Textile: 0.001<br>Leather: 0.02 | 0.001           | ND                   | mg/L |

### Remark

ND = Not detected

D = Detected

NA = Not applicable

NC = Not conducted

- = Not required to be tested

@ = Maximum holding time exceeded

(f) = Parameter tested in field

(S) = The analysis was subcontracted to xxxxx lab for testing.

# = Non accredited parameter

(T) = handling temperature exceeded

### 3. Alkylphenol (AP) & Alkylphenol Ethoxylates (APEOs): including all isomers

NP/OP: With reference to ISO 18857-2 (Modified dichloromethane extraction) or ASTM D7065 (GC-MS or LC-MS(-MS))

NPEO / OPEO: With reference to ISO 18857-2 or ASTM D7742

| Test items                    | CAS no.   | Reporting Limit<br>(Textile and Leather) | Result               | Unit |
|-------------------------------|---|--|----------------------|------|
|                               |   |  | Untreated wastewater |      |
| Octylphenol (OP)              | 140-66-9/ 1806-26-4/<br>27193-28-8                              | 5  | ND                   | µg/L |
| Nonylphenol (NP)              | 104-40-5/ 11066-49-2/ 25154-<br>52-<br>3/84852-15-3             | 5  | ND                   | µg/L |
| Octylphenoethoxylates (OPEOs) | 9002-93-1/9036-19-5/68987-90-<br>6                              | 5  | ND                   | µg/L |
| Nonylphenoethoxylates (NPEOs) | 9016-45-9/26027-38-3/ 37205-<br>87-<br>1/68412-54-4/127087-87-0 | 5  | ND                   | µg/L |

#### 4. Anti- Microbials & Biocides

o-Phenylphenol (+salts): With reference to BS EN 12673-1999, USEPA 8270 E or Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS

Triclosan: With reference to BS EN 12673-1999, USEPA 8270 E or Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS

Permethrin: With reference to ISO 14154:2005, USEPA 8270 E, Solvent extraction followed by GC-MS or An alternative method, without derivatization and determination by LC-MS / LC-MS/MS

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

#### 5. Chlorinated Paraffins

MCCPs: Preparation: With reference to USEPA 3510. Analysis: With reference to ISO 18219-2:2021 or Method for MCCP with GC-MS(NCI) or LC-MS/MS.

SCCPs: Preparation: With reference to USEPA 3510. Analysis: With reference to ISO 12010:2019, ISO 18219-1:2021 or Method for SCCP with GC-MS(NCI) or LC-MS/MS

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



**6. Chlorobenzenes & Chlorotoluenes**

With reference to USEPA 8260 D, USEPA 8270 E, Purge and Trap, Headspace or Dichloromethane extraction followed by GC-MS

| Test items                 | CAS no.    | Reporting Limit<br>(Textile and Leather) | Result               | Unit |
|----------------------------|------------|--|----------------------|------|
|                            |            |  | Untreated wastewater |      |
| Monochlorobenzenes         | 108-90-7   | 0.2                                      | ND                   | µg/L |
| 1,2-Dichlorobenzene        | 95-50-1    | 0.2                                      | ND                   | µg/L |
| 1,3-Dichlorobenzene        | 541-73-1   | 0.2                                      | ND                   | µg/L |
| 1,4-Dichlorobenzene        | 106-46-7   | 0.2                                      | ND                   | µg/L |
| 1,2,3-Trichlorobenzene     | 87-61-6    | 0.2                                      | ND                   | µg/L |
| 1,2,4-Trichlorobenzene     | 120-82-1   | 0.2                                      | ND                   | µg/L |
| 1,3,5-Trichlorobenzene     | 108-70-3   | 0.2                                      | ND                   | µg/L |
| 1,2,3,4-Tetrachlorobenzene | 634-66-2   | 0.2                                      | ND                   | µg/L |
| 1,2,3,5-Tetrachlorobenzene | 634-90-2   | 0.2                                      | ND                   | µg/L |
| 1,2,4,5-Tetrachlorobenzene | 95-94-3    | 0.2                                      | ND                   | µg/L |
| Pentachlorobenzene         | 608-93-5   | 0.2                                      | ND                   | µg/L |
| Hexachlorobenzene          | 118-74-1   | 0.2                                      | ND                   | µg/L |
| 2-Chlorotoluene            | 95-49-8    | 0.2                                      | ND                   | µg/L |
| 3-Chlorotoluene            | 108-41-8   | 0.2                                      | ND                   | µg/L |
| 4-Chlorotoluene            | 106-43-4   | 0.2                                      | ND                   | µg/L |
| 2,3-Dichlorotoluene        | 32768-54-0 | 0.2                                      | ND                   | µg/L |
| 2,4-Dichlorotoluene        | 95-73-8    | 0.2                                      | ND                   | µg/L |
| 2,5-Dichlorotoluene        | 19398-61-9 | 0.2                                      | ND                   | µg/L |
| 2,6-Dichlorotoluene        | 118-69-4   | 0.2                                      | ND                   | µg/L |
| 3,4-Dichlorotoluene        | 95-75-0    | 0.2                                      | ND                   | µg/L |
| 3,5-Dichlorotoluene        | 25186-47-4 | 0.2                                      | ND                   | µg/L |
| 2,3,4-Trichlorotoluene     | 7359-72-0  | 0.2                                      | ND                   | µg/L |
| 2,3,6-Trichlorotoluene     | 2077-46-5  | 0.2                                      | ND                   | µg/L |
| 2,4,5-Trichlorotoluene     | 6639-30-1  | 0.2                                      | ND                   | µg/L |
| 2,4,6-Trichlorotoluene     | 23749-65-7 | 0.2                                      | ND                   | µg/L |
| 3,4,5-Trichlorotoluene     | 21472-86-6 | 0.2                                      | ND                   | µg/L |
| 2,3,4,5-Tetrachlorotoluene | 76057-12-0 | 0.2                                      | ND                   | µg/L |

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

## 7. Chlorophenols

With reference to BS EN 12673-1999, USEPA 8270 E or Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS

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

## 8. N,N-di-methylformamide (DMFa)

With reference to USEPA 8015 or USEPA 8270 E

| Test item                     | CAS no. | Reporting Limit<br>(Textile)                      | Result               | Unit |
|-------------------------------|---------|---|----------------------|------|
|                               |         |   | Untreated wastewater |      |
| N,N-di-methylformamide (DMFa) | 68-12-2 | 1000<br>(Sample and Report only for mock leather) | ND                   | µg/L |

**9. Dyes - Carcinogenic or Equivalent Concern**

With reference to Liquid extraction followed by LC-MS

| Test items  | CAS no.    | Reporting Limit<br>(Textile and Leather) | Result               | Unit |
|---|------------|--|----------------------|------|
|   |            |  | Untreated wastewater |      |
| C.I. Direct Black 38                              | 1937-37-7  | 500                                      | ND                   | µg/L |
| C.I. Direct Blue 6                                | 2602-46-2  | 500                                      | ND                   | µg/L |
| C.I. Acid Red 26                                  | 3761-53-3  | 500                                      | ND                   | µg/L |
| C.I. Basic Red 9                                  | 569-61-9   | 500                                      | ND                   | µg/L |
| C.I. Direct Red 28                                | 573-58-0   | 500                                      | ND                   | µg/L |
| C.I. Basic Violet 14                              | 632-99-5   | 500                                      | ND                   | µg/L |
| C.I. Disperse Blue 1                              | 2475-45-8  | Textile: 500                             | ND                   | µg/L |
| C.I. Disperse Blue 3                              | 2475-46-9  | Textile: 500                             | ND                   | µg/L |
| C.I. Basic Blue 26 (with Michler's Ketone > 0.1%) | 2580-56-5  | 500                                      | ND                   | µg/L |
| C.I. Basic Green 4 (malachite green chloride)     | 569-64-2   | 500                                      | ND                   | µg/L |
| C.I. Basic Green 4 (malachite green oxalate)      | 2437-29-8  | 500                                      | ND                   | µg/L |
| C.I. Basic Green 4 (malachite green)              | 10309-95-2 | 500                                      | ND                   | µg/L |
| Disperse Orange 11                                | 82-28-0    | Textile: 500                             | ND                   | µg/L |
| Basic violet 3 with >0.1% of Michler's Ketone*    | 548-62-9   | 500                                      | ND                   | µg/L |
| C.I. Acid Violet 49                               | 1694-09-3  | 500                                      | ND                   | µg/L |

\*Reported concentration refers to the dye part only

**10. Dyes - Disperse (Allergenic)**

With reference to Liquid extraction followed by LC-MS

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

**11. Dyes - Navy Blue Colourant**

With reference to Liquid extraction followed by LC-MS

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

**12. Flame retardants**

Boric acid, Diboron trioxide, Disodium octaborate, Disodium tetraborate anhydrous, Tetraboron disodium heptaoxide, hydrate:

ISO 17294, USEPA 6010 C, USEPA 6020 A, HJ 700 or IS 3025 (Part 65)

Others: With reference to ISO 22032, USEPA 527, USEPA 8270 E, USEPA 8321 B or Dichloromethane extraction followed by GC-MS or LC-MS(-MS)

| Test Items                                     | CAS no.                  | Reporting Limit           | Result               | Unit |
|--|--------------------------|---------------------------|----------------------|------|
|  |                          |                           | Untreated wastewater |      |
| Decabromodiphenyl ether (DecaBDE)              | 1163-19-5                | Textile: 25<br>Leather: 5 | ND                   | µg/L |
| Pentabromodiphenyl ether (PentaBDE)            | 32534-81-9               | Textile: 25<br>Leather: 5 | ND                   | µg/L |
| Octabromodiphenyl ether (OctaBDE)              | 32536-52-0               | Textile: 25<br>Leather: 5 | ND                   | µg/L |
| Tris(1-aziridinylphosphine oxide) (TEPA)       | 545-55-1                 | Textile: 25<br>Leather: 5 | ND                   | µg/L |
| Polybromobiphenyls (PBBs)                      | 59536-65-1               | Textile: 25<br>Leather: 5 | ND                   | µg/L |
| Tris(2,3-dibromopropyl phosphate) (TRIS)       | 126-72-7                 | Textile: 25<br>Leather: 5 | ND                   | µg/L |
| Tetrabromobisphenol A (TBBPA)                  | 79-94-7                  | Textile: 25<br>Leather: 5 | ND                   | µg/L |
| Bis(2,3-dibromopropyl) phosphate               | 5412-25-9                | Textile: 25<br>Leather: 5 | ND                   | µg/L |
| Hexabromocyclododecane (HBCDD)                 | 3194-55-6                | Textile: 25<br>Leather: 5 | ND                   | µg/L |
| 2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)    | 3296-90-0                | Textile: 25<br>Leather: 5 | ND                   | µg/L |
| Tris-(2-chloro-1-methylethyl) phosphate (TCPP) | 13674-84-5               | Textile: 25<br>Leather: 5 | ND                   | µg/L |
| Decabromobiphenyl (DecaBB)                     | 13654-09-6               | Textile: 25               | ND                   | µg/L |
| Dibromobiphenyls (DiBB)                        | Multiple                 | Textile: 25               | ND                   | µg/L |
| Octabromobiphenyls (OctaBB)                    | Multiple                 | Textile: 25               | ND                   | µg/L |
| Dibromopropylether                             | 21850-44-2               | Textile: 25               | ND                   | µg/L |
| Heptabromodiphenyl ether (HeptaBDE)            | 68928-80-3               | Textile: 25               | ND                   | µg/L |
| Hexabromodiphenyl ether (HexaBDE)              | 36483-60-0               | Textile: 25               | ND                   | µg/L |
| Monobromobiphenyls (MonoBB)                    | Multiple                 | Textile: 25               | ND                   | µg/L |
| Monobromodiphenylethers (MonoBDEs)             | Multiple                 | Textile: 25               | ND                   | µg/L |
| Nonabromobiphenyls (NonaBB)                    | Multiple                 | Textile: 25               | ND                   | µg/L |
| Nonabromodiphenyl ether (NonaBDE)              | 63936-56-1               | Textile: 25               | ND                   | µg/L |
| Tetrabromodiphenyl ether (TetraBDE)            | 40088-47-9               | Textile: 25               | ND                   | µg/L |
| Tribromodiphenylethers (TriBDEs)               | Multiple                 | Textile: 25               | ND                   | µg/L |
| Boric acid                                     | 10043-35-3<br>11113-50-1 | Textile: 100*             | 200 (1410,7)**       | µg/L |
| Diboron trioxide                               | 1303-86-2                | Textile: 100*             | 200 (794,3)**        | µg/L |
| Disodium octaborate                            | 12008-41-2               | Textile: 100*             | 200 (1678,3)**       | µg/L |

|   |                        |                           |                |      |
|---|------------------------|---------------------------|----------------|------|
| Disodium tetraborate anhydrous                | 1303-96-4<br>1330-43-4 | Textile: 100*             | 200 (1147,7)** | µg/L |
| Tetraboron disodium heptaoxide, hydrate       | 12267-73-1             | Textile: 100*             | 200 (1319,4)** | µg/L |
| Tris(2-chloroethyl) phosphate (TCEP)          | 115-96-8               | Textile: 25<br>Leather: 5 | ND             | µg/L |
| Tris(1,3-dichloro-isopropyl) phosphate (TDCP) | 13674-87-8             | Textile: 25<br>Leather: 5 | ND             | µg/L |

\* Limit refers to elemental boron, not the salt.

\*\*Result in term of elemental boron (Result in term of the corresponding boron salt)

### 13. Glycols/Glycol Ethers

With reference to USEPA 8270 E or Liquid extraction followed by LC-MS or GC-MS

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

### 14. Halogenated solvents

With reference to USEPA 8260 D, Purge and Trap or Headspace followed by GC-MS

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

**15. Organotin compounds**

TeET:

With reference to ISO 17353

Others:

 With reference to ISO 17353 or Derivatization with  $\text{NaB}(\text{C}_2\text{H}_5)_4$  followed by GC-MS

| Test Items                              | CAS no.                   | Reporting Limit<br>(Textile and Leather) | Result               | Unit |
|---|---------------------------|--|----------------------|------|
|   |                           |  | Untreated wastewater |      |
| Tricyclohexyltin (TCyHT)                | Various                   | 0.01                                     | ND                   | µg/L |
| Tripropyltin (TPT)                      | Various                   | 0.01                                     | ND                   | µg/L |
| Dipropyltin compounds (DPT)             | Various                   | 0.01                                     | ND                   | µg/L |
| Tetrabutyltin compounds (TeBT)          | Various                   | 0.01                                     | ND                   | µg/L |
| Tetraoctyltin compounds (TeOT)          | Various                   | 0.01                                     | ND                   | µg/L |
| Tetraethyltin Compounds (TeET)          | Various                   | 0.01                                     | ND                   | µg/L |
| Mono-, di-and tri-octyltin derivatives  | Various                   | 0.01                                     | ND                   | µg/L |
| Monooctyltin (MOT)                      | 15231-57-9                | 0.01                                     | ND                   | µg/L |
| Diocetyl tin (DOT)                      | 94410-05-6,<br>12531-44-4 | 0.01                                     | ND                   | µg/L |
| Triocetyl tin (TOT)                     | Various                   | 0.01                                     | ND                   | µg/L |
| Mono-, di-and tri-methyltin derivatives | Various                   | 0.01                                     | ND                   | µg/L |
| Monomethyltin (MMT)                     | Various                   | 0.01                                     | ND                   | µg/L |
| Dimethyltin (DMT)                       | Various                   | 0.01                                     | ND                   | µg/L |
| Trimethyltin (TMT)                      | Various                   | 0.01                                     | ND                   | µg/L |
| Mono-, di-and tri-butyltin derivatives  | Various                   | 0.01                                     | ND                   | µg/L |
| Monobutyltin (MBT)                      | 1118-46-3,<br>78763-54-9  | 0.01                                     | ND                   | µg/L |
| Dibutyltin (DBT)                        | 1002-53-5                 | 0.01                                     | ND                   | µg/L |
| Tributyltin (TBT)                       | 56573-85-4                | 0.01                                     | ND                   | µg/L |
| Mono-, di-and tri-phenyltin derivatives | Various                   | 0.01                                     | ND                   | µg/L |
| Monophenyltin (MPhT)                    | Various                   | 0.01                                     | ND                   | µg/L |
| Diphenyltin (DPhT)                      | Various                   | 0.01                                     | ND                   | µg/L |
| Triphenyltin (TPhT)                     | 892-20-6,<br>668-34-8     | 0.01                                     | ND                   | µg/L |



**16. Other/Miscellaneous Chemicals**

AEEA [2-(2-aminoethylamino) ethanol]: With reference to Liquid extraction followed by LC-MS/MS

Bisphenol A: With reference to Liquid extraction followed by LC-MS

Thiourea: With reference to Liquid extraction followed by LC-MS

Quinoline: With reference to Liquid extraction followed by LC-MS

Borate, zinc salt: ISO 17294, USEPA 6010 C, USEPA 6020 A, HJ 700 or IS 3025 (Part 65)

| Test Items                           | CAS no.    | Reporting Limit<br>(Textile) | Result                             | Unit |
|--------------------------------------|------------|------------------------------|------------------------------------|------|
|                                      |            |                              | Untreated wastewater               |      |
| AEEA [2-(2-aminoethylamino) ethanol] | 111-41-1   | 500                          | ND                                 | µg/L |
| Bisphenol A                          | 80-05-7    | 10                           | ND                                 | µg/L |
| Thiourea                             | 62-56-6    | 50                           | ND                                 | µg/L |
| Quinoline                            | 91-22-5    | 50                           | ND                                 | µg/L |
| Borate, zinc salt                    | 12767-90-7 | 100*                         | B: 200 (1423,8)**<br>Zn: ND (ND)** | µg/L |

\* Limit refers to boron and zinc individually, not the salt.

\*\* Result in term of elemental boron / zinc (Result in term of the corresponding boron / zinc salt)

**17. Perfluorinated and Polyfluorinated Chemicals (PFCs)**

PFCs:

With reference to USEPA 537:2020 followed by LC-MS(-MS)

FTOH:

With reference to BS EN 12673-1999, USEPA 8270 E or Derivatization with acetic anhydride followed by GC-MS

| Test Items  | CAS no.    | Reporting Limit<br>(Textile and Leather) | Result               | Unit |
|---|------------|--|----------------------|------|
|   |            |  | Untreated wastewater |      |
| Perfluoro-octane-sulfonic acid (PFOS)*                        | 1763-23-1  | 0.01                                     | ND                   | µg/L |
| Perfluoro-octanoic acid (PFOA)**                              | 335-67-1   | 0.01                                     | ND                   | µg/L |
| Perfluoro-octane-sulfon-amide (PFOSA)                         | 754-91-6   | 0.01                                     | ND                   | µg/L |
| 1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)                 | 27905-45-9 | 1  | ND                   | µg/L |
| 1H,1H,2H,2H-Perfluorodecanol (8:2 FTOH)                       | 678-39-7   | 1  | ND                   | µg/L |
| N-Methyl-perfluoro-octane-sulfon-amido-ethanol<br>(N-Me-FOSE) | 24448-09-7 | 0.01                                     | ND                   | µg/L |
| N-Ethyl-Perfluoro-octane-sulfon-amido-ethanol<br>(N-Et-FOSE)  | 1691-99-2  | 0.01                                     | ND                   | µg/L |
| N-Methyl-perfluoro-octane-sulfon-amide (N-Me-FOSA)            | 31506-32-8 | 0.01                                     | ND                   | µg/L |
| N-Ethyl-perfluoro-octane-sulfon-amide (N-Et-FOSA)             | 4151-50-2  | 0.01                                     | ND                   | µg/L |
| 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)            | 39108-34-4 | 1  | ND                   | µg/L |
| Methyl Perfluorooctanoate (Me-PFOA)                           | 376-27-2   | 1  | ND                   | µg/L |
| Ethyl Perfluorooctanoate (Et-PFOA)                            | 3108-24-5  | 1  | ND                   | µg/L |
| 8:2 Fluorotelomer methacrylate (8:2 FTMA)                     | 1996-88-9  | 1  | ND                   | µg/L |

\* PFOS refer to its salts/derivative including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH<sub>4</sub> (CAS No.: 29081-56-9), PFOS-NH(OH)<sub>2</sub> (CAS No.: 70225-14-8), PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> (CAS No.: 56773-42-3) and POSF (CAS No.: 307-35-7)

\*\* PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1)

**18. Phthalates – including all other esters of ortho-phthalic acid**

With reference to USEPA 8270 E, ISO 18856 or Dichloromethane extraction followed by GC-MS

| Test Items  | CAS no.                   | Reporting Limit<br>(Textile and Leather) | Result               | Unit |
|---|---------------------------|--|----------------------|------|
|   |                           |  | Untreated wastewater |      |
| Di-2-ethylhexyl phthalate (DEHP)  | 117-81-7                  | 10                                       | ND                   | µg/L |
| Dimethoxyethyl phthalate (DMEP)   | 117-82-8                  | 10                                       | ND                   | µg/L |
| Di-n-octyl phthalate (DNOP)   | 117-84-0                  | 10                                       | ND                   | µg/L |
| Di-iso-decyl phthalate (DIDP)   | 26761-40-0                | 10                                       | ND                   | µg/L |
| Di-iso-nonyl phthalate (DINP)   | 28553-12-0                | 10                                       | ND                   | µg/L |
| Di-n-hexyl phthalate (DnHP)   | 84-75-3                   | 10                                       | ND                   | µg/L |
| Dibutyl phthalate (DBP)   | 84-74-2                   | 10                                       | ND                   | µg/L |
| Butyl benzyl phthalate (BBP)  | 85-68-7                   | 10                                       | ND                   | µg/L |
| Dinonyl phthalate (DNP)   | 84-76-4                   | 10                                       | ND                   | µg/L |
| Diethyl phthalate (DEP)   | 84-66-2                   | 10                                       | ND                   | µg/L |
| Di-n-propyl phthalate (DPRP)  | 131-16-8                  | 10                                       | ND                   | µg/L |
| Di-iso-butyl phthalate (DIBP)   | 84-69-5                   | 10                                       | ND                   | µg/L |
| Di-cyclohexyl phthalate (DCHP)  | 84-61-7                   | 10                                       | ND                   | µg/L |
| Di-iso-octyl phthalate (DIOP)   | 27554-26-3                | 10                                       | ND                   | µg/L |
| 1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP)        | 68515-42-4,<br>68515-50-4 | 10                                       | ND                   | µg/L |
| 1,2-benzenedicarboxylic acid, di-C6-8 branched and linearalkyl esters, C7-rich (DIHP) | 71888-89-6,<br>84777-06-0 | 10                                       | ND                   | µg/L |
| Di-n-pentylphthalates   | 131-18-0                  | 10                                       | ND                   | µg/L |
| Diisopentylphthalates   | 605-50-5                  | 10                                       | ND                   | µg/L |

**19. Polycyclic aromatic hydrocarbons (PAHs)**

With reference to DIN 38407-39, USEPA 8270 E or Solvent extraction followed by GC-MS

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

**20. Restricted Aromatic Amines (Cleavable from Azo-colourants)**

With reference to USEPA 8270 E or Reduction step with sodium dithionite, solvent extraction followed by GC-MS and LC-MS/MS

| Test Items  | CAS no.    | Reporting Limit<br>(Textile and Leather) | Result               | Unit |
|---|------------|--|----------------------|------|
|   |            |  | Untreated wastewater |      |
| 4,4'-Methylene-bis(2-chloroaniline)   | 101-14-4   | 0.1                                      | ND                   | µg/L |
| 4,4'-Diaminodiphenylmethane   | 101-77-9   | 0.1                                      | 2,4                  | µg/L |
| 4,4'-Oxydianiline   | 101-80-4   | 0.1                                      | ND                   | µg/L |
| 4-Chloroaniline   | 106-47-8   | 0.1                                      | 0,7                  | µg/L |
| 3,3'-Dimethoxybenzidine   | 119-90-4   | 0.1                                      | ND                   | µg/L |
| 3,3'-Dimethylbenzidine  | 119-93-7   | 0.1                                      | ND                   | µg/L |
| p-Cresidine   | 120-71-8   | 0.1                                      | ND                   | µg/L |
| 2,4,5-Trimethylaniline  | 137-17-7   | 0.1                                      | ND                   | µg/L |
| 4,4'-Thiodianiline  | 139-65-1   | 0.1                                      | ND                   | µg/L |
| 4-Aminoazobenzene   | 60-09-3    | 0.1                                      | ND                   | µg/L |
| 2,4-Diaminoanisoole   | 615-05-4   | 0.1                                      | ND                   | µg/L |
| 3,3'-Dimethyl-4,4'-diaminodiphenylmethane                                     | 838-88-0   | 0.1                                      | ND                   | µg/L |
| 2,6-Xylidine  | 87-62-7    | 0.1                                      | ND                   | µg/L |
| o-Anisidine   | 90-04-0    | 0.1                                      | ND                   | µg/L |
| 2-Naphthylamine   | 91-59-8    | 0.1                                      | ND                   | µg/L |
| 3,3'-Dichlorobenzidine  | 91-94-1    | 0.1                                      | ND                   | µg/L |
| 4-Aminobiphenyl   | 92-67-1    | 0.1                                      | ND                   | µg/L |
| Benzidine   | 92-87-5    | 0.1                                      | ND                   | µg/L |
| o-Toluidine   | 95-53-4    | 0.1                                      | ND                   | µg/L |
| 2,4-Xylidine  | 95-68-1    | 0.1                                      | ND                   | µg/L |
| 4-Chloro-o-toluidine  | 95-69-2    | 0.1                                      | ND                   | µg/L |
| 2,4-Diaminotoluene  | 95-80-7    | 0.1                                      | ND                   | µg/L |
| o-Aminoazotoluene   | 97-56-3    | 0.1                                      | ND                   | µg/L |
| 5-Nitro-o-toluidine   | 99-55-8    | 0.1                                      | ND                   | µg/L |
| 2-Naphthylammoniumacetate   | 553-00-4   | 0.1                                      | ND                   | µg/L |
| 2,4,5-trimethylaniline hydrochloride  | 21436-97-5 | 0.1                                      | ND                   | µg/L |
| 4-chloro-o-toluidinium chloride   | 3165-93-3  | 0.1                                      | ND                   | µg/L |
| 4-methoxy-m-phenylene<br>diammonium sulphate;<br>2,4-diaminoanisoole sulphate | 39156-41-7 | 0.1                                      | ND                   | µg/L |

**21. UV Absorbers**

With reference to ISO 22032, USEPA 527, USEPA 8270 E, USEPA 8321 B or Dichloromethane extraction followed by GC-MS or LC-MS(-MS)

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

**22. Volatile organic compounds (VOCs)**

Benzene: With reference to ISO 11423-1, ISO 20595, USEPA 8260 D, Purge and Trap or Headspace followed by GC-MS

m-cresol / o-cresol / p-cresol: With reference to BS EN 12637-1999, ISO 11423-1, USEPA 8270 E, Purge and Trap or Headspace followed by GC-MS

Xylene: With reference to ISO 11423-1, USEPA 8260 D, Purge and Trap or Headspace followed by GC-MS

Toluene: With reference to ISO 11423-1, USEPA 8260 D or HJ 1067

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

**Remark**

ND = Not detected

NA = Not applicable

NC = Not conducted

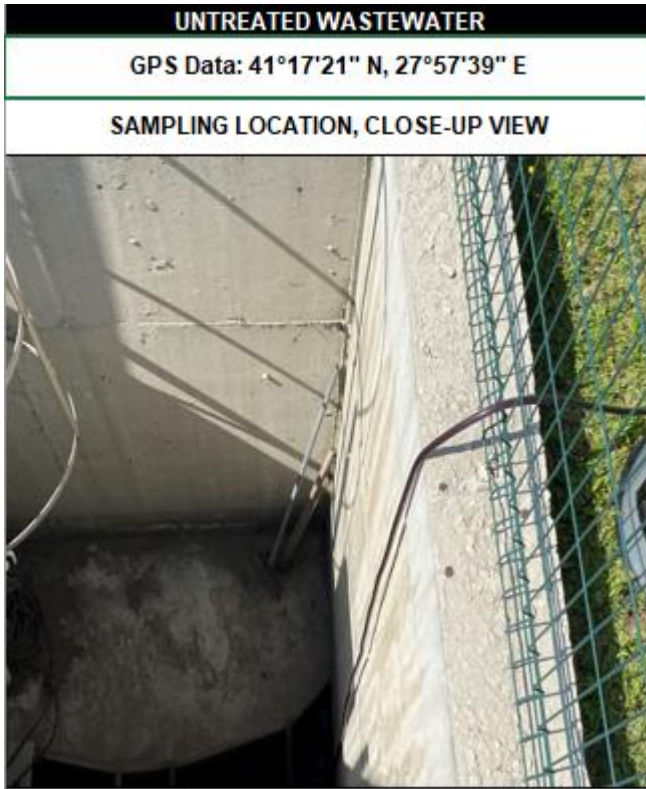
- = Not required to be tested

(S) = The analysis was subcontracted to xxxxx lab for testing.

# = Non accredited parameter



## SAMPLING PHOTOS





**REGULATORY REQUIREMENTS TURKEY LOCAL DISCHARGE REGULATION  
TEXTILE INDUSTRY WASTEWATER DISCHARGE STANDARDS OF THE RECEIVING ENVIRONMENT**

Su Kirliliği Kontrol Yönetmeliği Tablo 19.

| PARAMETRE                         | BİRİM  | KOMPOZİT<br>NUMUNE<br>2 SAATLİK | KOMPOZİT<br>NUMUNE<br>24 SAATLİK |
|-----------------------------------|--------|---------------------------------|----------------------------------|
| KİMYASAL OKSİJEN İHTİYACI (KOİ)   | (mg/L) | 400                             | <b>300</b>                       |
| ASKIDA KATI MADDE (AKM)           | (mg/L) | 200                             | <b>100</b>                       |
| YAĞ VE GRES                       | (mg/L) | 20                              | <b>10</b>                        |
| TOPLAM FOSFOR                     | (mg/L) | 2                               | <b>1</b>                         |
| TOPLAM KROM                       | (mg/L) | 2                               | <b>1</b>                         |
| KROM (Cr <sup>+6</sup> )          | (mg/L) | 0.5                             | <b>0.5</b>                       |
| KURŞUN (Pb)                       | (mg/L) | 2                               | <b>1</b>                         |
| TOPLAM SİYANÜR (CN <sup>-</sup> ) | (mg/L) | 1                               | <b>0.5</b>                       |
| KADMİYUM (Cd)                     | (mg/L) | 0.1                             | -                                |
| DEMİR (Fe)                        | (mg/L) | 10                              | -                                |
| FLORÜR (F <sup>-</sup> )          | (mg/L) | 15                              | -                                |
| BAKIR (Cu)                        | (mg/L) | 3                               | -                                |
| ÇİNKO (Zn)                        | (mg/L) | 5                               | -                                |
| CİVA (Hg)                         | (mg/L) | -                               | <b>0.05</b>                      |
| SÜLFAT (SO <sub>4</sub> )         | (mg/L) | 1500                            | <b>1500</b>                      |
| TOPLAM KJELDAHL-AZOTU             | (mg/L) | 20                              | <b>15</b>                        |
| BALIK BİYODENEYİ (ZSF)            | -      | 10                              | <b>10</b>                        |
| pH                                | -      | 6-9                             | <b>6-9</b>                       |

\*\*\* End of Report \*\*\*