

SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Number: SHAT07610848

Date: May 04, 2023

Factory's name :	HANGZHOU HANGMIN MEISHIDA PRINTING & DYEING CO.LTD
Factory's address :	238#SHENGHONG ROAD, GUALI TOWN, XIAOSHAN DISTRICT,
	HANGZHOU CITY
Type of wastewater discharge :	Indirect discharge
On-site Wastewater treatment plant :	With pretreatment
Average total industrial wastewater	≥ 15m³/day
generated :	
Date and time of the beginning of	21 Apr, 2023 08:55
sampling:	
Date and time of the end of sampling:	21 Apr, 2023 09:25
Date received sample:	21 Apr, 2023 PM
Testing period:	From 21 Apr, 2023 PM to 28 Apr, 2023
Arrival temperature at laboratory:	7.2 °C
Sample type :	
Sample / Untreated wastewater 1	Gray, grab sample at 09:15
(low concentration) :	Sampling location: Latitude 30°11'15"N, Longitude 120°24'44"E
Sample / Untreated wastewater 2	Blue, grab sample at 09:05
(high concentration) :	Sampling location: Latitude 30°11'29"N, Longitude 120°24'12"E
Sample / Effluent :	Yellow, grab sample at 08:55
	Sampling location: Latitude 30°11'0"N, Longitude 120°24'17"E
Sample / Sludge :	Brown, grab sample at 09:25
	Sampling location: Latitude 30°11'42"N, Longitude 120°24'11"E
	Tamping resident Editions So II in the Longitude II o I iI I
Sampling laboratory :	Intertek Testing Services Ltd., Shanghai
Testing laboratory :	Intertek Testing Services Ltd., Shanghai
	J. C.
ZDHC sampler accreditation	C74D106817397
certification number :	

Tests conducted:

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

Prepared And Checked By:

Vina Hu

For Intertek Testing Services Ltd., Shanghai

Nina Hu

Technical Manager

Attention is drawn to the terms and conditions printed overleaf



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Summary of test results:

Wastewater / MRSL - Test items	Untreated Wastewater 1	Untreated Wastewater 2
Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)	ND	ND
Anti-Microbials & Biocides	ND	ND
Chlorinated Parafins	ND	ND
Chlorobenzenes and Chlorotoluenes	ND	ND
Chlorophenols	ND	ND
Dimethyl Formamide (DMFa) (*)	ND	ND
Dyes – Carcinogenic or Equivalent Concern	ND	ND
Dyes – Disperse (Allergenic)	ND	ND
Dyes – Navy Blue Colourant	ND	ND
Flame Retardants	D	ND
Glycols / Glycol Ethers	ND	ND
Halogenated solvents	ND	ND
Organotin compounds	D	ND
Other/Miscellaneous Chemicals	D	ND
Perfluorinated & Polyfluorinated chemicals (PFCs)	D	ND
Phthalates (Ortho-phthalates)	ND	ND
Polycyclic aromatic hydrocarbons (PAHs)	ND	ND
Restricted Aromatic Amines (Cleavable from Azocolourants)	D	D
UV Absorbers	ND	ND
Volatile Organic Compounds (VOC)	ND	ND

Wastewater / Heavy metals - Test items		Effluent		
	Foundational	Progressive	Aspirational	
Chromium (VI)			Meet	
Arsenic			Meet	
Cadmium			Meet	
Lead			Meet	
Mercury			Meet	

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Sludge – Disposal Pathways

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Sludge / Heavy metals - Test items	Sludge (Total)	Sludge (Leachate)
Antimony	Meet	
Arsenic	Meet	
Barium	Meet	
Cadmium	Meet	
Cobalt	Meet	
Copper	Meet	
Lead	Meet	
Nickel	Meet	
Selenium	Meet	
Silver	Meet	
Chromium (total)	Meet	
Zinc	Meet	
Chromium VI	Meet	
Mercury	Meet	

Sludge / Anion - Test items	Sludge
Cyanide	Report only, refer data

Sludge / Conventional parameters - Test items	Sludge
pH	Report only, refer data (f)
% Solids	Report only, refer data
Paint filter test	Report only, refer data
Faecal coliform	Report only, refer data

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Sludge / MRSL - Test items	Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	Report only, refer data
Polycyclic Aromatic Hydrocarbons (PAHs)	Report only, refer data
Chlorotoluenes	Report only, refer data

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Note:				
ND = Not detected (less than reporting limit)				
D = Detected				
N/A = Not applicable	- = Did not perform			
# = No comment	* = See Remark			
(S) = The samples were subcontracted to Intertek [xxxxx] for testing.				
(T) = If sample temperature is greater than 8°C and less than	n 10°C when received from the laboratory.			
$^{(TT)}$ = If sample temperature is exceeded 10°C when receive	d from the laboratory.			
@ = Maximum holding time exceeded.				
(*) = Sample and report for mock leather.				
[f] = On-site test by sampler.				

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SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

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Tests Conducted (As Requested By The Applicant) Sample / Wastewater

Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): Including All Isomers:

NP/OP: With reference to ISO 18857-2 (modified dichloromethane extraction) with GC-MS analysis. OPEO/NPEO (n>2): With reference to ASTM D7742 or ISO 18857-2 with GC-MS and LC-MS-MS analysis.

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



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Tests Conducted (As Requested By The Applicant)

Anti- Microbials & Biocides:

OPP, Triclosan: With reference to US EPA 8270E and BS EN 12673-1999 Solvent extraction, derivatization with

KOH, acetic anhydride followed by GC-MS analysis.

Permethrin: With reference to US EPA 8270E Solvent extraction, followed by GC-MS analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater 1 (µg/L)	Untreated wastewater 2 (µg/L)
o-Phenylphenol (+salts)	90-43-7	100	ND	ND
Triclosan	3380-34-5	100	ND	ND
Permethrin	Multiple	500	ND	ND

Remark: ND = Not detected (less than reporting limit)

Chlorinated Parafins: 3

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.	Reporting limit (µg/L)	Untreated wastewater 1 (µg/L)	Untreated wastewater 2 (µg/L)
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	500	ND	ND
Short-chain Chlorinated paraffin (C10 – C13)	85535-84-8	25	ND	ND



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Tests Conducted (As Requested By The Applicant)

Chlorobenzenes And Chlorotoluenes:

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

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater 1 (µg/L)	Untreated wastewater 2 (µg/L)
1,2-Dichlorobenzene	95-50-1	0.2	ND	ND
Other isomers of mono-, di-, tri-, tetra-, penta- and hexa- Chlorobenzene and mono-, di-, tri-, tetra- and penta- chlorotoluene	Multiple	0.2	ND	ND



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Tests Conducted (As Requested By The Applicant)

Chlorophenols:

With reference to US EPA 8270E and BS EN 12673-1999, Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater 1 (µg/L)	Untreated wastewater 2 (µg/L)
2-Chlorophenol	95-57-8	0.5	ND	ND
3-Chlorophenol	108-43-0	0.5	ND	ND
4-Chlorophenol	106-48-9	0.5	ND	ND
2,3-Dichlorophenol	576-24-9	0.5	ND	ND
2,4-Dichlorophenol	120-83-2	0.5	ND	ND
2,5-Dichlorophenol	583-78-8	0.5	ND	ND
2,6-Dichlorophenol	87-65-0	0.5	ND	ND
3,4-Dichlorophenol	95-77-2	0.5	ND	ND
3,5- Dichlorophenol	591-35-5	0.5	ND	ND
2,3,4-Trichlorophenol	15950-66-0	0.5	ND	ND
2,3,5-Trichlorophenol	933-78-8	0.5	ND	ND
2,3,6-Trichlorophenol	933-75-5	0.5	ND	ND
2,4,5-Trichlorophenol	95-95-4	0.5	ND	ND
2,4,6-Trichlorophenol	88-06-2	0.5	ND	ND
3,4,5-Trichlorophenol	609-19-8	0.5	ND	ND
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	ND	ND
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	ND	ND
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	ND	ND
Pentachlorophenol (PCP)	87-86-5	0.5	ND	ND



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Dimethyl Formamide (DMFa):

With reference to US EPA 8270E.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater 1 (µg/L)	Untreated wastewater 2 (µg/L)
Dimethyl formamide; N,N-dimethylformamide (DMFa) (*)	68-12-2	1000	ND	ND

Remark: ND = Not detected (less than reporting limit)

(*) = Sample and report for mock leather.

7 Dyes – Carcinogenic or Equivalent Concern:

By Liquid extraction, LC-MS-MS analysis.

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



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Tests Conducted (As Requested By The Applicant) Dyes – Disperse (Allergenic):

By Liquid extraction, LC-MS-MS analysis.

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

Remark: ND = Not detected (less than reporting limit)

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Dyes - Navy Blue Colourant:

By Liquid extraction, LC-MS-MS analysis.

Tests Conducted (As Requested By The Applicant)

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater 1 (µg/L)	Untreated wastewater 2 (µg/L)
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	500	ND	ND
Component 2: C46H-30CrN10O20S2 3Na	Not Allocated	500	ND	ND

Remark: ND = Not detected (less than reporting limit)

Flame Retardants:

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

Borate salt: determined as total boron via ICP analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater 1 (µg/L)	Untreated wastewater 2 (µg/L)
2,2-Bis(bromomethyl)-1,3- propanediol (BBMP)	3296-90-0	25	ND	ND
Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9	25	ND	ND
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	ND	ND
Hexabromocyclododecane (HBCDD)	3194-55-6	25	ND	ND
Octabromodiphenyl ehter (OctaBDE)	32536-52-0	25	ND	ND
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	ND	ND
Polybromobiphenyls (PBBs)	59536-65-1	25	ND	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	25	ND	ND
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	ND	ND

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Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater 1 (µg/L)	Untreated wastewater 2 (µg/L)
Tris(1-aziridinyl)phosphine oxide) (TEPA)	545-55-1	25	ND	ND
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	ND	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	ND	ND
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25	ND	ND
Decabromobiphenyl (DecaBB)	13654-09-6	25	ND	ND
Dibromobiphenyls (DiBB)	Multiple	25	ND	ND
Octabromobiphenyls (OctaBB)	Multiple	25	ND	ND
Dibromopropylether	21850-44-2	25	ND	ND
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	ND	ND
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	ND	ND
Monobromobiphenyls (MonoBB)	Multiple	25	ND	ND
Monobromodiphenylethers (MonoBDEs)	Multiple	25	ND	ND
Nonabromobiphenyls (NonaBB)	Multiple	25	ND	ND
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	ND	ND
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	ND	ND
Tribromodiphenylethers (TriBDEs)	Multiple	25	ND	ND
Boric acid **	10043-35-3 11113-50-1	100 in Boron	327	ND
Diboron trioxide **	1303-86-2	100 in Boron	327	ND
Disodium octaborate **	12008-41-2	100 in Boron	327	ND
Disodium tetraborate anhydrous **	1303-96-4 1330-43-4	100 in Boron	327	ND
Tetraboron disodium heptaoxide, hydrate **	12267-73-1	100 in Boron	327	ND

Remark: ND = Not detected (less than reporting limit) ** Report Boron directly, no conversion from Boron salt. SHAT07610848

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Tests Conducted (As Requested By The Applicant)

Glycols / Glycol Ethers:

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

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater 1 (µg/L)	Untreated wastewater 2 (µg/L)
2-ethoxyethanol	110-80-5	50	ND	ND
2-ethoxyethyl acetate	111-15-9	50	ND	ND
2-methoxyethanol	109-86-4	50	ND	ND
2-methoxyethylacetate	110-49-6	50	ND	ND
2-methoxypropylacetate	70657-70-4	50	ND	ND
Bis(2-methoxyethyl)-ether	111-96-6	50	ND	ND
Ethylene glycol dimethyl ether	110-71-4	50	ND	ND
Triethylene glycol dimethyl ether	112-49-2	50	ND	ND

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Remark: ND = Not detected (less than reporting limit)

12 Halogenated Solvents:

With reference to USEPA 8260D, Purge and trap GC-MS analysis.

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



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Tests Conducted (As Requested By The Applicant)

13 Organotin Compounds:

With reference to ISO 17353, Derivatisation with NaB (C2H5)4, with GC-MS analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater 1 (µg/L)	Untreated wastewater 2 (µg/L)
Dipropyltin compounds (DPT)	Multiple	0.01	ND	ND
Mono-, di- and tri-butyltin derivatives	Multiple	0.01	ND	ND
Mono, di-, and tri-methyltin derivatives	Multiple	0.01	0.05	ND
Mono, di-, and tri-octyltin derivatives	Multiple	0.01	ND	ND
Mono, di-, and tri-phenyltin derivatives	Multiple	0.01	ND	ND
Tetrabutyltin compounds (TeBT)	Multiple	0.01	ND	ND
Tripropyltin Compounds (TPT)	Multiple	0.01	ND	ND
Tetraoctyltin compounds (TeOT)	Multiple	0.01	ND	ND
Tricyclohexyltin (TCyHT)	Multiple	0.01	ND	ND
Tetraethyltin Compounds (TeET)	Multiple	0.01	ND	ND

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Remark: ND = Not detected (less than reporting limit)

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.	Reporting limit (µg/L)	Untreated wastewater 1 (µg/L)	Untreated wastewater 2 (µg/L)
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500	ND	ND
Bisphenol A	80-05-7	10	36	ND
Thiourea	62-56-6	50	ND	ND
Quinoline	91-22-5	50	ND	ND
Borate, zinc salt **	12767-90-7	100 in Boron & zinc	Boron: 327 Zinc: 464	Boron: ND zinc: 140

Remark: ND = Not detected (less than reporting limit) ** Report Boron directly, no conversion from Boron salt.

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Tests Conducted (As Requested By The Applicant)

15 Perfluorinated & Polyfluorinated Chemicals (PFCs):

PFCs: With reference to EPA 537:2020 with LC-MSMS.

FTOH: With reference to EPA 8270E, solvent extraction followed by GC-MS.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater 1 (µg/L)	Untreated wastewater 2 (µg/L)
Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA)	Multiple	0.01	0.05	ND
Perfluorooctanoic acid (PFOA) related substances	Multiple	1	ND	ND

Remark: ND = Not detected (less than reporting limit)

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16 Phthalates - Including All Other Esters Of Ortho - Phthalic Acid:

With reference to USEPA 8270E, ISO 18856, Dichloromethane extraction GC-MS analysis.

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

Remark: ND = Not detected (less than reporting limit)

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SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Tests Conducted (As Requested By The Applicant) 17 Polycyclic Aromatic Hydrocarbons (PAHs):

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

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

Remark: ND = Not detected (less than reporting limit)

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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 and ISO 14362-3 (if needed) with GC-MS and LC-MS-MS analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater 1 (µg/L)	Untreated wastewater 2 (µg/L)
2-Naphthylamine	91-59-8	0.1	ND	ND ND
2-Naphthylammoniumacetate	553-00-4	0.1	ND	ND
2,4-Xylidine	95-68-1	0.1	ND	ND
2,4,5-Trimethylaniline	137-17-7	0.1	ND	ND
2,4,5-Trimethylaniline hydrochloride	21436-97-5	0.1	ND	ND
2,6-Xylidine	87-62-7	0.1	ND	ND
3,3'-Dichlorobenzidine	91-94-1	0.1	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	0.1	ND	ND
3,3'-Dimethylbenzidine	119-93-7	0.1	ND	ND
4-Aminoazobenzene	60-09-3	0.1	ND	ND
4-Aminodiphenyl	92-67-1	0.1	ND	ND
4-Chloro-o-toluidine	95-69-2	0.1	ND	ND
4-Chloro-o-toluidinium chloride	3165-93-3	0.1	ND	ND
4-Chloroaniline	106-47-8	0.1	0.3	0.2
4-methoxy-m-phenylene				
diammonium sulphate;	39156-41-7	0.1	ND	ND
2,4-diaminoanisole sulphate				
4-methoxy-m-phenylenediamine	615-05-4	0.1	ND	ND
4-methyl-m-phenylenediamine	95-80-7	0.1	ND	ND
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1	ND	ND
4,4'-methylenedi-o-toluidine	838-88-0	0.1	ND	ND
4,4'-methylenedianiline	101-77-9	0.1	ND	ND
4,4'-Oxydianiline	101-80-4	0.1	ND	ND
4,4'-Thiodianiline	139-65-1	0.1	ND	ND
5-Nitro-o-toluidine	99-55-8	0.1	ND	ND
6-methoxy-m-toluidine	120-71-8	0.1	ND	ND
Benzidine	92-87-5	0.1	ND	ND
o-Aminoazotoluene	97-56-3	0.1	ND	ND
o-Anisidine	90-04-0	0.1	ND	ND
o-Toluidine	95-53-4	0.1	ND	ND



SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Number: SHAT07610848

Tests Conducted (As Requested By The Applicant) 19 UV Absorbers:

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

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater 1 (µg/L)	Untreated wastewater 2 (µg/L)
2-(2H-benzotriazol-2-yl)-4-(tert- butyl)-6-(sec- butyl) phenol (UV-350)	36437-37-3	100	ND	ND
2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)	25973-55-1	100	ND	ND
2-benzotriazol-2-yl-4,6-di- tertbutylphenol (UV-320)	3846-71-7	100	ND	ND
2,4-Di-tert-butyl-6-(5- chlorobenzotriazole-2-yl) phenol (UV- 327)	3864-99-1	100	ND	ND

Remark: ND = Not detected (less than reporting limit)

20 Volatile Organic Compounds (VOCs):

Benzene and Xylene: With reference to US EPA 8260D Purge and trap, GC-MS analysis.

m, o, p-cresol: With reference to US EPA 8270E and BS EN 12673-1999 solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS.

Toluene: With reference to HJ 1067 or EPA 8260D Purge and trap, GC-MS analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater 1 (µg/L)	Untreated wastewater 2 (µg/L)
Benzene	71-43-2	1	ND	ND
m-cresol	108-39-4	1	ND	ND
o-cresol	95-48-7	1	ND	ND
p-cresol	106-44-5	1	ND	ND
Xylene	1330-20-7	1	ND	ND
Toluene (*)	108-88-3	1	ND	ND

Remark: ND = Not detected (less than reporting limit)

(*) = Sample and report for mock leather.



SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

SHAT07610848 Number:

Tests Conducted (As Requested By The Applicant) 21 Heavy Metals:

With reference to HJ 700, GB 7467, HJ 694.

Chemical		Limit		Reporting	Effluent	Unit
substances	Foundational	Progressive	Aspirational	limit (mg/L)		
Chromium (VI)	0.05 mg/L	0.005 mg/L	0.001 mg/L	0.001	ND	mg/L
Arsenic	0.05 mg/L	0.01 mg/L	0.005 mg/L	0.005	ND	mg/L
Cadmium	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01	ND	mg/L
Lead	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01	ND	mg/L
Mercury	0.01 mg/L	0.005 mg/L	0.001 mg/L	0.001	ND	mg/L



SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

SHAT07610848 Number:

Tests Conducted (As Requested By The Applicant) Sample / Sludge

Sludge flux (weight/time) and / or flow data volume/time: N/A

1 Heavy Metals:

Other heavy metals: With reference to HJ 803 with ICP/OES, or ICP-MS analysis.

Chromium VI: With reference to alkaline digestion USEPA 3060a, USEPA 7196 with Colourimetric UV/VIS

analysis.

Mercury: With reference to USEPA 3051a, USEPA 6020b, with ICP-MS analysis.

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

Remark: ND = Not detected (less than reporting limit)

@ = Maximum holding time exceeded.



SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Number:

SHAT07610848

Tests Conducted (As Requested By The Applicant)

Anions:

With reference to HJ745 with Colourimetry analysis.

Chemical substances	Reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Cyanide	20	ND	mg/kg

Remark: ND = Not detected (less than reporting limit)

@ = Maximum holding time exceeded.

3 Conventional Parameters:

Chemical substances	Test method	Reporting limit (Dry weight)	Sludge (Dry weight)	Unit
pН	HJ962	N/A	8.21 (f)	N/A
% Solids	HJ613	N/A	17.9	%
Paint Filter Test^	USEPA 9095B	N/A	Pass	N/A
Fecal Coliform	USEPA 1681	10	44.2	MPN/q

Remark: ND = Not detected (less than reporting limit)

@ = Maximum holding time exceeded.

Attention is drawn to the terms and conditions printed overleaf

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



SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Number: SHAT07610848

Tests Conducted (As Requested By The Applicant)

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

With reference to US EPA 3550, ISO 18857-2, ISO 18254-1, with GC-MS and LC-MS-MS analysis.

Chemical substances	CAS no.	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	ND	mg/kg
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	0.4	ND	mg/kg
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	0.4	ND	mg/kg
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	0.4	ND	mg/kg



SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Number: SHAT07610848

Tests Conducted (As Requested By The Applicant)

Polycyclic Aromatic Hydrocarbons (PAHs):

With reference to US EPA 3550, US EPA 8270E, with GC-MS analysis.

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

Remark: ND = Not detected (less than reporting limit)

Chlorotoluenes: 6

With reference to US EPA 3550, US EPA 8270E with GC-MS analysis.

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



SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Tests Conducted (As Requested By The Applicant) Appendix 1: reference to ZDHC WWSG v2.1 Table 4B

Parameters					Disposal pathy	vavs		
	Total metals and anions threshold values (mg/kg)	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		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
Barium	700	Report	100	67.5	35	35	35	report only
Cobalt	1600	only if	80	80	80	80	80	
Copper	200	required to	25	17.5	10	10	10	4300
Nickel	70	test	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

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

Parameters			Dispo	sal pathways		
	A and B	С	D	E	F	G
pH		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			
Fecal Coliform	Sample	Sample and	тероп опц	report only	< 1000 (MPN/g)	
Paint Filter Test	and report		Pass Paint Hiter test			Sample and report only
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	only	report only		< 0.	4 mg/kg	
Polycyclic Aromatic Hydrocarbons (PAHs) Chlorotoluenes				< 0.	2 mg/kg	

Appendix 3: reference to ZDHC WWSG v2.1 Table 4D

Parameters	iters Disposal pathways						
	A and B	С	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	

SHAT07610848

Number:



SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

SHAT07610848 Number:

Tests Conducted (As Requested By The Applicant)

Photo of sampling points:



Untreated wastewater 1 (low concentration)



Untreated wastewater 1 (low concentration)



Untreated wastewater 2 (high concentration)



Untreated wastewater 2 (high concentration)



SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Number: SHAT07610848

Tests Conducted (As Requested By The Applicant)





SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Number: SHAT07610848

Tests Conducted (As Requested By The Applicant)

Photo of samples:





Untreated wastewater 1 (low concentration)



Untreated wastewater 2 (high concentration)



Effluent

Sludge



SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Number: SHAT07610848

Tests Conducted (As Requested By The Applicant)

Attachment – sampling protocol for wastewater & sludge: intertek 2000 Monitoring Sampling Protocol for Wastewater and Sludge acc. ZDHC SAP 2.1 incl. Apdx. E Customer Facility type & name: VSV2. WE / That BARE Not Copy Growing address: VM126 RAF BAGWID VP. De 2232383 Operator of facility: 4 Page \ Cause of sampling: Date of sampling: □ direct discharge □ without meatment □ Discharge to:
□ indirect discharge □ with pre-treatment
□ Zero Liquid Discharge (ZLD) □ with own ETP Sample General ID 7610848 ☐ MMCF 東山本临江塔松上的T Weather conditions: on sampling day: on day before: BA Sample Type and Details (also see page 2) #Efflower O direct: or Q-indirect

Discharge Enter sampling times in Sample Betails (page 2), and measure field parameters: enter sampling time (s) for indirect discharge. Field parameters are not entered sequest. Mydraulic Retention Time (HRT) (HRT) (HRT) (HRT) (HRT) (Volume of tank [m²] / Flow rate [m²/h])

If HRT > 12h, grab sampling for both untreated and treated wastewater from a point after the HT could be applied. ☐ Untreated Wastewater O per facility O measured O estimated info Sludge volume produced: 4 Om²/h Ot/sec Oother unit (specify): 1/hownnarte/places} ♦ 'in process'
3 4 5 6 ☐ Process Chemical ○ liquid O solid (powder/granulate/pieces) 6 or Grab: 9:05 Untreated 高¹ Wastewater _ Sludge: 4 5 6 or Grab: 9:15 8:15 Times of sampling indirect Discharge: 9:25 3 or Grab: [for direct discharge, see page 2]
Picture ID (or Date & Time / Interval): GPS coordinates of sampling points: Long.: OE OW Long: SE OW 1207412'. Long.: OE OW 120° W/11" -1695 Rev 10b-2 - use with Guideline CS009.TP (Issue 10b) Page 1 of 3 Effective Date: 08-Mar-2023 binistrats, 2023, All Rights Reserved. Intertals is the conser of the copyright in the insterial and intellectual know-how presented. No parts of this material may be reproduced, adapted, or distributed outside of your company without the consent of intertek other than to the extent necessary to view the material.



SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

SHAT07610848 Number:

	d.			oring						
Sample Details Field Composite Sample	parameters usuall	ly are required <u>only</u> Grab Sample	for direct discharg	e. If client reque	ests also for indire Volume of a		use below field	\$.		
		(Use column f	or Averaged Reading	s and fields at rig	hti	, ,	Averaged R	m t		
discrete sample pH:	2	3	4:	5	6		or Grab Sa			
Temp. WW discharge of receiving water	°€ *€	°C °C	*C	°€ *c	*€ *€	*€ *€		°C		
Flow rate:	m³/h	m³/h	m³/h	m³/h	m³/h	m³/h		m³/d avg.		
Dissolved Oxygen:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		mg/L		
Total Chlorine:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		mg/Ł		
Use comment field if number	of samples is greater	than six, or if above		not sufficient.	ез Опо Оу	es Ono				
Sampling technique: O Wastewater Flow Dat			eaker/bowi O	other:						
System:	a (Linuent) bis □ Flow meter		□ Pipe (O)		☐ Flume (U)		□ Wier (V	' }		
Diameter [cm]			/							
Water Depth [cm]							/			
Flow Speed [cm/sec]										
General Field Parame Type Tambient alt [* Incoming		ry Data (as far a	applicable)	Colour		Foemin O yes		ng maller is Ono		
Untreated 🚖 18	1228.			-4 20 20 20	7	O yes	Omo Oye	s Otho		
Effluent / 🎖	え			#		O yes	0 ∕80 0 ye	s 🗸 no		
Field Testing QA/QC				. ,				3		
	ontrol Sample	target value	Lab Control S		ured value		curacy [%]			
pH / Total Chlorine	04 TOUS		Ļ¢	6		į.	00}			

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Additional comments (e.g.	abbreviations	c (// // // ed. alternatively in	22 p shrtj easured flow and r	eadings, etc.)						
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11/1/02										
1401/2										



SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Number: SHAT07610848

Tests Conducted (As Requested By The Applicant) intertek - serbionitaring ZDMC 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): Brus / Some fang @ Weerseb . com Thomas war 247247 Sampler's 20HC accreditation no.: 0740106811397 Sampler's Signature: Muse Rey 10b-2 - use with Guideline C000,TP (Issue 10b) Page 3 of 3

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End of Report

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