# LAB REPORT

| | |
|---|---|
| **Report Number** | **(6625)245-0439** |
| **Date of sampling** | 02/09/2025 |
| **Reporting Date** | 08/09/2025 |

| | | | |
|---|---|---|---|
| **Audit ID** | 30590 | **Audit firm** | Bureau Veritas – SHANGHAI |
| **Company name** | Zhejiang Yingfeng Technology Co., Ltd. | | |
| **Contact person** | Yifeng Wang | | |
| **Type of tax - tax ID no** | 913306216784286764 | | |
| **Address** | No. 4888 Xingbin Road, Keqiao District, Shaoxing City, Zhejiang Province, China | | |
| **Region state province** | Zhejiang Province | | |
| **Town city / village** | Shaoxing City | | |
| **Zip/Post code** | 312000 | | |

| **Type of wastewater discharge** | |
|---|---|
| Type of waste discharge | Indirect Discharge with Pre-treatment |
| Description of the discharge | Shaoxing Keqiao Drainage Co., Ltd. |
| Ambient temperature of receiving water body (direct discharge only) | Not Applicable |

| **Type of treatment** | | | |
|---|---|---|---|
| PRELIMINARY | PRIMARY | SECONDARY / BIOLOGICAL | TERTIARY |
| ☑ Screening/Sieving/Grit remover | ☑ Coagulation/Flocculation | ☑ Activated sludge process/Aerobic reactor | ☐ Absorption with activated carbon |
| ☑ Homogenization tank | ☑ Dissolved air flotation (DAF) | ☑ Biological Biofilm reactor (MBBR, SAF, RBC…) | ☐ High rate filtration |
| ☑ pH correction | ☑ Sedimentation tanks or Settler/Clarifier | ☐ Sequencing batch reactor (SBR) | ☐ Techniques (ozonation, Fenton reaction, photo catalytic degradation…) |
| ☐ Other | ☐ Other | ☐ Other | ☐ Other |

Bureau Veritas Consumer Products Services, Inc. (Shanghai)
No. 168, GuangHua Road, Zhuanqiao Town, Minhang, Shanghai, China.
Post Code:201108
Tel: 86-21-24081888; Fax: 86-21-64890042

# LAB REPORT

| Sampler accreditation certification number (ZDHC): | C74D106818233 |
|---|---|

| Sample description | | | |
|---|---|---|---|
| | **Simple** | **Composite** | **Comments** |
| (1) Wastewater before treatment | YES, brown liquid, grab simple at 13:00 | NO | / |
| (2) Wastewater after treatment | YES, light yellow liquid, grab simple at 12:35 | NO | / |
| (3) Sludge | NO | YES, black solid, composite sample at 13:40 | / |

| Local Legal Data | |
|---|---|
| Local Legal Standard name [a] | Emission Standards for Water Pollutants in Textile Dyeing and Finishing Industry. GB 4287-2012. |
| Parameters (ZDHC WWG V2.2, Table 2 & 3) exceeded local regulation: | Not Applicable |
| Discharge permit provided | YES |
| Discharge flow data | >15m³/Day |

| Internal description – Final Test Report | |
|---|---|
| Internal codification number | (6625)245-0439 |
| Reference sample number | Sample 1 For Before treatment; Sample 2 For After treatment; Sample 3 For Sludge |
| Received on | 03/09/2025 |
| Analysis carried out from | 02/09/2025 to 08/09/2025 |
| Arrival Temperature at Lab | 6.55 ºC |
| Comments | Samples received within maximum holding time. |
| Reporting date | 08/09/2025 |
| Date and time of the beginning of sampling | 02/09/2025, 10:40 |
| Date and time of the end of sampling | 02/09/2025, 13:50 |
| Sample holding time exceeded | NO |

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Report Number **(6625)245-0439**

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

| | |
|---|---|
| General enquiry and invoicing | Mr. Henry Chen<br>Henry.Chen@bureauveritas.com, (021) 24081953 |
| Technical enquiry-Chemical | Mr. Steven Han<br>Steven-Z.han@bureauveritas.com, (021) 24081838 |

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

BUREAU VERITAS
CONSUMER PRODUCTS SERVICES DIVISION (SHANGHAI)
必维申美商品检测（上海）有限公司
Laboratory Test Location实验室检测地址:
No.368, Guangzhong Road, Zhuanqiao Town, Minhang, Shanghai.
上海市闵行区光中路368号
No.168, Guanghua Road, Zhuanqiao Town, Minhang, Shanghai.
上海市闵行区光华路168号

Reviewed by:

Amy Feng

Approved by:

Aten Wu
Technical Support

| Summary of test results | | | | |
|---|---|---|---|---|
| **Test items** | **Sample 1 (Before treatment)** | **Sample 2 (After treatment)** | **Sample 3 (Sludge)** | **Sample 4 (Leachate)** |
| Alkylphenols (APs) & Alkylphenol ethoxylates (APEOs) | **ND** | **NA** | **ND** | **NA** |
| Anti-Microbials & Biocides | **ND** | **NA** | **NA** | **NA** |
| Chlorinated Paraffins | **ND** | **NA** | **NA** | **NA** |
| Chlorobenzenes & Chlorotoluenes | **ND** | **NA** | **ND** | **NA** |
| Chlorophenols | **ND** | **NA** | **NA** | **NA** |
| N,N-di-methylformamide (DMFa) | **ND** | **NA** | **NA** | **NA** |
| Dyes – Carcinogenic or Equivalent Concern | **ND** | **NA** | **NA** | **NA** |
| Dyes – Disperse (Allergenic) | **ND** | **NA** | **NA** | **NA** |
| Dyes – Navy Blue Colourant | **NA** | **NA** | **NA** | **NA** |
| Flame retardants | **ND** | **NA** | **NA** | **NA** |
| Glycols | **ND** | **NA** | **NA** | **NA** |
| Halogenated Solvents | **ND** | **NA** | **NA** | **NA** |
| Organotin compounds | **ND** | **NA** | **NA** | **NA** |
| Other / Miscellaneous Chemicals | **ND** | **NA** | **NA** | **NA** |
| Perfluorinated and Polyfluorinated Chemicals (PFCs) | **ND** | **NA** | **NA** | **NA** |
| Phthalates | **ND** | **NA** | **NA** | **NA** |
| Polycyclic Aromatic Hydrocarbons (PAHs) | **ND** | **NA** | **ND** | **NA** |
| Restricted Aromatic Amines (Cleavable from Azo-colourants) | **ND** | **NA** | **NA** | **NA** |
| UV Absorbers | **ND** | **NA** | **NA** | **NA** |
| Volatile Organic Compounds (VOCs) | **ND** | **NA** | **NA** | **NA** |
| Heavy metals | **NA** | **Fulfill aspirational limit** | **NA** | **NA** |
| Global effluent parameters ZDHC | **NA** | **NA** | **See test result** | **NA** |

**Remark (Indicated in each parameter)**

| | | | | | |
|---|---|---|---|---|---|
| ND | = | Not detected (below reporting limit) | NA | = | Not applicable |
| D | = | Detected (equal or above reporting limit) | - | = | Did not perform |
| * | = | See remark | (f) | = | Parameter tested in field |
| @ | = | Maximum holding time exceeded,<br>Red flag in the ZDHC Gateway – Wastewater Module.<br>Probable error in results due to the holding time. | (T) | = | Handling temperature exceeded |
| # | = | Non accredited parameter | | | |
| (S) | = | Analysis was subcontracted for testing | | | |
| [a] | = | The local legal standard name and legal standard number is referenced to discharge permit (or contractual agree by CETP) that provided by company. | | | |

## Test results

**1. Alkylphenols (APs) & Alkylphenol Ethoxylates (APEOs)**

NP/OP: ASTM D7065-17; OPEO/NPEO (n>2): ASTM D7742-17, LC-MS

| Alkylphenols (APs) & Alkylphenol ethoxylates (APEOs) | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 1 (Before treatment) | Unit |
|---|---|---|---|---|---|
| Nonylphenolethoxylates (NPEOs) | Multiple including 9016-45-9/ 26027-38-3/ 37205-87-1/ 68412-54-4/ 127087-87-0 | 5 | 5 | ND | µg/L |
| Nonylphenol (NP) | Multiple including 104-40-5/ 11066-49-2/ 25154-52-3/ 84852-15-3 | 5 | 5 | ND | µg/L |
| Octylphenolethoxylates (OPEOs) | Multiple including 9002-93-1/ 9036-19-5/ 68987-90-6 | 5 | 5 | ND | µg/L |
| Octylphenol (OP) | Multiple including 140-66-9/ 1806-26-4/ 27193-28-8 | 5 | 5 | ND | µg/L |

**2. Anti-Microbials & Biocides**

USEPA3510C:1996; USEPA 8270E:2018, GC-MS; USEPA 8321B:2007, LC-MS

| Anti-Microbials & Biocides | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 1 (Before treatment) | Unit |
|---|---|---|---|---|---|
| o-Phenylphenol (+salts) | 90-43-7 | 100 | Sample and report only | ND | µg/L |
| Triclosan | 3380-34-5 | 100 | 100 | ND | µg/L |
| Permethrin | Multiple including 52645-53-1 | 500 | 500 | ND | µg/L |

**3. Chlorinated Paraffins**

USEPA 3510C:1996; ISO 18219-2:2021, GC-MS

| Chlorinated Paraffins | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 1 (Before treatment) | Unit |
|---|---|---|---|---|---|
| Medium-chain chlorinated paraffins (MCCPs) (C14-C17) | 85535-85-9 | 500 | 500 | ND | µg/L |
| Short-chain chlorinated paraffins (SCCPs) (C10'-C13) | 85535-84-8 | 25 | 25 | ND | µg/L |

**4. Chlorobenzenes & Chlorotoluenes**

USEPA3510C:1996; USEPA 8270E:2018, GC-MS

| Chlorobenzenes & Chlorotoluenes | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 1 (Before treatment) | Unit |
|---|---|---|---|---|---|
| 1,2-dichlorobenzene | 95-50-1 | 0.2 | 0.2 | ND | µg/L |
| Other isomers of mono-, di-, tri-, tetra-, penta-, and hexa- chlorobenzene and mono-, di-, tri-, tetra-, and penta-chlorotoluene | Multiple including 108-90-7/ 541-73-1/ 106-46-7/ 87-61-6/ 120-82-1/ 108-70-3/ 634-66-2/ 634-90-2/ 95-94-3/ 608-93-5/ 118-74-1/ 95-49-8/ 108-41-8/ 106-43-4/ 32768-54-0/ 95-73-8/ 19398-61-9/ 118-69-4/ 95-75-0/ 25186-47-4/ 7359-72-0/ 2077-46-5/ 6639-30-1/ 23749-65-7/ 21472-86-6/ 1006-32-2/ 875-40-1/ 1006-31-1/ 877-11-2 | 0.2 | 0.2 | ND | µg/L |

**5. Chlorophenols**

USEPA3510C:1996; USEPA 8270E:2018, GC-MS

| Chlorophenols | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 1 (Before treatment) | Unit |
|---|---|---|---|---|---|
| 2-Chlorophenol | 95-57-8 | 0.5 | 0.5 | ND | µg/L |
| 2,3-Dichlorophenol | 576-24-9 | 0.5 | 0.5 | ND | µg/L |
| 2,3,4-Trichorophenol | 15950-66-0 | 0.5 | 0.5 | ND | µg/L |
| 2,3,5-Trichlorophenol | 933-78-8 | 0.5 | 0.5 | ND | µg/L |
| 2,3,6-Trichlorophenol | 933-75-5 | 0.5 | 0.5 | ND | µg/L |
| 2,4-dichlorophenol | 120-83-2 | 0.5 | 0.5 | ND | µg/L |
| 2,4,5-Trichlorophenol | 95-95-4 | 0.5 | 0.5 | ND | µg/L |
| 2,4,6-Trichlorophenol | 88-06-2 | 0.5 | 0.5 | ND | µg/L |
| 2,5-Dichlorophenol | 583-78-8 | 0.5 | 0.5 | ND | µg/L |
| 2,6-Dichlorophenol | 87-65-0 | 0.5 | 0.5 | ND | µg/L |
| 3-Chlorophenol | 108-43-0 | 0.5 | 0.5 | ND | µg/L |
| 3,4-Dichlorophenol | 95-77-2 | 0.5 | 0.5 | ND | µg/L |
| 3,4,5-Trichlorophenol | 609-19-8 | 0.5 | 0.5 | ND | µg/L |
| 3,5-Dichlorophenol | 591-35-5 | 0.5 | 0.5 | ND | µg/L |
| 4-Chlorophenol | 106-48-9 | 0.5 | 0.5 | ND | µg/L |
| Pentachlorophenol (PCP) | 87-86-5 | 0.5 | 0.5 | ND | µg/L |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | 0.5 | 0.5 | ND | µg/L |
| 2,3,4,6-Tetrachlorophenol | 58-90-2 | 0.5 | 0.5 | ND | µg/L |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | 0.5 | 0.5 | ND | µg/L |

**6. N,N-di-methylformamide (DMFa)**

USEPA3510C:1996; USEPA 8270E:2018, GC-MS

| DMFa | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 1 (Before treatment) | Unit |
|---|---|---|---|---|---|
| Dimethyl formamide; N,N-dimethylformamide (DMFa) | 68-12-2 | 1000 | Sample and report | ND | µg/L |

**7. Dyes – Carcinogenic or Equivalent Concern**

USEPA 8321B:2007, LC-MS

| Carcinogenic dyes | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 1 (Before treatment) | Unit |
|---|---|---|---|---|---|
| Basic violet 3 with >0.1% of Michler's Ketone | 548-62-9 | 500 | 500 | ND | µg/L |
| C.I. Acid Red 26 | 3761-53-3 | 500 | 500 | ND | µg/L |
| C.I. Acid Violet 49 | 1694-09-3 | 500 | 500 | ND | µg/L |
| C.I. Basic Blue 26 (with Michler's Ketone > 0.1%) | 2580-56-5 | 500 | 500 | ND | µg/L |
| C.I. Basic Green 4 (malachite green chloride) | 569-64-2 | 500 | 500 | ND | µg/L |
| C.I. Basic Green 4 (malachite green oxalate) | 2437-29-8 | 500 | 500 | ND | µg/L |
| C.I. Basic Green 4 (malachite green) | 10309-95-2 | 500 | 500 | ND | µg/L |
| C.I. Basic Red 9 | 569-61-9 | 500 | 500 | ND | µg/L |
| C.I. Basic Violet 14 | 632-99-5 | 500 | 500 | ND | µg/L |
| C.I. Direct Black 38 | 1937-37-7 | 500 | 500 | ND | µg/L |
| C.I. Direct Blue 6 | 2602-46-2 | 500 | 500 | ND | µg/L |
| C.I. Direct Red 28 | 573-58-0 | 500 | 500 | ND | µg/L |
| C.I. Disperse Blue 1 | 2475-45-8 | 500 | 500 | ND | µg/L |
| C.I. Disperse Blue 3 | 2475-46-9 | 500 | 500 | ND | µg/L |
| C.I. Disperse Orange 11 | 82-28-0 | 500 | 500 | ND | µg/L |

**8. Dyes – Disperse (Allergenic)**

USEPA 8321B:2007, LC-MS

| Disperse dyes | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 1 (Before treatment) | Unit |
|---|---|---|---|---|---|
| Disperse Blue 102 | 12222-97-8 | 50 | NA | ND | µg/L |
| Disperse Blue 106 | 12223-01-7 | 50 | NA | ND | µg/L |
| Disperse Blue 124 | 61951-51-7 | 50 | NA | ND | µg/L |
| Disperse Blue 26 | 3860-63-7 | 50 | NA | ND | µg/L |
| Disperse Blue 35 | 12222-75-2 | 50 | NA | ND | µg/L |

| | | | | | |
|---|---|---|---|---|---|
| Disperse Blue 35 | 56524-77-7 | 50 | NA | ND | µg/L |
| Disperse Blue 7 | 3179-90-6 | 50 | NA | ND | µg/L |
| Disperse Brown 1 | 23355-64-8 | 50 | NA | ND | µg/L |
| Disperse Orange 1 | 2581-69-3 | 50 | NA | ND | µg/L |
| Disperse Orange 3 | 730-40-5 | 50 | NA | ND | µg/L |
| Disperse Orange 37/59/76 | 13301-61-6 | 50 | NA | ND | µg/L |
| Disperse Red 1 | 2872-52-8 | 50 | NA | ND | µg/L |
| Disperse Red 11 | 2872-48-2 | 50 | NA | ND | µg/L |
| Disperse Red 17 | 3179-89-3 | 50 | NA | ND | µg/L |
| Disperse Yellow 1 | 119-15-3 | 50 | NA | ND | µg/L |
| Disperse Yellow 3 | 2832-40-8 | 50 | NA | ND | µg/L |
| Disperse Yellow 39 | 12236-29-2 | 50 | NA | ND | µg/L |
| Disperse Yellow 49 | 54824-37-2 | 50 | NA | ND | µg/L |
| Disperse Yellow 9 | 6373-73-5 | 50 | NA | ND | µg/L |

**9. Dyes – Navy Blue Colourant**

USEPA 8321B:2007, LC-MS

| Dyes – Navy Blue Colourant | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 1 (Before treatment) | Unit |
|---|---|---|---|---|---|
| Component 1: C39H23Cl-CrN7O12S 2Na | 118685-33-9 | NA | NA | NA | µg/L |
| Component 2: C46H-30CrN10O20S2 3Na | Not allocated | NA | NA | NA | µg/L |

**10. Flame retardants**

USEPA3510C:1996; USEPA 8270E:2018, GC-MS; USEPA 8321B:2007, LC-MS; USEPA 3015A:2007; US EPA 6020B:2014, ICP-MS

| Flame retardants | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 1 (Before treatment) | Unit |
|---|---|---|---|---|---|
| Boric acid | 10043-35-3/ 11113-50-1 | 500 | 500 | ND | µg/L |
| Diboron trioxide | 1303-86-2 | 500 | 500 | ND | µg/L |
| Disodium octaborate | 12008-41-2 | 500 | 500 | ND | µg/L |
| Disodium tetraborate anhydrous | 1303-96-4/ 1330-43-4 | 500 | 500 | ND | µg/L |
| Tetraboron disodium heptaoxide, hydrate | 12267-73-1 | 500 | 500 | ND | µg/L |
| Hexabromocyclododecane (HBCDD) | 3194-55-6 | 25 | 25 | ND | µg/L |
| 2,2-Bis(bromomethyl)-1,3-propanediol (BBMP) | 3296-90-0 | 25 | 25 | ND | µg/L |
| Polybromobiphenyls (PBBs) | 59536-65-1 | 25 | 25 | ND | µg/L |
| Monobromobiphenyls (MonoBB) | Multiple | 25 | 25 | ND | µg/L |
| Monobromodiphenylethers (MonoBDEs) | Multiple | 25 | 25 | ND | µg/L |
| Dibromobiphenyls (DiBB) | Multiple | 25 | 25 | ND | µg/L |
| Dibromopropylether | 21850-44-2 | 25 | 25 | ND | µg/L |

| | | | | | |
|---|---|---|---|---|---|
| Tribromodiphenylethers (TriBDEs) | Multiple | 25 | 25 | ND | µg/L |
| Tetrabromodiphenyl ether (TetraBDE) | 40088-47-9 | 25 | 25 | ND | µg/L |
| Pentabromodiphenyl ether (PentaBDE) | 32534-81-9 | 25 | 25 | ND | µg/L |
| Hexabromodiphenyl ether (HexaBDE) | 36483-60-0 | 25 | 25 | ND | µg/L |
| Heptabromodiphenyl ether (HeptaBDE) | 68928-80-3 | 25 | 25 | ND | µg/L |
| Octabromobiphenyls (OctaBB) | Multiple | 25 | 25 | ND | µg/L |
| Octabromodiphenyl ether (OctaBDE) | 32536-52-0 | 25 | 25 | ND | µg/L |
| Nonabromobiphenyls (NonaBB) | Multiple | 25 | 25 | ND | µg/L |
| Nonabromodiphenyl ether (NonaBDE) | 63936-56-1 | 25 | 25 | ND | µg/L |
| Decabromobiphenyl (DecaBB) | 13654-09-6 | 25 | 25 | ND | µg/L |
| Decabromodiphenyl ether (DecaBDE) | 1163-19-5 | 25 | 25 | ND | µg/L |
| Tetrabromobisphenol A (TBBPA) | 79-94-7 | 25 | 25 | ND | µg/L |
| Bis(2,3-dibromopropyl) phosphate (BDBPP) | 5412-25-9 | 25 | 25 | ND | µg/L |
| Tris-(2-chloro-1-methylethyl) phosphate (TCPP) | 13674-84-5 | 25 | 25 | ND | µg/L |
| Tris(1-aziridinyl) phosphine oxide (TEPA) | 545-55-1 | 25 | 25 | ND | µg/L |
| Tris(1,3-dichloro-isopropyl) phosphate (TDCP) | 13674-87-8 | 25 | 25 | ND | µg/L |
| Tris(2-chloroethyl) phosphate (TCEP) | 115-96-8 | 25 | 25 | ND | µg/L |
| Tris(2,3-dibromopropyl) phosphate (TRIS) | 126-72-7 | 25 | 25 | ND | µg/L |

**11. Glycols**

USEPA3510C:1996; USEPA 8270E:2018, GC-MS

| Glycols | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 1 (Before treatment) | Unit |
|---|---|---|---|---|---|
| 2-ethoxyethanol | 110-80-5 | 50 | 50 | ND | µg/L |
| 2-ethoxyethyl acetate | 111-15-9 | 50 | 50 | ND | µg/L |
| 2-methoxyethanol | 109-86-4 | 50 | 50 | ND | µg/L |
| 2-methoxyethylacetate | 110-49-6 | 50 | 50 | ND | µg/L |
| 2-methoxypropylacetate | 70657-70-4 | 50 | 50 | ND | µg/L |
| Bis(2-methoxyethyl)-ether | 111-96-6 | 50 | 50 | ND | µg/L |
| Ethylene glycol dimethyl ether | 110-71-4 | 50 | 50 | ND | µg/L |
| Triethylene glycol dimethyl ether | 112-49-2 | 50 | 50 | ND | µg/L |

**12. Halogenated Solvents**

USEPA 5030B:1996; EPA 8260D:2018, GC-MS

| Chlorinated solvents | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 1 (Before treatment) | Unit |
|---|---|---|---|---|---|
| 1,2-Dichloroethane | 107-06-2 | 1 | 1 | ND | µg/L |
| Methylene chloride | 75-09-2 | 1 | 1 | ND | µg/L |
| Trichloroethene | 79-01-6 | 1 | 1 | ND | µg/L |
| Tetrachloroethene | 127-18-4 | 1 | 1 | ND | µg/L |

**13. Organotin compounds**

ISO 17353:2004 ,GC-MS

| Organotin compounds | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 1 (Before treatment) | Unit |
|---|---|---|---|---|---|
| Dipropyltin compounds (DPT) | Multiple including 867-36-7 | 0.01 | 0.01 | ND | µg/L |
| Mono-, di-and tri-butyltin derivatives | Multiple including 1118-46-3/ 1461-22-9 | 0.01 | 0.01 | ND | µg/L |
| Mono-, di-and tri-methyltin derivatives | Multiple including 993-16-8/ 753-73-1/ 1066-45-1 | 0.01 | 0.01 | ND | µg/L |
| Mono-, di-and tri-octyltin derivatives | Multiple including 3091-25-6/ 3542-36-7/ 2587-76-0 | 0.01 | 0.01 | ND | µg/L |
| Mono-, di-and tri-phenyltin derivatives | Multiple including 1124-19-2/ 1135-99-5/ 639-58-7 | 0.01 | 0.01 | ND | µg/L |
| Tetrabutyltin compounds (TeBT) | Multiple including 1461-25-2 | 0.01 | 0.01 | ND | µg/L |
| Tetraethyltin compounds (TeET) | Multiple including 597-64-8 | 0.01 | 0.01 | ND | µg/L |
| Tetraoctyltin compounds (TeOT) | Multiple including 3590-84-9 | 0.01 | 0.01 | ND | µg/L |
| Triclyclohexyltin (TCyHT) | Multiple including 3091-32-5 | 0.01 | 0.01 | ND | µg/L |
| Tripropyltin compounds (TPT) | Multiple including 2279-76-7 | 0.01 | 0.01 | ND | µg/L |

**14. Other /Miscellaneous Chemicals**

USEPA 8321B:2007, LC-MS; USEPA 3015A:2007; US EPA 6020B:2014, ICP-MS

| Other /Miscellaneous Chemicals | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 1 (Before treatment) | Unit |
|---|---|---|---|---|---|
| AEEA [2-(2-aminoethylamino)ethanol] | 111-41-1 | 500 | 500 | ND | µg/L |
| Bisphenol A | 80-05-7 | 10 | 10 | ND | µg/L |
| Borate – borate, zinc salt | 12767-90-7 | 100 | 100 | ND | µg/L |
| Zinc salt – borate, zinc salt | | 100 | 100 | ND | µg/L |
| Quinoline | 91-22-5 | 50 | 50 | ND | µg/L |
| Silica (particles of respirable size) | 14464-46-1 | NA | NA | NA | µg/L |
| Thiourea | 62-56-6 | 50 | 50 | ND | µg/L |

**15. Perfluorinated chemicals (PFCs)**

USEPA 8321B: 2007, LC-MSMS

| Perfluorinated chemicals (PFCs) | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 1 (Before treatment) | Unit |
|---|---|---|---|---|---|
| Perfluorooctane sulfonate (PFOS) and related substances | Multiple including 1763-23-1 | 0.01 | 0.01 | ND | µg/L |
| Perfluorooctanoic acid (PFOA) and related substances | Multiple including 335-67-1 | 1 | 1 | ND | µg/L |

**16. Phthalates – Including all other esters of ortho-phthalic acid**

USEPA3510C:1996; USEPA 8270E:2018, GC-MS

| Phthalates | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 1 (Before treatment) | Unit |
|---|---|---|---|---|---|
| 1,2-benzenedicarboxylic acid, di-C6-11-branched alkyl esters, C7-rich (DIHP) | 71888-89-6/ 84777-06-0 | 10 | 10 | ND | µg/L |
| 1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4/ 68515-50-4 | 10 | 10 | ND | µg/L |
| Bis(2-methoxyethyl) phthalate (DMEP) | 117-82-8 | 10 | 10 | ND | µg/L |
| Butyl benzyl phthalate (BBP) | 85-68-7 | 10 | 10 | ND | µg/L |
| Di-cyclohexyl phthalate (DCHP) | 84-61-7 | 10 | 10 | ND | µg/L |
| Di-iso-decyl phthalate (DIDP) | 26761-40-0 | 10 | 10 | ND | µg/L |
| Di-iso-octyl phthalate (DIOP) | 27554-26-3 | 10 | 10 | ND | µg/L |
| Di-iso-butyl phthalate (DIBP) | 84-69-5 | 10 | 10 | ND | µg/L |
| Di-iso-nonyl phthalate (DINP) | 28553-12-0 | 10 | 10 | ND | µg/L |
| Di-n-hexyl phthalate (DnHP) | 84-75-3 | 10 | 10 | ND | µg/L |
| Di-n-octyl phthalate (DNOP) | 117-84-0 | 10 | 10 | ND | µg/L |
| Di-n-pentylphthalates | 131-18-0 | 10 | 10 | ND | µg/L |
| Di-n-propyl phthalate (DPRP) | 131-16-8 | 10 | 10 | ND | µg/L |
| Di-2-ethylhexyl phthalate (DEHP) | 117-81-7 | 10 | 10 | ND | µg/L |
| Dibutyl phthalate (DBP) | 84-74-2 | 10 | 10 | ND | µg/L |
| Diethyl phthalate (DEP) | 84-66-2 | 10 | 10 | ND | µg/L |
| Diisopentylphthalates | 605-50-5 | 10 | 10 | ND | µg/L |
| Dinonyl phthalate (DNP) | 84-76-4 | 10 | 10 | ND | µg/L |

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

USEPA3510C:1996; USEPA 8270E:2018, GC-MS

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

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

USEPA3510C:1996; USEPA 8270E:2018, GC-MS

| Azo Dyes | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 1 (Before treatment) | Unit |
|---|---|---|---|---|---|
| 2-Naphthylamine | 91-59-8 | 0.1 | 0.1 | ND | µg/L |
| 2-Naphthylammoniumacetate | 553-00-4 | 0.1 | 0.1 | ND | µg/L |
| 2,4-Xylidine | 95-68-1 | 0.1 | 0.1 | ND | µg/L |
| 2,4,5-Trimethylaniline | 137-17-7 | 0.1 | 0.1 | ND | µg/L |
| 2,4,5-trimethylaniline hydrochloride | 21436-97-5 | 0.1 | 0.1 | ND | µg/L |
| 2,6-Xylidine | 87-62-7 | 0.1 | 0.1 | ND | µg/L |
| 3,3'-Dichlorobenzidine | 91-94-1 | 0.1 | 0.1 | ND | µg/L |
| 3,3-Dimethoxybenzidine | 119-90-4 | 0.1 | 0.1 | ND | µg/L |
| 3,3-Dimethylbenzidine | 119-93-7 | 0.1 | 0.1 | ND | µg/L |
| 4-Aminoazobenzene | 60-09-3 | 0.1 | 0.1 | ND | µg/L |
| 4-Aminobiphenyl | 92-67-1 | 0.1 | 0.1 | ND | µg/L |

| | | | | | |
|---|---|---|---|---|---|
| 4-Chloro-o-toluidine | 95-69-2 | 0.1 | 0.1 | ND | µg/L |
| 4-chloro-o-toluidinium chloride | 3165-93-3 | 0.1 | 0.1 | ND | µg/L |
| 4-Chloroaniline | 106-47-8 | 0.1 | 0.1 | ND | µg/L |
| 4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate | 39156-41-7 | 0.1 | 0.1 | ND | µg/L |
| 4-methoxy-m-phenylenediamine | 615-05-4 | 0.1 | 0.1 | ND | µg/L |
| 4-Methyl-m-phenylenediamine | 95-80-7 | 0.1 | 0.1 | ND | µg/L |
| 4,4-Methylene-bis-(2-chloro-aniline) | 101-14-4 | 0.1 | 0.1 | ND | µg/L |
| 4,4-methylenedi-o-toluidine | 838-88-0 | 0.1 | 0.1 | ND | µg/L |
| 4,4-methylenedianiline | 101-77-9 | 0.1 | 0.1 | ND | µg/L |
| 4,4-Oxydianiline | 101-80-4 | 0.1 | 0.1 | ND | µg/L |
| 4,4-Thiodianiline | 139-65-1 | 0.1 | 0.1 | ND | µg/L |
| 5-Nitro-o-toluidine | 99-55-8 | 0.1 | 0.1 | ND | µg/L |
| 6-methoxy-m-toluidine | 120-71-8 | 0.1 | 0.1 | ND | µg/L |
| Benzidine | 92-87-5 | 0.1 | 0.1 | ND | µg/L |
| o-Aminoazotoluene | 97-56-3 | 0.1 | 0.1 | ND | µg/L |
| o-Anisidine | 90-04-0 | 0.1 | 0.1 | ND | µg/L |
| o-Toluidine | 95-53-4 | 0.1 | 0.1 | ND | µg/L |

**19. UV Absorbers**

USEPA3510C:1996; USEPA 8270E:2018, GC-MS

| UV Absorbers | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 1 (Before treatment) | Unit |
|---|---|---|---|---|---|
| 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350) | 36437-37-3 | 100 | 100 | ND | µg/L |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 25973-55-1 | 100 | 100 | ND | µg/L |
| 2-benzotriazol-2-yl-4,6-di-tertbutylphenol (UV-320) | 3846-71-7 | 100 | 100 | ND | µg/L |
| 2,4-Di-tert-butyl-6-(5-chlorobenzotrizole-2-yl) phenol (UV-327) | 3864-99-1 | 100 | 100 | ND | µg/L |

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

USEPA 5030B:1996; EPA 8260D:2018; USEPA3510C:1996; USEPA 8270E:2018, GC-MS

| VOCs | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 1 (Before treatment) | Unit |
|---|---|---|---|---|---|
| Benzene | 71-43-2 | 1 | 1 | ND | µg/L |
| m-cresol | 108-39-4 | 1 | 1 | ND | µg/L |
| o-cresol | 95-48-7 | 1 | 1 | ND | µg/L |
| p-cresol | 106-44-5 | 1 | 1 | ND | µg/L |
| Toluene | 108-88-3 | 1 | 1 | ND | µg/L |
| Xylene | 1330-20-7 | 1 | 1 | ND | µg/L |

## 21. Heavy metals

US EPA 3015A:2007; US EPA 6020B:2014, ICP-MS; GB/T 7467-1987, UV

| Heavy metals | CAS no. | TEXTILES Limit | | | LEATHER Limit | | | Reporting limit & LOQ | Result Sample 2 (After treatment) | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| | | F | P | A | F | P | A | | | |
| Antimony (Sb) | Various | 0.1 | 0.05 | 0.01 | 0.1 | 0.05 | 0.01 | 0.01 | NA | mg/L |
| Chromium VI (Cr VI) | Various | 0.05 | 0.005 | 0.001 | 0.15 | 0.05 | 0.02 | 0.001 | ND | mg/L |
| Barium (Ba) | Various | Sample and report only | | | Sample and report only | | | 1 | NA | mg/L |
| Selenium (Se) | Various | Sample and report only | | | Sample and report only | | | 1 | NA | mg/L |
| Tin (Sn) | Various | Sample and report only | | | Sample and report only | | | 1 | NA | mg/L |
| Arsenic (As) | Various | 0.05 | 0.01 | 0.005 | 0.05 | 0.01 | 0.005 | 0.005 | ND | mg/L |
| Total Chromium (Cr) | Various | 0.2 | 0.1 | 0.05 | 1.5 | 0.8 | 0.3 | 0.05 | NA | mg/L |
| Cobalt (Co) | Various | 0.05 | 0.02 | 0.01 | 0.05 | 0.02 | 0.01 | 0.01 | NA | mg/L |
| Cadmium (Cd) | Various | 0.1 | 0.05 | 0.01 | 0.1 | 0.05 | 0.01 | 0.01 | ND | mg/L |
| Copper (Cu) | Various | 1 | 0.5 | 0.25 | 1 | 0.5 | 0.25 | 0.25 | NA | mg/L |
| Lead (Pb) | Various | 0.1 | 0.05 | 0.01 | 0.1 | 0.05 | 0.01 | 0.01 | ND | mg/L |
| Nickel (Ni) | Various | 0.2 | 0.1 | 0.05 | 0.2 | 0.1 | 0.05 | 0.05 | NA | mg/L |
| Silver (Ag) | Various | 0.1 | 0.05 | 0.005 | 0.1 | 0.05 | 0.005 | 0.005 | NA | mg/L |
| Zinc (Zn) | Various | 5.0 | 1.0 | 0.5 | 5 | 1 | 0.5 | 0.5 | NA | mg/L |
| Mercury (Hg) | Various | 0.01 | 0.005 | 0.001 | 0.01 | 0.005 | 0.001 | 0.001 | ND | mg/L |

## 22. Global effluent parameters

| Parameters | Test Method | TEXTILES Limit | | | LEATHER Limit | | | Reporting limit & LOQ | Result Sample 2 (After Treatment) | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| | | F | P | A | F | P | A | | | |
| pH | HJ 1147-2020 | 6-9 | | | 6-9 | | | NA | NA | pH |
| Temperature difference | GB/T 13195-1991 | Δ+15 | Δ+10 | Δ+5 | Δ+15 | Δ+10 | Δ+5 | NA | NA | °C |
| E. coli | SM 9221B, SM 9221F | 126 | | | 126 | | | 126 | NA | MPN/100ml |
| Colour (436nm; 525nm; 620nm) | ISO 7887-B:2011 | 7;5;3 | 5;3;2 | 2;1;1 | 7;5;3 | 5;3;2 | 2;1;1 | 1;1;1 | NA | $m^{-1}$ |
| Foam | Visual estimation | Not visible | | | Not visible | | | NA | NA | / |
| Wastewater Flowrate | - | 15$m^3$ per day | | | 15$m^3$ per day | | | NA | NA | $m^3$/day |
| Ammonium-N | HJ 535-2009 | 10 | 1 | 0.5 | 10 | 1 | 0.5 | 0.5 | NA | mg/L |
| AOX | HJ/T 83-2001 | 3 | 0.5 | 0.1 | 3 | 0.5 | 0.1 | 0.1 | NA | mg/L |
| $BOD_5$ | HJ 505-2009 | 30 | 15 | 8 | 50 | 30 | 20 | 8 | NA | mg/L |
| COD | HJ 828-2017 | 150 | 80 | 40 | 250 | 150 | 100 | 40 | NA | mg/L |
| DO | HJ 506-2009 | ≥4 | | | ≥4 | | | NA | NA | mg/L |
| Oil and grease | HJ 637-2018 | 10 | 2 | 0.5 | 20 | 10 | 5 | 0.5 | NA | mg/L |
| Phenol | HJ 503-2009 | 0.5 | 0.01 | 0.001 | 0.5 | 0.3 | 0.1 | 0.001 | NA | mg/L |
| Total Chlorine | HJ 586-2010 | 1 | | | 1 | | | 0.1 | NA | mg/L |
| TDS | GB/T 5750.4-2006 | Sample and report only | | | Sample and report only | | | 5 | NA | mg/L |
| Total-N | HJ 636-2012 | 20 | 10 | 5 | 35 | 20 | 10 | 5 | NA | mg/L |
| Total-P | GB/T 11893-1989 | 3 | 0.5 | 0.1 | 3 | 1 | 0.5 | 0.1 | NA | mg/L |
| TSS | GB/T 11901-1989 | 50 | 15 | 5 | 70 | 50 | 20 | 15 | NA | mg/L |
| Chloride | HJ 84-2016 | Sample and report only | | | Sample and report only | | | 1 | NA | mg/L |
| Cyanide, total | HJ 484-2009 | 0.2 | 0.1 | 0.05 | 0.2 | 0.1 | 0.05 | 0.05 | NA | mg/L |
| Sulphate | HJ 84-2016 | Sample and report only | | | Sample and report only | | | 1 | NA | mg/L |
| Sulphide | HJ 1226-2021 | 0.5 | 0.05 | 0.01 | 1 | 0.5 | 0.2 | 0.01 | NA | mg/L |
| Sulphite | HJ 84-2016 | 2 | 0.5 | 0.2 | 2 | 0.5 | 0.2 | 0.2 | NA | mg/L |

**23. Sludge Parameters – Step 1 – MRSL –APs and APEOs: including all isomers (Sludge Disposal Pathway = A)**

USEPA 3550C:2007; ASTM D7065-17; ASTM D7742-17, LC-MS

| Sludge Parameters – APs and APEOs | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 3 (Sludge) | Unit |
|---|---|---|---|---|---|
| Nonylphenolethoxylates (NPEOs) | Multiple including 9016-45-9/ 26027-38-3/ 37205-87-1/ 68412-54-4/ 127087-87-0 | 0.4 | 0.4 | ND | mg/kg |
| Nonylphenol (NP) | Multiple including 104-40-5/ 11066-49-2/ 25154-52-3/ 84852-15-3 | 0.4 | 0.4 | ND | mg/kg |
| Octylphenolethoxylates (OPEOs) | Multiple including 9002-93-1/ 9036-19-5/ 68987-90-6 | 0.4 | 0.4 | ND | mg/kg |
| Octylphenol (OP) | Multiple including 140-66-9/ 1806-26-4/ 27193-28-8 | 0.4 | 0.4 | ND | mg/kg |

**24. Sludge Parameters – Step 1 – MRSL – Polycyclic Aromatic Hydrocarbons (PAHs)**

USEPA 3550C:2007; USEPA 8270E:2018, GC-MS

| PAHs | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 3 (Sludge) | Unit |
|---|---|---|---|---|---|
| Acenaphthene | 83-32-9 | 0.2 | 0.2 | ND | mg/kg |
| Acenaphthylene | 208-96-8 | 0.2 | 0.2 | ND | mg/kg |
| Anthracene | 120-12-7 | 0.2 | 0.2 | ND | mg/kg |
| Benzo(a)anthracene | 56-55-3 | 0.2 | 0.2 | ND | mg/kg |
| Benzo(a)pyrene (BaP) | 50-32-8 | 0.2 | 0.2 | ND | mg/kg |
| Benzo(b)fluoranthene | 205-99-2 | 0.2 | 0.2 | ND | mg/kg |
| Benzo(e)pyrene | 192-97-2 | 0.2 | 0.2 | ND | mg/kg |
| Benzo(ghi)perylene | 191-24-2 | 0.2 | 0.2 | ND | mg/kg |
| Benzo(j)fluoranthene | 205-82-3 | 0.2 | 0.2 | ND | mg/kg |
| Benzo(k)fluoranthene | 207-08-09 | 0.2 | 0.2 | ND | mg/kg |
| Chrysene | 218-01-9 | 0.2 | 0.2 | ND | mg/kg |
| Dibenz(a,h)anthracene | 53-70-3 | 0.2 | 0.2 | ND | mg/kg |
| Fluoranthene | 206-44-0 | 0.2 | 0.2 | ND | mg/kg |
| Fluorene | 86-73-7 | 0.2 | 0.2 | ND | mg/kg |
| Indeno (1,2,3-cd)pyrene | 193-39-5 | 0.2 | 0.2 | ND | mg/kg |
| Naphthalene | 91-20-3 | 0.2 | 0.2 | ND | mg/kg |
| Phenanthrene | 85-01-8 | 0.2 | 0.2 | ND | mg/kg |
| Pyrene | 129-00-0 | 0.2 | 0.2 | ND | mg/kg |

**25. Sludge Parameters – Step 1 – MRSL – Chlorotoluenes**

USEPA 3550C:2007; USEPA 8270E:2018, GC-MS

| Chlorotoluenes | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 3 (Sludge) | Unit |
|---|---|---|---|---|---|
| Other isomers of mono-, di-, tri-, tetra-, and penta- chlorotoluene | Multiple including 95-49-8/ 108-41-8/ 106-43-4/ 32768-54-0/ 95-73-8/ 19398-61-9/ 118-69-4/ 95-75-0/ 25186-47-4/ 7359-72-0/ 2077-46-5/ 6639-30-1/ 23749-65-7/ 1006-32-2/ 875-40-1/ 877-11-2 | 0.2 | 0.2 | ND | µg/L |

**26. Sludge Parameters – Step 1 – Metals**

USEPA 3051A:2007; US EPA 6020B:2014, ICP-MS; US EPA 7196A:1992, UV

| Sludge Parameters - Metals | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Threshold Values | Result Sample 3 (Sludge) | Unit |
|---|---|---|---|---|---|---|
| Antimony | - | 5 | NA | 12 | NA | mg/kg |
| Arsenic | - | 5 | 2 | 10 | NA | mg/kg |
| Barium | - | 200 | NA | 700 | NA | mg/kg |
| Cadmium | - | 1 | 2 | 3 | NA | mg/kg |
| Cobalt | - | 400 | NA | 1600 | NA | mg/kg |
| Copper | - | 50 | NA | 200 | NA | mg/kg |
| Lead | - | 5 | 2 | 10 | NA | mg/kg |
| Nickel | - | 20 | NA | 70 | NA | mg/kg |
| Selenium | - | 5 | NA | 10 | NA | mg/kg |
| Silver | - | 50 | NA | 100 | NA | mg/kg |
| Zinc | - | 400 | NA | 1000 | NA | mg/kg |
| Total Chromium | - | 50 | NA | 100 | NA | mg/kg |
| Chromium (VI) | - | 20 | 2 | 50 | NA | mg/kg |
| Mercury | - | 1 | 0.2 | 1 | NA | mg/kg |

**27. Sludge Parameters – Step 1 – Conventional Parameters & Anions**

HJ 962-2018; EPA 1681:2006; HJ 613-2011; EPA 9095B:2004; HJ 745-2015

| Sludge Parameters – Conventional & Anions | CAS no. | Reporting limit & LOQ TEXTILE | Reporting limit & LOQ LEATHER | Result Sample 3 (Sludge) | Unit |
|---|---|---|---|---|---|
| pH | - | - | - | NA | pH |
| Fecal Coliform | - | - | - | NA | MPN/g |
| % Solids | - | Sample and report | - | 46.5 | % |
| Paint Filter Test | - | - | - | NA | - |
| Cyanide | - | - | - | NA | mg/kg |

**28. Sludge Parameters – Step 2 – Metals**

HJ/T 300-2007; US EPA 3015A:2007; US EPA 6020B:2014, ICP-MS; US EPA 7196A:1992, UV

| Sludge Parameters – Step 2 - Metals | CAS no. | LOQ | Reporting limit | Result Sample 4 (Leachate) | Unit |
|---|---|---|---|---|---|
| Antimony | - | - | - | NA | mg/L |
| Arsenic | - | - | - | NA | mg/L |
| Barium | - | - | - | NA | mg/L |
| Cadmium | - | - | - | NA | mg/L |
| Cobalt | - | - | - | NA | mg/L |
| Copper | - | - | - | NA | mg/L |
| Lead | - | - | - | NA | mg/L |
| Nickel | - | - | - | NA | mg/L |
| Selenium | - | - | - | NA | mg/L |
| Silver | - | - | - | NA | mg/L |
| Zinc | - | - | - | NA | mg/L |
| Total Chromium | - | - | - | NA | mg/L |
| Chromium (VI) | - | - | - | NA | mg/L |
| Mercury | - | - | - | NA | mg/L |

**Remark**

| | | | | | |
|---|---|---|---|---|---|
| ND | = | Not detected (below reporting limit) | NA | = | Not applicable |
| D | = | Detected (equal or above reporting limit) | - | = | Did not perform |
| * | = | See remark | (f) | = | Parameter tested in field |
| @ | = | Maximum holding time exceeded, | (T) | = | Handling temperature exceeded |
| | | Red flag in the ZDHC Gateway – Wastewater Module. | F | = | Foundational level |
| | | Probable error in results due to the holding time. | P | = | Progressive level |
| # | = | Non accredited parameter | A | = | Aspirational level |
| (S) | = | Analysis was subcontracted for testing | | | |
| [a] | = | The local legal standard name and legal standard number is referenced to discharge permit (or contractual agree by CETP) that provided by company. | | | |

## Annex A: Sampling photos & Sampling locations

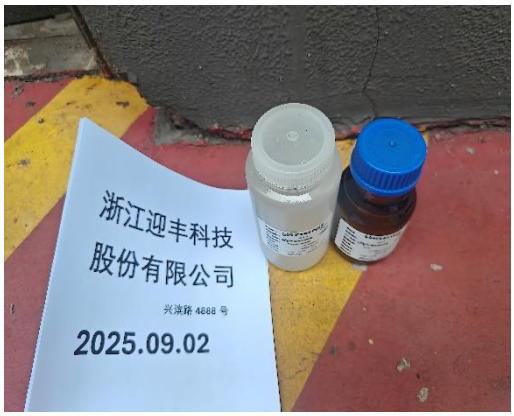
Sample 1 – Sampling Point
02/09/2025, 13:00


Sample 1 – Photo of Sample
02/09/2025, 13:00

## Annex A: Sampling photos & Sampling locations (continue)

Sample 2 – Sampling Point
02/09/2025, 12:35


Sample 2 – Photo of Sample
02/09/2025, 12:35




Sample 2 – Photo of persistant foam
02/09/2025, 12:35

## Annex A: Sampling photos & Sampling locations (continue)

Sample 3 – Sampling Point
02/09/2025, 13:40


Sample 3 – Photo of Sample
02/09/2025, 13:40

## Annex B: On-site Field Data Record Sheet

| ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration | CPSD-AN-00613-DATA 07<br>Issue Date:<br>Version No.: 1<br>Business Line: Analytical |
|---|---|

Attach the completed field data form in the test report.

| Facility Information | |
|---|---|
| Date of Sampling: | 2025.09.02 |
| Sample Number / Test Report Number (ZDHC Composite Sample Code): | 6625245043? |
| Facility Name: | (浙江[illegible]科技股份有限公司) |
| Facility Address: | [illegible] |
| Facility Type (tick all applicable): | ☑ Dyeing and Finishing ○ Laundry, Washing and Finishing ○ Printing ○ Other (please specify) ○ Fabric Mill ○ Natural Leather processing ○ Synthetic Leather processing |
| Discharge Type (tick applicable): | ○ Direct discharge ☑ Indirect discharge ○ Zero liquid discharge (ZLD) ☑ with pre-treatment ☑ without pre-treatment ☑ with own ETP Other Notes: |
| Discharge Description: | ○ Discharge to environment (e.g. river, stream, sea etc.) ○ Other (please specify) ☑ Sewage treatment plant |
| Discharge Volume: | ☑ ≥ 15m³ per day ○ < 15m³ per day |

| Sample Type and Details | | |
|---|---|---|
| **Sample Type** | **Sample Details** | |
| ○ Incoming Water | -- | |
| ☑ Untreated WW | ○ with equalisation tank (EQT) present<br>Hydraulic Retention Time (HRT) (Hours):<br>= volume of tank (m³) / flow rate (m³/h) If HRT > 12 h, grab sampling from EQT is allowed. | 调节池: 5700m³ 水量为 1500m³ |
| ☑ Effluent | ○ Direct: Enter sampling time(s) in page 2 and take field test measurements.<br>☑ Indirect: Enter sampling time(s) in page 2. No field test measurements required except on client's request.<br>☑ Facility has WWTP<br>☑ Plant is in operating condition | ☑ with equalisation tank (EQT) present 外排池: 948m³.<br>Hydraulic Retention Time (HRT) (Hours):<br>= volume of tank (m³) / flow rate (m³/h)<br>If HRT > 12 h, grab sampling from EQT is allowed. 外排: 1500m³. |
| ○ Sludge | Disposal Pathway (The pathway must be defined by the facility. If the facility cannot provide information, pathway "F" shall be assumed.)<br>☑ A >1000°C offsite incineration ○ B Landfill with significant control ○ C Building products processed >1000°C ○ D Landfill with limited control ○ E Incineration/ Building products processed <1000°C<br>○ F Landfill with no control ○ G Land application<br>Sludge flux (weight/time) if applicable: | |

| ZDHC Wastewater Sampling - Facility Confirmation | | | |
|---|---|---|---|
| The wastewater samples have been collected under the facilities' normal production scale and wastewater flow rate. The sampler listed below was on-site and collected the samples. Sampling protocol for wastewater and sludge samples are in accordance with ZDHC SAP including appendix E.<br>In no circumstances shall samples be taken during times when the production process is not running or the wastewater is diluted, for example due to heavy rainfall. | | | |
| **Facility Confirmation** | | **Sampler Information** | |
| **Facility Name:** | [illegible] | **Sampler's Name/ Email:** | [illegible] |
| **Facility Representative Name:** | [illegible] | **Sampler's ZDHC Accredited No.:** | / |
| **Facility Representative Signature and Stamp:** | | **Sampler's Signature:** | [illegible] |
| **Date:** | 2025.9.2 | **Date:** | 2025.09.02 |

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## Annex B: On-site Field Data Record Sheet (continue)

**ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration**

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| ZDHC Wastewater Flow Device Dimensions | | | | |
|---|---|---|---|---|
| Measurement (cm) | Meter | Pipe (O) | Flume (U) | Wier (V) |
| Diameter | -- | | | |
| Depth | -- | -- | -- | |

| ZDHC Wastewater Sampling Field Testing QA/ QC | | | |
|---|---|---|---|
| Parameter | Lab Control Sample (LCS) Known | Lab Control Sample (LCS) Measured | Accuracy (%) |
| pH | | | |
| Total Chlorine | | | |

| ZDHC Wastewater Sample Collection Field Test Measurements | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Incoming Sample Point** | ○ Composite Sample | ○ Grab Sample | | Start Time: | | Stop Time: | | |
| Sampling Locations: | GPS coordinates: | Lat.: N / S | | Long.: E / W | | | | |
| Sampling Mode: | ○ Manual | ○ Autosampler - Sampling Device Description/ Owner: | | | | | | |
| Sampling Time (Hours) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | Average |
| Recording time of discrete sample | | | | | | | | -- |
| Colour (visual estimation): | | | | | | | | |
| **Untreated Sample Point** | ○ Composite Sample | ✓ Grab Sample | | Start Time: 10:40 | | Stop Time: 13:50 | | |
| Sampling Locations: | GPS coordinates: | Lat.: ~~N/S~~ 30°12'47.77" | | Long.: E/~~W~~ 120°41'39.87" | | | | |
| Sampling Mode: | ✓ Manual | ○ Autosampler - Sampling Device Description/ Owner: | | | | | | |
| Sampling Time (Hours) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | Average |
| Recording time of discrete sample | 13:00 | | | | | | | -- |
| Colour (visual estimation): | 棕色 | | | | | | | |
| **Effluent Sample Point** | ○ Composite Sample | ✓ Grab Sample | | Start Time: 10:40 | | Stop Time: 13:50 | | |
| Sampling Locations: | GPS coordinates: | Lat.: ~~N/S~~ 30°12'41.46" | | Long.: E/~~W~~ 120°41'38.58" | | | | |
| Sampling Mode: | ○ Manual | ○ Autosampler - Sampling Device Description/ Owner: | | | | | | |
| Sampling Time (Hours) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | Average |
| Recording time of discrete sample | 17:35 | | | | | | | -- |
| Temperature (°C): WW Discharge | 30.3 | | | | | | | |
| Temperature (°C): Receiving Water | / | | | | | | | |
| pH: | 8.3 | | | | | | | |
| Dissolved Oxygen (mg/L): | 6.57 | | | | | | | |
| Total Chlorine (mg/L): | 0.23 | | | | | | | |
| Persistent Foam (Yes/ No): | Yes / No | Yes / No | Yes / No | Yes / No | Yes / No | Yes / No | Yes / No | Yes / No |
| Wastewater Flow Meter (L/min): | 1500m³/day | | | | | | | |
| Alternate Measured Flow: Depth (cm) | / | | | | | | | |
| Alternate Measured Flow: Velocity (cm/sec) | / | | | | | | | |
| Colour (visual estimation): | 棕黄色 | | | | | | | |
| Volume collected (L): | 750mL | | | | | | | |
| Total volume collected (L): | 750mL | Collect 3.33-litres each hour for a total minimum volume of 20-litres | | | | | | |
| **Sludge Sample Point** | ✓ Composite Sample | | | Start Time: 10:40 | | Stop Time: 13:50 | | |
| Sampling Locations | GPS coordinates: | Lat.: ~~N/S~~ 30°12'41.18" | | Long.: E/~~W~~ 120°41'35.27" | | | | |
| Sampling Mode | ✓ Manual | ○ Autosampler - Sampling Device Description/ Owner: | | | | | | |
| Sampling Time (Hours) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | Average |
| Recording time of discrete sample | 13:40 | | | | | | | -- |
| Colour (visual estimation): | 黑色 | | | | | | | |

**Comments/ Other Observations**

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**Annex C: Limit according to regulation / Contract limit with centralized ETP (if proceed)**

当前位置：水污染物排放信息审核

## 1、废水污染物排放许可限值

### （1）主要排放口

| 排放口编号 | 排放口名称 | 污染物种类 | 许可排放浓度限值（mg/L） |
|---|---|---|---|
| DW001 | 废水总排放口 | 总磷（以P计） | 1.5mg/L |
| DW001 | 废水总排放口 | 色度 | 80 |
| DW001 | 废水总排放口 | 流量 | /mg/L |
| DW001 | 废水总排放口 | 二氧化氯 | 0.5mg/L |
| DW001 | 废水总排放口 | 氨氮（NH3-N） | 20mg/L |
| DW001 | 废水总排放口 | 悬浮物 | 100mg/L |
| DW001 | 废水总排放口 | 总氮（以N计） | 30mg/L |
| DW001 | 废水总排放口 | 五日生化需氧量 | 150mg/L |
| DW001 | 废水总排放口 | 苯胺类 | 1mg/L |
| DW001 | 废水总排放口 | pH值 | 6-9 |
| DW001 | 废水总排放口 | 可吸附有机卤化物 | 12mg/L |
| DW001 | 废水总排放口 | 化学需氧量 | 500mg/L |
| DW001 | 废水总排放口 | 总锑 | 0.1mg/L |
| DW001 | 废水总排放口 | 硫化物 | 0.5mg/L |
| 主要排放口合计 | | | CODcr |
| | | | 氨氮 |
| | | | 总氮（以N计） |

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