



**BUREAU
VERITAS**

LAB REPORT

Report Number	(9324)282-0893		
Date of sampling	October 9, 2024		
Reporting Date	October 15, 2024		
Factory Company Name	Kai Ping Ther Feng Textile Printing & Dyeing Clothing Co., Ltd.		
Factory Address	Block 3, No.21-3, Mei Hua Road, Shui Kou Town, Kai Ping City, Guang Dong Province, China.		
Discharge Type	Indirect Discharge without Pretreatment		
Discharge Destination Name & Address	Discharge to Kai Ping Panther Textiles Co.,Ltd		
Average total industrial wastewater generated	Equal or more than 15m ³ per day	Manufacturing Process Type	Textile
Onsite ETP / Pretreatment	No	Homogenization Tank & Holding Time	NO
ZDHC Sampler ID	C74D106817272 C74D106817271		
Sample Type & Description & Sampling Method	Untreated wastewater	I001, green liquid, composite sample at 11:00, 11:58, 12:56, 13:53, 14:50, 15:47, 16:44	

Local Legal Data / Contractual agree by CETP Data	
Local Legal Standard Name / Name of Contractual agree by CETP^[a]	-
Standard Number	-
Parameters (ZDHC WWG V2.1, Table 2 & 3) exceeded local legal standard / contractual agree by CETP standard	Not applicable
Discharge permit provided	No

Result Overview			
Wastewater Overall Result (ZDHC WWG V2.1, Table 1)	Not detected		
Wastewater Overall Result (ZDHC WWG V2.1, Table 2 & 3)	Not applicable		
Sludge Disposal Pathway	-	Sludge Overall Result	-



Internal Description	
Sample reference number	(9324)282-0893
Date & time of the beginning of sampling	October 9, 2024 , 11:00
Date & time of the end of sampling	October 9, 2024 , 16:44
Sample received date	October 9, 2024
Testing period	October 9, 2024 to October 15, 2024
Arrival temperature at laboratory	7.1 °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		



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Wastewater Result Summary - ZDHC Heavy Metals Parameters

ZDHC Heavy Metals Wastewater	Untreated I001		
Antimony	NA		
Chromium (VI)	DATA		
Barium	NA		
Selenium	NA		
Tin	NA		
Arsenic	DATA		
Total Chromium	NA		
Cobalt	NA		
Cadmium	DATA		
Copper	NA		
Lead	DATA		
Nickel	NA		
Silver	NA		
Zinc	NA		
Mercury	DATA		

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

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



Sludge Result Summary - ZDHC Sludge Parameters

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

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 | | | |



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Wastewater Test Result - ZDHC MRSL

1A) AP and APEOs: including all isomers

ISO 18857-2, ASTM D7065

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
NPEO	9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0	5	ND			µg/L
NP, mixed isomers	104-40-5, 11066-49-2, 25154-52-3, 84852-15-3	5	ND			µg/L
OPEO	9002-93-1, 9036-19-5, 68987-90-6	5	ND			µg/L
OP, mixed isomers	140-66-9, 1806-26-4, 27193-28-8	5	ND			µg/L

1B) Anti-Microbials & Biocides

EPA 3510C:1996, EPA 8270E:2018

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
o-Phenylphenol (+salts)	90-43-7	100	ND			µg/L
Triclosan	3380-34-5	100	ND			µg/L
Permethrin	Multiple	500	ND			µg/L

1C) Chlorinated Parafins

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

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
MCCPs (C14-C17)	85535-85-9	500	ND			µg/L
SCCPs (C10-C13)	85535-84-8	25	ND			µg/L

1D) Chlorobenzenes and Chlorotoluenes

EPA 8270E:2018

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
1,2-dichlorobenzene	95-50-1	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	0.2	ND			µg/L



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 (Sensitising)

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
Bis(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 - 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

Table with 7 columns: Test Parameters, CAS Number, Reporting limit & LOQ, Result of Test Items (Untreated I001), Unit. Rows include UV-350, UV-328, UV-320, and UV-327.

1T) Volatile Organic Compounds (VOC)

EPA 8260D:2018

Table with 7 columns: Test Parameters, CAS Number, Reporting limit & LOQ, Result of Test Items (Untreated I001), Unit. Rows include Benzene, m-cresol, o-cresol, p-cresol, Xylene, and Toluene.

Note / Key:

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



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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	Untreated					
Antimony	0.01	0.1	0.05	0.01	-	1001	NA		mg/L	
Chromium (VI)	0.001	0.05	0.005	0.001	-		ND		mg/L	
Barium	1	Sample & Report			-		NA		mg/L	
Selenium	1	Sample & Report			-		NA		mg/L	
Tin	1	Sample & Report			-		NA		mg/L	
Arsenic	0.005	0.05	0.01	0.005	-		ND		mg/L	
Total Chromium	0.05	0.2	0.1	0.05	-		NA		mg/L	
Cobalt	0.01	0.05	0.02	0.01	-		NA		mg/L	
Cadmium	0.01	0.1	0.05	0.01	-		ND		mg/L	
Copper	0.25	1	0.5	0.25	-		NA		mg/L	
Lead	0.01	0.1	0.05	0.01	-		ND		mg/L	
Nickel	0.05	0.2	0.1	0.05	-		NA		mg/L	
Silver	0.005	0.1	0.050	0.005	-		NA		mg/L	
Zinc	0.5	5	1	0.5	-		NA		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		
pH ^[f]	HJ 1147-2020	-	6-9	6-9	6-9	-	NA		-
Temperature difference ^[f]	GB/T 13195-1991	-	15	10	5	-	NA		Δ °C
E.coli	SM 9221B, SM 9221F	126	126	126	126	-	NA		MPN/100-ml
Colour (436 nm)	ISO 7887-B:2011	0.1	7	5	2	-	NA		m ⁻¹
Colour (525 nm)		0.1	5	3	1	-	NA		m ⁻¹
Colour (620 nm)		0.1	3	2	1	-	NA		m ⁻¹
Persistent Foam ^[f]	Visual	-	No indication of Persistent Foam			-	NA		-
Wastewater Flowrate ^[f]	-	-	-	-	-	-	NA		m ³ /day
Ammonium-Nitrogen	HJ 535-2009	0.5	10	1	0.5	-	NA		mg/L
AOX	HJ/T 83-2001	0.1	3	0.5	0.1	-	NA		mg/L
BOD ₅	HJ 505-2009	0.5	30	15	8	-	NA		mg/L
COD	HJ 828-2017	4	150	80	40	-	NA		mg/L
DO ^[f]	HJ 506-2009	-	Sample & Report	Sample & Report	Sample & Report	-	NA		mg/L
Oil & Grease	HJ 637-2018	0.5	10	2	0.5	-	NA		mg/L
Total Phenols / Phenol Index	HJ 503-2009	0.001	0.5	0.01	0.001	-	NA		mg/L
Total Chlorine ^[f]	HJ 585-2010, HJ 586-2010	0.1	Sample & Report	Sample & Report	Sample & Report	-	NA		mg/L
TDS	GB/T 5750.4-2006	5	Sample & Report	Sample & Report	Sample & Report	-	NA		mg/L
Total Nitrogen	HJ 636-2012	5	20	10	5	-	NA		mg/L
Total Phosphorus	GB/T 11893-1989	0.1	3	0.5	0.1	-	NA		mg/L
TSS	GB/T 11901-1989	5	50	15	5	-	NA		mg/L



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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	-	NA		mg/L
Cyanide, total	HJ 484-2009	0.05	0.2	0.1	0.05	-	NA		mg/L
Sulfate	HJ 84-2016	0.018	Sample & Report	Sample & Report	Sample & Report	-	NA		mg/L
Sulfide	HJ 1226-2021	0.01	0.5	0.05	0.01	-	NA		mg/L
Sulfite	HJ 84-2016	0.2	2	0.5	0.2	-	NA		mg/L



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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			NA			mg/kg
Arsenic	5	10			NA			mg/kg
Barium	200	700			NA			mg/kg
Cadmium	1	3			NA			mg/kg
Cobalt	400	1600			NA			mg/kg
Copper	50	200			NA			mg/kg
Lead	5	10			NA			mg/kg
Nickel	20	70			NA			mg/kg
Selenium	5	10			NA			mg/kg
Silver	50	100			NA			mg/kg
Total Chromium	50	100			NA			mg/kg
Zinc	400	1000			NA			mg/kg
Chromium (VI)	20	50			NA			mg/kg
Mercury	1	1			NA			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	-		NA			mg/L
Lead	0.5	-		NA			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	Sludge Reporting pathway	Limits for specific disposal	Sludge			
pH	HJ 962-2018	-	-	-	-	NA			-
% Solids	HJ 613-2011	-	-	-	-	NA			%
Fecal Coliform	EPA 1681	-	-	-	-	NA			MPN/g
Paint Filter Test	EPA 9095B	-	-	-	-	NA			-

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	Sludge Reporting pathway	Limits for specific disposal	Sludge			
NPEO	9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0	0.4		-	NA			mg/kg
NP, mixed isomers	104-40-5, 11066-49-2, 25154-52-3, 84852-15-3				NA			mg/kg
OPEO	9002-93-1, 9036-19-5, 68987-90-6				NA			mg/kg
OP, mixed isomers	140-66-9, 1806-26-4, 27193-28-8				NA			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	Sludge Reporting pathway	Limits for specific disposal	Sludge			
Chlorotoluenes	Multiple	0.2		-	NA			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	Limits for specific disposal pathway	Sludge			
Acenaphthene	83-32-9	0.2		-	NA			mg/kg
Acenaphthylene	208-96-8				NA			mg/kg
Anthracene	120-12-7				NA			mg/kg
Benzo[a]anthracene	56-55-3				NA			mg/kg
Benzo[a]pyrene (BaP)	50-32-8				NA			mg/kg
Benzo[b]fluoranthene	205-99-2				NA			mg/kg
Benzo[e]pyrene	192-97-2				NA			mg/kg
Benzo[ghi]perylene	191-24-2				NA			mg/kg
Benzo[j]fluoranthene	205-82-3				NA			mg/kg
Benzo[k]fluoranthene	207-08-9				NA			mg/kg
Chrysene	218-01-9				NA			mg/kg
Dibenz[a,h]anthracene	53-70-3				NA			mg/kg
Fluoranthene	206-44-0				NA			mg/kg
Fluorene	86-73-7				NA			mg/kg
Indeno[1,2,3-cd]pyrene	193-39-5				NA			mg/kg
Naphthalene	91-20-3				NA			mg/kg
Phenanthrene	85-01-8				NA			mg/kg
Pyrene	129-00-0	NA			mg/kg			

Sludge - Anions

HJ 745-2015

Test Parameters	Limit				Result of Test Items			Unit
	g Limit & LOQ	Sludge Reportin	Limits for specific disposal pathway	Limits for specific disposal pathway	Sludge			
Cyanide	20		-		NA			mg/kg



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Appendix A - Discharge limit according to regulation

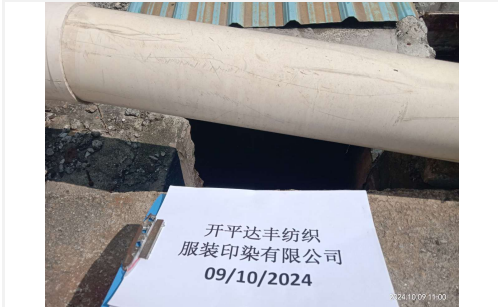
Not applicable



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

1001 - Untreated wastewater

Sampling point
09/10/2024, 11:00



Sampling point surrounding environment
09/10/2024, 11:00



Labelled sample bottles
09/10/2024, 17:39



Sample for phthalate test
09/10/2024, 17:39



Sample packaging
09/10/2024, 17:40





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Appendix C - On-site Field Data Record Sheet

ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration	CPSD-AN-00813-DATA 07
	Issue Date: February 20, 2024
	Version No.: 1
	Business Line: Analytical

Attach the completed field data form in the last report.

Facility Information		
Date of Sampling:	09/10/2024	
Sample Number (ZDHC Composite Sample Code):	9326220893	
Facility Name:	开平长丰纺织服装印染有限公司	
Facility Address:	开平市美华路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 type="checkbox"/> Direct discharge <input checked="" type="checkbox"/> Indirect discharge <input type="checkbox"/> Zero liquid discharge (ZLD)	<input type="checkbox"/> with pre-treatment <input checked="" type="checkbox"/> without pre-treatment <input type="checkbox"/> with own ETP
Discharge Description:	<input type="checkbox"/> Discharge to environment (e.g. river, stream, sea etc.) <input checked="" 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	

日期: 2024.09.10 开平长丰纺织服装印染有限公司 地址: 开平市美华路21号

Sample Type and Details	
<input type="checkbox"/> Incoming Water <input checked="" type="checkbox"/> Untreated WW <input type="checkbox"/> Effluent <input type="checkbox"/> Sludge	<input type="checkbox"/> with equalisation tank (EQT) present Hydraulic Retention Time (HRT) (Hours): _____ <small>= volume of tank (m³) / flow rate (m³/h) if HRT > 12 h, grab sampling from EQT is allowed.</small> <input type="checkbox"/> Direct <input type="checkbox"/> Indirect <small>Enter sampling time(s) in page 2 and take field test measurements.</small> <input type="checkbox"/> Facility has WWTP <input type="checkbox"/> Plant is in operating condition <small>Enter sampling time(s) in page 2. No field test measurements required except on client's request.</small> <input type="checkbox"/> with equalisation tank (EQT) present Hydraulic Retention Time (HRT) (Hours): _____ <small>= volume of tank (m³) / flow rate (m³/h) if HRT > 12 h, grab sampling from EQT is allowed.</small> Disposal Pathway (The pathway must be defined by the facility. If the facility cannot provide information, pathway "F" shall be assumed.) <input type="checkbox"/> A >100°C offsite incineration <input type="checkbox"/> B Landfill with significant control <input type="checkbox"/> C Building products processed >100°C <input type="checkbox"/> D Landfill with limited control <input type="checkbox"/> E Incineration/ Building products processed <100°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: 开平长丰纺织服装印染有限公司	Sampler's Name/ Email: 陈永裕, 林振霖
Facility Representative Name: 陈永裕	Sampler's ZDHC Accredited No.: CAD1061711, JRC0161712
Facility Representative Signature and Stamp:	Sampler's Signature: 陈永裕, 林振霖
Date: 2024.09.10	Date: 09/10/2024



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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 Field Device Dimensions									
Measurement (cm)	Meter	Pipe (O)	Flume (U)	Wtr (M)					
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	<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: 11:00	Stop Time: 16:49					
Sampling Locations:	GPS coordinates:	Lat.: N / S 22°23'10"	Long.: E / W 112°43'11"						
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	11:00	11:58	12:56	13:53	14:50	15:47	16:44		
Colour (visual estimation):	Deep grey	light grey	Green	grey	green	green	green	green	
Effluent 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									
Temperature (°C):	WW Discharge								
	Receiving Water								
pH:									
Dissolved Oxygen (mg/L):									
Total Chlorine (mg/L):									
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):									
Alternate Measured Flow:	Depth (cm)								
	Velocity (cm/sec)								
Colour (visual estimation):									
Volume collected (L):	Collect 3.33-litres each hour for a total minimum volume of 20-litres								
Total volume collected (L):									
Sludge 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):									
Comments/Other Observations									

END OF REPORT