

**SOFTLINES WASTEWATER TESTING**  
**TEST REPORT**

Number: TURA210051661

Date: 28/04/2021

Factory:

Factory's name:

TUSA DENİM SANAYİ ve TİCARET A.Ş.

Address:

Organize Sanayi Bölgesi, Kurtköy, 74100, Merkez/ BARTIN

On-site Wastewater treatment plant:

Yes

Type of wastewater discharge:

Indirect Discharge

Date of sampling:

08/04/2021

Sample type:

Sample / Wastewater (Raw)

[Black, composite sampling at 09:00, 10:00, 11:00, 12:00, 13:00, 14:00]

Sample / Wastewater (Treated)

[Transparent, composite sampling at 09:10, 10:10, 11:10, 12:10, 13:10, 14:10]

Local legal standard name<sup>[a]</sup>:

BARTIN OSB ATIKSU ARITMA TESİSİ ve ATIKSULARIN KANALA BAĞLANTI YÖNERGESİ

Local legal standard no.<sup>[a]</sup>:

4562

Parameters (ZDHC WWG V1.1, Table 1A-1B)  
exceeded local regulation:

Not Exceeded

Discharge permit provided:

Yes, Provided

Ambient temperature of receiving water body:

N/A

Date received/Date test started:

09/04/2021

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Tests conducted:

As requested by a brand program, for details refer to attached page(s).

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#### Summary of test results:

Suppliers with indirect discharge are expected to have conventional parameters complying with their legal wastewater discharge permit and/or commercial agreements with the receiving central effluent treatment plant, Regulation/Standard information for discharged wastewater as well as the limitation value (or contractual limit value agreed by CETP) for the required parameters indicated in results section. Therefore, there should not be any negative consequences if these suppliers do not meet the requirements of the conventional parameters set forth in ZDHC Guideline v1.1 Appendix A Tables 1A-1B. ZDHC aims to use the collected test data to define a set of conventional parameters and limits specific for indirect discharge suppliers.

| Wastewater / Conventional parameters - Test items | Sample / Wastewater (Treated) |             |              |
|---------------------------------------------------|-------------------------------|-------------|--------------|
|                                                   | Foundational                  | Progressive | Aspirational |
| Temperature [°C]                                  | 24 °C                         |             |              |
| TSS                                               | X                             | -           | -            |
| COD                                               | 556 mg/L                      | -           | -            |
| Total-N                                           | -                             | -           | X            |
| pH                                                | 7.17                          |             |              |
| Colour [m-1]                                      | -                             | -           | X            |
| BOD <sub>5</sub>                                  | 240 mg/L                      | -           | -            |
| Ammonium-N                                        | -                             | X           | -            |
| Total-P                                           | X                             | -           | -            |
| AOX                                               | -                             | -           | X            |
| Oil and grease                                    | X                             | -           | -            |
| Phenol                                            | -                             | X           | -            |
| Coliform [bacterial/100 ml]                       | 10000                         | -           | -            |
| Foam                                              | Not Visible                   |             |              |
| Cyanide                                           | -                             | -           | X            |
| Sulfide                                           | -                             | X           | -            |
| Sulfite                                           | 65 mg/L                       | -           | -            |

| Wastewater / Heavy metals - Test items | Sample / Wastewater (Treated) |             |              |
|----------------------------------------|-------------------------------|-------------|--------------|
|                                        | Foundational                  | Progressive | Aspirational |
| Antimony, Sb                           | -                             | -           | X            |
| Chromium, Cr (total)                   | -                             | -           | X            |
| Cobalt, Co                             | -                             | -           | X            |
| Copper, Cu                             | -                             | -           | X            |
| Nickel, Ni                             | -                             | -           | X            |
| Silver, Ag                             | -                             | -           | X            |
| Zinc, Zn                               | -                             | -           | X            |
| Arsenic, As                            | -                             | -           | X            |
| Cadmium, Cd                            | -                             | -           | X            |
| Chromium (VI), Cr VI                   | -                             | -           | X            |
| Lead, Pb                               | -                             | -           | X            |
| Mercury, Hg                            | -                             | -           | X            |

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| Test items                                         | Sample / Wastewater (Raw) | Sample / Wastewater (Treated) |
|----------------------------------------------------|---------------------------|-------------------------------|
| Cyanide                                            | N/A                       | ND                            |
| Sulfide                                            | N/A                       | D                             |
| Sulfite                                            | N/A                       | D                             |
| Heavy metals                                       | D                         | D                             |
| Alkylphenol ethoxylates / Alkylphenols (APEOs/APs) | ND                        | ND                            |
| Chlorobenzenes and Chlorotoluenes                  | ND                        | ND                            |
| Chlorophenols                                      | ND                        | ND                            |
| Azo dyes (Forming restricted amines)               | ND                        | ND                            |
| Carcinogenic dyes                                  | ND                        | ND                            |
| Disperse dyes                                      | ND                        | ND                            |
| Flame retardants                                   | ND                        | ND                            |
| Glycols                                            | ND                        | ND                            |
| Halogenated solvents                               | ND                        | ND                            |
| Organotin compounds                                | ND                        | ND                            |
| Perfluorinated & Polyfluorinated chemicals (PFCs)  | ND                        | ND                            |
| Phthalates (Ortho-phthalates)                      | ND                        | ND                            |
| Polycyclic aromatic hydrocarbons (PAHs)            | ND                        | ND                            |
| Volatile organic compounds (VOCs)                  | ND                        | ND                            |

| Note :                                                                                                                                                                                                        |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| ND = Not detected                                                                                                                                                                                             |                     |
| D = Detected <i>[please specify actual result]</i>                                                                                                                                                            |                     |
| N/A = Not applicable                                                                                                                                                                                          | - = Did not perform |
| # = No comment                                                                                                                                                                                                | * = See Remark      |
| [a] = The local legal standard name and legal standard no. is referenced to discharge permit (or contractual agree by CETP) that provided by applicant.                                                       |                     |
| This report shown the test result of the environment samples of above factory which collected on specific date and time. The results of this report shall not be used for any regulatory compliance purposes. |                     |

For and on behalf of  
Intertek Testing Services TURKEY Limited

Prepared and Checked By:



Selvihan Elidüzgün  
Environmental Engineer, Ms.c.  
For Intertek Testing Services Turkey

Authorized By:



Zeynep Akin  
Chemical Laboratory Manager  
For Intertek Testing Services Turkey

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#### Sample / Wastewater (Raw)

##### 1. Heavy metals

With reference to ISO 11885, ISO 18412, ISO 12846, ISO 17852, US EPA 200.7, US EPA 200.8, US EPA 6010c, US EPA 6020a, US EPA 218.6, GB 7467, HJ700, GB7475 and by Inductively Coupled Argon Plasma-Mass Spectrometry (ICP-MS) analysis, or by Colourimetric UV/VIS or Colourimetric IC analysis.

| Chemical substances  | CAS no.    | ZDHC Guideline Limits (mg/L) |             |              | Reporting Limit (mg/L) | Wastewater (mg/L) |
|----------------------|------------|------------------------------|-------------|--------------|------------------------|-------------------|
|                      |            | Foundational                 | Progressive | Aspirational |                        |                   |
| Antimony, Sb         | 7440-36-0  | 0.1                          | 0.05        | 0.01         | 0.001                  | ND                |
| Chromium, Cr (total) | 7440-47-3  | 0.2                          | 0.1         | 0.05         | 0.001                  | ND                |
| Cobalt, Co           | 7440-48-4  | 0.05                         | 0.02        | 0.01         | 0.001                  | ND                |
| Copper, Cu           | 7440-50-8  | 1                            | 0.5         | 0.25         | 0.001                  | ND                |
| Nickel, Ni           | 7440-02-0  | 0.2                          | 0.1         | 0.05         | 0.001                  | 0.005             |
| Silver, Ag           | 7440-22-4  | 0.1                          | 0.05        | 0.005        | 0.001                  | ND                |
| Zinc, Zn             | 7440-66-6  | 5                            | 1           | 0.5          | 0.001                  | 0.102             |
| Arsenic, As          | 7440-38-2  | 0.05                         | 0.01        | 0.005        | 0.001                  | ND                |
| Cadmium, Cd          | 7440-43-9  | 0.1                          | 0.05        | 0.01         | 0.0001                 | ND                |
| Chromium(VI), Cr VI  | 18540-29-9 | 0.05                         | 0.005       | 0.001        | 0.001                  | ND                |
| Lead, Pb             | 7439-92-1  | 0.1                          | 0.05        | 0.01         | 0.001                  | ND                |
| Mercury, Hg          | 7439-97-6  | 0.01                         | 0.005       | 0.001        | 0.00005                | ND                |

Remark: ND = Not detected

\* Regulation/Standard information for discharged wastewater as well as the limitation value (or contractual limit value agreed by CETP) for the required parameters (mandatory).

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2. Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)

With reference to ISO 18857-2/ASTM D7065, ISO 18254-1/2, and by Gas Chromatography-Mass Spectrometry (GC-MS) and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

| Chemical substances             | CAS no.                                                                | Reporting limit | Wastewater (µg/L) |
|---------------------------------|------------------------------------------------------------------------|-----------------|-------------------|
| Nonylphenol (NP), mixed isomers | 104-40-5;<br>11066-49-2;<br>25154-52-3;<br>84852-15-3                  | 5 µg/L          | ND                |
| Octylphenol (OP), mixed isomers | 140-66-9;<br>1806-26-4;<br>27193-28-8                                  | 5 µg/L          | ND                |
| Nonylphenol ethoxylates (NPEO)  | 9016-45-9;<br>26027-38-3;<br>37205-87-1;<br>68412-54-4;<br>127087-87-0 | 5 µg/L          | ND                |
| Octylphenol ethoxylates (OPEO)  | 9002-93-1;<br>9036-19-5;<br>68987-90-6                                 | 5 µg/L          | ND                |

Remark: ND = Not detected

3. Chlorobenzenes and Chlorotoluenes

With reference to US EPA 8260B, US EPA 8270D, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

| Chemical substances        | CAS no.  | Reporting limit | Wastewater (µg/L) |
|----------------------------|----------|-----------------|-------------------|
| Monochlorobenzene          | 108-90-7 | 0.2 µg/L        | ND                |
| 4-Chlorotoluene            | 106-43-4 | 0.2 µg/L        | ND                |
| 1,2-Dichlorobenzene        | 95-50-1  | 0.2 µg/L        | ND                |
| 1,3-Dichlorobenzene        | 541-73-1 | 0.2 µg/L        | ND                |
| 1,4-Dichlorobenzene        | 106-46-7 | 0.2 µg/L        | ND                |
| 1,2,4-Trichlorobenzene     | 120-82-1 | 0.2 µg/L        | ND                |
| 1,2,3-Trichlorobenzene     | 87-61-6  | 0.2 µg/L        | ND                |
| 1,3,5-Trichlorobenzene     | 108-70-3 | 0.2 µg/L        | ND                |
| 1,2,3,4-Tetrachlorobenzene | 634-66-2 | 0.2 µg/L        | ND                |
| 1,2,3,5-Tetrachlorobenzene | 634-90-2 | 0.2 µg/L        | ND                |
| 1,2,4,5-Tetrachlorobenzene | 95-94-3  | 0.2 µg/L        | ND                |
| Pentachlorobenzene         | 608-93-5 | 0.2 µg/L        | ND                |

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|----------------------------|------------|----------|----|
| Hexachlorobenzene          | 118-74-1   | 0.2 µg/L | ND |
| 2-Chlorotoluene            | 95-49-8    | 0.2 µg/L | ND |
| 3-Chlorotoluene            | 108-41-8   | 0.2 µg/L | ND |
| 2,3-Dichlorotoluene        | 32768-54-0 | 0.2 µg/L | ND |
| 2,4-Dichlorotoluene        | 95-73-8    | 0.2 µg/L | ND |
| 2,5-Dichlorotoluene        | 19398-61-9 | 0.2 µg/L | ND |
| 2,6-Dichlorotoluene        | 118-69-4   | 0.2 µg/L | ND |
| 3,4-Dichlorotoluene        | 95-75-0    | 0.2 µg/L | ND |
| 3,5-Dichlorotoluene        | 25186-47-4 | 0.2 µg/L | ND |
| 2,3,4-Trichlorotoluene     | 7359-72-0  | 0.2 µg/L | ND |
| 2,3,6-Trichlorotoluene     | 2077-46-5  | 0.2 µg/L | ND |
| 2,4,6-Trichlorotoluene     | 23749-65-7 | 0.2 µg/L | ND |
| 2,4,5-Trichlorotoluene     | 6639-30-1  | 0.2 µg/L | ND |
| 3,4,5-Trichlorotoluene     | 21472-86-6 | 0.2 µg/L | ND |
| 2,3,4,5-Tetrachlorotoluene | 76057-12-0 | 0.2 µg/L | ND |
| 2,3,5,6-Tetrachlorotoluene | 29733-70-8 | 0.2 µg/L | ND |
| 2,3,4,6-Tetrachlorotoluene | 875-40-1   | 0.2 µg/L | ND |
| Pentachlorotoluene         | 877-11-2   | 0.2 µg/L | ND |

Remark: ND = Not detected

#### 4. Chlorophenols

With reference to US EPA 8270D and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

| Chemical substances       | CAS no.    | Reporting limit | Wastewater (µg/L) |
|---------------------------|------------|-----------------|-------------------|
| 2-Chlorophenol            | 95-57-8    | 0.5 µg/L        | ND                |
| 2,4-Dichlorophenol        | 120-83-2   | 0.5 µg/L        | ND                |
| 2,5-Dichlorophenol        | 583-78-8   | 0.5 µg/L        | ND                |
| 2,6-Dichlorophenol        | 87-65-0    | 0.5 µg/L        | ND                |
| Pentachlorophenol (PCP)   | 87-86-5    | 0.5 µg/L        | ND                |
| 2,3,4,6-Tetrachlorophenol | 58-90-2    | 0.5 µg/L        | ND                |
| 2,4,5-Trichlorophenol     | 95-95-4    | 0.5 µg/L        | ND                |
| 2,4,6-Trichlorophenol     | 88-06-2    | 0.5 µg/L        | ND                |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3  | 0.5 µg/L        | ND                |
| 2,3,5,6-Tetrachlorophenol | 935-95-5   | 0.5 µg/L        | ND                |
| 2,3,6-Trichlorophenol     | 933-75-5   | 0.5 µg/L        | ND                |
| 2,3,4-Trichlorophenol     | 15950-66-0 | 0.5 µg/L        | ND                |
| 2,3,5-Trichlorophenol     | 933-78-8   | 0.5 µg/L        | ND                |
| 3,4,5-Trichlorophenol     | 609-19-8   | 0.5 µg/L        | ND                |
| 3,5-Dichlorophenol        | 591-35-5   | 0.5 µg/L        | ND                |
| 2,3-Dichlorophenol        | 576-24-9   | 0.5 µg/L        | ND                |
| 3,4-Dichlorophenol        | 95-77-2    | 0.5 µg/L        | ND                |

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|                |          |          |    |
|----------------|----------|----------|----|
| 3-chlorophenol | 108-43-0 | 0.5 µg/L | ND |
| 4-chlorophenol | 106-48-9 | 0.5 µg/L | ND |

Remark: ND = Not detected

### 5. Azo dyes (Forming restricted amines)

With reference to EN 14362-1/3, and by Gas Chromatographic - Mass Spectrometric (GC-MS) or and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

| Chemical substances                 | CAS no.  | Reporting limit | Wastewater (µg/L) |
|-------------------------------------|----------|-----------------|-------------------|
| 2,4,5-Trimethylaniline              | 137-17-7 | 0.1 µg/L        | ND                |
| 4-methoxy-m-phenylenediamine        | 615-05-4 | 0.1 µg/L        | ND                |
| 4-methyl-m-phenylenediamine         | 95-80-7  | 0.1 µg/L        | ND                |
| 2,4-Xylidine                        | 95-68-1  | 0.1 µg/L        | ND                |
| 2,6-Xylidine                        | 87-62-7  | 0.1 µg/L        | ND                |
| 2-Naphthylamine                     | 91-59-8  | 0.1 µg/L        | ND                |
| 3,3'-Dichlorobenzidine              | 91-94-1  | 0.1 µg/L        | ND                |
| 3,3'-Dimethoxybenzidine             | 119-90-4 | 0.1 µg/L        | ND                |
| 4,4'-methylenedi-o-toluidine        | 838-88-0 | 0.1 µg/L        | ND                |
| 3,3'-Dimethylbenzidine              | 119-93-7 | 0.1 µg/L        | ND                |
| 4,4'-methylenedianiline             | 101-77-9 | 0.1 µg/L        | ND                |
| 4,4'-Methylene-bis(2-chloroaniline) | 101-14-4 | 0.1 µg/L        | ND                |
| 4,4'-Oxydianiline                   | 101-80-4 | 0.1 µg/L        | ND                |
| 4,4'-Thiodianiline                  | 139-65-1 | 0.1 µg/L        | ND                |
| 4-Aminodiphenyl                     | 92-67-1  | 0.1 µg/L        | ND                |
| 4-Chloroaniline                     | 106-47-8 | 0.1 µg/L        | ND                |
| 4-Chloro-o-toluidine                | 95-69-2  | 0.1 µg/L        | ND                |
| 5-Nitro-o-toluidine                 | 99-55-8  | 0.1 µg/L        | ND                |
| 4-Aminoazobenzene                   | 60-09-3  | 0.1 µg/L        | ND                |
| Benzidine                           | 92-87-5  | 0.1 µg/L        | ND                |
| o-Aminoazotoluene                   | 97-56-3  | 0.1 µg/L        | ND                |
| o-Anisidine                         | 90-04-0  | 0.1 µg/L        | ND                |
| o-Toluidine                         | 95-53-4  | 0.1 µg/L        | ND                |
| 6-methoxy-m-toluidine               | 120-71-8 | 0.1 µg/L        | ND                |

Remark: ND = Not detected

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### 6. Carcinogenic dyes

By Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

| Chemical substances                                  | CAS no.    | Reporting limit | Wastewater (µg/L) |
|------------------------------------------------------|------------|-----------------|-------------------|
| C.I. Direct Black 38                                 | 1937-37-7  | 500 µg/L        | ND                |
| C.I. Direct Blue 6                                   | 2602-46-2  | 500 µg/L        | ND                |
| C.I. Acid Red 26                                     | 3761-53-3  | 500 µg/L        | ND                |
| C.I. Basic Red 9                                     | 569-61-9   | 500 µg/L        | ND                |
| C.I. Direct Red 28                                   | 573-58-0   | 500 µg/L        | ND                |
| C.I. Basic Violet 14                                 | 632-99-5   | 500 µg/L        | ND                |
| C.I. Disperse Blue 1                                 | 2475-45-8  | 500 µg/L        | ND                |
| C.I. Disperse Blue 3                                 | 2475-46-9  | 500 µg/L        | ND                |
| C.I. Basic Blue 26<br>(with Michler's Ketone > 0.1%) | 2580-56-5  | 500 µg/L        | ND                |
| C.I. Basic Green 4<br>(malachite green chloride)     | 569-64-2   | 500 µg/L        | ND                |
| C.I. Basic Green 4<br>(malachite green oxalate)      | 2437-29-8  | 500 µg/L        | ND                |
| C.I. Basic Green 4 (malachite green)                 | 10309-95-2 | 500 µg/L        | ND                |
| Disperse Orange 11                                   | 82-28-0    | 500 µg/L        | ND                |

Remark: ND = Not detected

### 7. Disperse dyes

By Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

| Chemical substances      | CAS no.    | Reporting limit | Wastewater (µg/L) |
|--------------------------|------------|-----------------|-------------------|
| Disperse Yellow 1        | 119-15-3   | 50 µg/L         | ND                |
| Disperse Blue 102        | 12222-97-8 | 50 µg/L         | ND                |
| Disperse Blue 106        | 12223-01-7 | 50 µg/L         | ND                |
| Disperse Yellow 39       | 12236-29-2 | 50 µg/L         | ND                |
| Disperse Orange 37/59/76 | 13301-61-6 | 50 µg/L         | ND                |
| Disperse Brown 1         | 23355-64-8 | 50 µg/L         | ND                |
| Disperse Orange 1        | 2581-69-3  | 50 µg/L         | ND                |
| Disperse Yellow 3        | 2832-40-8  | 50 µg/L         | ND                |
| Disperse Red 11          | 2872-48-2  | 50 µg/L         | ND                |
| Disperse Red 1           | 2872-52-8  | 50 µg/L         | ND                |
| Disperse Red 17          | 3179-89-3  | 50 µg/L         | ND                |
| Disperse Blue 7          | 3179-90-6  | 50 µg/L         | ND                |



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|--------------------|--------------------------|---------|----|
| Disperse Blue 26   | 3860-63-7                | 50 µg/L | ND |
| Disperse Yellow 49 | 54824-37-2               | 50 µg/L | ND |
| Disperse Blue 35   | 12222-75-2<br>56524-77-7 | 50 µg/L | ND |
| Disperse Blue 124  | 61951-51-7               | 50 µg/L | ND |
| Disperse Yellow 9  | 6373-73-5                | 50 µg/L | ND |
| Disperse Orange 3  | 730-40-5                 | 50 µg/L | ND |

Remark: ND = Not detected

8. Flame retardants

With reference to US EPA 8270, ISO 22032, US EPA 527, EPA 8321B, and by Gas Chromatography - Mass Spectrometry (GC-MS) analysis and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

| Chemical substances                                | CAS no.    | Reporting limit | Wastewater (µg/L) |
|----------------------------------------------------|------------|-----------------|-------------------|
| Decabromodiphenyl ether (DecaBDE)                  | 1163-19-5  | 5 µg/L          | ND                |
| Pentabromodiphenyl ether (PentaBDE)                | 32534-81-9 | 5 µg/L          | ND                |
| Octabromodiphenyl ether (OctaBDE)                  | 32536-52-0 | 5 µg/L          | ND                |
| Tris(1-aziridinyl)phosphine oxide (TEPA)           | 545-55-1   | 5 µg/L          | ND                |
| Polybromobiphenyls (PBBs)                          | 59536-65-1 | 5 µg/L          | ND                |
| Tris(2,3-dibromopropyl) phosphate (TRIS)           | 126-72-7   | 5 µg/L          | ND                |
| Tetrabromobisphenol A (TBBPA)                      | 79-94-7    | 5 µg/L          | ND                |
| Tris(2-chloroethyl) phosphate (TCEP)               | 115-96-8   | 5 µg/L          | ND                |
| Bis(2,3-dibromopropyl) phosphate (BIS)             | 5412-25-9  | 5 µg/L          | ND                |
| Hexabromocyclododecane (HBCDD)                     | 3194-55-6  | 5 µg/L          | ND                |
| 2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)        | 3296-90-0  | 5 µg/L          | ND                |
| Tris(1,3-dichloro-isopropyl) phosphate (TDCP)      | 13674-87-8 | 5 µg/L          | ND                |
| Short-chain chlorinated paraffins (SCCP) (C10-C13) | 85535-84-8 | 5 µg/L          | ND                |

Remark: ND = Not detected

9. Glycols

With reference to US EPA 8270 and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

| Chemical substances            | CAS no.  | Reporting limit | Wastewater (µg/L) |
|--------------------------------|----------|-----------------|-------------------|
| Bis(2-methoxyethyl)-ether      | 111-96-6 | 50 µg/L         | ND                |
| 2-ethoxyethanol                | 110-80-5 | 50 µg/L         | ND                |
| 2-ethoxyethyl acetate          | 111-15-9 | 50 µg/L         | ND                |
| Ethylene glycol dimethyl ether | 110-71-4 | 50 µg/L         | ND                |
| 2-methoxyethanol               | 109-86-4 | 50 µg/L         | ND                |

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|-----------------------------------|------------|---------|----|
| 2-methoxyethylacetate             | 110-49-6   | 50 µg/L | ND |
| 2-methoxypropylacetate            | 70657-70-4 | 50 µg/L | ND |
| Triethylene glycol dimethyl ether | 112-49-2   | 50 µg/L | ND |

Remark: ND = Not detected

### 10. Halogenated solvents

With reference to US EPA 8260B, and by Headspace Gas Chromatography Mass Spectrometric (HS-GC/MS) analysis.

| Chemical substances | CAS no.  | Reporting limit | Wastewater (µg/L) |
|---------------------|----------|-----------------|-------------------|
| 1,2-Dichloroethane  | 107-06-2 | 1 µg/L          | ND                |
| Methylene chloride  | 75-09-2  | 1 µg/L          | ND                |
| Tetrachloroethylene | 127-18-4 | 1 µg/L          | ND                |
| Trichloroethylene   | 79-01-6  | 1 µg/L          | ND                |

Remark: ND = Not detected

### 11. Organotin compounds

With reference to ISO 17353, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

| Chemical substances                      | CAS no.  | Reporting limit | Wastewater (µg/L) |
|------------------------------------------|----------|-----------------|-------------------|
| Mono-, di- and tri-butyltin derivatives  | Multiple | 0.01 µg/L       | ND                |
| Mono, di-, and tri-octyltin derivatives  | Multiple | 0.01 µg/L       | ND                |
| Mono, di-, and tri-methyltin derivatives | Multiple | 0.01 µg/L       | ND                |
| Mono, di-, and tri-phenyltin derivatives | Multiple | 0.01 µg/L       | ND                |

Remark: ND = Not detected

### 12. Perfluorinated & polyfluorinated chemicals (PFCs)

With reference to DIN 38407-42 (modified), and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis and Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

| Chemical substances | CAS no.                                | Reporting limit | Wastewater (µg/L) |
|---------------------|----------------------------------------|-----------------|-------------------|
| PFOA                | 335-67-1                               | 0.01 µg/L       | ND                |
| PFOS                | 1763-23-1                              | 0.01 µg/L       | ND                |
| PFBS                | 375-73-5;<br>29420-49-3;<br>29420-43-3 | 0.01 µg/L       | ND                |
| PFHxA               | 307-24-4                               | 0.01 µg/L       | ND                |

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|          |          |        |    |
|----------|----------|--------|----|
| 8:2 FTOH | 678-39-7 | 1 µg/L | ND |
| 6:2 FTOH | 647-42-7 | 1 µg/L | ND |

Remark: ND = Not detected

#### 13. Phthalates (Ortho-phthalates)

With reference to US EPA 8270D, ISO 18856 and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

| Chemical substances                                                             | CAS no.    | Reporting limit | Wastewater (µg/L) |
|---------------------------------------------------------------------------------|------------|-----------------|-------------------|
| Di(ethylhexyl) phthalate (DEHP)                                                 | 117-81-7   | 10 µg/L         | ND                |
| Butyl benzyl phthalate (BBP)                                                    | 85-68-7    | 10 µg/L         | ND                |
| Dibutyl phthalate (DBP)                                                         | 84-74-2    | 10 µg/L         | ND                |
| Diethyl phthalate (DEP)                                                         | 84-66-2    | 10 µg/L         | ND                |
| Di-n-octyl phthalate (DNOP)                                                     | 117-84-0   | 10 µg/L         | ND                |
| Di-isononyl phthalate (DINP)                                                    | 28553-12-0 | 10 µg/L         | ND                |
| Di-iso-decyl phthalate (DIDP)                                                   | 26761-40-0 | 10 µg/L         | ND                |
| Di-isobutyl phthalate (DIBP)                                                    | 84-69-5    | 10 µg/L         | ND                |
| Di-n-hexyl phthalate (DnHP)                                                     | 84-75-3    | 10 µg/L         | ND                |
| Bis(2-methoxyethyl) phthalate (DMEP)                                            | 117-82-8   | 10 µg/L         | ND                |
| Di-n-propyl phthalate (DPRP)                                                    | 131-16-8   | 10 µg/L         | ND                |
| Di-iso-octyl phthalate (DIOP)                                                   | 27554-26-3 | 10 µg/L         | ND                |
| Di-cyclohexyl phthalate (DCHP)                                                  | 84-61-7    | 10 µg/L         | ND                |
| Dinonyl phthalate (DNP)                                                         | 84-76-4    | 10 µg/L         | ND                |
| 1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4 | 10 µg/L         | ND                |
| 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)     | 71888-89-6 | 10 µg/L         | ND                |

Remark: ND = Not detected

#### 14. Polycyclic aromatic hydrocarbons (PAHs)

With reference to US EPA 8270, DIN 38407-39 and by Gas Chromatography - Mass Spectrometry (GC-MS) analysis.

| Chemical substances  | CAS no.  | Reporting limit | Wastewater (µg/L) |
|----------------------|----------|-----------------|-------------------|
| Benzo[a]pyrene (BaP) | 50-32-8  | 1 µg/L          | ND                |
| Anthracene           | 120-12-7 | 1 µg/L          | ND                |
| Pyrene               | 129-00-0 | 1 µg/L          | ND                |
| Benzo[ghi]perylene   | 191-24-2 | 1 µg/L          | ND                |

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|                        |          |        |    |
|------------------------|----------|--------|----|
| Benzo[e]pyrene         | 192-97-2 | 1 ug/L | ND |
| Indeno[1,2,3-cd]pyrene | 193-39-5 | 1 ug/L | ND |
| Benzo[j]fluoranthene   | 205-82-3 | 1 ug/L | ND |
| Benzo[b]fluoranthene   | 205-99-2 | 1 ug/L | ND |
| Fluoranthene           | 206-44-0 | 1 ug/L | ND |
| Benzo[k]fluoranthene   | 207-08-9 | 1 ug/L | ND |
| Acenaphthylene         | 208-96-8 | 1 ug/L | ND |
| Chrysene               | 218-01-9 | 1 ug/L | ND |
| Dibenz[a,h]anthracene  | 53-70-3  | 1 ug/L | ND |
| Benzo[a]anthracene     | 56-55-3  | 1 ug/L | ND |
| Acenaphthene           | 83-32-9  | 1 ug/L | ND |
| Phenanthrene           | 85-01-8  | 1 ug/L | ND |
| Fluorene               | 86-73-7  | 1 ug/L | ND |
| Naphthalene            | 91-20-3  | 1 ug/L | ND |

Remark: ND = Not detected

### 15. Volatile organic compounds (VOCs)

With reference to ISO 11423-1, and by Headspace Gas Chromatography Mass Spectrometric (HS-GC/MS) analysis.  
With reference to US EPA 8270D, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

| Chemical substances | CAS no.   | Reporting limit | Wastewater (µg/L) |
|---------------------|-----------|-----------------|-------------------|
| Benzene             | 71-43-2   | 1 ug/L          | ND                |
| Xylene              | 1330-20-7 | 1 ug/L          | ND                |
| o-cresol            | 95-48-7   | 1 ug/L          | ND                |
| p-cresol            | 106-44-5  | 1 ug/L          | ND                |
| m-cresol            | 108-39-4  | 1 ug/L          | ND                |

Remark: ND = Not detected

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### Sample / Wastewater (Treated)

#### 1. Conventional parameters

| Parameters       | Test method                | ZDHC Guideline Limits |             |              | Legal Requirement* | Reporting Limit | Results     | Unit      |
|------------------|----------------------------|-----------------------|-------------|--------------|--------------------|-----------------|-------------|-----------|
|                  |                            | Foundational          | Progressive | Aspirational |                    |                 |             |           |
| Temperature      | EPA 170.1                  | △15 or 35             | △10 or 30   | △5 or 25     | N/A                | N/A             | 24          | °C        |
| TSS              | SM 2540 D                  | 50                    | 15          | 5            | 400                | 5               | 31          | mg/L      |
| COD              | SM 5220 D                  | 150                   | 80          | 40           | 1500               | 16              | 556         | mg/L      |
| Total-N          | ISO 5663                   | 20                    | 10          | 5            | N/A                | 1               | ND          | mg/L      |
| pH               | EPA 150.1                  | 6-9                   | 6-9         | 6-9          | 6-9                | N/A             | 7.17        | -         |
| Colour 436 nm    | ISO 7887-B                 | 7                     | 5           | 2            | N/A                | N/A             | 0.6         | m-1       |
| Colour 525 nm    | ISO 7887-B                 | 5                     | 3           | 1            | N/A                | N/A             | 0.2         | m-1       |
| Colour 620 nm    | ISO 7887-B                 | 3                     | 2           | 1            | N/A                | N/A             | 0.3         | m-1       |
| BOD <sub>5</sub> | SM 5210 D                  | 30                    | 15          | 5            | 1000               | 2               | 240         | mg/L      |
| Ammonium-N       | SM 4500 NH <sub>3</sub> -N | 10                    | 1           | 0.5          | N/A                | 0.2             | 1           | mg/L      |
| Total-P          | ISO 11885                  | 3                     | 0.5         | 0.1          | 25                 | 0.04            | 0.96        | mg/L      |
| AOX              | ISO 9562                   | 5                     | 1           | 0.1          | N/A                | 0.06            | ND          | mg/L      |
| Oil and grease   | EPA 1664                   | 10                    | 2           | 0.5          | 50                 | 0.5             | 7           | mg/L      |
| Phenol           | SM 5530 C&D                | 0.5                   | 0.1         | 0.001        | N/A                | 0.001           | 0.007       | mg/L      |
| Coliform         | ISO 9308-1                 | 400                   | 100         | 25           | N/A                | 2               | 10000       | bac/100ml |
| Foam             | /                          | Not visible           | Not visible | Not visible  | N/A                | N/A             | Not Visible | -         |
| Cyanide          | SM 4500-CN <sup>-</sup>    | 0.2                   | 0.1         | 0.05         | N/A                | 0.02            | ND          | mg/L      |
| Sulfide          | SM 4500-S <sup>2-</sup> D  | 0.5                   | 0.05        | 0.01         | N/A                | 0.01            | 0.04        | mg/L      |
| Sulfite          | USEPA 377.1                | 2                     | 0.5         | 0.2          | N/A                | 0.2             | 65          | mg/L      |

Remark:

ND = Not detected

△ is the degree above ambient temperature of receiving water body.

\* Legal requirement based on Regulation/Standard information for discharged wastewater as well as the limitation value (or contractual limit value agreed by CETP) for the required parameters (mandatory).

@ Maximum holding time exceeded.

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#### 2. Heavy metals

With reference to ISO 11885, ISO 18412, ISO 12846, ISO 17852, US EPA 200.7, US EPA 200.8, US EPA 6010c, US EPA 6020a, US EPA 218.6 and by Inductively Coupled Argon Plasma-Mass Spectrometry (ICP-MS) analysis, or by Colourimetric UV/VIS or Colourimetric IC analysis.

| Chemical substances  | CAS no.    | ZDHC Guideline Limits (mg/L) |             |              | Legal Requirement* | Reporting Limit (mg/L) | Wastewater (mg/L) |
|----------------------|------------|------------------------------|-------------|--------------|--------------------|------------------------|-------------------|
|                      |            | Foundational                 | Progressive | Aspirational |                    |                        |                   |
| Antimony, Sb         | 7440-36-0  | 0.1                          | 0.05        | 0.01         | N/A                | 0.001                  | ND                |
| Chromium, Cr (total) | 7440-47-3  | 0.2                          | 0.1         | 0.05         | N/A                | 0.001                  | ND                |
| Cobalt, Co           | 7440-48-4  | 0.05                         | 0.02        | 0.01         | N/A                | 0.001                  | ND                |
| Copper, Cu           | 7440-50-8  | 1                            | 0.5         | 0.25         | N/A                | 0.001                  | ND                |
| Nickel, Ni           | 7440-02-0  | 0.2                          | 0.1         | 0.05         | N/A                | 0.001                  | 0.004             |
| Silver, Ag           | 7440-22-4  | 0.1                          | 0.05        | 0.005        | N/A                | 0.001                  | ND                |
| Zinc, Zn             | 7440-66-6  | 5                            | 1           | 0.5          | N/A                | 0.001                  | 0.032             |
| Arsenic, As          | 7440-38-2  | 0.05                         | 0.01        | 0.005        | N/A                | 0.001                  | ND                |
| Cadmium, Cd          | 7440-43-9  | 0.1                          | 0.05        | 0.01         | N/A                | 0.0001                 | ND                |
| Chromium(VI), Cr VI  | 18540-29-9 | 0.05                         | 0.005       | 0.001        | N/A                | 0.001                  | ND                |
| Lead, Pb             | 7439-92-1  | 0.1                          | 0.05        | 0.01         | N/A                | 0.001                  | ND                |
| Mercury, Hg          | 7439-97-6  | 0.01                         | 0.005       | 0.001        | N/A                | 0.00005                | ND                |

Remark: ND = Not detected

\* Regulation/Standard information for discharged wastewater as well as the limitation value (or contractual limit value agreed by CETP) for the required parameters (mandatory).

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3. Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)

With reference to ISO 18857-2/ASTM D7065, ISO 18254-1/2, and by Gas Chromatography-Mass Spectrometry (GC-MS) and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

| Chemical substances             | CAS no.                                                                | Reporting limit | Wastewater (µg/L) |
|---------------------------------|------------------------------------------------------------------------|-----------------|-------------------|
| Nonylphenol (NP), mixed isomers | 104-40-5;<br>11066-49-2;<br>25154-52-3;<br>84852-15-3                  | 5 µg/L          | ND                |
| Octylphenol (OP), mixed isomers | 140-66-9;<br>1806-26-4;<br>27193-28-8                                  | 5 µg/L          | ND                |
| Nonylphenol ethoxylates (NPEO)  | 9016-45-9;<br>26027-38-3;<br>37205-87-1;<br>68412-54-4;<br>127087-87-0 | 5 µg/L          | ND                |
| Octylphenol ethoxylates (OPEO)  | 9002-93-1;<br>9036-19-5;<br>68987-90-6                                 | 5 µg/L          | ND                |

Remark: ND = Not detected

4. Chlorobenzenes and Chlorotoluenes

With reference to US EPA 8260B, US EPA 8270D, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

| Chemical substances        | CAS no.  | Reporting limit | Wastewater (µg/L) |
|----------------------------|----------|-----------------|-------------------|
| Monochlorobenzene          | 108-90-7 | 0.2 µg/L        | ND                |
| 4-Chlorotoluene            | 106-43-4 | 0.2 µg/L        | ND                |
| 1,2-Dichlorobenzene        | 95-50-1  | 0.2 µg/L        | ND                |
| 1,3-Dichlorobenzene        | 541-73-1 | 0.2 µg/L        | ND                |
| 1,4-Dichlorobenzene        | 106-46-7 | 0.2 µg/L        | ND                |
| 1,2,4-Trichlorobenzene     | 120-82-1 | 0.2 µg/L        | ND                |
| 1,2,3-Trichlorobenzene     | 87-61-6  | 0.2 µg/L        | ND                |
| 1,3,5-Trichlorobenzene     | 108-70-3 | 0.2 µg/L        | ND                |
| 1,2,3,4-Tetrachlorobenzene | 634-66-2 | 0.2 µg/L        | ND                |
| 1,2,3,5-Tetrachlorobenzene | 634-90-2 | 0.2 µg/L        | ND                |
| 1,2,4,5-Tetrachlorobenzene | 95-94-3  | 0.2 µg/L        | ND                |
| Pentachlorobenzene         | 608-93-5 | 0.2 µg/L        | ND                |

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|                            |            |          |    |
|----------------------------|------------|----------|----|
| Hexachlorobenzene          | 118-74-1   | 0.2 µg/L | ND |
| 2-Chlorotoluene            | 95-49-8    | 0.2 µg/L | ND |
| 3-Chlorotoluene            | 108-41-8   | 0.2 µg/L | ND |
| 2,3-Dichlorotoluene        | 32768-54-0 | 0.2 µg/L | ND |
| 2,4-Dichlorotoluene        | 95-73-8    | 0.2 µg/L | ND |
| 2,5-Dichlorotoluene        | 19398-61-9 | 0.2 µg/L | ND |
| 2,6-Dichlorotoluene        | 118-69-4   | 0.2 µg/L | ND |
| 3,4-Dichlorotoluene        | 95-75-0    | 0.2 µg/L | ND |
| 3,5-Dichlorotoluene        | 25186-47-4 | 0.2 µg/L | ND |
| 2,3,4-Trichlorotoluene     | 7359-72-0  | 0.2 µg/L | ND |
| 2,3,6-Trichlorotoluene     | 2077-46-5  | 0.2 µg/L | ND |
| 2,4,6-Trichlorotoluene     | 23749-65-7 | 0.2 µg/L | ND |
| 2,4,5-Trichlorotoluene     | 6639-30-1  | 0.2 µg/L | ND |
| 3,4,5-Trichlorotoluene     | 21472-86-6 | 0.2 µg/L | ND |
| 2,3,4,5-Tetrachlorotoluene | 76057-12-0 | 0.2 µg/L | ND |
| 2,3,5,6-Tetrachlorotoluene | 29733-70-8 | 0.2 µg/L | ND |
| 2,3,4,6-Tetrachlorotoluene | 875-40-1   | 0.2 µg/L | ND |
| Pentachlorotoluene         | 877-11-2   | 0.2 µg/L | ND |

Remark: ND = Not detected

### 5. Chlorophenols

With reference to US EPA 8270D and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

| Chemical substances       | CAS no.    | Reporting limit | Wastewater (µg/L) |
|---------------------------|------------|-----------------|-------------------|
| 2-Chlorophenol            | 95-57-8    | 0.5 µg/L        | ND                |
| 2,4-Dichlorophenol        | 120-83-2   | 0.5 µg/L        | ND                |
| 2,5-Dichlorophenol        | 583-78-8   | 0.5 µg/L        | ND                |
| 2,6-Dichlorophenol        | 87-65-0    | 0.5 µg/L        | ND                |
| Pentachlorophenol (PCP)   | 87-86-5    | 0.5 µg/L        | ND                |
| 2,3,4,6-Tetrachlorophenol | 58-90-2    | 0.5 µg/L        | ND                |
| 2,4,5-Trichlorophenol     | 95-95-4    | 0.5 µg/L        | ND                |
| 2,4,6-Trichlorophenol     | 88-06-2    | 0.5 µg/L        | ND                |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3  | 0.5 µg/L        | ND                |
| 2,3,5,6-Tetrachlorophenol | 935-95-5   | 0.5 µg/L        | ND                |
| 2,3,6-Trichlorophenol     | 933-75-5   | 0.5 µg/L        | ND                |
| 2,3,4-Trichlorophenol     | 15950-66-0 | 0.5 µg/L        | ND                |
| 2,3,5-Trichlorophenol     | 933-78-8   | 0.5 µg/L        | ND                |
| 3,4,5-Trichlorophenol     | 609-19-8   | 0.5 µg/L        | ND                |
| 3,5- Dichlorophenol       | 591-35-5   | 0.5 µg/L        | ND                |
| 2,3-Dichlorophenol        | 576-24-9   | 0.5 µg/L        | ND                |



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|                    |          |          |    |
|--------------------|----------|----------|----|
| 3,4-Dichlorophenol | 95-77-2  | 0.5 µg/L | ND |
| 3-chlorophenol     | 108-43-0 | 0.5 µg/L | ND |
| 4-chlorophenol     | 106-48-9 | 0.5 µg/L | ND |

Remark: ND = Not detected

### 6. Azo dyes (Forming restricted amines)

With reference to EN 14362-1/3, and by Gas Chromatographic - Mass Spectrometric (GC-MS) or and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

| Chemical substances                 | CAS no.  | Reporting limit | Wastewater (µg/L) |
|-------------------------------------|----------|-----------------|-------------------|
| 2,4,5-Trimethylaniline              | 137-17-7 | 0.1 µg/L        | ND                |
| 4-methoxy-m-phenylenediamine        | 615-05-4 | 0.1 µg/L        | ND                |
| 4-methyl-m-phenylenediamine         | 95-80-7  | 0.1 µg/L        | ND                |
| 2,4-Xylidine                        | 95-68-1  | 0.1 µg/L        | ND                |
| 2,6-Xylidine                        | 87-62-7  | 0.1 µg/L        | ND                |
| 2-Naphthylamine                     | 91-59-8  | 0.1 µg/L        | ND                |
| 3,3'-Dichlorobenzidine              | 91-94-1  | 0.1 µg/L        | ND                |
| 3,3'-Dimethoxybenzidine             | 119-90-4 | 0.1 µg/L        | ND                |
| 4,4'-methylenedi-o-toluidine        | 838-88-0 | 0.1 µg/L        | ND                |
| 3,3'-Dimethylbenzidine              | 119-93-7 | 0.1 µg/L        | ND                |
| 4,4'-methylenedianiline             | 101-77-9 | 0.1 µg/L        | ND                |
| 4,4'-Methylene-bis(2-chloroaniline) | 101-14-4 | 0.1 µg/L        | ND                |
| 4,4'-Oxydianiline                   | 101-80-4 | 0.1 µg/L        | ND                |
| 4,4'-Thiodianiline                  | 139-65-1 | 0.1 µg/L        | ND                |
| 4-Aminodiphenyl                     | 92-67-1  | 0.1 µg/L        | ND                |
| 4-Chloroaniline                     | 106-47-8 | 0.1 µg/L        | ND                |
| 4-Chloro-o-toluidine                | 95-69-2  | 0.1 µg/L        | ND                |
| 5-Nitro-o-toluidine                 | 99-55-8  | 0.1 µg/L        | ND                |
| 4-Aminoazobenzene                   | 60-09-3  | 0.1 µg/L        | ND                |
| Benzidine                           | 92-87-5  | 0.1 µg/L        | ND                |
| o-Aminoazotoluene                   | 97-56-3  | 0.1 µg/L        | ND                |
| o-Anisidine                         | 90-04-0  | 0.1 µg/L        | ND                |
| o-Toluidine                         | 95-53-4  | 0.1 µg/L        | ND                |
| 6-methoxy-m-toluidine               | 120-71-8 | 0.1 µg/L        | ND                |

Remark: ND = Not detected

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#### 7. Carcinogenic dyes

By Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

| Chemical substances                                  | CAS no.    | Reporting limit | Wastewater (µg/L) |
|------------------------------------------------------|------------|-----------------|-------------------|
| C.I. Direct Black 38                                 | 1937-37-7  | 500 µg/L        | ND                |
| C.I. Direct Blue 6                                   | 2602-46-2  | 500 µg/L        | ND                |
| C.I. Acid Red 26                                     | 3761-53-3  | 500 µg/L        | ND                |
| C.I. Basic Red 9                                     | 569-61-9   | 500 µg/L        | ND                |
| C.I. Direct Red 28                                   | 573-58-0   | 500 µg/L        | ND                |
| C.I. Basic Violet 14                                 | 632-99-5   | 500 µg/L        | ND                |
| C.I. Disperse Blue 1                                 | 2475-45-8  | 500 µg/L        | ND                |
| C.I. Disperse Blue 3                                 | 2475-46-9  | 500 µg/L        | ND                |
| C.I. Basic Blue 26<br>(with Michler's Ketone > 0.1%) | 2580-56-5  | 500 µg/L        | ND                |
| C.I. Basic Green 4<br>(malachite green chloride)     | 569-64-2   | 500 µg/L        | ND                |
| C.I. Basic Green 4<br>(malachite green oxalate)      | 2437-29-8  | 500 µg/L        | ND                |
| C.I. Basic Green 4 (malachite green)                 | 10309-95-2 | 500 µg/L        | ND                |
| Disperse Orange 11                                   | 82-28-0    | 500 µg/L        | ND                |

Remark: ND = Not detected

#### 8. Disperse dyes

By Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

| Chemical substances      | CAS no.    | Reporting limit | Wastewater (µg/L) |
|--------------------------|------------|-----------------|-------------------|
| Disperse Yellow 1        | 119-15-3   | 50 µg/L         | ND                |
| Disperse Blue 102        | 12222-97-8 | 50 µg/L         | ND                |
| Disperse Blue 106        | 12223-01-7 | 50 µg/L         | ND                |
| Disperse Yellow 39       | 12236-29-2 | 50 µg/L         | ND                |
| Disperse Orange 37/59/76 | 13301-61-6 | 50 µg/L         | ND                |
| Disperse Brown 1         | 23355-64-8 | 50 µg/L         | ND                |
| Disperse Orange 1        | 2581-69-3  | 50 µg/L         | ND                |
| Disperse Yellow 3        | 2832-40-8  | 50 µg/L         | ND                |
| Disperse Red 11          | 2872-48-2  | 50 µg/L         | ND                |
| Disperse Red 1           | 2872-52-8  | 50 µg/L         | ND                |
| Disperse Red 17          | 3179-89-3  | 50 µg/L         | ND                |
| Disperse Blue 7          | 3179-90-6  | 50 µg/L         | ND                |

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|                    |                          |         |    |
|--------------------|--------------------------|---------|----|
| Disperse Blue 26   | 3860-63-7                | 50 µg/L | ND |
| Disperse Yellow 49 | 54824-37-2               | 50 µg/L | ND |
| Disperse Blue 35   | 12222-75-2<br>56524-77-7 | 50 µg/L | ND |
| Disperse Blue 124  | 61951-51-7               | 50 µg/L | ND |
| Disperse Yellow 9  | 6373-73-5                | 50 µg/L | ND |
| Disperse Orange 3  | 730-40-5                 | 50 µg/L | ND |

Remark: ND = Not detected

#### 9. Flame retardants

With reference to US EPA 8270, ISO 22032, US EPA 527, EPA 8321B, and by Gas Chromatography - Mass Spectrometry (GC-MS) analysis and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

| Chemical substances                                | CAS no.    | Reporting limit | Wastewater (µg/L) |
|----------------------------------------------------|------------|-----------------|-------------------|
| Decabromodiphenyl ether (DecaBDE)                  | 1163-19-5  | 5 µg/L          | ND                |
| Pentabromodiphenyl ether (PentaBDE)                | 32534-81-9 | 5 µg/L          | ND                |
| Octabromodiphenyl ether (OctaBDE)                  | 32536-52-0 | 5 µg/L          | ND                |
| Tris(1-aziridinyl)phosphine oxide (TEPA)           | 545-55-1   | 5 µg/L          | ND                |
| Polybromobiphenyls (PBBs)                          | 59536-65-1 | 5 µg/L          | ND                |
| Tris(2,3-dibromopropyl) phosphate (TRIS)           | 126-72-7   | 5 µg/L          | ND                |
| Tetrabromobisphenol A (TBBPA)                      | 79-94-7    | 5 µg/L          | ND                |
| Tris(2-chloroethyl) phosphate (TCEP)               | 115-96-8   | 5 µg/L          | ND                |
| Bis(2,3-dibromopropyl) phosphate (BIS)             | 5412-25-9  | 5 µg/L          | ND                |
| Hexabromocyclododecane (HBCDD)                     | 3194-55-6  | 5 µg/L          | ND                |
| 2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)        | 3296-90-0  | 5 µg/L          | ND                |
| Tris(1,3-dichloro-isopropyl) phosphate (TDCP)      | 13674-87-8 | 5 µg/L          | ND                |
| Short-chain chlorinated paraffins (SCCP) (C10-C13) | 85535-84-8 | 5 µg/L          | ND                |

Remark: ND = Not detected

#### 10. Glycols

With reference to US EPA 8270 and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

| Chemical substances            | CAS no.  | Reporting limit | Wastewater (µg/L) |
|--------------------------------|----------|-----------------|-------------------|
| Bis(2-methoxyethyl)-ether      | 111-96-6 | 50 µg/L         | ND                |
| 2-ethoxyethanol                | 110-80-5 | 50 µg/L         | ND                |
| 2-ethoxyethyl acetate          | 111-15-9 | 50 µg/L         | ND                |
| Ethylene glycol dimethyl ether | 110-71-4 | 50 µg/L         | ND                |
| 2-methoxyethanol               | 109-86-4 | 50 µg/L         | ND                |

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| 2-methoxyethylacetate             | 110-49-6   | 50 µg/L | ND |
| 2-methoxypropylacetate            | 70657-70-4 | 50 µg/L | ND |
| Triethylene glycol dimethyl ether | 112-49-2   | 50 µg/L | ND |

Remark: ND = Not detected

### 11. Halogenated solvents

With reference to US EPA 8260B, and by Headspace Gas Chromatography Mass Spectrometric (HS-GC/MS) analysis.

| Chemical substances | CAS no.  | Reporting limit | Wastewater (µg/L) |
|---------------------|----------|-----------------|-------------------|
| 1,2-Dichloroethane  | 107-06-2 | 1 µg/L          | ND                |
| Methylene chloride  | 75-09-2  | 1 µg/L          | ND                |
| Tetrachloroethylene | 127-18-4 | 1 µg/L          | ND                |
| Trichloroethylene   | 79-01-6  | 1 µg/L          | ND                |

Remark: ND = Not detected

### 12. Organotin compounds

With reference to ISO 17353, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

| Chemical substances                      | CAS no.  | Reporting limit | Wastewater (µg/L) |
|------------------------------------------|----------|-----------------|-------------------|
| Mono-, di- and tri-butyltin derivatives  | Multiple | 0.01 µg/L       | ND                |
| Mono, di-, and tri-octyltin derivatives  | Multiple | 0.01 µg/L       | ND                |
| Mono, di-, and tri-methyltin derivatives | Multiple | 0.01 µg/L       | ND                |
| Mono, di-, and tri-phenyltin derivatives | Multiple | 0.01 µg/L       | ND                |

Remark: ND = Not detected

### 13. Perfluorinated & polyfluorinated chemicals (PFCs)

With reference to DIN 38407-42 (modified), and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis and Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

| Chemical substances | CAS no.                                | Reporting limit | Wastewater (µg/L) |
|---------------------|----------------------------------------|-----------------|-------------------|
| PFOA                | 335-67-1                               | 0.01 µg/L       | ND                |
| PFOS                | 1763-23-1                              | 0.01 µg/L       | ND                |
| PFBS                | 375-73-5;<br>29420-49-3;<br>29420-43-3 | 0.01 µg/L       | ND                |
| PFHxA               | 307-24-4                               | 0.01 µg/L       | ND                |

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| 8:2 FTOH | 678-39-7 | 1 µg/L | ND |
| 6:2 FTOH | 647-42-7 | 1 µg/L | ND |

Remark: ND = Not detected

#### 14. Phthalates (Ortho-phthalates)

With reference to US EPA 8270D, ISO 18856 and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

| Chemical substances                                                             | CAS no.    | Reporting limit | Wastewater (µg/L) |
|---------------------------------------------------------------------------------|------------|-----------------|-------------------|
| Di(ethylhexyl) phthalate (DEHP)                                                 | 117-81-7   | 10 µg/L         | ND                |
| Butyl benzyl phthalate (BBP)                                                    | 85-68-7    | 10 µg/L         | ND                |
| Dibutyl phthalate (DBP)                                                         | 84-74-2    | 10 µg/L         | ND                |
| Diethyl phthalate (DEP)                                                         | 84-66-2    | 10 µg/L         | ND                |
| Di-n-octyl phthalate (DNOP)                                                     | 117-84-0   | 10 µg/L         | ND                |
| Di-isononyl phthalate (DINP)                                                    | 28553-12-0 | 10 µg/L         | ND                |
| Di-iso-decyl phthalate (DIDP)                                                   | 26761-40-0 | 10 µg/L         | ND                |
| Di-isobutyl phthalate (DIBP)                                                    | 84-69-5    | 10 µg/L         | ND                |
| Di-n-hexyl phthalate (DnHP)                                                     | 84-75-3    | 10 µg/L         | ND                |
| Bis(2-methoxyethyl) phthalate (DMEP)                                            | 117-82-8   | 10 µg/L         | ND                |
| Di-n-propyl phthalate (DPRP)                                                    | 131-16-8   | 10 µg/L         | ND                |
| Di-iso-octyl phthalate (DIOP)                                                   | 27554-26-3 | 10 µg/L         | ND                |
| Di-cyclohexyl phthalate (DCHP)                                                  | 84-61-7    | 10 µg/L         | ND                |
| Dinonyl phthalate (DNP)                                                         | 84-76-4    | 10 µg/L         | ND                |
| 1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4 | 10 µg/L         | ND                |
| 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)     | 71888-89-6 | 10 µg/L         | ND                |

Remark: ND = Not detected

#### 15. Polycyclic aromatic hydrocarbons (PAHs)

With reference to US EPA 8270, DIN 38407-39 and by Gas Chromatography - Mass Spectrometry (GC-MS) analysis.

| Chemical substances  | CAS no.  | Reporting limit | Wastewater (µg/L) |
|----------------------|----------|-----------------|-------------------|
| Benzo[a]pyrene (BaP) | 50-32-8  | 1 µg/L          | ND                |
| Anthracene           | 120-12-7 | 1 µg/L          | ND                |
| Pyrene               | 129-00-0 | 1 µg/L          | ND                |
| Benzo[ghi]perylene   | 191-24-2 | 1 µg/L          | ND                |

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|------------------------|----------|--------|----|
| Benzo[e]pyrene         | 192-97-2 | 1 ug/L | ND |
| Indeno[1,2,3-cd]pyrene | 193-39-5 | 1 ug/L | ND |
| Benzo[j]fluoranthene   | 205-82-3 | 1 ug/L | ND |
| Benzo[b]fluoranthene   | 205-99-2 | 1 ug/L | ND |
| Fluoranthene           | 206-44-0 | 1 ug/L | ND |
| Benzo[k]fluoranthene   | 207-08-9 | 1 ug/L | ND |
| Acenaphthylene         | 208-96-8 | 1 ug/L | ND |
| Chrysene               | 218-01-9 | 1 ug/L | ND |
| Dibenz[a,h]anthracene  | 53-70-3  | 1 ug/L | ND |
| Benzo[a]anthracene     | 56-55-3  | 1 ug/L | ND |
| Acenaphthene           | 83-32-9  | 1 ug/L | ND |
| Phenanthrene           | 85-01-8  | 1 ug/L | ND |
| Fluorene               | 86-73-7  | 1 ug/L | ND |
| Naphthalene            | 91-20-3  | 1 ug/L | ND |

Remark: ND = Not detected

### 16. Volatile organic compounds (VOCs)

With reference to ISO 11423-1, and by Headspace Gas Chromatography Mass Spectrometric (HS-GC/MS) analysis.  
With reference to US EPA 8270D, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

| Chemical substances | CAS no.   | Reporting limit | Wastewater (µg/L) |
|---------------------|-----------|-----------------|-------------------|
| Benzene             | 71-43-2   | 1 ug/L          | ND                |
| Xylene              | 1330-20-7 | 1 ug/L          | ND                |
| o-cresol            | 95-48-7   | 1 ug/L          | ND                |
| p-cresol            | 106-44-5  | 1 ug/L          | ND                |
| m-cresol            | 108-39-4  | 1 ug/L          | ND                |

Remark: ND = Not detected

Testing period: From 09/04/2021 to 28/04/2021



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Photo of sampling points:

- Sample / Wastewater (Raw) Sampling Point:



Figure 1



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- Sample / Wastewater (Treated) Sampling Point:



Figure 2



**SOFTLINES WASTEWATER TESTING**  
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Photo of samples:

- Sample / Wastewater (Raw) Samples:



Figure 3

- Sample / Wastewater (Treated) Samples:

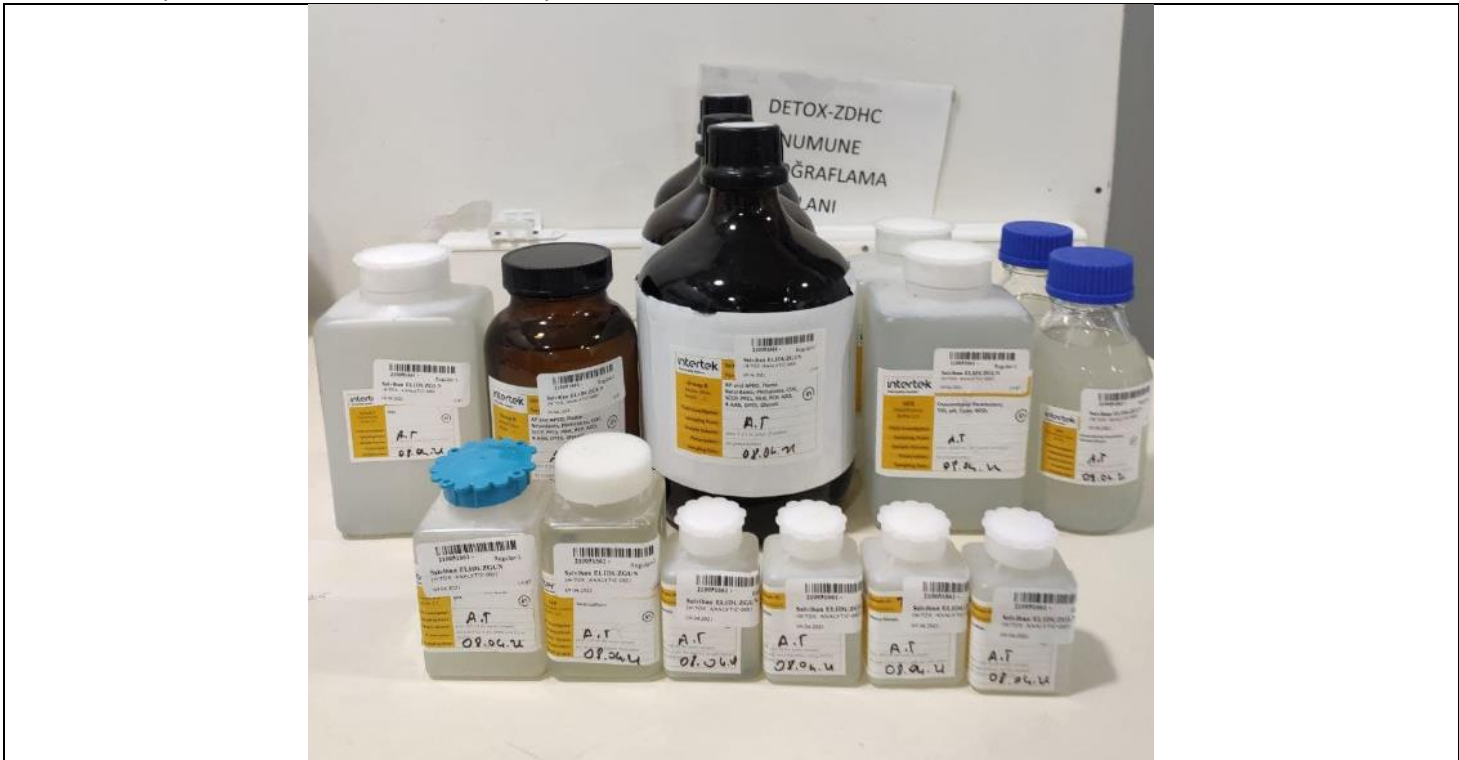


Figure 4



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End of report

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