

**SOFTLINES WASTEWATER TESTING**  
**TEST REPORT (TEXTILES)**

Number: BGLA24004089

Report Date: 10/05/2024

Factory's name:	EXECUTIVE APPAREL PROCESSORS
Factory's address:	No.114A, 2nd Stage, Industrial Suburb, Opp. C.M.T.I.,10th Km, Yeshwanthpur, Tumkur Road, Bangalore-560022 Karnataka,
Type of wastewater discharge:	Direct Discharge
On-site Wastewater treatment plant:	Yes
Average total industrial wastewater generated:	≥ 15m <sup>3</sup> /day
Date and time of the beginning of sampling:	27/04/2024, 10:52 AM
Date and time of the end of sampling:	27/04/2024, 05:03 PM
Date received sample:	27/04/2024
Testing period:	From 28/04/2024 to 10/05/2024
Arrival temperature at laboratory:	6.2 °C
Sample type:	
Sample / Incoming water	-
Sample / Untreated wastewater	[Sample Color: Dark Blue composite sample at 10:52, 11:52, 12:52, 13:52, 14:52, 15:52, 16:52 Hours] Sampling location: Latitude 13.0306406, Longitude 77.5325656
Sample / Effluent	[Sample color: Transparent: Composite sample at 11.03, 12.03, 13.03, 14.03, 15.03, 16.03, 17.03 Hours] Sampling location: Latitude 13.0306406, Longitude 77.5325656
Sample / Sludge	[Sample Color: Brown, Grab sample at 16:35 Hours] Sampling location: Latitude 13.0306406, Longitude 77.5325656
Sampling laboratory:	<i>Intertek India Pvt Ltd-Bangalore</i>
Testing laboratory:	<i>Intertek India Pvt Ltd-Bangalore</i>
ZDHC sampler accreditation certification number:	C74D106817145
Local legal standard name <sup>[a]</sup> :	Central Pollution control board (CPCB)
Local legal standard no. <sup>[a]</sup> :	
Parameters (ZDHC WWSG V2.1, Table 2-3) exceeded local regulation:	No
Discharge permit provided:	Yes

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Tests conducted:

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

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**Summary of test results:**

Wastewater / MRSL – Test items	Testing period	Untreated Wastewater
Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)	From 28/04/2024 to 06/05/2024	ND
Anti-Microbials & Biocides	From 28/04/2024 to 06/05/2024	ND
Chlorinated Parafins	From 28/04/2024 to 06/05/2024	ND
Chlorobenzenes and Chlorotoluenes	From 28/04/2024 to 06/05/2024	ND
Chlorophenols	From 28/04/2024 to 06/05/2024	ND
Dimethyl Formamide (DMFa) (*)	From 28/04/2024 to 06/05/2024	ND
Dyes – Carcinogenic or Equivalent Concern	From 28/04/2024 to 06/05/2024	ND
Dyes – Disperse (Allergenic)	From 28/04/2024 to 06/05/2024	ND
Dyes – Navy Blue Colourant	From 28/04/2024 to 06/05/2024	ND
Flame Retardants	From 28/04/2024 to 06/05/2024	ND
Glycols / Glycol Ethers	From 28/04/2024 to 06/05/2024	ND
Halogenated solvents	From 28/04/2024 to 06/05/2024	ND
Organotin compounds	From 28/04/2024 to 06/05/2024	ND
Other/Miscellaneous Chemicals (^)	From 28/04/2024 to 06/05/2024	ND
Perfluorinated & Polyfluorinated chemicals (PFCs)	From 28/04/2024 to 06/05/2024	ND
Phthalates (Ortho-phthalates)	From 28/04/2024 to 06/05/2024	ND
Polycyclic aromatic hydrocarbons (PAHs)	From 28/04/2024 to 06/05/2024	ND
Restricted Aromatic Amines (Cleavable from Azo- colourants)	From 28/04/2024 to 06/05/2024	ND
UV Absorbers	From 28/04/2024 to 06/05/2024	ND
Volatile Organic Compounds (VOC)	From 28/04/2024 to 06/05/2024	ND



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Wastewater / Heavy metals - Test items	Testing period	Effluent		
		Foundational	Progressive	Aspirational
Antimony	From 28/04/2024 to 06/05/2024			Meet
Chromium (VI)	From 28/04/2024 to 06/05/2024			Meet
Barium	From 28/04/2024 to 06/05/2024	Report only, refer Data		
Selenium	From 28/04/2024 to 06/05/2024	Report only, refer Data		
Tin	From 28/04/2024 to 06/05/2024	Report only, refer Data		
Arsenic	From 28/04/2024 to 06/05/2024			Meet
Chromium (total)	From 28/04/2024 to 06/05/2024			Meet
Cobalt	From 28/04/2024 to 06/05/2024			Meet
Cadmium	From 28/04/2024 to 06/05/2024			Meet
Copper	From 28/04/2024 to 06/05/2024			Meet
Lead	From 28/04/2024 to 06/05/2024			Meet
Nickel	From 28/04/2024 to 06/05/2024			Meet
Silver	From 28/04/2024 to 06/05/2024			Meet
Zinc	From 28/04/2024 to 06/05/2024			Meet
Mercury	From 28/04/2024 to 06/05/2024			Meet

Wastewater / Conventional parameters - Test items	Testing period	Effluent		
		Foundational	Progressive	Aspirational
pH <sup>[f]</sup>	From 27/04/2024 to 27/04/2024			Meet
Temperature difference <sup>[f]</sup>	From 27/04/2024 to 27/04/2024			Meet
E.coli <sup>[s]</sup>	From 29/04/2024 to 07/05/2024			Meet
Colour	From 27/04/2024 to 07/05/2024			Meet
Persistent foam <sup>[f]</sup>	From 27/04/2024 to 27/04/2024	Meet		
Wastewater flowrate <sup>[f]</sup>	From 27/04/2024 to 27/04/2024	Report only, refer Data		
Ammonium-Nitrogen <sup>[s]</sup>	From 29/04/2024 to 07/05/2024	Meet		
AOX	From 28/04/2024 to 07/05/2024			Meet
Biochemical Oxygen Demand (BOD <sub>5</sub> ) <sup>[s]</sup>	From 29/04/2024 to 07/05/2024			Meet
Chemical Oxygen Demand(COD) <sup>[s]</sup>	From 29/04/2024 to 07/05/2024			Meet
Dissolved Oxygen (DO) <sup>[f]</sup>	From 27/04/2024 to 27/04/2024	Report only, refer Data		
Oil & Grease <sup>[s]</sup>	From 29/04/2024 to 07/05/2024			Meet
Total Phenols / Phenol Index <sup>[s]</sup>	From 29/04/2024 to 07/05/2024			Meet
Total Chlorine <sup>[f]</sup>	From 27/04/2024 to 27/04/2024	Report only, refer Data		
Total Dissolved Solids (TDS) <sup>[s]</sup>	From 29/04/2024 to 07/05/2024	Report only, refer Data		
Total Nitrogen <sup>[s]</sup>	From 29/04/2024 to 07/05/2024	Meet		
Total Phosphorus <sup>[s]</sup>	From 29/04/2024 to 07/05/2024			Meet
Total Suspended Solids (TSS) <sup>[s]</sup>	From 29/04/2024 to 07/05/2024		Meet	



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Wastewater / Anions - Test items	Testing period	Effluent		
		Foundational	Progressive	Aspirational
Chloride <sup>[s]</sup>	From 29/04/2024 to 07/05/2024	Report only, refer Data		
Cyanide, total <sup>[s]</sup>	From 29/04/2024 to 07/05/2024			Meet
Sulfate <sup>[s]</sup>	From 29/04/2024 to 07/05/2024	Report only, refer Data		
Sulfide <sup>[s]</sup>	From 29/04/2024 to 07/05/2024			Meet
Sulfite <sup>[s]</sup>	From 29/04/2024 to 07/05/2024			Meet

Sludge – Disposal Pathways
B

Sludge / Heavy metals - Test items	Testing period	Sludge (Total)	Sludge (Leachate)
Antimony	From 29/04/2024 to 06/05/2024	Meet	N/A
Arsenic	From 29/04/2024 to 06/05/2024	Meet	N/A
Barium	From 29/04/2024 to 06/05/2024	Meet	N/A
Cadmium	From 29/04/2024 to 06/05/2024	Meet	N/A
Cobalt	From 29/04/2024 to 06/05/2024	Meet	N/A
Copper	From 29/04/2024 to 06/05/2024	Meet	N/A
Lead	From 29/04/2024 to 06/05/2024	Meet	N/A
Nickel	From 29/04/2024 to 06/05/2024	Meet	N/A
Selenium	From 29/04/2024 to 06/05/2024	Meet	N/A
Silver	From 29/04/2024 to 06/05/2024	Meet	N/A
Chromium (total)	From 29/04/2024 to 06/05/2024	Meet	N/A
Zinc	From 29/04/2024 to 06/05/2024	Meet	N/A
Chromium VI	From 29/04/2024 to 06/05/2024	Meet	N/A
Mercury	From 29/04/2024 to 06/05/2024	Meet	N/A



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Sludge / Anion - Test items	Testing period	Sludge
Cyanide <sup>[S]</sup>	From 29/04/2024 to 06/05/2024	Report Only Refer Data

Sludge / Conventional parameters - Test items	Testing period	Sludge
pH	From 29/04/2024 to 06/05/2024	Report Only Refer Data
% Solids	From 29/04/2024 to 06/05/2024	Report Only Refer Data
Paint filter test	From 29/04/2024 to 06/05/2024	Report Only Refer Data
Faecal coliform <sup>[S]</sup>	From 29/04/2024 to 06/05/2024	Report Only Refer Data

Sludge / MRSL - Test items	Testing period	Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	From 29/04/2024 to 06/05/2024	ND
Polycyclic Aromatic Hydrocarbons (PAHs)	From 29/04/2024 to 06/05/2024	ND
Chlorotoluenes	From 29/04/2024 to 06/05/2024	ND

Remark:
ND = Not detected (less than lab reporting limit)
D = Detected
N/A = Not applicable (Out of scope according to ZDHC WWSG v2.1)
NT = Not tested (Did not test according to applicant's request)
<sup>[S]</sup> = The samples were subcontracted to Intertek [Gurgaon – Food Lab] for testing.
<sup>[T]</sup> = If sample temperature is greater than 8°C and less than 10°C when received from the laboratory.
<sup>[TT]</sup> = If sample temperature is exceeded 10°C when received from the laboratory.
@ = Maximum holding time exceeded.
(* ) = Sample and report for mock leather.
(^ ) = Borate, zinc salt would report ND when total boron or total zinc less than 100 µg/L.
<sup>[f]</sup> = On-site test by sampler.
<sup>[a]</sup> = The local legal standard name and legal standard no. is referenced to discharge permit (or contractual agree by CETP) that provided by applicant.
This report shown the test result of the environment samples of above factory which collected on specific date and time. The results of this report shall not be used for any regulatory compliance purposes.

Authorized by:  
for Intertek India Private Limited [Analytical – Bangalore]



AATHEESWARAN.S  
Laboratory Manager – Analytical



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Sample / Wastewater

1. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers

NP/OP: With reference to ISO 18254-1/ISO 18218 (modified dichloromethane extraction) with GC-MS or LC-MS-MS analysis.

OPEO/NPEO (n>2): to ISO 18254-1/ISO 18218 with GC-MS or LC-MS-MS analysis.

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

2. Anti- Microbials & Biocides

OPP, Triclosan: With reference to USEPA 8270E Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS analysis;

Permethrin: With reference to USEPA 8270E Solvent extraction, followed by GC-MS analysis;

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
o-Phenylphenol (+salts)	90-43-7	100	100	ND	µg/L
Triclosan	3380-34-5	100	100	ND	µg/L
Permethrin	Multiple	500	500	ND	µg/L



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3. Chlorinated Parafins

For MCCP: With reference to EPA 3510, analysis by ISO18219-2:2021 with GC-MS-NCI or LC-MS-MS analysis.  
For SCCP: With reference to EPA 3510, analysis by ISO18219-1:2021, ISO 12010:2019 with GC-MS-NCI or LC-MS-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	500	500	ND	µg/L
Short-chain Chlorinated paraffin (C10 – C13)	85535-84-8	25	25	ND	µg/L

4. Chlorobenzenes and Chlorotoluenes

With reference to USEPA 8260D, USEPA 8270E, Dichloromethane extraction followed by GC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	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	0.2	0.2	ND	µg/L



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5. Chlorophenols

With reference to US EPA 8270E solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
2-Chlorophenol	95-57-8	0.5	0.5	ND	µg/L
3-Chlorophenol	108-43-0	0.5	0.5	ND	µg/L
4-Chlorophenol	106-48-9	0.5	0.5	ND	µg/L
2,3-Dichlorophenol	576-24-9	0.5	0.5	ND	µg/L
2,4-Dichlorophenol	120-83-2	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
3,4-Dichlorophenol	95-77-2	0.5	0.5	ND	µg/L
3,5- Dichlorophenol	591-35-5	0.5	0.5	ND	µg/L
2,3,4-Trichlorophenol	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
2,4,5-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
3,4,5-Trichlorophenol	609-19-8	0.5	0.5	ND	µg/L
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	0.5	ND	µg/L
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	0.5	ND	µg/L
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	0.5	ND	µg/L
Pentachlorophenol (PCP)	87-86-5	0.5	0.5	ND	µg/L





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6. Dimethyl Formamide (DMFa)

By Liquid extraction (GCMS Analysis)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
Dimethyl formamide; N,N-dimethylformamide (DMFa) (*)	68-12-2	1000	1000	ND	µg/L

7. Dyes – Carcinogenic or Equivalent Concern

By Liquid extraction, (LC-MS analysis).

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	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
Disperse Orange 11	82-28-0	500	500	ND	µg/L



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8. Dyes – Disperse (Allergenic)

By Liquid extraction, LC-MS analysis.

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

9. Dyes – Navy Blue Colourant

By Liquid extraction, LC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
Component 1: C <sub>39</sub> H <sub>23</sub> Cl-CrN <sub>7</sub> O <sub>12</sub> S <sub>2</sub> 2Na	118685-33-9	500	500	ND	µg/L
Component 2: C <sub>46</sub> H-30CrN <sub>10</sub> O <sub>20</sub> S <sub>2</sub> 3Na	Not Allocated	500	500	ND	µg/L



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10. Flame retardants

Other flame retardant substances: With reference to USEPA 8270E, Dichloromethane extraction GC-MS or LC-MS-MS analysis.

Borate salt: determined as total boron via ICP analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	25	ND	µg/L
Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9	25	25	ND	µg/L
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	25	ND	µg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	25	25	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	25	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	25	ND	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	25	25	ND	µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	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
Decabromobiphenyl (DecaBB)	13654-09-6	25	25	ND	µg/L
Dibromobiphenyls (DiBB)	Multiple	25	25	ND	µg/L
Octabromobiphenyls (OctaBB)	Multiple	25	25	ND	µg/L
Dibromopropylether	21850-44-2	25	25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	25	ND	µg/L
Monobromobiphenyls (MonoBB)	Multiple	25	25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Multiple	25	25	ND	µg/L



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Nonabromobiphenyls (NonaBB)	Multiple	25	25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Multiple	25	25	ND	µg/L
Boric acid **	10043-35-3 11113-50-1	100 in Boron	100 in Boron	ND	µg/L
Diboron trioxide **	1303-86-2	100 in Boron	100 in Boron	ND	µg/L
Disodium octaborate **	12008-41-2	100 in Boron	100 in Boron	ND	µg/L
Disodium tetraborate anhydrous **	1303-96-4 1330-43-4	100 in Boron	100 in Boron	ND	µg/L
Tetraboron disodium heptaoxide, hydrate **	12267-73-1	100 in Boron	100 in Boron	ND	µg/L

\*\* Report total boron directly, no conversion from Boron salt.

11. Glycols / Glycol Ethers

With reference to US EPA 8270E, Liquid extraction, LC-MS or GC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	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



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12. Halogenated solvents

With reference to USEPA 8260D, ISO 11423-1/ Headspace GC-MS

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
1,2-Dichloroethane	107-06-2	1	1	ND	µg/L
Methylene chloride	75-09-2	1	1	ND	µg/L
Tetrachloroethylene	127-18-4	1	1	ND	µg/L
Trichloroethylene	79-01-6	1	1	ND	µg/L

13. Organotin compounds

With reference to ISO 17353, Derivatisation with NaB (C<sub>2</sub>H<sub>5</sub>)<sub>4</sub>, with GC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
Dipropyltin compounds (DPT)	Multiple	0.01	0.01	ND	µg/L
Mono-, di- and tri-butyltin derivatives	Multiple	0.01	0.01	ND	µg/L
Mono, di-, and tri-methyltin derivatives	Multiple	0.01	0.01	ND	µg/L
Mono, di-, and tri-octyltin derivatives	Multiple	0.01	0.01	ND	µg/L
Mono, di-, and tri-phenyltin derivatives	Multiple	0.01	0.01	ND	µg/L
Tetrabutyltin compounds (TeBT)	Multiple	0.01	0.01	ND	µg/L
Tripropyltin Compounds (TPT)	Multiple	0.01	0.01	ND	µg/L
Tetraoctyltin compounds (TeOT)	Multiple	0.01	0.01	ND	µg/L
Tricyclohexyltin (TCyHT)	Multiple	0.01	0.01	ND	µg/L
Tetraethyltin Compounds (TeET)	Multiple	0.01	0.01	ND	µg/L



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14. Other/Miscellaneous Chemicals

Others: With reference to Liquid extraction, LC-MS-MS analysis.  
 Borate salt: determined as total boron and total zinc via ICP analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500	500	ND	µg/L
Bisphenol A	80-05-7	10	10	ND	µg/L
Thiourea	62-56-6	50	50	ND	µg/L
Quinoline	91-22-5	50	50	ND	µg/L
Borate, zinc salt ^^	12767-90-7	100 in Boron & 100 in Zinc	100 in Boron & 100 in Zinc	Boron: ND	µg/L
				Zinc: ND	

^^ = Report total boron & total zinc individually, and no conversion from boron / zinc salt.



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15. Perfluorinated & polyfluorinated chemicals (PFCs)

PFCs: Modified from EPA 8270, LC-MS-MS ANALYSIS

FTOH: Modified from EPA 8270, LC-MS-MS ANALYSIS

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA)	Multiple	0.01	0.01	ND	µg/L
Perfluorooctanoic acid (PFOA) related Substances	Multiple	1	1	ND	µg/L

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

With reference to USEPA 8270E, Dichloromethane extraction GC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
1,2-benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich (DIHP)	71888-89-6	10	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters (DHNUP)	68515-42-4	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-isobutyl phthalate (DIBP)	84-69-5	10	10	ND	µg/L
Di-isononyl phthalate (DINP)	28553-12-0	10	10	ND	µg/L
Di-n-hexyl phthalate (DnHP)	84-75-3	10	10	ND	µg/L



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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(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)

With reference to US EPA 8270E, solvent extraction GC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	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	207-08-9	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





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

With reference to reduction step with sodium dithionite, solvent extraction, EPA 8270E and ISO 14362-1 with GC-MS and LC-MS-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	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-Aminodiphenyl	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-chloroaniline)	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



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19. UV Absorbers

With reference to USEPA 8270, dichloromethane extraction GC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	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-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	100	100	ND	µg/L

20. Volatile organic compounds (VOCs)

With reference to ISO 11423-1 Headspace GC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	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
Xylene	1330-20-7	1	1	ND	µg/L
Toluene	108-88-3	1	1	ND	µg/L



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21. Heavy metals

Modified from USEPA 6010C & USEPA 6020A, ISO 18412 EPA (ICP-MS ANALYSIS)

Chemical substances	Limit			Lab reporting limit (mg/L)	Untreated wastewater	Unit
	Foundational	Progressive	Aspirational			
Antimony	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01	ND	mg/L
Chromium (VI)	0.05 mg/L	0.005 mg/L	0.001 mg/L	0.001	ND	mg/L
Barium	Sample and report only			0.01	ND	mg/L
Selenium	Sample and report only			0.01	ND	mg/L
Tin	Sample and report only			0.01	ND	mg/L
Arsenic	0.05 mg/L	0.01 mg/L	0.005 mg/L	0.005	ND	mg/L
Chromium (total)	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.05	ND	mg/L
Cobalt	0.05 mg/L	0.02 mg/L	0.01 mg/L	0.01	ND	mg/L
Cadmium	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01	ND	mg/L
Copper	1 mg/L	0.5 mg/L	0.25 mg/L	0.25	ND	mg/L
Lead	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01	ND	mg/L
Nickel	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.05	ND	mg/L
Silver	0.1 mg/L	0.05 mg/L	0.005 mg/L	0.005	ND	mg/L
Zinc	5.0 mg/L	1.0 mg/L	0.5 mg/L	0.5	ND	mg/L
Mercury	0.01 mg/L	0.005 mg/L	0.001 mg/L	0.001	ND	mg/L

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



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22. Conventional parameters

Parameters	Test method	Limit			Legal * Requirement	Reporting limit	Lab reporting limit	Effluent	Unit
		Foundational	Progressive	Aspirational					
pH	IS 3025 (Part 11) Electro metric method only (Part 11) Electro metric method only	6-9			6.5-8.5	N/A	N/A	7.2	[f]
Temperature difference	IS 3025 (Part 9)	Δ+15 °C	Δ+10 °C	Δ+5 °C	Δ+5 °C	N/A	N/A	0.4	[f] °C
E.coli	SM 9221B presumptive, confirm positive with SM9221 F or G	126 MPN/100-ml			N/A	1.8 MPN/100-ml	1.8 MPN/100-ml	<1.8	MPN/100-ml
Colour (436 nm ; 525 nm ; 620nm)	ISO 7887-B	7;5;3 [m-1]	5;3;2 [m-1]	2;1;1 [m-1]	N/A	N/A	N/A	0.92; 0.25; 0.08	[m-1]
Persistent Foam	/	No indication of Persistent foam in receiving water			N/A	N/A	N/A	Not Visible	[f]
Wastewater Flowrate	/	N/A			N/A	N/A	N/A	5.3	[f] m <sup>3</sup> /day
Ammonium-Nitrogen	IS 3025 (Part 34)	10 mg/L	1 mg/L	0.5 mg/L	50	0.5 mg/L	0.5 mg/L	7.27	mg/L
AOX	ISO 9562	3 mg/L	0.5 mg/L	0.1 mg/L	N/A	0.1 mg/L	0.06 mg/L	<0.06	mg/L



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Biochemical Oxygen Demand (BOD <sub>5</sub> )	IS 3025 (Part 44)	30 mg/L	15 mg/L	8 mg/L	30	8 mg/L	3 mg/L	<3	mg/L
Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	150 mg/L	80 mg/L	40 mg/L	250	40 mg/L	4 mg/L	<4	mg/L
Dissolved Oxygen (DO)	IS 3025 (Part 38)	Sample and report only			N/A	N/A	N/A	7.0	<sup>[f]</sup> mg/L
Oil and grease	IS 3025 (Part 39)	10 mg/L	2 mg/L	0.5 mg/L	10	0.5 mg/L	0.5 mg/L	<0.5	mg/L
Total Phenols / Phenol Index	IS 3025 (Part 43)	0.5 mg/L	0.01 mg/L	0.001 mg/L	1	0.001 mg/L	0.0005 mg/L	<0.0005	mg/L
Total Chlorine		Sample and report only			N/A	0.2 mg/L	0.2 mg/L	<0.2	<sup>[f]</sup> mg/L
Total Dissolved Solids (TDS)	IS 3025 (Part 16)	Sample and report only			N/A	10 mg/L	10 mg/L	2500	mg/L
Total-Nitrogen	IS 3025 (Part 34)	20 mg/L	10 mg/L	5 mg/L	50	5 mg/L	5 mg/L	15.8	mg/L
Total-Phosphorus	IS 3025 (Part 31)	3 mg/L	0.5 mg/L	0.1 mg/L	5	0.1 mg/L	0.02 mg/L	<0.02	mg/L
Total Suspended Solids (TSS)	IS 3025 (Part 17)	50 mg/L	15 mg/L	5 mg/L	100	5 mg/L	5 mg/L	5.5	mg/L
Chloride	IS 3025 (Part 17)	Sample and report only			N/A	10 mg/L	10 mg/L	1606.38	mg/L
Cyanide, total	APHA 4500-CN	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.2	0.05 mg/L	0.02 mg/L	<0.02	mg/L
Sulfate	IS 3025 (Part 24)	Sample and report only				10 mg/L	10 mg/L	15.67	mg/L
Sulfide	IS 3025 (Part 29)	0.5 mg/L	0.05 mg/L	0.01 mg/L	2	0.01 mg/L	0.01 mg/L	<0.01	mg/L
Sulfite		2 mg/L	0.5 mg/L	0.2 mg/L	N/A	0.2 mg/L	0.2 mg/L	<0.2	mg/L



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Remark:

ND = Not detected (less than reporting limit)

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

\* Legal requirement based on Regulation/Standard information for discharged wastewater as well as the limitation value (or contractual limit value agreed by CETP) for the required parameters (mandatory). It is quoted only when the test method used is identical to the ZDHC WWG listed method.

**Sample / Sludge**

1. Heavy metals

Other heavy metals: With reference to acid/peroxide digestion EPA 3050, with ICP/OES, or ICP-MS analysis.

Chromium VI: With reference to alkaline digestion USEPA 3060a, USEPA 7196 or

USEPA 7199, HJ 1082 with Colourimetric UV/VIS, or Colourimetric IC analysis.

Mercury: With reference to Dissolution, acid digestion USEPA 3051a

, ICP MS analysis.

Chemical substances	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Antimony	5	5	ND	mg/kg
Arsenic	5	5	ND	mg/kg
Barium	200	200	ND	mg/kg
Cadmium	1	1	ND	mg/kg
Cobalt	400	400	ND	mg/kg
Copper	50	50	ND	mg/kg
Lead	5	5	ND	mg/kg
Nickel	20	20	ND	mg/kg
Selenium	5	5	ND	mg/kg
Silver	50	50	ND	mg/kg
Total Chromium	50	50	ND	mg/kg
Zinc	400	400	ND	mg/kg
Chromium (VI)	20	20	ND	mg/kg
Mercury	1	1	ND	mg/kg



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2. Anions

With reference to USEPA 9013, USEPA 9014, USEPA 9213, HJ745 with Colourimetry or ISE analysis.

Chemical substances	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Cyanide	20	20	ND	mg/kg

3. Conventional parameters

Chemical substances	Test method	Reporting limit (Dry weight)	Lab reporting limit (Dry weight)	Sludge (Dry weight)	Unit
pH	USEPA SW 9045D / HJ962	N/A	N/A	6.5	N/A
% Solids	USEPA 160.3 / HJ613	N/A	N/A	85.1	%
Paint Filter Test ^	USEPA SW-846 / USEPA 9095B	N/A	N/A	Pass	N/A
Fecal Coliform	USEPA 1681	10 MPN/g	>1.8	27.0	MPN/g

Remark:

@ = Maximum holding time exceeded.

^ - Report "Pass" when Paint Filter Test does not contain free liquid; Report "Fail" when Paint Filter Test does contain free liquid.



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4. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers

With reference to, ISO 18254-1, with GC-MS and LC-MS-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Nonylphenol ethoxylates (NPEO)	9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	0.4	0.4	ND	mg/kg
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	0.4	0.4	ND	mg/kg
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	0.4	0.4	ND	mg/kg
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	0.4	0.4	ND	mg/kg





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5. Polycyclic aromatic hydrocarbons (PAHs)

With reference to AFPS GS PAK 2019 – Solvent Extraction (GC-MS analysis.)

Chemical substances	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	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	207-08-9	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



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6. Chlorotoluenes

With reference to US EPA 3540/3541, with GC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Other isomers of mono-, di-, tri-, tetra- and penta- chlorotoluene	Multiple	0.2	0.2	ND	mg/kg

7. Leachate heavy metals

With reference to toxicity leachate extraction procedure EPA 1311 followed by Acid digestion EPA 3051A, with ICP-OES, ICP-MS or , ISO 11885

Chromium VI: With reference to toxicity leachate extraction procedure EPA 1311 followed by ISO 18412, USEPA 7196 or USEPA 7199 Colourimetric UV/VIS, or Colourimetric IC analysis.

Mercury: With reference to toxicity leachate extraction procedure EPA 1311 followed by acid digestion EPA 7471b , EPA 3051a with ISO 12846 or ISO 17852, EPA 6020b CVAA or ICP MS analysis.

Chemical substances	Reporting limit (mg/L)	Lab reporting limit (mg/L)	Sludge	Unit
Arsenic	0.5	0.5	N/A	mg/L
Cadmium	0.15	0.15	N/A	mg/L
Total Chromium	5	5	N/A	mg/L
Lead	0.5	0.5	N/A	mg/L
Antimony	0.6	0.6	N/A	mg/L
Barium	35	35	N/A	mg/L
Cobalt	80	80	N/A	mg/L
Copper	10	10	N/A	mg/L
Nickel	3.5	3.5	N/A	mg/L
Selenium	0.5	0.5	N/A	mg/L
Silver	5	5	N/A	mg/L
Zinc	50	50	N/A	mg/L
Chromium (VI)	2.5	2.5	N/A	mg/L
Mercury	0.05	0.05	N/A	mg/L



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Appendix 1: reference to ZDHC WWSG v2.1 Table 4B

Parameters	Total metals and anions threshold values (mg/kg)	Disposal pathways						
		A and B (Leachate result in mg/L)	C (Leachate result in mg/L)	D (Leachate result in mg/L)	E (Leachate result in mg/L)	F (Leachate result in mg/L)	G (Leachate result in mg/L)	G (Total metals limit in mg/kg)
Arsenic	10	Report only if required to test	5	2.75	0.5	0.5	0.5	75
Cadmium	3		1	0.58	0.15	0.15	0.15	85
Total Chromium	100		15	10	5	5	5	3000
Lead	10		5	2.75	0.5	0.5	0.5	840
Antimony	12		15	7.8	0.6	0.6	0.6	Sample and report only
Barium	700		100	67.5	35	35	35	
Cobalt	1600		80	80	80	80	80	Sample and report only
Copper	200		25	17.5	10	10	10	
Nickel	70		20	11.75	3.5	3.5	3.5	420
Selenium	10		1	0.75	0.5	0.5	0.5	100
Silver	100		5	5	5	5	5	Sample and report only
Zinc	1000		250	150	50	50	50	7500
Chromium VI	50		5	3.75	2.5	2.5	2.5	50
Mercury	1		0.2	0.125	0.05	0.05	0.05	57



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Appendix 2: reference to ZDHC WWSG v2.1 Table 4C

Parameters	Disposal pathways							
	A and B	C	D	E	F	G		
pH	Sample and report only	5 – 11 s.u.	5 – 11 s.u.	5 – 11 s.u.	6.5 – 9 s.u.	6.5 – 9 s.u.		
% Solids		Sample and report only	Sample and report only	Sample and report only	Sample and report only	Sample and report only		
Fecal Coliform				Pass Paint filter test			< 1000 (MPN/g)	Sample and report only
Paint Filter Test							Sample and report only	
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers		< 0.4 mg/kg						
Polycyclic Aromatic Hydrocarbons (PAHs)		< 0.2 mg/kg						
Chlorotoluenes								

Appendix 2: reference to ZDHC WWSG v2.1 Table 4D

Parameters	Disposal pathways					
	A and B	C	D	E	F	G
Cyanide	Report only if required to test	100 mg/kg	85 mg/kg	70 mg/kg	70 mg/kg	70 mg/kg



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Photo of sampling points:

Untreated wastewater

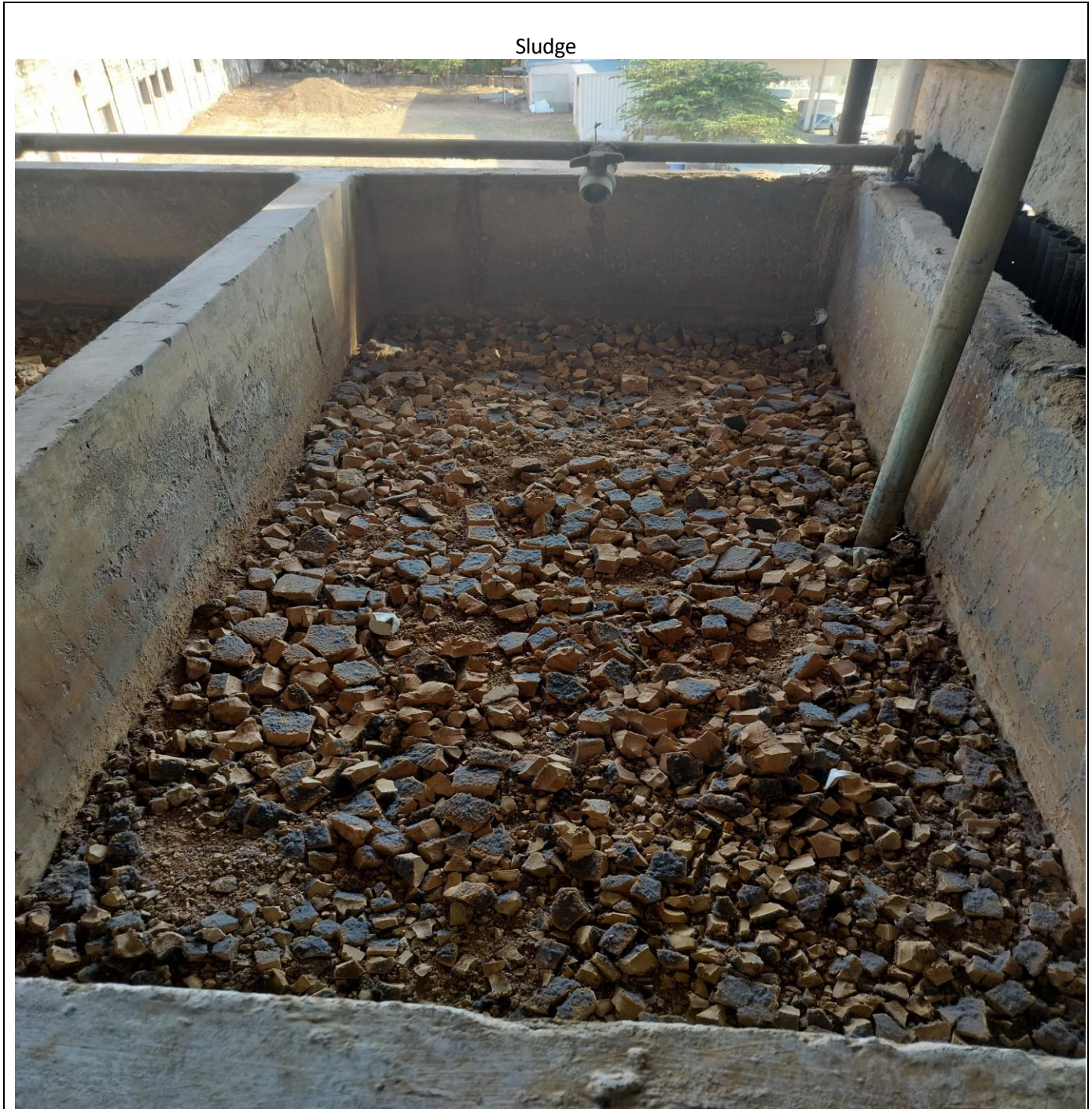


Effluent (After Treatment)



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## SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

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Photo of samples:



# BGLA24004089



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**intertek ZDHC Monitoring**  
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**Sampling Protocol for Wastewater and Sludge acc. ZDHC SAP 2.1 incl. Apdx. E**

Facility Name	EXECUTIVE APPAREL PROCESSORS					
Address and Contact:	NO 114A, 2nd Stage Industrial Suburb, OPP. CMT2 10 <sup>th</sup> KM, Tumkur Road, Yeshwanthpur, Bangalore - 560022					
Facility type : (tick all applicable)	<input type="checkbox"/> Dyeing and Finishing	<input type="checkbox"/> Fabric Mill	<input checked="" type="checkbox"/> Laundry, Washing and Finishing	<input type="checkbox"/> Natural Leather processing	<input type="checkbox"/> Printing	<input type="checkbox"/> Synthetic Leather processing
Date of sampling:	27/04/2024					
Sample General ID (if applicable):	<input checked="" type="checkbox"/> Direct discharge <input type="checkbox"/> Indirect discharge <input type="checkbox"/> Zero Liquid Discharge (ZLD) <input type="checkbox"/> MDCF		<input type="checkbox"/> with pre-treatment <input type="checkbox"/> without treatment <input type="checkbox"/> with own ETP		discharge to:  BWSSB	
Discharge description:	Direct Discharge,					
Weather conditions:	on sampling day:  Good		on day before:  Good			

Fill in all above information as applicable.

<b>Sample Type and Details (see also page 2)</b>						
<input type="checkbox"/> Effluent Discharge	<input checked="" type="checkbox"/> Direct:	or <input type="checkbox"/> Indirect		<input type="checkbox"/> with Homogenisation / Equalisation Tank (HT) present:		
Enter sampling times in Sample Details (page 2), and measure field parameters.		Enter sampling time(s) for indirect discharge. Field parameters are not required, except on client's request.		<input type="checkbox"/> Facility has WWTP <input type="checkbox"/> Plant is in operating condition		Hydraulic Retention Time (HRT): ..... h (= Volume of tank [m <sup>3</sup> ] / Flow rate [m <sup>3</sup> /h]) If HRT > 12h, grab sampling for both untreated and treated wastewater from a point after the HT can be applied.
<input type="checkbox"/> Pre-treated WW without sludge		<input type="checkbox"/> Untreated WW		<input type="checkbox"/> Incoming Water		<input type="checkbox"/> MDCF
<input type="checkbox"/> Sludge with below disposal pathway*:						
<input type="radio"/> A >1000 °C offsite incineration		<input checked="" type="radio"/> B Landfill with significant control		<input type="radio"/> C Building products processed >1000 °C		<input checked="" type="radio"/> D Landfill with limited control
<input type="radio"/> E Incineration / Building products processed <1000 °C		<input type="radio"/> F Landfill with no control		<input type="radio"/> G Land application		age of sludge: 4 days / weeks
* if supplier cannot provide information, pathway "F" shall be assumed.						
Sludge volume generated: ..... Om <sup>3</sup> /h OL/sec <input type="radio"/> other unit (specify): ..... <input type="radio"/> per facility info <input type="radio"/> measured <input type="radio"/> estimated						
<input type="checkbox"/> Process Chemical		<input type="radio"/> liquid <input type="radio"/> solid (powder / granulate / pieces)		<input type="checkbox"/> 'in process'		<input type="checkbox"/> from warehouse/storage

Times of sampling (if applicable)	Untreated:	1	2	3	4	5	6	7	or Grab:	Sludge:
	Effluent (indirect):*	1	2	3	4	5	6	7	or Grab:	
	Incoming:	1	2	3	4	5	6	7	or Grab:	
(for direct discharge, see below)										
Picture ID (or Date & Time / Interval):		GPS coordinates of sampling points:								
		Incoming W.:			Lat.: ON OS			Long.: OE OW		
		Untreated WW:			Lat.: ON OS 13.0306406			Long.: OE OW 77.5325656		
		Effluent:			Lat.: ON OS 13.0306406			Long.: OE OW 77.5325656		
		Sludge:			Lat.: ON OS 13.3061106			Long.: OE OW 77.5325656		





## SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

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Sample Details									
*) Field parameters usually are required <b>only for direct discharge</b> . If client requests also for indirect discharge, use below fields.									
<input checked="" type="checkbox"/> Composite Sample			<input type="checkbox"/> Grab Sample (enter data in column for <b>Averaged Readings</b> and field at right)				Volume of aliquot(s):		
							20000 mL		
Time of discrete effluent sample **	1	2	3	4	5	6	7	Averaged Readings or Grab Sample:	
pH:	10.52	11.52	12.52	1.52	2.52	3.52	4.52	7.2	
Temp. WW discharge	30.1 °C	20.2 °C	31.8 °C	32.3 °C	31.3 °C	32.2 °C	32.3 °C	32 °C	
of receiving water	30.2 °C	29.8 °C	30.7 °C	32.1 °C	31.2 °C	32.1 °C	31.9 °C	31.8 °C	
Flow rate:	5.0 L/s	5.6 L/s	4.9 L/s	5.14 L/s	5.3 L/s	5.6 L/s	5.1 L/s	5.3 m <sup>3</sup> /d avg.	
Dissolved Oxygen:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Total Chlorine:	0 mg/L	0 mg/L	0 mg/L	0 mg/L	0 mg/L	0 mg/L	6 mg/L	0 mg/L	
Persistent foam:	<input type="radio"/> yes <input checked="" type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no		
**) time when discrete sample for composite was taken. Use comment field if number of samples is greater than seven, or if above fields are otherwise not sufficient. Note: 1.0 m <sup>3</sup> /h = 0.27 L/s; 1.0 L/s = 86.4 m <sup>3</sup> /d; 1 m <sup>3</sup> /h = 0.042 m <sup>3</sup> /d; multiply the flow rate in m <sup>3</sup> /h by the daily operation time of the ETP to get flow rate in m <sup>3</sup> /d;									
Sampling procedure: <input type="radio"/> automated sampling <input checked="" type="radio"/> with beaker/bowl <input type="radio"/> other: _____									
Wastewater Flow Data (Effluent/Discharge)									
System:	<input type="checkbox"/> Flow meter (in facility)		<input type="checkbox"/> Pipe (O)		<input type="checkbox"/> Flume (U)		<input type="checkbox"/> Wier (V)		
Diameter [cm]									
Water Depth [cm]									
Flow Speed [cm/sec]									
General Field Parameters and Sensory Data (as far as applicable)									
Type	T ambient air [°C]	Odour	Colour	Foaming	Floating matter				
Incoming				<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no				
Untreated				<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no				
Effluent				<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no				
Field Testing QA/QC									
Parameter	Lab Control Sample target value	Lab Control Sample measured value	Accuracy [%]						
pH									
Total Chlorine									
Other observations:									
Per day untreated water = 1,20,000 lit treated water = 95,000 lit.									
Additional notes (e.g., alternatively measured flow and readings, abbreviations used, etc):									



**SOFTLINES WASTEWATER TESTING  
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**intertek ZDHC Monitoring**

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**ZDHC Wastewater Sampling - Facility Confirmation**

The Wastewater samples have been collected under the facility's normal production scale and wastewater flow rate. The sampler listed below was on-site and collected the samples.

Sampling person (name & email address):

gokulraj.m@intertek.com

Facility Name:

EXECUTIVE APPAREL PROCESSORS

Sampler's ZDHC accreditation no.:

CTAD106817115

Facility's Representative name:

Mallikarjuna

Sampler's Signature:

H. J.

Facility's Representative Signature and Stamp:

For Executive Apparel Processors  
[Signature]  
Authorized Signatory



\*\*\*\*\*

End of report

*This report is made solely on the basis of instructions and/or information and materials supplied by you (the Client), It is not intended to be a recommendation for any specific course of action. Intertek shall not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as that which is expressly contained in the terms and conditions governing the provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent, truthful and careful basis and we do not accept any liability to you for any direct or in-direct loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or willful misconduct.*

