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SOFTLINES WASTEWATER TESTING
TEST REPORT

Number: BGDT22048731

Date: 08 / 04 / 2022

Factory:
Factory's name : COMFIT COMPOSITE KNIT LTD.
Address : GORAI, MIRZAPUR, TANGAIL, BANGLADESH
On-site Wastewater treatment plant: Yes
Type of wastewater discharge: Direct Discharge

Date of sampling : 29.03.2022

Sample type:
Sample / Incoming water [Transparent, grab sample at 11:00]
Sample / Wastewater (Treated) [Light Purple, composite sample at 11:45; 12:45; 13:45; 14:45; 15:45; 16:45]
Sample / Raw wastewater [Dark Purple, composite sample at 11:30; 12:30; 13:30; 14:30; 15:30; 16:30]

ZDHC sampler accreditation certification number: 8F146507526
Local legal standard name[a]: The Environment Conservation Rules, 1997; Government of the People's Republic of Bangladesh; Ministry of Environment and Forest
Local legal standard no.[a]: The Environment Conservation Rules, 1997; Government of the People's Republic of Bangladesh; Ministry of Environment and Forest
Parameters (ZDHC WWG V1.1, Table 1A-1B) exceeded local regulation: No Exceeded
Discharge permit provided: Yes
Ambient temperature of receiving water body: [27°C]
Date received/Date test started: 29.03.2022

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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 / Conventional parameters - Test items	Treated Wastewater		
	Foundational	Progressive	Aspirational
Temperature [°C] /△	X		
TSS	X		
COD			X
Total-N			X
pH	7.7		
Colour [m-1]	X		
BOD_5			X
Ammonium-N			X
Total-P	X		
AOX			X
Oil and grease			X

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Phenol	X		
Coliform [bacterial/100 ml]			X
Foam	Not Visible		
Cyanide			X
Sulfide	X		
Sulfite	X		

Wastewater / Heavy metals - Test items	Treated Wastewater		
	Foundational	Progressive	Aspirational
Antimony, Sb			X
Chromium, Cr (total)			X
Cobalt, Co			X
Copper, Cu			X
Nickel, Ni			X
Silver, Ag			X
Zinc, Zn			X
Arsenic, As			X
Cadmium, Cd			X
Chromium (VI), Cr VI			X
Lead, Pb			X
Mercury, Hg			X

Wastewater / Heavy metals - Test items	Raw Wastewater		
	Foundational	Progressive	Aspirational
Antimony, Sb			X
Chromium, Cr (total)			X
Cobalt, Co			X
Copper, Cu			X
Nickel, Ni			X
Silver, Ag			X
Zinc, Zn			X
Arsenic, As			X
Cadmium, Cd			X
Chromium (VI), Cr VI			X
Lead, Pb			X
Mercury, Hg			X

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Incoming Water / Heavy metals - Test items	Incoming Water		
	Foundational	Progressive	Aspirational
Antimony, Sb			X
Chromium, Cr (total)			X
Cobalt, Co			X
Copper, Cu			X
Nickel, Ni			X
Silver, Ag			X
Zinc, Zn			X
Arsenic, As			X
Cadmium, Cd			X
Chromium (VI), Cr VI			X
Lead, Pb			X
Mercury, Hg			X

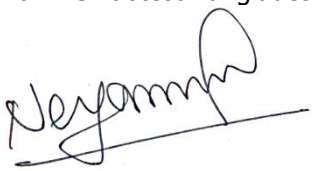
Test items	Incoming Water	Treated Wastewater	Raw Wastewater
Cyanide	N/A	ND	N/A
Sulfide	N/A	D	N/A
Sulfite	N/A	D	N/A
Heavy metals	ND	ND	ND
Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)	ND	ND	ND
Chlorobenzenes and Chlorotoluenes	ND	ND	ND
Chlorophenols	ND	ND	ND
Azo dyes (Forming restricted amines)	ND	ND	ND
Carcinogenic dyes	ND	ND	ND
Disperse dyes	ND	ND	ND
Flame retardants	ND	ND	ND
Glycols	ND	ND	ND
Halogenated solvents	ND	ND	ND
Organotin compounds	ND	ND	ND
Perfluorinated & Polyfluorinated chemicals (PFCs)	ND	ND	ND
Phthalates (Ortho-phthalates)	ND	ND	ND
Polycyclic aromatic hydrocarbons (PAHs)	ND	ND	ND
Volatile organic compounds (VOCs)	ND	ND	ND

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Note :	
ND = Not detected	
D = Detected *[please specify actual result]*	
N/A = Not applicable	- = Did not perform
# = No comment	* = See Remark
@ = Maximum holding time exceeded.	
[a] = 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 ITS Labtest Bangladesh Ltd.



Mohammad Neyamul Hasan
Country Business Line Leader, Softlines

SOFTLINES WASTEWATER TESTING
TEST REPORT

Number: BGDT22048731

Sample /Treated Wastewater

1. Conventional parameters

Parameters	Test method	Limit			Legal* Requirement	Reporting limit	Result
		Foundational	Progressive	Aspirational			
Temperature	GB/T 13195 / EPA 170.1	△15 or 35°C	△10 or 30°C	△5 or 25°C	40°C Summer 45°C Winter	N/A	31°C
TSS	GB/T 11901 / EPA 160.2	50 mg/L	15 mg/L	5 mg/L	150 mg/L	5 mg/L	28 mg/L
COD	HJ 828 / ISO 6060	150 mg/L	80 mg/L	40 mg/L	200 mg/L	16 mg/L	21 mg/L
Total-N	HJ 636 / ISO 5663	20 mg/L	10 mg/L	5 mg/L	100 mg/L	1 mg/L	ND
pH	HJ 1147 / EPA 150.1	6-9	6-9	6-9	6-9	N/A	7.7
Colour [m-1]	ISO 7887-B	7;5;3	5;3;2	2;1;1	N/A	N/A	6.5;4.6;2.7
BOD_5	HJ 505 / APHA 5210	30 mg/L	15 mg/L	5 mg/L	50 mg/L	2.0 mg/L	4 mg/L
Ammonium-N	HJ 535 / ISO 11732	10 mg/L	1 mg/L	0.5 mg/L	50 mg/L	0.2 mg/L	ND
Total-P	GB/T 11893 / ISO 11885	3 mg/L	0.5 mg/L	0.1 mg/L	-	0.04 mg/L	1.37 mg/L
AOX	HJ/T 83 / ISO 9562	5 mg/L	1 mg/L	0.1 mg/L	-	0.06 mg/L	ND
Oil and grease	HJ 637 / ISO 9377-2	10 mg/L	2 mg/L	0.5 mg/L	10 mg/L	0.5 mg/L	ND
Phenol	HJ 503 / ISO 14402	0.5 mg/L	0.01 mg/L	0.001 mg/L	1 mg/L	0.001 mg/L	0.022 mg/L
Coliform [bacterial/ 100 ml]	GB/T 5750.12 / ISO 9308-1	400	100	25	-	2 bacterial/ 100 mL	24
Foam	/	Not visible	Not visible	Not visible	-	N/A	Not Visible
Cyanide	HJ484 / ISO 6703 / ISO 14403	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.1 mg/L	0.02 mg/L	ND
Sulfide	GB/T 16489 / APHA 4500-S2-D	0.5 mg/L	0.05 mg/L	0.01 mg/L	1 mg/L	0.01 mg/L	0.15 mg/L
Sulfite	HJ84 / ISO 10304-3 / USEPA 377.1 SM 4500 SO3	2 mg/L	0.5 mg/L	0.2 mg/L	-	0.2 mg/L	1.8 mg/L

Remark:
ND = Not detected
△ 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.
@ = Maximum holding time exceeded.

2. Heavy metals

With reference to ISO 11885, ISO 18412, ISO 12846, ISO 17852, US EPA 200.7, US EPA 200.8, US EPA 6010c, US EPA 6020a, US EPA 218.6, GB 7467, HJ700, GB7475 and by Inductively Coupled Argon Plasma-Mass Spectrometry (ICP-MS) analysis, or by Colourimetric UV/VIS or Colourimetric IC analysis.

Chemical substances	CAS no.	Limit			Legal * Requirement	Reporting limit	Treated Wastewater (mg/L)
		Foundational	Progressive	Aspirational			
Antimony, Sb	7440-36-0	0.1 mg/L	0.05 mg/L	0.01 mg/L	-	0.001 mg/L	ND
Chromium, Cr (total)	7440-47-3	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.5 mg/L	0.001 mg/L	ND
Cobalt, Co	7440-48-4	0.05 mg/L	0.02 mg/L	0.01 mg/L	-	0.001 mg/L	ND
Copper, Cu	7440-50-8	1 mg/L	0.5 mg/L	0.25 mg/L	0.5 mg/L	0.001 mg/L	ND
Nickel, Ni	7440-02-0	0.2 mg/L	0.1 mg/L	0.05 mg/L	1.0 mg/L	0.001 mg/L	ND
Silver, Ag	7440-22-4	0.1 mg/L	0.05 mg/L	0.005 mg/L	-	0.001 mg/L	ND
Zinc, Zn	7440-66-6	5.0 mg/L	1.0 mg/L	0.5 mg/L	5 mg/L	0.001 mg/L	ND
Arsenic, As	7440-38-2	0.05 mg/L	0.01 mg/L	0.005 mg/L	0.2 mg/L	0.001 mg/L	ND
Cadmium, Cd	7440-43-9	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.5 mg/L	0.0001 mg/L	ND
Chromium (VI), Cr VI	18540-29-9	0.05 mg/L	0.005 mg/L	0.001 mg/L	0.1 mg/L	0.001 mg/L	ND
Lead, Pb	7439-92-1	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.1 mg/L	0.001 mg/L	ND
Mercury, Hg	7439-97-6	0.01 mg/L	0.005 mg/L	0.001 mg/L	0.01 mg/L	0.00005 mg/L	ND

Remark:
ND = Not detected
* Regulation/Standard information for discharged wastewater as well as the limitation value (or contractual limit value agreed by CETP) for the required parameters (mandatory).

3. Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)

With reference to ISO 18857-2/ASTM D7065, ISO 18254-1/2, and by Gas Chromatography-Mass Spectrometry (GC-MS) and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

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

Remark: ND = Not detected

4. Chlorobenzenes and Chlorotoluenes

With reference to US EPA 8260B, US EPA 8270D, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit	Treated Wastewater (µg/L)
Monochlorobenzene	108-90-7	0.2 µg/L	ND
4-Chlorotoluene	106-43-4	0.2 µg/L	ND
1,2-Dichlorobenzene	95-50-1	0.2 µg/L	ND
1,3-Dichlorobenzene	541-73-1	0.2 µg/L	ND
1,4-Dichlorobenzene	106-46-7	0.2 µg/L	ND
1,2,4-Trichlorobenzene	120-82-1	0.2 µg/L	ND
1,2,3-Trichlorobenzene	87-61-6	0.2 µg/L	ND
1,3,5-Trichlorobenzene	108-70-3	0.2 µg/L	ND
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2 µg/L	ND
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2 µg/L	ND
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2 µg/L	ND
Pentachlorobenzene	608-93-5	0.2 µg/L	ND
Hexachlorobenzene	118-74-1	0.2 µg/L	ND

2-Chlorotoluene	95-49-8	0.2 µg/L	ND
3-Chlorotoluene	108-41-8	0.2 µg/L	ND
2,3-Dichlorotoluene	32768-54-0	0.2 µg/L	ND
2,4-Dichlorotoluene	95-73-8	0.2 µg/L	ND
2,5-Dichlorotoluene	19398-61-9	0.2 µg/L	ND
2,6-Dichlorotoluene	118-69-4	0.2 µg/L	ND
3,4-Dichlorotoluene	95-75-0	0.2 µg/L	ND
3,5-Dichlorotoluene	25186-47-4	0.2 µg/L	ND
2,3,4-Trichlorotoluene	7359-72-0	0.2 µg/L	ND
2,3,6-Trichlorotoluene	2077-46-5	0.2 µg/L	ND
2,4,6-Trichlorotoluene	23749-65-7	0.2 µg/L	ND
2,4,5-Trichlorotoluene	6639-30-1	0.2 µg/L	ND
3,4,5-Trichlorotoluene	21472-86-6	0.2 µg/L	ND
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2 µg/L	ND
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2 µg/L	ND
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2 µg/L	ND
Pentachlorotoluene	877-11-2	0.2 µg/L	ND

Remark: ND = Not detected

5. Chlorophenols

With reference to US EPA 8270D and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

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

3,4-Dichlorophenol	95-77-2	0.5 µg/L	ND
3-chlorophenol	108-43-0	0.5 µg/L	ND
4-chlorophenol	106-48-9	0.5 µg/L	ND

Remark: ND = Not detected

6. Azo dyes (Forming restricted amines)

With reference to EN 14362-1/3, and by Gas Chromatographic - Mass Spectrometric (GC-MS) or and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

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

Remark: ND = Not detected

7. Carcinogenic dyes

By Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

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

Remark: ND = Not detected

8. Disperse dyes

By Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

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

Disperse Blue 124	61951-51-7	50 ug/L	ND
Disperse Yellow 9	6373-73-5	50 ug/L	ND
Disperse Orange 3	730-40-5	50 ug/L	ND

Remark: ND = Not detected

9. Flame retardants

With reference to US EPA 8270, ISO 22032, US EPA 527, EPA 8321B, and by Gas Chromatography - Mass Spectrometry (GC-MS) analysis and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

Chemical substances	**CAS no.**	**Reporting limit**	**Treated Wastewater (µg/L)**
Decabromodiphenyl ether (DecaBDE)	1163-19-5	5 µg/L	ND
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	5 µg/L	ND
Octabromodiphenyl ehter (OctaBDE)	32536-52-0	5 µg/L	ND
Tris(1-aziridinyl)phosphine oxide) (TEPA)	545-55-1	5 µg/L	ND
Polybromobiphenyls (PBBs)	59536-65-1	5 µg/L	ND
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	5 µg/L	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	5 µg/L	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	5 µg/L	ND
Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9	5 µg/L	ND
Hexabromocyclododecane (HBCDD)	3194-55-6	5 µg/L	ND
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	5 µg/L	ND
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	5 µg/L	ND
Short-chain chlorinated paraffins (SCCP) (C10-C13)	85535-84-8	5 µg/L	ND

Remark: ND = Not detected

10. Glycols

With reference to US EPA 8270 and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

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

Remark: ND = Not detected

11. Halogenated solvents

With reference to US EPA 8260B, and by Headspace Gas Chromatography Mass Spectrometric (HS-GC/MS) analysis.

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

Remark: ND = Not detected

12. Organotin compounds

With reference to ISO 17353, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit	Treated Wastewater (µg/L)
Mono-, di- and tri-butyltin derivatives	Multiple	0.01 µg/L	ND
Mono, di-, and tri-octyltin derivatives	Multiple	0.01 µg/L	ND
Mono, di-, and tri-methyltin derivatives	Multiple	0.01 µg/L	ND
Mono, di-, and tri-phenyltin derivatives	Multiple	0.01 µg/L	ND

Remark: ND = Not detected

13. Perfluorinated & polyfluorinated chemicals (PFCs)

With reference to DIN 38407-42 (modified), and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis and Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit	Treated Wastewater (µg/L)
PFOA	335-67-1	0.01 µg/L	ND
PFOS	1763-23-1	0.01 µg/L	ND
PFBS	375-73-5; 29420-49-3; 29420-43-3	0.01 µg/L	ND
PFHxA	307-24-4	0.01 µg/L	ND
8:2 FTOH	678-39-7	1 µg/L	ND

6:2 FTOH	647-42-7	1 µg/L	ND

Remark: ND = Not detected

14. Phthalates (Ortho-phthalates)

With reference to US EPA 8270D, ISO 18856 and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

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

Remark: ND = Not detected

15. Polycyclic aromatic hydrocarbons (PAHs)

With reference to US EPA 8270, DIN 38407-39 and by Gas Chromatography - Mass Spectrometry (GC-MS) analysis.

Chemical substances	**CAS no.**	**Reporting limit**	**Treated Wastewater (µg/L)**
Benzo[a]pyrene (BaP)	50-32-8	1 ug/L	ND
Anthracene	120-12-7	1 ug/L	ND
Pyrene	129-00-0	1 ug/L	ND
Benzo[ghi]perylene	191-24-2	1 ug/L	ND
Benzo[e]pyrene	192-97-2	1 ug/L	ND
Indeno[1,2,3-cd]pyrene	193-39-5	1 ug/L	ND
Benzo[j]fluoranthene	205-82-3	1 ug/L	ND

Benzo[b]fluoranthene	205-99-2	1 ug/L	ND
Fluoranthene	206-44-0	1 ug/L	ND
Benzo[k]fluoranthene	207-08-9	1 ug/L	ND
Acenaphthylene	208-96-8	1 ug/L	ND
Chrysene	218-01-9	1 ug/L	ND
Dibenz[a,h]anthracene	53-70-3	1 ug/L	ND
Benzo[a]anthracene	56-55-3	1 ug/L	ND
Acenaphthene	83-32-9	1 ug/L	ND
Phenanthrene	85-01-8	1 ug/L	ND
Fluorene	86-73-7	1 ug/L	ND
Naphthalene	91-20-3	1 ug/L	ND

Remark: ND = Not detected

16. Volatile organic compounds (VOCs)

With reference to ISO 11423-1, and by Headspace Gas Chromatography Mass Spectrometric (HS-GC/MS) analysis.
With reference to US EPA 8270D, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

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

Remark: ND = Not detected

SOFTLINES WASTEWATER TESTING
TEST REPORT

Number: BGDT22048731

Sample /Raw Wastewater

1. Heavy metals

With reference to ISO 11885, ISO 18412, ISO 12846, ISO 17852, US EPA 200.7, US EPA 200.8, US EPA 6010c, US EPA 6020a, US EPA 218.6, GB 7467, HJ700, GB7475 and by Inductively Coupled Argon Plasma-Mass Spectrometry (ICP-MS) analysis, or by Colourimetric UV/VIS or Colourimetric IC analysis.

Chemical substances	CAS no.	Foundational	Progressive	Aspirational	Reporting limit	Raw Wastewater (mg/L)
Antimony, Sb	7440-36-0	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.001 mg/L	ND
Chromium, Cr (total)	7440-47-3	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.001 mg/L	ND
Cobalt, Co	7440-48-4	0.05 mg/L	0.02 mg/L	0.01 mg/L	0.001 mg/L	ND
Copper, Cu	7440-50-8	1 mg/L	0.5 mg/L	0.25 mg/L	0.001 mg/L	ND
Nickel, Ni	7440-02-0	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.001 mg/L	ND
Silver, Ag	7440-22-4	0.1 mg/L	0.05 mg/L	0.005 mg/L	0.001 mg/L	ND
Zinc, Zn	7440-66-6	5.0 mg/L	1.0 mg/L	0.5 mg/L	0.001 mg/L	ND
Arsenic, As	7440-38-2	0.05 mg/L	0.01 mg/L	0.005 mg/L	0.001 mg/L	ND
Cadmium, Cd	7440-43-9	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.0001 mg/L	ND
Chromium (VI), Cr VI	18540-29-9	0.05 mg/L	0.005 mg/L	0.001 mg/L	0.001 mg/L	ND
Lead, Pb	7439-92-1	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.001 mg/L	ND
Mercury, Hg	7439-97-6	0.01 mg/L	0.005 mg/L	0.001 mg/L	0.00005 mg/L	ND

Remark:
ND = Not detected
* Regulation/Standard information for discharged wastewater as well as the limitation value (or contractual limit value agreed by CETP) for the required parameters (mandatory).

2. Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)

With reference to ISO 18857-2/ASTM D7065, ISO 18254-1/2, and by Gas Chromatography-Mass Spectrometry (GC-MS) and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

Chemical substances	CAS no.	Reporting limit	Raw Wastewater (µg/L)
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	5 µg/L	ND
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	5 µg/L	ND

Nonylphenol ethoxylates (NPEO)	9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	5 µg/L	ND
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	5 µg/L	ND

Remark: ND = Not detected

3. Chlorobenzenes and Chlorotoluenes

With reference to US EPA 8260B, US EPA 8270D, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit	Raw Wastewater (µg/L)
Monochlorobenzene	108-90-7	0.2 µg/L	ND
4-Chlorotoluene	106-43-4	0.2 µg/L	ND
1,2-Dichlorobenzene	95-50-1	0.2 µg/L	ND
1,3-Dichlorobenzene	541-73-1	0.2 µg/L	ND
1,4-Dichlorobenzene	106-46-7	0.2 µg/L	ND
1,2,4-Trichlorobenzene	120-82-1	0.2 µg/L	ND
1,2,3-Trichlorobenzene	87-61-6	0.2 µg/L	ND
1,3,5-Trichlorobenzene	108-70-3	0.2 µg/L	ND
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2 µg/L	ND
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2 µg/L	ND
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2 µg/L	ND
Pentachlorobenzene	608-93-5	0.2 µg/L	ND
Hexachlorobenzene	118-74-1	0.2 µg/L	ND
2-Chlorotoluene	95-49-8	0.2 µg/L	ND
3-Chlorotoluene	108-41-8	0.2 µg/L	ND
2,3-Dichlorotoluene	32768-54-0	0.2 µg/L	ND
2,4-Dichlorotoluene	95-73-8	0.2 µg/L	ND
2,5-Dichlorotoluene	19398-61-9	0.2 µg/L	ND
2,6-Dichlorotoluene	118-69-4	0.2 µg/L	ND
3,4-Dichlorotoluene	95-75-0	0.2 µg/L	ND
3,5-Dichlorotoluene	25186-47-4	0.2 µg/L	ND
2,3,4-Trichlorotoluene	7359-72-0	0.2 µg/L	ND
2,3,6-Trichlorotoluene	2077-46-5	0.2 µg/L	ND
2,4,6-Trichlorotoluene	23749-65-7	0.2 µg/L	ND
2,4,5-Trichlorotoluene	6639-30-1	0.2 µg/L	ND
3,4,5-Trichlorotoluene	21472-86-6	0.2 µg/L	ND
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2 µg/L	ND

2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2 µg/L	ND
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2 µg/L	ND
Pentachlorotoluene	877-11-2	0.2 µg/L	ND

Remark: ND = Not detected

4. Chlorophenols

With reference to US EPA 8270D and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

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

Remark: ND = Not detected

5. Azo dyes (Forming restricted amines)

With reference to EN 14362-1/3, and by Gas Chromatographic - Mass Spectrometric (GC-MS) or and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

Chemical substances	CAS no.	Reporting limit	Raw Wastewater (µg/L)
2,4,5-Trimethylaniline	137-17-7	0.1 µg/L	ND
4-methoxy-m-phenylenediamine	615-05-4	0.1 µg/L	ND
4-methyl-m-phenylenediamine	95-80-7	0.1 µg/L	ND
2,4-Xylidine	95-68-1	0.1 µg/L	ND

2,6-Xylidine	87-62-7	0.1 µg/L	ND
2-Naphthylamine	91-59-8	0.1 µg/L	ND
3,3'-Dichlorobenzidine	91-94-1	0.1 µg/L	ND
3,3'-Dimethoxybenzidine	119-90-4	0.1 µg/L	ND
4,4'-methylenedi-o-toluidine	838-88-0	0.1 µg/L	ND
3,3'-Dimethylbenzidine	119-93-7	0.1 µg/L	ND
4,4'-methylenedianiline	101-77-9	0.1 µg/L	ND
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1 µg/L	ND
4,4'-Oxydianiline	101-80-4	0.1 µg/L	ND
4,4'-Thiodianiline	139-65-1	0.1 µg/L	ND
4-Aminodiphenyl	92-67-1	0.1 µg/L	ND
4-Chloroaniline	106-47-8	0.1 µg/L	ND
4-Chloro-o-toluidine	95-69-2	0.1 µg/L	ND
5-Nitro-o-toluidine	99-55-8	0.1 µg/L	ND
4-Aminoazobenzene	60-09-3	0.1 µg/L	ND
Benzidine	92-87-5	0.1 µg/L	ND
o-Aminoazotoluene	97-56-3	0.1 µg/L	ND
o-Anisidine	90-04-0	0.1 µg/L	ND
o-Toluidine	95-53-4	0.1 µg/L	ND
6-methoxy-m-toluidine	120-71-8	0.1 µg/L	ND

Remark: ND = Not detected

6. Carcinogenic dyes

By Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

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

Remark: ND = Not detected

7. Disperse dyes

By Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

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

Remark: ND = Not detected

8. Flame retardants

With reference to US EPA 8270, ISO 22032, US EPA 527, EPA 8321B, and by Gas Chromatography - Mass Spectrometry (GC-MS) analysis and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

Chemical substances	CAS no.	Reporting limit	Raw Wastewater (µg/L)
Decabromodiphenyl ether (DecaBDE)	1163-19-5	5 µg/L	ND
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	5 µg/L	ND
Octabromodiphenyl ehter (OctaBDE)	32536-52-0	5 µg/L	ND
Tris(1-aziridinyl)phosphine oxide) (TEPA)	545-55-1	5 µg/L	ND
Polybromobiphenyls (PBBs)	59536-65-1	5 µg/L	ND
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	5 µg/L	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	5 µg/L	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	5 µg/L	ND
Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9	5 µg/L	ND

Hexabromocyclododecane (HBCDD)	3194-55-6	5 µg/L	ND
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	5 µg/L	ND
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	5 µg/L	ND
Short-chain chlorinated paraffins (SCCP) (C10-C13)	85535-84-8	5 µg/L	ND

Remark: ND = Not detected

9. Glycols

With reference to US EPA 8270 and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

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

Remark: ND = Not detected

10. Halogenated solvents

With reference to US EPA 8260B, and by Headspace Gas Chromatography Mass Spectrometric (HS-GC/MS) analysis.

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

Remark: ND = Not detected

11. Organotin compounds

With reference to ISO 17353, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit	Raw Wastewater (µg/L)
Mono-, di- and tri-butyltin derivatives	Multiple	0.01 µg/L	ND
Mono, di-, and tri-octyltin derivatives	Multiple	0.01 µg/L	ND
Mono, di-, and tri-methyltin derivatives	Multiple	0.01 µg/L	ND
Mono, di-, and tri-phenyltin derivatives	Multiple	0.01 µg/L	ND

Remark: ND = Not detected

12. Perfluorinated & polyfluorinated chemicals (PFCs)

With reference to DIN 38407-42 (modified), and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis and Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit	Raw Wastewater (µg/L)
PFOA	335-67-1	0.01 µg/L	ND
PFOS	1763-23-1	0.01 µg/L	ND
PFBS	375-73-5; 29420-49-3; 29420-43-3	0.01 µg/L	ND
PFHxA	307-24-4	0.01 µg/L	ND
8:2 FTOH	678-39-7	1 µg/L	ND
6:2 FTOH	647-42-7	1 µg/L	ND

Remark: ND = Not detected

13. Phthalates (Ortho-phthalates)

With reference to US EPA 8270D, ISO 18856 and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

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

1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	10 µg/L	ND

Remark: ND = Not detected

14. Polycyclic aromatic hydrocarbons (PAHs)

With reference to US EPA 8270, DIN 38407-39 and by Gas Chromatography - Mass Spectrometry (GC-MS) analysis.

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

Remark: ND = Not detected

15. Volatile organic compounds (VOCs)

With reference to ISO 11423-1, and by Headspace Gas Chromatography Mass Spectrometric (HS-GC/MS) analysis.
With reference to US EPA 8270D, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit	Raw Wastewater (µg/L)
Benzene	71-43-2	1 ug/L	ND
Xylene	1330-20-7	1 ug/L	ND
o-cresol	95-48-7	1 ug/L	ND
p-cresol	106-44-5	1 ug/L	ND
m-cresol	108-39-4	1 ug/L	ND

Remark: ND = Not detected

SOFTLINES WASTEWATER TESTING
TEST REPORT

Number: BGDT22048731

Sample /Incoming Water

1. Heavy metals

With reference to ISO 11885, ISO 18412, ISO 12846, ISO 17852, US EPA 200.7, US EPA 200.8, US EPA 6010c, US EPA 6020a, US EPA 218.6, GB 7467, HJ700, GB7475 and by Inductively Coupled Argon Plasma-Mass Spectrometry (ICP-MS) analysis, or by Colourimetric UV/VIS or Colourimetric IC analysis.

Chemical substances	CAS no.	Foundational	Progressive	Aspirational	Reporting limit	Incoming Water (mg/L)
Antimony, Sb	7440-36-0	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.001 mg/L	ND
Chromium, Cr (total)	7440-47-3	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.001 mg/L	ND
Cobalt, Co	7440-48-4	0.05 mg/L	0.02 mg/L	0.01 mg/L	0.001 mg/L	ND
Copper, Cu	7440-50-8	1 mg/L	0.5 mg/L	0.25 mg/L	0.001 mg/L	ND
Nickel, Ni	7440-02-0	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.001 mg/L	ND
Silver, Ag	7440-22-4	0.1 mg/L	0.05 mg/L	0.005 mg/L	0.001 mg/L	ND
Zinc, Zn	7440-66-6	5.0 mg/L	1.0 mg/L	0.5 mg/L	0.001 mg/L	ND
Arsenic, As	7440-38-2	0.05 mg/L	0.01 mg/L	0.005 mg/L	0.001 mg/L	ND
Cadmium, Cd	7440-43-9	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.0001 mg/L	ND
Chromium (VI), Cr VI	18540-29-9	0.05 mg/L	0.005 mg/L	0.001 mg/L	0.001 mg/L	ND
Lead, Pb	7439-92-1	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.001 mg/L	ND
Mercury, Hg	7439-97-6	0.01 mg/L	0.005 mg/L	0.001 mg/L	0.00005 mg/L	ND

Remark:
ND = Not detected
* Regulation/Standard information for discharged wastewater as well as the limitation value (or contractual limit value agreed by CETP) for the required parameters (mandatory).

2. Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)

With reference to ISO 18857-2/ASTM D7065, ISO 18254-1/2, and by Gas Chromatography-Mass Spectrometry (GC-MS) and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

Chemical substances	CAS no.	Reporting limit	Incoming Water (µg/L)
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	5 µg/L	ND
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	5 µg/L	ND

Nonylphenol ethoxylates (NPEO)	9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	5 µg/L	ND
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	5 µg/L	ND

Remark: ND = Not detected

3. Chlorobenzenes and Chlorotoluenes

With reference to US EPA 8260B, US EPA 8270D, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit	Incoming Water (µg/L)
Monochlorobenzene	108-90-7	0.2 µg/L	ND
4-Chlorotoluene	106-43-4	0.2 µg/L	ND
1,2-Dichlorobenzene	95-50-1	0.2 µg/L	ND
1,3-Dichlorobenzene	541-73-1	0.2 µg/L	ND
1,4-Dichlorobenzene	106-46-7	0.2 µg/L	ND
1,2,4-Trichlorobenzene	120-82-1	0.2 µg/L	ND
1,2,3-Trichlorobenzene	87-61-6	0.2 µg/L	ND
1,3,5-Trichlorobenzene	108-70-3	0.2 µg/L	ND
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2 µg/L	ND
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2 µg/L	ND
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2 µg/L	ND
Pentachlorobenzene	608-93-5	0.2 µg/L	ND
Hexachlorobenzene	118-74-1	0.2 µg/L	ND
2-Chlorotoluene	95-49-8	0.2 µg/L	ND
3-Chlorotoluene	108-41-8	0.2 µg/L	ND
2,3-Dichlorotoluene	32768-54-0	0.2 µg/L	ND
2,4-Dichlorotoluene	95-73-8	0.2 µg/L	ND
2,5-Dichlorotoluene	19398-61-9	0.2 µg/L	ND
2,6-Dichlorotoluene	118-69-4	0.2 µg/L	ND
3,4-Dichlorotoluene	95-75-0	0.2 µg/L	ND
3,5-Dichlorotoluene	25186-47-4	0.2 µg/L	ND
2,3,4-Trichlorotoluene	7359-72-0	0.2 µg/L	ND
2,3,6-Trichlorotoluene	2077-46-5	0.2 µg/L	ND
2,4,6-Trichlorotoluene	23749-65-7	0.2 µg/L	ND
2,4,5-Trichlorotoluene	6639-30-1	0.2 µg/L	ND
3,4,5-Trichlorotoluene	21472-86-6	0.2 µg/L	ND
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2 µg/L	ND

2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2 µg/L	ND
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2 µg/L	ND
Pentachlorotoluene	877-11-2	0.2 µg/L	ND

Remark: ND = Not detected

4. Chlorophenols

With reference to US EPA 8270D and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

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

Remark: ND = Not detected

5. Azo dyes (Forming restricted amines)

With reference to EN 14362-1/3, and by Gas Chromatographic - Mass Spectrometric (GC-MS) or and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

Chemical substances	CAS no.	Reporting limit	Incoming Water (µg/L)
2,4,5-Trimethylaniline	137-17-7	0.1 µg/L	ND
4-methoxy-m-phenylenediamine	615-05-4	0.1 µg/L	ND
4-methyl-m-phenylenediamine	95-80-7	0.1 µg/L	ND
2,4-Xylidine	95-68-1	0.1 µg/L	ND

2,6-Xylidine	87-62-7	0.1 µg/L	ND
2-Naphthylamine	91-59-8	0.1 µg/L	ND
3,3'-Dichlorobenzidine	91-94-1	0.1 µg/L	ND
3,3'-Dimethoxybenzidine	119-90-4	0.1 µg/L	ND
4,4'-methylenedi-o-toluidine	838-88-0	0.1 µg/L	ND
3,3'-Dimethylbenzidine	119-93-7	0.1 µg/L	ND
4,4'-methylenedianiline	101-77-9	0.1 µg/L	ND
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1 µg/L	ND
4,4'-Oxydianiline	101-80-4	0.1 µg/L	ND
4,4'-Thiodianiline	139-65-1	0.1 µg/L	ND
4-Aminodiphenyl	92-67-1	0.1 µg/L	ND
4-Chloroaniline	106-47-8	0.1 µg/L	ND
4-Chloro-o-toluidine	95-69-2	0.1 µg/L	ND
5-Nitro-o-toluidine	99-55-8	0.1 µg/L	ND
4-Aminoazobenzene	60-09-3	0.1 µg/L	ND
Benzidine	92-87-5	0.1 µg/L	ND
o-Aminoazotoluene	97-56-3	0.1 µg/L	ND
o-Anisidine	90-04-0	0.1 µg/L	ND
o-Toluidine	95-53-4	0.1 µg/L	ND
6-methoxy-m-toluidine	120-71-8	0.1 µg/L	ND

Remark: ND = Not detected

6. Carcinogenic dyes

By Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

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

Remark: ND = Not detected

7. Disperse dyes

By Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

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

Remark: ND = Not detected

8. Flame retardants

With reference to US EPA 8270, ISO 22032, US EPA 527, EPA 8321B, and by Gas Chromatography - Mass Spectrometry (GC-MS) analysis and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

Chemical substances	CAS no.	Reporting limit	Incoming Water (µg/L)
Decabromodiphenyl ether (DecaBDE)	1163-19-5	5 µg/L	ND
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	5 µg/L	ND
Octabromodiphenyl ehter (OctaBDE)	32536-52-0	5 µg/L	ND
Tris(1-aziridinyl)phosphine oxide) (TEPA)	545-55-1	5 µg/L	ND
Polybromobiphenyls (PBBs)	59536-65-1	5 µg/L	ND
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	5 µg/L	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	5 µg/L	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	5 µg/L	ND
Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9	5 µg/L	ND

Hexabromocyclododecane (HBCDD)	3194-55-6	5 µg/L	ND
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	5 µg/L	ND
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	5 µg/L	ND
Short-chain chlorinated paraffins (SCCP) (C10-C13)	85535-84-8	5 µg/L	ND

Remark: ND = Not detected

9. Glycols

With reference to US EPA 8270 and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

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

Remark: ND = Not detected

10. Halogenated solvents

With reference to US EPA 8260B, and by Headspace Gas Chromatography Mass Spectrometric (HS-GC/MS) analysis.

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

Remark: ND = Not detected

11. Organotin compounds

With reference to ISO 17353, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit	Incoming Water (µg/L)
Mono-, di- and tri-butyltin derivatives	Multiple	0.01 µg/L	ND
Mono, di-, and tri-octyltin derivatives	Multiple	0.01 µg/L	ND
Mono, di-, and tri-methyltin derivatives	Multiple	0.01 µg/L	ND
Mono, di-, and tri-phenyltin derivatives	Multiple	0.01 µg/L	ND

Remark: ND = Not detected

12. Perfluorinated & polyfluorinated chemicals (PFCs)

With reference to DIN 38407-42 (modified), and Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis and Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit	Incoming Water (µg/L)
PFOA	335-67-1	0.01 µg/L	ND
PFOS	1763-23-1	0.01 µg/L	ND
PFBS	375-73-5; 29420-49-3; 29420-43-3	0.01 µg/L	ND
PFHxA	307-24-4	0.01 µg/L	ND
8:2 FTOH	678-39-7	1 µg/L	ND
6:2 FTOH	647-42-7	1 µg/L	ND

Remark: ND = Not detected

13. Phthalates (Ortho-phthalates)

With reference to US EPA 8270D, ISO 18856 and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

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

1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	10 µg/L	ND

Remark: ND = Not detected

14. Polycyclic aromatic hydrocarbons (PAHs)

With reference to US EPA 8270, DIN 38407-39 and by Gas Chromatography - Mass Spectrometry (GC-MS) analysis.

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

Remark: ND = Not detected

15. Volatile organic compounds (VOCs)

With reference to ISO 11423-1, and by Headspace Gas Chromatography Mass Spectrometric (HS-GC/MS) analysis.
With reference to US EPA 8270D, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit	Incoming Water (µg/L)
Benzene	71-43-2	1 ug/L	ND
Xylene	1330-20-7	1 ug/L	ND
o-cresol	95-48-7	1 ug/L	ND
p-cresol	106-44-5	1 ug/L	ND
m-cresol	108-39-4	1 ug/L	ND

Remark: ND = Not detected

Testing period: From 29 / 03 / 2022 to 08 / 04 / 2022

SOFTLINES WASTEWATER TESTING
TEST REPORT

Number: BGDT22048731

Photo of sampling points:



Sampling point - Incoming Water



Sampling point - Wastewater (Treated)



Sampling point - Raw Wastewater

Photo of samples:


Sample - Incoming Water


Sample - Wastewater (Treated)


Sample - Raw Wastewater

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End of report

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