



BUREAU
VERITAS

LAB REPORT

| | | | |
|--|---|---|----------------------------|
| Report Number | (9324)075-1406 | | |
| Date of sampling | March 18, 2024 | | |
| Reporting Date | March 28, 2024 | | |
| Factory Company Name | Kai Ping Panther Textiles Co.,Ltd | | |
| Factory Address | No.21, Mei Hua Road, Shui Kou Town, Kai Ping City, Guang Dong Province, China | | |
| Discharge Type | Direct Discharge | | |
| Discharge Destination Name & Address | Discharge to Zhenhaitanjiang | | |
| Average total industrial wastewater generated | Equal or more than 15m ³ per day | Manufacturing Process Type | Textile |
| Onsite ETP / Pretreatment | Yes | Homogenization Tank & Holding Time | Yes (untreated), >12 hours |
| ZDHC Sampler ID | C74D106817272, C74D106817263 | | |
| Sample Type & Description & Sampling Method | Untreated wastewater | I001, blue liquid, composite sample at 11:22, 12:19, 13:16, 14:12, 15:08, 16:06, 16:47 | |
| | Effluent | I002, transparent liquid, composite sample at 11:05, 11:59, 12:52, 13:50, 14:46, 15:42, 16:36 | |
| | Sludge | I003, black solid, composite sample at 15:32 | |
| | | | |

| | |
|---|--|
| Local Legal Data / Contractual agree by CETP Data | |
| Local Legal Standard Name / Name of Contractual agree by CETP^[a] | Discharge standards of water pollutants for dyeing and finishing of textile industry |
| Standard Number | GB 4287-2012 |
| Parameters (ZDHC WWG V2.1, Table 2 & 3) exceeded local legal standard / contractual agree by CETP standard | No exceeded |
| Discharge permit provided | Yes |

| | | | |
|---|--------------|------------------------------|--|
| Result Overview | | | |
| Wastewater Overall Result (ZDHC WWG V2.1, Table 1) | Not detected | | |
| Wastewater Overall Result (ZDHC WWG V2.1, Table 2 & 3) | Progressive | | |
| Sludge Disposal Pathway | A | Sludge Overall Result | Meet Sludge Disposal Pathway (sample & report) |



BUREAU
VERITAS

Report Number (9324)075-1406

| | |
|---|---|
| Internal Description | |
| Sample reference number | (9324)075-1406 |
| Date & time of the beginning of sampling | March 18, 2024 , 11:05 |
| Date & time of the end of sampling | March 18, 2024 , 16:47 |
| Sample received date | March 18, 2024 |
| Testing period | March 18, 2024 to March 28, 2024 |
| Arrival temperature at laboratory | 5.2 °C |
| Comments | Samples received within holding time and temperature. |

The results of this report shall not be used for any regulatory compliance purposes. The sampling is agreed with client. If there are questions or concerns on this report, please contact the following persons:

General enquiry and invoicing bvcps_pyinfo@bureauveritas.com
(86)20-22902088

Technical enquiry bvcps_pyinfo@bureauveritas.com
(86)20-22902088

Report reviewed by


Andy Wang, Manager

Report approved by


Nina Ren, Senior Manager

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

**Wastewater Result Summary - ZDHC MRSL Parameters**

| ZDHC MRSL Wastewater | Untreated I001 | | |
|---|-------------------|--|--|
| 1A) AP and APEOs: including all isomers | ND | | |
| 1B) Anti-Microbials & Biocides | ND | | |
| 1C) Chlorinated Parafins | ND | | |
| 1D) Chlorobenzenes and Chlorotoluenes | ND | | |
| 1E) Chlorophenols | ND | | |
| 1F) DMFa | ND | | |
| 1G) Dyes - Carcinogenic or Equivalent Concern | ND | | |
| 1H) Dyes - Disperse (Sensitising) | ND | | |
| 1I) Dyes - Navy Blue Colourant | ND | | |
| 1J) Flame Retardants | ND | | |
| 1K) Glycols / Glycol Ethers | ND | | |
| 1L) Halogenated Solvents | ND | | |
| 1M) Organotin Compounds | ND | | |
| 1N) Other / Miscellaneous Chemicals | ND | | |
| 1O) PFCs | ND | | |
| 1P) Phthalates | ND | | |
| 1Q) PAHs | ND | | |
| 1R) Restricted Aromatic Amines | ND | | |
| 1S) UV Absorbers | ND | | |
| 1T) VOC | ND | | |

**Wastewater Result Summary - ZDHC Heavy Metals Parameters**

| ZDHC Heavy Metals Wastewater | Effluent I002 | | |
|------------------------------|------------------|--|--|
| Antimony | MEET | | |
| Chromium (VI) | MEET | | |
| Barium | MEET | | |
| Selenium | MEET | | |
| Tin | MEET | | |
| Arsenic | MEET | | |
| Total Chromium | MEET | | |
| Cobalt | MEET | | |
| Cadmium | MEET | | |
| Copper | MEET | | |
| Lead | MEET | | |
| Nickel | MEET | | |
| Silver | MEET | | |
| Zinc | MEET | | |
| Mercury | MEET | | |

**Wastewater Result Summary - ZDHC Conventional and Anions Parameters**

| ZDHC Conventional and Anions Wastewater | Effluent I002 | | |
|---|------------------|--|--|
| pH ^(f) | MEET | | |
| Temperature difference ^(f) | MEET | | |
| E.coli | MEET (S) | | |
| Colour | MEET | | |
| Persistent foam ^(f) | MEET | | |
| Wastewater flowrate ^(f) | DATA | | |
| Ammonium-Nitrogen | MEET | | |
| AOX | MEET | | |
| Biochemical Oxygen Demand (BOD ₅) | MEET | | |
| Chemical Oxygen Demand (COD) | MEET | | |
| Dissolved Oxygen (DO) ^(f) | DATA | | |
| Oil & Grease | MEET | | |
| Total Phenols / Phenol Index | MEET | | |
| Total Chlorine ^(f) | DATA | | |
| Total Dissolved Solids (TDS) | DATA | | |
| Total Nitrogen | MEET | | |
| Total Phosphorus | MEET | | |
| Total Suspended Solids (TSS) | MEET | | |
| Chloride | DATA | | |
| Cyanide, total | MEET | | |
| Sulfate | DATA | | |
| Sulfide | MEET | | |
| Sulfite | MEET | | |



Sludge Result Summary - ZDHC Sludge Parameters

| Sludge Parameters | Sludge I003 | | |
|---|-------------|--|--|
| Antimony | MEET | | |
| Arsenic | MEET | | |
| Barium | MEET | | |
| Cadmium | MEET | | |
| Cobalt | MEET | | |
| Copper | MEET | | |
| Lead | MEET | | |
| Nickel | MEET | | |
| Selenium | MEET | | |
| Silver | MEET | | |
| Total Chromium | MEET | | |
| Zinc | MEET | | |
| Chromium (VI) | MEET | | |
| Mercury | MEET | | |
| pH | DATA | | |
| % Solids | DATA | | |
| Paint Filter Test | DATA | | |
| Fecal Coliform | DATA(S) | | |
| AP and APEOs: including all isomers | DATA | | |
| Polycyclic Aromatic Hydrocarbons (PAHs) | DATA | | |
| Chlorotoluenes | DATA | | |
| Cyanide | DATA | | |

Sludge flux and/or sludge flow data: NA

Note / Key:

- | | | | | | |
|-----------------|---|---|-----|---|---------------------------|
| ND | = | Not detected (less than reporting limit) | NA | = | Not applicable |
| D | = | Detected | - | = | Did not perform |
| MEET | = | Meet ZDHC Wastewater Guidelines Requirements | [f] | = | Parameter tested in field |
| NOT MEET | = | Not Meet ZDHC Wastewater Guidelines Requirements | | | |
| DATA | = | Report only, refer data | | | |
| (T) | = | Handling temperature exceeded | | | |
| @ | = | Maximum holding time exceeded | | | |
| [a] | = | The local legal standard name and number are referenced to discharge permit (or contractual agree by CETP) that provided by company | | | |
| (S) | = | Analysis was subcontracted for testing - Guangdong Zengyuan Testing Technology Co., Ltd. | | | |
| * | = | See remark | | | |



Wastewater Test Result - ZDHC MRSL

1A) AP and APEOs: including all isomers

ISO 18857-2, ASTM D7065

Table with 7 columns: Test Parameters, CAS Number, Reporting limit & LOQ, Result of Test Items (Untreated I001), Unit. Rows include NPEO, NP, mixed isomers, OPEO, and OP, mixed isomers.

1B) Anti-Microbials & Biocides

EPA 3510C:1996, EPA 8270E:2018

Table with 7 columns: Test Parameters, CAS Number, Reporting limit & LOQ, Result of Test Items (Untreated I001), Unit. Rows include o-Phenylphenol (+salts), Triclosan, and Permethrin.

1C) Chlorinated Parafins

EPA 3510C:1996, ISO 18219-2:2021, ISO 12010:2019

Table with 7 columns: Test Parameters, CAS Number, Reporting limit & LOQ, Result of Test Items (Untreated I001), Unit. Rows include MCCPs (C14-C17) and SCCPs (C10-C13).

1D) Chlorobenzenes and Chlorotoluenes

EPA 8270E:2018

Table with 7 columns: Test Parameters, CAS Number, Reporting limit & LOQ, Result of Test Items (Untreated I001), Unit. Rows include 1,2-dichlorobenzene and Other isomers of mono-, di-, tri-, tetra-, penta-, and hexa-chlorobenzene and mono-, di-, tri-, tetra-, and penta- chlorotoluene.



1E) Chlorophenols

USEPA 8270E, BS EN 12673-1999

| Test Parameters | CAS Number | Reporting limit & LOQ | Result of Test Items | | | Unit |
|---------------------------|------------|-----------------------|----------------------|--|--|------|
| | | | Untreated I001 | | | |
| 2-chlorophenol | 95-57-8 | 0.5 | ND | | | µg/L |
| 3-chlorophenol | 108-43-0 | 0.5 | ND | | | µg/L |
| 4-chlorophenol | 106-48-9 | 0.5 | ND | | | µg/L |
| 2,3-dichlorophenol | 576-24-9 | 0.5 | ND | | | µg/L |
| 2,4-dichlorophenol | 120-83-2 | 0.5 | ND | | | µg/L |
| 2,5-dichlorophenol | 583-78-8 | 0.5 | ND | | | µg/L |
| 2,6-dichlorophenol | 87-65-0 | 0.5 | ND | | | µg/L |
| 3,4-dichlorophenol | 95-77-2 | 0.5 | ND | | | µg/L |
| 3,5-dichlorophenol | 591-35-5 | 0.5 | ND | | | µg/L |
| 2,3,4-trichlorophenol | 15950-66-0 | 0.5 | ND | | | µg/L |
| 2,3,5-trichlorophenol | 933-78-8 | 0.5 | ND | | | µg/L |
| 2,3,6-trichlorophenol | 933-75-5 | 0.5 | ND | | | µg/L |
| 2,4,5-trichlorophenol | 95-95-4 | 0.5 | ND | | | µg/L |
| 2,4,6-trichlorophenol | 88-06-2 | 0.5 | ND | | | µg/L |
| 3,4,5-trichlorophenol | 609-19-8 | 0.5 | ND | | | µg/L |
| 2,3,5,6-tetrachlorophenol | 935-95-5 | 0.5 | ND | | | µg/L |
| 2,3,4,6-tetrachlorophenol | 58-90-2 | 0.5 | ND | | | µg/L |
| 2,3,4,5-tetrachlorophenol | 4901-51-3 | 0.5 | ND | | | µg/L |
| Pentachlorophenol (PCP) | 87-86-5 | 0.5 | ND | | | µg/L |

1F) N,N-di-methylformamide (DMFa)

EPA 8015, EPA 8270E:2018

| Test Parameters | CAS Number | Reporting limit & LOQ | Result of Test Items | | | Unit |
|---|------------|-----------------------|----------------------|--|--|------|
| | | | Untreated I001 | | | |
| Dimethyl formamide; N,N-dimethylformamide (DMFa) ^a | 68-12-2 | 1000 | ND | | | µg/L |

1G) Dyes - Carcinogenic or Equivalent Concern

EPA 8321B:2007

| Test Parameters | CAS Number | Reporting limit & LOQ | Result of Test Items | | | Unit |
|--|------------|-----------------------|----------------------|--|--|------|
| | | | Untreated I001 | | | |
| Basic violet 3 with >0.1% of Michler's Ketone | 548-62-9 | 500 | ND | | | µg/L |
| C.I. Acid Red 26 | 3761-53-3 | 500 | ND | | | µg/L |
| C.I. Acid Violet 49 | 1694-09-3 | 500 | ND | | | µg/L |
| C.I. Basic Blue 26 (with Michler's Ketone >0/1%) | 2580-56-5 | 500 | ND | | | µg/L |
| C.I. Basic Green 4 (Malachite Green Chloride) | 569-64-2 | 500 | ND | | | µg/L |



1G) Dyes - Carcinogenic or Equivalent Concern (continued)

| Test Parameters | CAS Number | Reporting limit & LOQ | Result of Test Items | | | Unit |
|--|------------|-----------------------|----------------------|--|--|------|
| | | | Untreated I001 | | | |
| C.I. Basic Green 4 (Malachite Green Oxalate) | 2437-29-8 | 500 | ND | | | µg/L |
| C.I. Basic Green 4 (Malachite Green) | 10309-95-2 | 500 | ND | | | µg/L |
| C.I. Basic Red 9 | 569-61-9 | 500 | ND | | | µg/L |
| C.I. Basic Violet 14 | 632-99-5 | 500 | ND | | | µg/L |
| C.I. Direct Black 38 | 1937-37-7 | 500 | ND | | | µg/L |
| C.I. Direct Blue 6 | 2602-46-2 | 500 | ND | | | µg/L |
| C.I. Direct Red 28 | 573-58-0 | 500 | ND | | | µg/L |
| C.I. Disperse Blue 1 | 2475-45-8 | 500 | ND | | | µg/L |
| C.I. Disperse Blue 3 | 2475-46-9 | 500 | ND | | | µg/L |
| Disperse Orange 11 | 82-28-0 | 500 | ND | | | µg/L |

1H) Dyes - Disperse (Allergenic)

EPA 8321B:2007

| Test Parameters | CAS Number | Reporting limit & LOQ | Result of Test Items | | | Unit |
|-----------------------------------|------------|-----------------------|----------------------|--|--|------|
| | | | Untreated I001 | | | |
| Disperse Blue 102 | 12222-97-8 | 50 | ND | | | µg/L |
| Disperse Blue 106 | 12223-01-7 | 50 | ND | | | µg/L |
| Disperse Blue 124 | 61951-51-7 | 50 | ND | | | µg/L |
| Disperse Blue 26 | 3860-63-7 | 50 | ND | | | µg/L |
| Disperse Blue 35 (CAS 12222-75-2) | 12222-75-2 | 50 | ND | | | µg/L |
| Disperse Blue 35 (CAS 56524-77-7) | 56524-77-7 | 50 | ND | | | µg/L |
| Disperse Blue 7 | 3179-90-6 | 50 | ND | | | µg/L |
| Disperse Brown 1 | 23355-64-8 | 50 | ND | | | µg/L |
| Disperse Orange 1 | 2581-69-3 | 50 | ND | | | µg/L |
| Disperse Orange 3 | 730-40-5 | 50 | ND | | | µg/L |
| Disperse Orange 37/59/76 | 13301-61-6 | 50 | ND | | | µg/L |
| Disperse Red 1 | 2872-52-8 | 50 | ND | | | µg/L |
| Disperse Red 11 | 2872-48-2 | 50 | ND | | | µg/L |
| Disperse Red 17 | 3179-89-3 | 50 | ND | | | µg/L |
| Disperse Yellow 1 | 119-15-3 | 50 | ND | | | µg/L |
| Disperse Yellow 3 | 2832-40-8 | 50 | ND | | | µg/L |
| Disperse Yellow 39 | 12236-29-2 | 50 | ND | | | µg/L |
| Disperse Yellow 49 | 54824-37-2 | 50 | ND | | | µg/L |
| Disperse Yellow 9 | 6373-73-5 | 50 | ND | | | µg/L |



1I) Dyes - Navy Blue Colourant

EPA 8321B:2007

| Test Parameters | CAS Number | Reporting limit & LOQ | Result of Test Items | | | Unit |
|------------------------------------|---------------|-----------------------|----------------------|--|--|------|
| | | | Untreated I001 | | | |
| Component 1: C39H23Cl-CrN7O12S 2Na | 118685-33-9 | 500 | ND | | | µg/L |
| Component 2: C46H-30CrN10O20S2 3Na | Not allocated | 500 | ND | | | µg/L |

1J) Flame Retardants

USEPA 8270, ISO 22032, USEPA 527 and USEPA 8321B, EPA 3015A:2007, EPA 6020B:2014

| Test Parameters | CAS Number | Reporting limit & LOQ | Result of Test Items | | | Unit |
|--|------------|-----------------------|----------------------|--|--|------|
| | | | Untreated I001 | | | |
| 2,2-bis(bromomethyl)-1,3-propanediol (BBMP) | 3296-90-0 | 25 | ND | | | µg/L |
| Dis(2,3-dibromopropyl) phosphate (BIS) | 5412-25-9 | 25 | ND | | | µg/L |
| Decabromophenyl ether (DecaBDE) | 1163-19-5 | 25 | ND | | | µg/L |
| Hexabromocyclodecane (HBCDD) | 3194-55-6 | 25 | ND | | | µg/L |
| Octabromodiphenyl ether (OctaBDE) | 32536-52-0 | 25 | ND | | | µg/L |
| Pentabromodiphenyl ether (PentaBDE) | 32534-81-9 | 25 | ND | | | µg/L |
| Polybromobiphenyls (PBB) | 59536-65-1 | 25 | ND | | | µg/L |
| Tetrabromobisphenol A (TBBPA) | 79-94-7 | 25 | ND | | | µg/L |
| Tris-(2-chloro-1-methylethyl) phosphate (TCPP) | 13674-84-5 | 25 | ND | | | µg/L |
| Tris(1-aziridinyl)phosphone oxide (TEPA) | 545-55-1 | 25 | ND | | | µg/L |
| Tris(1,3-dichloro-isopropyl) phosphate (TDCP) | 13674-87-8 | 25 | ND | | | µg/L |
| Tris(2-chloroethyl) phosphate (TCEP) | 115-96-8 | 25 | ND | | | µg/L |
| Tris(2,3-dibromopropyl) phosphate (TRIS) | 126-72-7 | 25 | ND | | | µg/L |
| Decabromobiphenyl (DecaBB) | 13654-09-6 | 25 | ND | | | µg/L |
| Dibromobiphenyls (DiBB) | Multiple | 25 | ND | | | µg/L |
| Octabromobiphenyls (OctaBB) | Multiple | 25 | ND | | | µg/L |
| Dibromopropylether | 21850-44-2 | 25 | ND | | | µg/L |
| Heptabromodiphenyl ether (HeptaBDE) | 68928-80-3 | 25 | ND | | | µg/L |
| Hexabromodiphenyl ether (HexaBDE) | 36483-60-0 | 25 | ND | | | µg/L |
| Monobromobiphenyls (MonoBB) | Multiple | 25 | ND | | | µg/L |



1J) Flame Retardants (continued)

| Test Parameters | CAS Number | Reporting limit & LOQ | Result of Test Items | | | Unit |
|--|------------------------|-----------------------|----------------------|--|--|------|
| | | | Untreated I001 | | | |
| Monobromodiphenylethers (MonoBDEs) | Multiple | 25 | ND | | | µg/L |
| Nonabromobiphenyls (NonaBB) | Multiple | 25 | ND | | | µg/L |
| Nonabromodiphenyl ether (NonaBDE) | 63936-56-1 | 25 | ND | | | µg/L |
| Tetrabromodiphenyl ether (TetraBDE) | 40088-47-9 | 25 | ND | | | µg/L |
| Tribromophenylethers (TriBDEs) | Multiple | 25 | ND | | | µg/L |
| Boric acid ^b | 10043-35-3, 11113-50-1 | 100 | ND | | | µg/L |
| Diboron trioxide ^b | 1303-86-2 | 100 | ND | | | µg/L |
| Disodium octaborate ^b | 12008-41-2 | 100 | ND | | | µg/L |
| Disodium tetraborate anhydrous ^b | 1303-96-4, 1330-43-4 | 100 | ND | | | µg/L |
| Tetraboron disodium heptaoxide, hydrate ^b | 12267-73-1 | 100 | ND | | | µg/L |

1K) Glycols / Glycol Ethers

EPA 8270E:2018

| Test Parameters | CAS Number | Reporting limit & LOQ | Result of Test Items | | | Unit |
|-----------------------------------|------------|-----------------------|----------------------|--|--|------|
| | | | Untreated I001 | | | |
| 2-ethoxyethanol | 110-80-5 | 50 | ND | | | µg/L |
| 2-ethoxyethyl acetate | 111-15-9 | 50 | ND | | | µg/L |
| 2-methoxyethanol | 109-86-4 | 50 | ND | | | µg/L |
| 2-methoxyethylacetate | 110-49-6 | 50 | ND | | | µg/L |
| 2-methoxypropylacetate | 70657-70-4 | 50 | ND | | | µg/L |
| Bis(2-methoxyethyl)-ether | 111-96-6 | 50 | ND | | | µg/L |
| Ethylene glycol dimethyl ether | 110-71-4 | 50 | ND | | | µg/L |
| Triethylene glycol dimethyl ether | 112-49-2 | 50 | ND | | | µg/L |

1L) Halogenated Solvents

EPA 8260D:2018

| Test Parameters | CAS Number | Reporting limit & LOQ | Result of Test Items | | | Unit |
|---------------------|------------|-----------------------|----------------------|--|--|------|
| | | | Untreated I001 | | | |
| 1,2-dichloroethane | 107-06-2 | 1 | ND | | | µg/L |
| Methylene chloride | 75-09-2 | 1 | ND | | | µg/L |
| Tetrachloroethylene | 127-18-4 | 1 | ND | | | µg/L |
| Trichloroethylene | 79-01-6 | 1 | ND | | | µg/L |



1M) Organotin Compounds

ISO 17353

| Test Parameters | CAS Number | Reporting limit & LOQ | Result of Test Items | | | Unit |
|--|------------|-----------------------|----------------------|--|--|------|
| | | | Untreated I001 | | | |
| Dipropyltin compounds (DPT) | Multiple | 0.01 | ND | | | µg/L |
| Mono, di-, and tri-butyltin derivatives | Multiple | 0.01 | ND | | | µg/L |
| Mono, di-, and tri-methyltin derivatives | Multiple | 0.01 | ND | | | µg/L |
| Mono, di-, and tri-octyltin derivatives | Multiple | 0.01 | ND | | | µg/L |
| Mono, di-, and tri-phenyltin derivatives | Multiple | 0.01 | ND | | | µg/L |
| Tetrabutyltin compounds (TeBT) | Multiple | 0.01 | ND | | | µg/L |
| Tripropyltin compounds (TPT) | Multiple | 0.01 | ND | | | µg/L |
| Tetraoctyltin compounds (TeOT) | Multiple | 0.01 | ND | | | µg/L |
| Tricyclohexyltin (TCyHT) | Multiple | 0.01 | ND | | | µg/L |
| Tetraethyltin compounds (TeET) | Multiple | 0.01 | ND | | | µg/L |

1N) Other / Miscellaneous Chemicals

EPA 3510C:1996, EPA 8321B:2007

| Test Parameters | CAS Number | Reporting limit & LOQ | Result of Test Items | | | Unit |
|---|------------|-----------------------|----------------------|--|--|------|
| | | | Untreated I001 | | | |
| AEEA [2-(2-aminoethylamino)ethanol] | 111-41-1 | 500 | ND | | | µg/L |
| Bisphenol A | 80-05-7 | 10 | ND | | | µg/L |
| Thiourea | 62-56-6 | 50 | ND | | | µg/L |
| Quinoline | 91-22-5 | 50 | ND | | | µg/L |
| Borate - Borate, zinc salt ^c | 12767-90-7 | 100 | ND | | | µg/L |
| Zinc salt - Borate, zinc salt ^c | | 100 | ND | | | µg/L |
| Silica (used in sand blasting) ^d | 14464-46-1 | - | NA | | | µg/L |

1O) Perfluorinated and Polyfluorinated Chemicals (PFCs)

EPA 537:2020, FTOH: BS EN 12673-1999, EPA 8270, PFCs: LC-MSMS, FTOH: GC-MS derivatisation with acetic

| Test Parameters | CAS Number | Reporting limit & LOQ | Result of Test Items | | | Unit |
|--|------------|-----------------------|----------------------|--|--|------|
| | | | Untreated I001 | | | |
| Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA) | Multiple | 0.01 | ND | | | µg/L |
| Perfluorooctanoic acid (PFOA) related substances | Multiple | 1 | ND | | | µg/L |



1P) Phthalates - including all other esters of ortho-phthalic acid

USEPA 8270E, ISO 18856, EPA 3510C:1996, EPA 8270E:2018

| Test Parameters | CAS Number | Reporting limit & LOQ | Result of Test Items | | | Unit |
|--|------------------------|-----------------------|----------------------|--|--|------|
| | | | Untreated I001 | | | |
| 1,2-benzenedicarboxylic acid, di-C6-8 branched and linear alkyl esters, C7-rich (DIHP) | 71888-89-6, 84777-06-0 | 10 | ND | | | µg/L |
| 1,2-benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP) | 68515-42-4, 68515-50-4 | 10 | ND | | | µg/L |
| Bis(2-methoxyethyl)phthalate (DMEP) | 117-82-8 | 10 | ND | | | µg/L |
| Butyl benzyl phthalate (BBP) | 85-68-7 | 10 | ND | | | µg/L |
| Di-cyclohexyl phthalate (DCHP) | 84-61-7 | 10 | ND | | | µg/L |
| Di-iso-decyl phthalate (DIDP) | 26761-40-0 | 10 | ND | | | µg/L |
| Di-iso-octyl phthalate (DIOP) | 27554-26-3 | 10 | ND | | | µg/L |
| Di-iso-butyl phthalate (DIBP) | 84-69-5 | 10 | ND | | | µg/L |
| Di-iso-nonyl phthalate (DINP) | 28553-12-0 | 10 | ND | | | µg/L |
| Di-n-hexyl phthalate (DnHP) | 84-75-3 | 10 | ND | | | µg/L |
| Di-n-octyl phthalate (DNOP) | 117-84-0 | 10 | ND | | | µg/L |
| Di-n-pentylphthalates | 131-18-0 | 10 | ND | | | µg/L |
| Di-n-propyl phthalate (DPRP) | 131-16-8 | 10 | ND | | | µg/L |
| Di(ethylhexyl) phthalate (DEHP) | 117-81-7 | 10 | ND | | | µg/L |
| Dibutyl phthalate (DBP) | 84-74-2 | 10 | ND | | | µg/L |
| Diethyl phthalate (DEP) | 84-66-2 | 10 | ND | | | µg/L |
| Diisopentylphthalates | 605-50-5 | 10 | ND | | | µg/L |
| Dinonyl phthalate (DNP) | 84-76-4 | 10 | ND | | | µg/L |

1Q) Polycyclic Aromatic Hydrocarbons (PAHs)

USEPA 8270E DIN 38407-39

| Test Parameters | CAS Number | Reporting limit & LOQ | Result of Test Items | | | Unit |
|-----------------------|------------|-----------------------|----------------------|--|--|------|
| | | | Untreated I001 | | | |
| Acenaphthene | 83-32-9 | 1 | ND | | | µg/L |
| Acenaphthylene | 208-96-8 | 1 | ND | | | µg/L |
| Anthracene | 120-12-7 | 1 | ND | | | µg/L |
| Benzo[a]anthracene | 56-55-3 | 1 | ND | | | µg/L |
| Benzo[a]pyrene (BaP) | 50-32-8 | 1 | ND | | | µg/L |
| Benzo[b]fluoranthene | 205-99-2 | 1 | ND | | | µg/L |
| Benzo[e]pyrene | 192-97-2 | 1 | ND | | | µg/L |
| Benzo[ghi]perylene | 191-24-2 | 1 | ND | | | µg/L |
| Benzo[j]fluoranthene | 205-82-3 | 1 | ND | | | µg/L |
| Benzo[k]fluoranthene | 207-08-9 | 1 | ND | | | µg/L |
| Chrysene | 218-01-9 | 1 | ND | | | µg/L |
| Dibenz[a,h]anthracene | 53-70-3 | 1 | ND | | | µg/L |



1Q) Polycyclic Aromatic Hydrocarbons (PAHs) (continued)

| Test Parameters | CAS Number | Reporting limit & LOQ | Result of Test Items | | | Unit |
|------------------------|------------|-----------------------|----------------------|--|--|------|
| | | | Untreated I001 | | | |
| Fluoranthene | 206-44-0 | 1 | ND | | | µg/L |
| Fluorene | 86-73-7 | 1 | ND | | | µg/L |
| Indeno[1,2,3-cd]pyrene | 193-39-5 | 1 | ND | | | µg/L |
| Naphthalene | 91-20-3 | 1 | ND | | | µg/L |
| Phenanthrene | 85-01-8 | 1 | ND | | | µg/L |
| Pyrene | 129-00-0 | 1 | ND | | | µg/L |

1R) Restricted Aromatic Amines (Cleavable from Azo-colourants)

EPA 3510C:1996 , EPA 8270E:2018

| Test Parameters | CAS Number | Reporting limit & LOQ | Result of Test Items | | | Unit |
|--|------------|-----------------------|----------------------|--|--|------|
| | | | Untreated I001 | | | |
| 2-naphthylamine | 91-59-8 | 0.1 | ND | | | µg/L |
| 2-naphthylammoniumacetate | 553-00-4 | 0.1 | ND | | | µg/L |
| 2,4-xylidine | 95-68-1 | 0.1 | ND | | | µg/L |
| 2,4,5-trimethylaniline | 137-17-7 | 0.1 | ND | | | µg/L |
| 2,4,5-trimethylaniline hydrochloride | 21436-97-5 | 0.1 | ND | | | µg/L |
| 2,6-xylidine | 87-62-7 | 0.1 | ND | | | µg/L |
| 3,3'-dichlorobenzidine | 91-94-1 | 0.1 | ND | | | µg/L |
| 3,3-dimethoxybenzidine | 119-90-4 | 0.1 | ND | | | µg/L |
| 3,3-dimethylbenzidine | 119-93-7 | 0.1 | ND | | | µg/L |
| 4-aminoazobenzene | 60-09-3 | 0.1 | ND | | | µg/L |
| 4-aminodiphenyl | 92-67-1 | 0.1 | ND | | | µg/L |
| 4-chloro-o-toluidine | 95-69-2 | 0.1 | ND | | | µg/L |
| 4-chloro-o-toluidinium chloride | 3165-93-3 | 0.1 | ND | | | µg/L |
| 4-chloroaniline | 106-47-8 | 0.1 | ND | | | µg/L |
| 4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate | 39156-41-7 | 0.1 | ND | | | µg/L |
| 4-methoxy-m-phenylenediamine | 615-05-4 | 0.1 | ND | | | µg/L |
| 4-methyl-m-phenylenediamine | 95-80-7 | 0.1 | ND | | | µg/L |
| 4,4-methylene-bis-(2-chloro-aniline) | 101-14-4 | 0.1 | ND | | | µg/L |
| 4,4-methylenedi-o-toluidine | 838-88-0 | 0.1 | ND | | | µg/L |
| 4,4-methylenedianiline | 101-77-9 | 0.1 | ND | | | µg/L |
| 4,4-oxydianiline | 101-80-4 | 0.1 | ND | | | µg/L |
| 4,4-thiodianiline | 139-65-1 | 0.1 | ND | | | µg/L |
| 5-nitro-o-toluidine | 99-55-8 | 0.1 | ND | | | µg/L |
| 6-methoxy-m-toluidine | 120-71-8 | 0.1 | ND | | | µg/L |
| Benzidine | 92-87-5 | 0.1 | ND | | | µg/L |
| o-aminoazotoluene | 97-56-3 | 0.1 | ND | | | µg/L |
| o-anisidine | 90-04-0 | 0.1 | ND | | | µg/L |
| o-toluidine | 95-53-4 | 0.1 | ND | | | µg/L |



1S) UV Absorbers

EPA 3510C:1996 , EPA 8270E:2018

| Test Parameters | CAS Number | Reporting limit & LOQ | Result of Test Items | | | Unit |
|---|------------|-----------------------|----------------------|--|--|------|
| | | | Untreated I001 | | | |
| 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350) | 36437-37-3 | 100 | ND | | | µg/L |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 25973-55-1 | 100 | ND | | | µg/L |
| 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) | 3846-71-7 | 100 | ND | | | µg/L |
| 2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327) | 3864-99-1 | 100 | ND | | | µg/L |

1T) Volatile Organic Compounds (VOC)

EPA 8260D:2018

| Test Parameters | CAS Number | Reporting limit & LOQ | Result of Test Items | | | Unit |
|----------------------|------------|-----------------------|----------------------|--|--|------|
| | | | Untreated I001 | | | |
| Benzene | 71-43-2 | 1 | ND | | | µg/L |
| m-cresol | 108-39-4 | 1 | ND | | | µg/L |
| o-cresol | 95-48-7 | 1 | ND | | | µg/L |
| p-cresol | 106-44-5 | 1 | ND | | | µg/L |
| Xylene | 1330-20-7 | 1 | ND | | | µg/L |
| Toluene ^a | 108-88-3 | 1 | ND | | | µg/L |

Note / Key:

- a = Sample and report only for mock leather.
- b = Limit refers to elemental boron, not the salt.
- c = Limit refers to boron and zinc individually, not the salt.
- d = Not required to test this parameter as this related to sand blasting.



BUREAU
VERITAS

Report Number

(9324)075-1406

Wastewater Test Result - ZDHC Heavy Metals

Wastewater - ZDHC Heavy Metals

EPA 3015A:2007, EPA 6020B:2014, ISO 11885:2007, GB/T 7467-1987

| Test Parameters | Reporting limit & LOQ | Limit | | | | Local Legal Standard / Contractual agree with CETP Standard | Result of Test Items | | | Unit |
|-----------------|-----------------------|-----------------|-------------|--------------|----------|---|----------------------|--|------|------|
| | | Foundational | Progressive | Aspirational | Effluent | | | | | |
| Antimony | 0.01 | 0.1 | 0.05 | 0.01 | - | ND | | | mg/L | |
| Chromium (VI) | 0.001 | 0.05 | 0.005 | 0.001 | - | ND | | | mg/L | |
| Barium | 1 | Sample & Report | | | - | ND | | | mg/L | |
| Selenium | 1 | Sample & Report | | | - | ND | | | mg/L | |
| Tin | 1 | Sample & Report | | | - | ND | | | mg/L | |
| Arsenic | 0.005 | 0.05 | 0.01 | 0.005 | - | ND | | | mg/L | |
| Total Chromium | 0.05 | 0.2 | 0.1 | 0.05 | - | ND | | | mg/L | |
| Cobalt | 0.01 | 0.05 | 0.02 | 0.01 | - | ND | | | mg/L | |
| Cadmium | 0.01 | 0.1 | 0.05 | 0.01 | - | ND | | | mg/L | |
| Copper | 0.25 | 1 | 0.5 | 0.25 | - | ND | | | mg/L | |
| Lead | 0.01 | 0.1 | 0.05 | 0.01 | - | ND | | | mg/L | |
| Nickel | 0.05 | 0.2 | 0.1 | 0.05 | - | ND | | | mg/L | |
| Silver | 0.005 | 0.1 | 0.050 | 0.005 | - | ND | | | mg/L | |
| Zinc | 0.5 | 5 | 1 | 0.5 | - | ND | | | mg/L | |
| Mercury | 0.001 | 0.010 | 0.005 | 0.001 | - | ND | | | mg/L | |



Wastewater Test Result - ZDHC Conventional & Anions

| Wastewater - ZDHC Conventional | | | | | | | | | |
|---------------------------------------|--------------------------|-----------------------|----------------------------------|-----------------|-----------------|---|----------------------|------|---------------------|
| Test Parameters | Test Method | Reporting limit & LOQ | Limit | | | | Result of Test Items | | Unit |
| | | | Foundational | Progressive | Aspirational | CETP Standard / Contractual agree with Local Legal Standard | Effluent | 1002 | |
| pH ^[f] | HJ 1147-2020 | - | 6-9 | 6-9 | 6-9 | 6-9 | 7 | | - |
| Temperature difference ^[f] | GB/T 13195-1991 | - | 15 | 10 | 5 | - | -2.9 | | Δ °C |
| E.coli | SM 9221B, SM 9221F | 126 | 126 | 126 | 126 | - | ND | | MPN/100-ml |
| Colour (436 nm) | ISO 7887-B:2011 | 2 | 7 | 5 | 2 | - | <0.1 | | m ⁻¹ |
| Colour (525 nm) | | 1 | 5 | 3 | 1 | - | <0.1 | | m ⁻¹ |
| Colour (620 nm) | | 1 | 3 | 2 | 1 | - | <0.1 | | m ⁻¹ |
| Persistent Foam ^[f] | Visual | - | No indication of Persistent Foam | | | - | Absent | | - |
| Wastewater Flowrate ^[f] | - | - | - | - | - | - | 2000 | | m ³ /day |
| Ammonium-Nitrogen | HJ 535-2009 | 0.5 | 10 | 1 | 0.5 | 10 | 0.836 | | mg/L |
| AOX | HJ/T 83-2001 | 0.1 | 3 | 0.5 | 0.1 | - | 0.122 | | mg/L |
| BOD ₅ | HJ 505-2009 | 0.5 | 30 | 15 | 8 | 20 | 0.6 | | mg/L |
| COD | HJ 828-2017 | 4 | 150 | 80 | 40 | 80 | 6 | | mg/L |
| DO ^[f] | HJ 506-2009 | - | Sample & Report | Sample & Report | Sample & Report | - | 7.28 | | mg/L |
| Oil & Grease | HJ 637-2018 | 0.5 | 10 | 2 | 0.5 | - | ND | | mg/L |
| Total Phenols / Phenol Index | HJ 503-2009 | 0.001 | 0.5 | 0.01 | 0.001 | - | 0.0065 | | mg/L |
| Total Chlorine ^[f] | HJ 585-2010, HJ 586-2010 | 0.1 | Sample & Report | Sample & Report | Sample & Report | - | 1 | | mg/L |
| TDS | GB/T 5750.4-2006 | 5 | Sample & Report | Sample & Report | Sample & Report | - | 261 | | mg/L |
| Total Nitrogen | HJ 636-2012 | 5 | 20 | 10 | 5 | 15 | ND | | mg/L |
| Total Phosphorus | GB/T 11893-1989 | 0.1 | 3 | 0.5 | 0.1 | 0.5 | 0.16 | | mg/L |
| TSS | GB/T 11901-1989 | 5 | 50 | 15 | 5 | 50 | ND | | mg/L |



**BUREAU
VERITAS**

Report Number

(9324)075-1406

Wastewater Test Result - ZDHC Conventional & Anions

Wastewater - ZDHC Anions

| Test Parameters | Test Method | Reporting limit & LOQ | Limit | | | | Result of Test Items | | Unit |
|-----------------|--------------|-----------------------|-----------------|-----------------|-----------------|---|----------------------|--|------|
| | | | Foundational | Progressive | Aspirational | Local Legal Standard / Contractual agree with GETP Standard | Effluent | | |
| Chloride | HJ 84-2016 | 0.007 | Sample & Report | Sample & Report | Sample & Report | - | 58.4 | | mg/L |
| Cyanide, total | HJ 484-2009 | 0.05 | 0.2 | 0.1 | 0.05 | - | ND | | mg/L |
| Sulfate | HJ 84-2016 | 0.018 | Sample & Report | Sample & Report | Sample & Report | - | 45.8 | | mg/L |
| Sulfide | HJ 1226-2021 | 0.01 | 0.5 | 0.05 | 0.01 | 0.5 | ND | | mg/L |
| Sulfite | HJ 84-2016 | 0.2 | 2 | 0.5 | 0.2 | - | ND | | mg/L |



**BUREAU
VERITAS**

Report Number (9324)075-1406

Sludge Test Result - Metals & Conventional and Anions & MRSL

Sludge - Metals

EPA 3050, EPA 6020B, USEPA 3060a, USEPA 7196

| Test Parameters | Sludge Reporting limit & LOQ | Total Metals and Anions Threshold Values | Limit | | Result of Test Items | | | Unit |
|-----------------|------------------------------|--|-------|--|----------------------|--|--|-------|
| | | | | | Sludge | | | |
| Antimony | 5 | 12 | | | ND | | | mg/kg |
| Arsenic | 5 | 10 | | | ND | | | mg/kg |
| Barium | 200 | 700 | | | 341 | | | mg/kg |
| Cadmium | 1 | 3 | | | ND | | | mg/kg |
| Cobalt | 400 | 1600 | | | ND | | | mg/kg |
| Copper | 50 | 200 | | | 372 | | | mg/kg |
| Lead | 5 | 10 | | | 18.3 | | | mg/kg |
| Nickel | 20 | 70 | | | 31.9 | | | mg/kg |
| Selenium | 5 | 10 | | | ND | | | mg/kg |
| Silver | 50 | 100 | | | ND | | | mg/kg |
| Total Chromium | 50 | 100 | | | 55.9 | | | mg/kg |
| Zinc | 400 | 1000 | | | ND | | | mg/kg |
| Chromium (VI) | 20 | 50 | | | ND | | | mg/kg |
| Mercury | 1 | 1 | | | ND | | | mg/kg |

Sludge (Leachate) - Metals

EPA1311-1992 extraction, EPA 3015A:2007, EPA 6020B:2014, ISO 11885:2007, GB/T 7467-1987

| Test Parameters | Reporting limit & LOQ | Limit | | Result of Test Items | | | Unit |
|-----------------|-----------------------|----------------|--|----------------------|--|--|------|
| | | Leachate Limit | | Leachate | | | |
| Antimony | 0.6 | - | | NA | | | mg/L |
| Arsenic | 0.5 | - | | NA | | | mg/L |
| Barium | 35 | - | | NA | | | mg/L |
| Cadmium | 0.15 | - | | NA | | | mg/L |
| Cobalt | 80 | - | | NA | | | mg/L |
| Copper | 10 | Report Only | | ND | | | mg/L |
| Lead | 0.5 | Report Only | | ND | | | mg/L |
| Nickel | 3.5 | - | | NA | | | mg/L |
| Selenium | 0.5 | - | | NA | | | mg/L |
| Silver | 5 | - | | NA | | | mg/L |
| Total Chromium | 5 | - | | NA | | | mg/L |
| Zinc | 50 | - | | NA | | | mg/L |
| Chromium (VI) | 2.5 | - | | NA | | | mg/L |
| Mercury | 0.05 | - | | NA | | | mg/L |



Sludge - Conventional

| Test Parameters | Test Method | Reporting limit & LOQ | Limit | | Result of Test Items | | | Unit |
|-------------------|-------------|-----------------------|--------------------------|--------------------------------------|----------------------|--|--|-------|
| | | | Sludge Reporting g Limit | Limits for specific disposal pathway | Sludge I003 | | | |
| pH | HJ 962-2018 | - | - | Sample & Report Only | 8.50 | | | - |
| % Solids | HJ 613-2011 | - | - | Sample & Report | 26.05 | | | % |
| Fecal Coliform | EPA 9095B | - | - | Sample & Report | 16000 | | | MPN/g |
| Paint Filter Test | EPA 1681 | - | - | Sample & Report | Pass | | | - |

Sludge - AP and APEOs: including all isomers

ISO 18857-2, ASTM D7065, ISO 18254-1, EPA 3540C:1996, EPA 8321B:2007

| Test Parameters | CAS Number | Limit | | Result of Test Items | | | Unit |
|-------------------|--|--------------------------------|--------------------------------------|----------------------|--|--|-------|
| | | Sludge Reporting g Limit & LOQ | Limits for specific disposal pathway | Sludge I003 | | | |
| NPEO | 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0 | 0.4 | Sample & Report Only | ND | | | mg/kg |
| NP, mixed isomers | 104-40-5, 11066-49-2, 25154-52-3, 84852-15-3 | | | ND | | | mg/kg |
| OPEO | 9002-93-1, 9036-19-5, 68987-90-6 | | | ND | | | mg/kg |
| OP, mixed isomers | 140-66-9, 1806-26-4, 27193-28-8 | | | ND | | | mg/kg |

Sludge - Chlorotoluenes

USEPA 3540/3541, USEPA 3550, USEPA 3640, USEPA 827, EPA 3540C:1996, EPA 8270E:2018

| Test Parameters | CAS Number | Limit | | Result of Test Items | | | Unit |
|-----------------|------------|--------------------------------|--------------------------------------|----------------------|--|--|-------|
| | | Sludge Reporting g Limit & LOQ | Limits for specific disposal pathway | Sludge I003 | | | |
| Chlorotoluenes | Multiple | 0.2 | Sample & Report | ND | | | mg/kg |



Sludge - Polycyclic Aromatic Hydrocarbons (PAHs)

USEPA 3540/3541, USEPA 3550, USEPA 3640, USEPA 827, EPA 3540C:1996, EPA 8270E:2018

| Test Parameters | CAS Number | Limit | | | Result of Test Items | | | Unit |
|------------------------|------------|---------------|----------------------|---------|----------------------|--|--|-------|
| | | g Limit & LOQ | Sludge Reportin | pathway | Sludge | | | |
| Acenaphthene | 83-32-9 | 0.2 | Sample & Report Only | | 1003 | | | mg/kg |
| Acenaphthylene | 208-96-8 | | | | ND | | | mg/kg |
| Anthracene | 120-12-7 | | | | ND | | | mg/kg |
| Benzo[a]anthracene | 56-55-3 | | | | ND | | | mg/kg |
| Benzo[a]pyrene (BaP) | 50-32-8 | | | | ND | | | mg/kg |
| Benzo[b]fluoranthene | 205-99-2 | | | | ND | | | mg/kg |
| Benzo[e]pyrene | 192-97-2 | | | | ND | | | mg/kg |
| Benzo[ghi]perylene | 191-24-2 | | | | ND | | | mg/kg |
| Benzo[j]fluoranthene | 205-82-3 | | | | ND | | | mg/kg |
| Benzo[k]fluoranthene | 207-08-9 | | | | ND | | | mg/kg |
| Chrysene | 218-01-9 | | | | ND | | | mg/kg |
| Dibenz[a,h]anthracene | 53-70-3 | | | | ND | | | mg/kg |
| Fluoranthene | 206-44-0 | | | | ND | | | mg/kg |
| Fluorene | 86-73-7 | | | | ND | | | mg/kg |
| Indeno[1,2,3-cd]pyrene | 193-39-5 | | | | ND | | | mg/kg |
| Naphthalene | 91-20-3 | | | | ND | | | mg/kg |
| Phenanthrene | 85-01-8 | | | | ND | | | mg/kg |
| Pyrene | 129-00-0 | ND | | | mg/kg | | | |

Sludge - Anions

HJ 745-2015

| Test Parameters | Limit | | | Result of Test Items | | | Unit |
|-----------------|---------------|-----------------|---------|----------------------|--|--|-------|
| | g Limit & LOQ | Sludge Reportin | pathway | Sludge | | | |
| Cyanide | 20 | Sample & Report | | 1003 | | | mg/kg |



Appendix A - Discharge limit according to regulation

(二) 排放许可限值

表 10 废水污染物排放

| 序号 | 排放口编号 | 排放口名称 | 污染物种类 | 许可排放浓度限值 | 许可年排放量限值 (t/a) | | | | |
|-------|-------|-----------------|-------|----------|----------------|-----|-----|-----|-----|
| | | | | | 第一年 | 第二年 | 第三年 | 第四年 | 第五年 |
| 主要排放口 | | | | | | | | | |
| 1 | DW001 | 开平奔达纺织有限公司污水排放口 | pH 值 | 6-9mg/L | / | / | / | / | / |
| 2 | DW001 | 开平奔达纺织有限 | 悬浮物 | 50mg/L | / | / | / | / | / |

| 序号 | 排放口编号 | 排放口名称 | 污染物种类 | 许可排放浓度限值 | 许可年排放量限值 (t/a) | | | | |
|----|-------|-----------------|------------|----------|----------------|-----|-----|-----|-----|
| | | | | | 第一年 | 第二年 | 第三年 | 第四年 | 第五年 |
| | | 公司污水排放口 | | | | | | | |
| 3 | DW001 | 开平奔达纺织有限公司污水排放口 | 总氮 (以 N 计) | 15mg/L | / | / | / | / | / |
| 4 | DW001 | 开平奔达纺织有限公司污水排放口 | 色度 | 50mg/L | / | / | / | / | / |
| 5 | DW001 | 开平奔达纺织有限公司污水排放口 | 硫化物 | 0.5mg/L | / | / | / | / | / |
| 6 | DW001 | 开平奔达纺织有限公司污水排放口 | 苯胺类 | 1mg/L | / | / | / | / | / |
| 7 | DW001 | 开平奔达纺织有限公司污水排放口 | 流量 | /mg/L | / | / | / | / | / |
| 8 | DW001 | 开平奔达纺织有限公司污水排放口 | 化学需氧量 | 80mg/L | / | / | / | / | / |

| 序号 | 排放口编号 | 排放口名称 | 污染物种类 | 许可排放浓度限值 | 许可年排放量限值 (t/a) | | | | |
|----|-------|-----------------|------------|----------|----------------|-----|-----|-----|-----|
| | | | | | 第一年 | 第二年 | 第三年 | 第四年 | 第五年 |
| 9 | DW001 | 开平奔达纺织有限公司污水排放口 | 五日生化需氧量 | 20mg/L | / | / | / | / | / |
| 10 | DW001 | 开平奔达纺织有限公司污水排放口 | 氨氮 (NH3-N) | 10mg/L | / | / | / | / | / |
| 11 | DW001 | 开平奔达纺织有限公司污水排放口 | 总磷 (以 P 计) | 0.5mg/L | / | / | / | / | / |



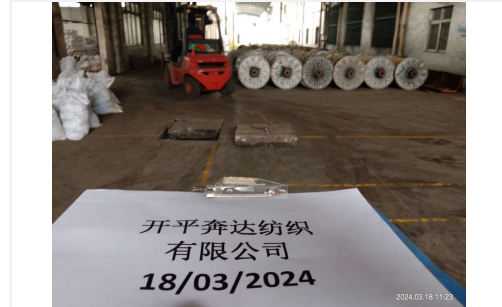
Appendix B - Photos of sampling points and samples (with relative time and date)

1001 - Untreated wastewater

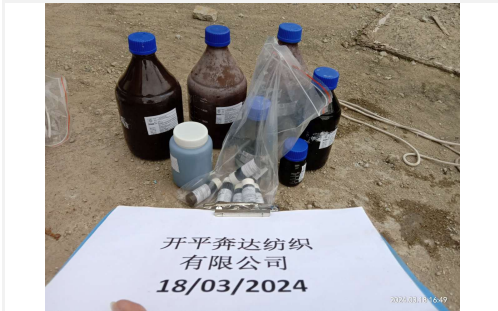
Sampling point
18/03/2024, 11:22



Sampling point surrounding environment
18/03/2024, 11:23



Labelled sample bottles
18/03/2024, 16:49



Sample for phthalate test
18/03/2024, 16:48



Sample packaging
18/03/2024, 16:50





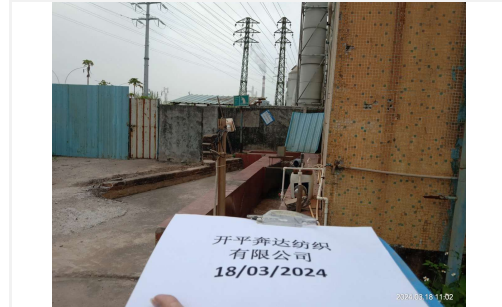
Appendix B - Photos of sampling points and samples (with relative time and date) (continued)

I002 - Effluent

Sampling point
18/03/2024, 11:02



Sampling point surrounding environment
18/03/2024, 11:02



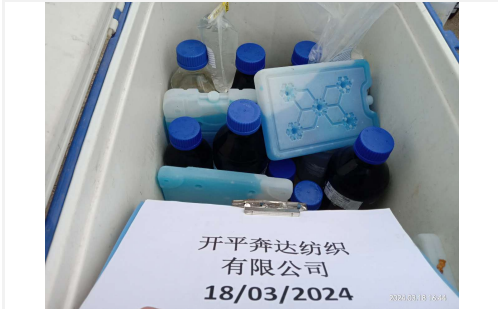
Labelled sample bottles
18/03/2024, 16:43



pH measurement
18/03/2024, 11:05



Sample packaging
18/03/2024, 16:44





Appendix B - Photos of sampling points and samples (with relative time and date) (continued)

I003 - Sludge

Sampling point
18/03/2024, 15:29



Sampling point surrounding environment
18/03/2024, 15:29



Labelled sample bottles
18/03/2024, 15:32



Sample packaging
18/03/2024, 15:32





BUREAU VERITAS

Report Number

(9324)075-1406

Appendix C - On-site Field Data Record Sheet

| | | |
|--|---|---|
| | ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration | CPSD-AN-00613-DATA 07 Issue Date: February 20, 2024 Version No.: 1 Business Line: Analytical |
| | Attach the completed field data form in the test report. | |
| | Facility Information | |

| | | | |
|---|---|--|--------------|
| Date of Sampling: | 2024.10.31 | | |
| Sample Number (ZDHC Composite Sample Code): | 9324 075 1406 | | |
| Facility Name: | 开平南达纺织有限公司 | | |
| Facility Address: | 开平市新美工业区美华路21号 | | |
| Facility Type (tick all applicable): | <input checked="" type="checkbox"/> Dyeing and Finishing <input type="checkbox"/> Laundry, Washing and Finishing <input type="checkbox"/> Printing <input type="checkbox"/> Other (please specify) | <input type="checkbox"/> Fabric Mill <input type="checkbox"/> Natural Leather processing <input type="checkbox"/> Synthetic Leather processing | |
| Discharge Type (tick applicable): | <input checked="" type="checkbox"/> Direct discharge <input type="checkbox"/> Indirect discharge <input type="checkbox"/> Zero liquid discharge (ZLD) | <input checked="" type="checkbox"/> with pre-treatment <input type="checkbox"/> without pre-treatment <input type="checkbox"/> with own ETP | Other Notes: |
| Discharge Description: | <input checked="" type="checkbox"/> Discharge to environment (e.g. river, stream, sea etc.) <input type="checkbox"/> Sewage treatment plant <input type="checkbox"/> Other (please specify) | | |
| Discharge Volume: | <input checked="" type="checkbox"/> $\geq 15m^3$ per day <input type="checkbox"/> $< 15m^3$ per day 约 2000 m ³ /d 开平镇海潭江 | | |

| Sample Type and Details | |
|---|---|
| <input type="checkbox"/> Incoming Water <input checked="" type="checkbox"/> Untreated WW <input checked="" type="checkbox"/> Effluent <input checked="" type="checkbox"/> Sludge | Sample Details <input type="checkbox"/> With equalisation tank (EQT) present Hydraulic Retention Time (HRT) (Hours): = volume of tank (m ³) / flow rate (m ³ /h) if HRT > 12 h, grab sampling from EQT is allowed. <input type="checkbox"/> Indirect Enter sampling time(s) in page 2. No field test measurements required except on client's request. <input checked="" type="checkbox"/> Facility has WWTP <input checked="" type="checkbox"/> Tank is in operating condition <input type="checkbox"/> With equalisation tank (EQT) present Hydraulic Retention Time (HRT) (Hours): = volume of tank (m ³) / flow rate (m ³ /h) If HRT > 12 h, grab sampling from EQT is allowed. Disposal Pathway (The pathway must be defined by the facility. If the facility cannot provide information, pathway "F" shall be assumed.) <input checked="" type="checkbox"/> A >100°C offsite incineration <input type="checkbox"/> B Landfill with significant control <input type="checkbox"/> C Building products processed >1000°C <input type="checkbox"/> D Landfill with limited control <input type="checkbox"/> E Incineration/ Building products processed <1000°C <input type="checkbox"/> F Landfill with no control <input type="checkbox"/> G Land application 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. 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: 开平南达纺织有限公司 Facility Representative Name: 2024.10.31 2024.10.31 2024.10.31 2024.10.31 Facility Representative Signature and Stamp: Jack Lu Date: 2024.10.31 | Sampler's Name/ Email: 黄植荣 Sampler's ZDHC Accredited No.: 07401041121 07401041126 Sampler's Signature: 黄植荣 Date: 2024.10.31 |



BUREAU VERITAS

Appendix C - On-site Field Data Record Sheet (continued)

| ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration | | | | | | | | | | CPSD-AN-00613-DATA 07 | | |
|--|---|-----------------------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------|--|--|
| | | | | | | | | | | Issue Date: | | |
| | | | | | | | | | | Version No.: 1 | | |
| | | | | | | | | | | Business Line: Analytical | | |
| ZDHC Wastewater Flow Device Dimensions | | | | | | | | | | | | |
| Measurement (cm) | Meter | Pipe (O) | Flume (U) | Wier (V) | | | | | | | | |
| Diameter | | | | Do | | | | | | | | |
| Depth | | | | Do | | | | | | | | |
| 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 | <input type="radio"/> Composite Sample | <input type="radio"/> Grab Sample | Start Time: | Stop Time: | | | | | | | | |
| Sampling Locations: | GPS coordinates: | | Lat: N / S | Long: E / W | | | | | | | | |
| Sampling Mode: | <input type="radio"/> Manual <input type="radio"/> 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 | <input checked="" type="radio"/> Composite Sample | <input type="radio"/> Grab Sample | Start Time: | Stop Time: | | | | | | | | |
| Sampling Locations: | GPS coordinates: | | Lat: N / S | Long: E / W | | | | | | | | |
| Sampling Mode: | <input checked="" type="radio"/> Manual <input type="radio"/> Autosampler - Sampling Device Description/ Owner: | | | | | | | | | | | |
| Sampling Time (Hours) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | Average | | | | |
| Recording time of discrete sample | 11:22 | 12:19 | 13:16 | 14:12 | 15:08 | 16:06 | 16:47 | | | | | |
| Colour (visual estimation): | Blue | Blue | Blue | Blue | Blue | Blue | Blue | Blue | | | | |
| Effluent Sample Point | <input checked="" type="radio"/> Composite Sample | <input type="radio"/> Grab Sample | Start Time: | Stop Time: | | | | | | | | |
| Sampling Locations: | GPS coordinates: | | Lat: N / S | Long: E / W | | | | | | | | |
| Sampling Mode: | <input checked="" type="radio"/> Manual <input type="radio"/> Autosampler - Sampling Device Description/ Owner: | | | | | | | | | | | |
| Sampling Time (Hours) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | Average | | | | |
| Recording time of discrete sample | 11:25 | 11:59 | 12:52 | 13:50 | 14:46 | 15:42 | 16:36 | | | | | |
| Temperature (°C): | WW Discharge | 19.8 | 19.8 | 20.1 | 20.0 | 20.1 | 20.0 | 21.0 | 20.1 | | | |
| | Receiving Water | 22.2 | 22.6 | 22.1 | 22.6 | 22.7 | 22.9 | 22.8 | 23.0 | | | |
| pH: | | 7.2 | 7.1 | 7.0 | 7.0 | 6.9 | 6.9 | 7.2 | 7.0 | | | |
| Dissolving Oxygen (mg/L): | | 7.25 | 7.9 | 7.8 | 7.31 | 7.36 | 7.27 | 7.32 | 7.28 | | | |
| Total Chlorine (mg/L): | | 1.05 | 0.98 | 0.96 | 0.94 | 0.97 | 1.06 | 0.84 | 1.00 | | | |
| 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): | | 1946 | 1728 | 1980 | 1872 | 2088 | 1682 | 1908 | 1872 | | | |
| Alternate Measured Flow: | Depth (cm) | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | | | |
| | Velocity (cm/sec) m/s | 0.54 | 0.64 | 0.57 | 0.52 | 0.58 | 0.65 | 0.53 | 0.52 | | | |
| Colour (visual estimation): | | Transparent | Transparent | Transparent | Transparent | Transparent | Transparent | Transparent | Transparent | | | |
| Volume collected (L): | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| Total volume collected (L): | | 7.5 L | Collect 3.33-litres each hour for a total minimum volume of 20-litres | | | | | | | | | |
| Sludge Sample Point | <input checked="" type="radio"/> Composite Sample | <input type="radio"/> Grab Sample | Start Time: | Stop Time: | | | | | | | | |
| Sampling Locations: | GPS coordinates: | | Lat: N / S | Long: E / W | | | | | | | | |
| Sampling Mode: | <input checked="" type="radio"/> Manual <input type="radio"/> Autosampler - Sampling Device Description/ Owner: | | | | | | | | | | | |
| Sampling Time (Hours) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | Average | | | | |
| Recording time of discrete sample | 18:37 | | | | | | | | | | | |
| Colour (visual estimation): | Black | | | | | | | | | | | |
| Comments/Other Observations | | | | | | | | | | | | |

END OF REPORT