



SOFTLINES WASTEWATER TESTING
TEST REPORT

Number: TWNC0068140401

Applicant:

Date: Apr 23, 2018

Factory:
Factory's name :
Address :
Date of sampling : Mar 27, 2018

Sample Type:
Sample / Incoming water : Clear, grab at 10:00
Sample / Wastewater before treatment : N/A
Sample / Wastewater after treatment : Brown, Indirect discharge, composite sample at
09:45,10:41,11:44,12:40,13:45,14:42
Sample / Sludge : Dark Brown, grab at 12:00
Date received/Date test started : Mar 23, 2018/Mar 27, 2018

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

Authorized By:
On behalf of Intertek Testing Services
Taiwan Limited

Carol Peng
General Manager



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Intertek Testing Services Taiwan Ltd.
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Summary of test results:

Wastewater / Conventional parameters - Test items ^(S)	Wastewater After Treatment		
	Foundational	Progressive	Aspirational
Temperature [°C]	ND	D	D
TSS	ND	D	D
COD	D	D	D
Total-N	ND	ND	ND
pH	ND	ND	ND
Colour [m-1]	ND	ND	D
BOD ₅	D	D	D
Ammonium-N	ND	ND	ND
Total-P	ND	ND	ND
AOX	ND	ND	D
Oil and grease	ND	D	D
Phenol	D	D	D
Coliform [bacterial/100 ml]	D	D	D
Foam	ND	ND	ND
Cyanide	ND	ND	ND
Sulfide	ND	ND	ND
Sulfite	ND	D	D

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

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

Note :
ND = Not detected or result less than limit
D = Detected or result above <i>limit</i>
N/A = Not applicable
^(S) = The samples were subcontracted to Intertek Vietnam for testing.
= Analysis of incoming water was not done based on applicant's request

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Sample / Wastewater

Sample / Wastewater After Treatment

1. Conventional parameters

Parameters	Test method	Limit			Result
		Foundational	Progressive	Aspirational	
Temperature	GB/T 13195-1991/ EPA 170.1	35°C	30°C	25°C	33.0°C
TSS	GB/T 11901-1989/ EPA 160.2	50 mg/L	15 mg/L	5 mg/L	38.8 mg/L
COD	HJ 828-2017 / ISO 6060	150 mg/L	80 mg/L	40 mg/L	294 mg/L
Total-N	HJ 636-2012 / ISO 5663	20 mg/L	10 mg/L	5 mg/L	4.97 mg/L
pH	GB/T 6920-1986 / EPA 150.1	6-9	6-9	6-9	6.8
Colour [m-1]	ISO 7887-B	7;5;3	5;3;2	2;1;1	4.9; 1.7; 0.9
BOD ₅	HJ 505-2009 / APHA 5210	30 mg/L	15 mg/L	5 mg/L	39.4 mg/L
Ammonium-N	HJ 535-2009 / ISO 11732	10 mg/L	1 mg/L	0.5 mg/L	ND
Total-P	GB/T 11893-1989/ISO 11885	3 mg/L	0.5 mg/L	0.1 mg/L	ND
AOX	HJ/T 83-2001 / ISO 9562	5 mg/L	1 mg/L	0.1 mg/L	0.54 mg/L
Oil and grease	HJ 637-2012 / ISO 9377-2	10 mg/L	2 mg/L	0.5 mg/L	2.34 mg/L
Phenol	HJ 503-2009 / ISO 14402	0.5 mg/L	0.01 mg/L	0.001 mg/L	0.57 mg/L
Coliform [bacterial/100 ml]	GB/T 5750.12-2006/ ISO 9308-1	400	100	25	>1600
Foam	/	Not visible	Not visible	Not visible	Not visible
Cyanide	HJ484-2009/ISO 6703/ ISO 14403	0.2 mg/L	0.1 mg/L	0.05 mg/L	ND
Sulfide	GB/T 16489-1996 / APHA 4500-S2-D	0.5 mg/L	0.05 mg/L	0.01 mg/L	ND
Sulfite	ISO 10304-3 / USEPA 377.1 SM 4500 SO ₃	2 mg/L	0.5 mg/L	0.2 mg/L	1.39 mg/L

Remark: ND = result less than limit

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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 and by Inductively Coupled Argon Plasma-Mass Spectrometry (ICP-MS) analysis.

Chemical substances	CAS no.	Limit			Reporting limit	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	0.8165
Chromium, Cr (total)	7440-47-3	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.001 mg/L	0.0020
Cobalt, Co	7440-48-4	0.05 mg/L	0.02 mg/L	0.01 mg/L	0.001 mg/L	0.0020
Copper, Cu	7440-50-8	1 mg/L	0.5 mg/L	0.25 mg/L	0.001 mg/L	0.0452
Nickel, Ni	7440-02-0	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.001 mg/L	0.0019
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	0.1343
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	0.0049
Mercury, Hg	7439-97-6	0.01 mg/L	0.005 mg/L	0.001 mg/L	0.00005 mg/L	0.00017

Remark: ND = result less than limit

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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	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

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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	Wastewater ($\mu\text{g/L}$)
Monochlorobenzene	108-90-7	0.2 $\mu\text{g/L}$	ND
4-Chlorotoluene	106-43-4	0.2 $\mu\text{g/L}$	ND
1,2-Dichlorobenzene	95-50-1	0.2 $\mu\text{g/L}$	ND
1,3-Dichlorobenzene	541-73-1	0.2 $\mu\text{g/L}$	ND
1,4-Dichlorobenzene	106-46-7	0.2 $\mu\text{g/L}$	ND
1,2,4-Trichlorobenzene	120-82-1	0.2 $\mu\text{g/L}$	ND
1,2,3-Trichlorobenzene	87-61-6	0.2 $\mu\text{g/L}$	ND
1,3,5-Trichlorobenzene	108-70-3	0.2 $\mu\text{g/L}$	ND
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2 $\mu\text{g/L}$	ND
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2 $\mu\text{g/L}$	ND
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2 $\mu\text{g/L}$	ND
Pentachlorobenzene	608-93-5	0.2 $\mu\text{g/L}$	ND
Hexachlorobenzene	118-74-1	0.2 $\mu\text{g/L}$	ND
2-Chlorotoluene	95-49-8	0.2 $\mu\text{g/L}$	ND
3-Chlorotoluene	108-41-8	0.2 $\mu\text{g/L}$	ND
2,3-Dichlorotoluene	32768-54-0	0.2 $\mu\text{g/L}$	ND
2,4-Dichlorotoluene	95-73-8	0.2 $\mu\text{g/L}$	ND
2,5-Dichlorotoluene	19398-61-9	0.2 $\mu\text{g/L}$	ND
2,6-Dichlorotoluene	118-69-4	0.2 $\mu\text{g/L}$	ND
3,4-Dichlorotoluene	95-75-0	0.2 $\mu\text{g/L}$	ND
3,5-Dichlorotoluene	25186-47-4	0.2 $\mu\text{g/L}$	ND
2,3,4-Trichlorotoluene	7359-72-0	0.2 $\mu\text{g/L}$	ND
2,3,6-Trichlorotoluene	2077-46-5	0.2 $\mu\text{g/L}$	ND
2,4,6-Trichlorotoluene	23749-65-7	0.2 $\mu\text{g/L}$	ND
2,4,5-Trichlorotoluene	6639-30-1	0.2 $\mu\text{g/L}$	ND
3,4,5-Trichlorotoluene	21472-86-6	0.2 $\mu\text{g/L}$	ND

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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

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5. Chlorophenols

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

Chemical substances	CAS no.	Reporting limit	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

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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	Wastewater (µg/L)
2,4,5-Trimethylaniline	137-17-7	0.1 µg/L	ND
2,4-Diaminoanisole	615-05-4	0.1 µg/L	ND
2,4-Diaminotoluene	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
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	0.1 µg/L	ND
3,3'-Dimethylbenzidine	119-93-7	0.1 µg/L	ND
4,4'-Diaminodiphenylmethane	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-Aminobiphenyl	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
p-Cresidine	120-71-8	0.1 µg/L	ND

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SOFTLINES WASTEWATER TESTING
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Number: TWNC0068140401

7. Carcinogenic dyes

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

Chemical substances	CAS no.	Reporting limit	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

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8. Disperse dyes

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

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

Remark: ND = Not detected

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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	Wastewater ($\mu\text{g/L}$)
Decabromodiphenyl ether (DecaBDE)	1163-19-5	5 $\mu\text{g/L}$	ND
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	5 $\mu\text{g/L}$	ND
Octabromodiphenyl ether (OctaBDE)	32536-52-0	5 $\mu\text{g/L}$	ND
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	5 $\mu\text{g/L}$	ND
Polybromobiphenyls (PBBs)	59536-65-1	5 $\mu\text{g/L}$	ND
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	5 $\mu\text{g/L}$	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	5 $\mu\text{g/L}$	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	5 $\mu\text{g/L}$	ND
Bis(2,3-dibromopropyl) phosphate	5412-25-9	5 $\mu\text{g/L}$	ND
Hexabromocyclododecane (HBCDD)	3194-55-6	5 $\mu\text{g/L}$	ND
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	5 $\mu\text{g/L}$	ND
Tris(1,3-dichloro-isopropyl) phosphate (TDPCP)	13674-87-8	5 $\mu\text{g/L}$	ND
Short chain chlorinated paraffins (SCCP) (C10-C13)	85535-84-8	5 $\mu\text{g/L}$	ND

Remark: ND = Not detected

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10. Glycols

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

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

Remark: ND = Not detected

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12. Organotin compounds

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

Chemical substances	CAS no.	Reporting limit	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	Wastewater (µg/L)
PFOA	335-67-1	0.01 µg/L	ND
PFOS	355-46-4; 432-50-7	0.01 µg/L	ND
PFBS	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

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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	Wastewater (µg/L)
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	10 µg/L	ND
Butyl benzyl phthalate (BBP)	85-68-7	10 µg/L	ND
Di-n-butyl phthalate (DBP)	84-74-2	10 µg/L	ND
Diethyl phthalate	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	84-75-3	10 µg/L	ND
Dimethoxyethyl 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 linearakyl esters (DHNUP)	68515-42-4	10 µg/L	ND
1,2-benzenedicarboxylic acid, di-C6-11-branched alkyl esters, C7-rich (DIHP)	71888-89-6	10 µg/L	ND

Remark: ND = Not detected

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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	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

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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	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

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Sample / Sludge

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, ISO 14403-1,-2, and by Inductively Coupled Argon Plasma-Mass Spectrometry (ICP-MS) and (UV) analysis.

Chemical substances	CAS no.	Limit	Reporting limit	Sludge (mg/kg)
Lead, Pb	7439-92-1	1 mg/kg	1 mg/kg	4.1
Cadmium, Cd	7440-43-9	1 mg/kg	1 mg/kg	ND
Mercury, Hg	7439-97-6	0.1mg/kg	0.1 mg/kg	1.2
Arsenic, As	7440-38-2	1 mg/kg	1 mg/kg	1.2
Chromium (VI), Cr VI	18540-29-9	1 mg/kg	1 mg/kg	ND
Cyanide	NA	0.5 mg/kg	0.5 mg/kg	ND

Remark: ND = result less than limit

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2. Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)

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

Chemical substances	CAS no.	Reporting limit	Sludge (mg/kg)
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	0.2 mg/kg	ND
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	0.2 mg/kg	ND
Nonylphenol ethoxylates (NPEO)	9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	0.2 mg/kg	ND
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	0.2 mg/kg	ND

Remark: ND = Not detected

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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	Sludge (mg/kg)
Monochlorobenzene	108-90-7	0.1 mg/kg	ND
4-Chlorotoluene	106-43-4	0.1 mg/kg	ND
1,2-Dichlorobenzene	95-50-1	0.1 mg/kg	ND
1,3-Dichlorobenzene	541-73-1	0.1 mg/kg	ND
1,4-Dichlorobenzene	106-46-7	0.1 mg/kg	ND
1,2,4-Trichlorobenzene	120-82-1	0.1 mg/kg	ND
1,2,3-Trichlorobenzene	87-61-6	0.1 mg/kg	ND
1,3,5-Trichlorobenzene	108-70-3	0.1 mg/kg	ND
1,2,3,4-Tetrachlorobenzene	634-66-2	0.1 mg/kg	ND
1,2,3,5-Tetrachlorobenzene	634-90-2	0.1 mg/kg	ND
1,2,4,5-Tetrachlorobenzene	95-94-3	0.1 mg/kg	ND
Pentachlorobenzene	608-93-5	0.1 mg/kg	ND
Hexachlorobenzene	118-74-1	0.1 mg/kg	ND
2-Chlorotoluene	95-49-8	0.1 mg/kg	ND
3-Chlorotoluene	108-41-8	0.1 mg/kg	ND
2,3-Dichlorotoluene	32768-54-0	0.1 mg/kg	ND
2,4-Dichlorotoluene	95-73-8	0.1 mg/kg	ND
2,5-Dichlorotoluene	19398-61-9	0.1 mg/kg	ND
2,6-Dichlorotoluene	118-69-4	0.1 mg/kg	ND
3,4-Dichlorotoluene	95-75-0	0.1 mg/kg	ND
3,5-Dichlorotoluene	25186-47-4	0.1 mg/kg	ND
2,3,4-Trichlorotoluene	7359-72-0	0.1 mg/kg	ND
2,3,6-Trichlorotoluene	2077-46-5	0.1 mg/kg	ND
2,4,6-Trichlorotoluene	23749-65-7	0.1 mg/kg	ND
2,4,5-Trichlorotoluene	6639-30-1	0.1 mg/kg	ND

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3,4,5-Trichlorotoluene	21472-86-6	0.1 mg/kg	ND
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.1 mg/kg	ND
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.1 mg/kg	ND
2,3,4,6-Tetrachlorotoluene	875-40-1	0.1 mg/kg	ND
Pentachlorotoluene	877-11-2	0.1 mg/kg	ND

Remark: ND = Not detected

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4. Chlorophenols

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

Chemical substances	CAS no.	Reporting limit	Sludge (mg/kg)
2-Chlorophenol	95-57-8	0.025 mg/kg	ND
2,4-Dichlorophenol	120-83-2	0.025 mg/kg	ND
2,5-Dichlorophenol	583-78-8	0.025 mg/kg	ND
2,6-Dichlorophenol	87-65-0	0.025 mg/kg	ND
Pentachlorophenol (PCP)	87-86-5	0.025 mg/kg	ND
2,3,4,6-Tetrachlorophenol	58-90-2	0.025 mg/kg	ND
2,4,5-Trichlorophenol	95-95-4	0.025 mg/kg	ND
2,4,6-Trichlorophenol	88-06-2	0.025 mg/kg	ND
2,3,4,5-Tetrachlorophenol	4901-51-3	0.025 mg/kg	ND
2,3,5,6-Tetrachlorophenol	935-95-5	0.025 mg/kg	ND
2,3,6-Trichlorophenol	933-75-5	0.025 mg/kg	ND
2,3,4-Trichlorophenol	15950-66-0	0.025 mg/kg	ND
2,3,5-Trichlorophenol	933-78-8	0.025 mg/kg	ND
3,4,5-Trichlorophenol	609-19-8	0.025 mg/kg	ND
3,5- Dichlorophenol	591-35-5	0.025 mg/kg	ND
2,3-Dichlorophenol	576-24-9	0.025 mg/kg	ND
3,4-Dichlorophenol	95-77-2	0.025 mg/kg	ND
3-chlorophenol	108-43-0	0.025 mg/kg	ND
4-chlorophenol	106-48-9	0.025 mg/kg	ND

Remark: ND = Not detected

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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	Sludge (mg/kg)
2,4,5-Trimethylaniline	137-17-7	0.1 mg/kg	ND
2,4-Diaminoanisole	615-05-4	0.1 mg/kg	ND
2,4-Diaminotoluene	95-80-7	0.1 mg/kg	ND
2,4-Xylidine	95-68-1	0.1 mg/kg	ND
2,6-Xylidine	87-62-7	0.1 mg/kg	ND
2-Naphthylamine	91-59-8	0.1 mg/kg	ND
3,3'-Dichlorobenzidine	91-94-1	0.1 mg/kg	ND
3,3'-Dimethoxybenzidine	119-90-4	0.1 mg/kg	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	0.1 mg/kg	ND
3,3'-Dimethylbenzidine	119-93-7	0.1 mg/kg	ND
4,4'-Diaminodiphenylmethane	101-77-9	0.1 mg/kg	ND
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1 mg/kg	ND
4,4'-Oxydianiline	101-80-4	0.1 mg/kg	ND
4,4'-Thiodianiline	139-65-1	0.1 mg/kg	ND
4-Aminobiphenyl	92-67-1	0.1 mg/kg	ND
4-Chloroaniline	106-47-8	0.1 mg/kg	ND
4-Chloro-o-toluidine	95-69-2	0.1 mg/kg	ND
5-Nitro-o-toluidine	99-55-8	0.1 mg/kg	ND
4-Aminoazobenzene	60-09-3	0.1 mg/kg	ND
Benzidine	92-87-5	0.1 mg/kg	ND
o-Aminoazotoluene	97-56-3	0.1 mg/kg	ND
o-Anisidine	90-04-0	0.1 mg/kg	ND
o-Toluidine	95-53-4	0.1 mg/kg	ND
p-Cresidine	120-71-8	0.1 mg/kg	ND

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SOFTLINES WASTEWATER TESTING
TEST REPORT

Number: TWNC0068140401

Remark: ND = Not detected

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Intertek Testing Services Taiwan Ltd.
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SOFTLINES WASTEWATER TESTING TEST REPORT

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6. Carcinogenic dyes

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

Chemical substances	CAS no.	Reporting limit	Sludge (mg/kg)
C.I. Direct Black 38	1937-37-7	10 mg/kg	ND
C.I. Direct Blue 6	2602-46-2	10 mg/kg	ND
C.I. Acid Red 26	3761-53-3	10 mg/kg	ND
C.I. Basic Red 9	569-61-9	10 mg/kg	ND
C.I. Direct Red 28	573-58-0	10 mg/kg	ND
C.I. Basic Violet 14	632-99-5	10 mg/kg	ND
C.I. Disperse Blue 1	2475-45-8	10 mg/kg	ND
C.I. Disperse Blue 3	2475-46-9	10 mg/kg	ND
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	10 mg/kg	ND
C.I. Basic Green 4 (malachite green chloride)	569-64-2	10 mg/kg	ND
C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	10 mg/kg	ND
C.I. Basic Green 4 (malachite green)	10309-95-2	10 mg/kg	ND
Disperse Orange 11	82-28-0	10 mg/kg	ND

Remark: ND = Not detected

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7. Disperse dyes

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

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

Remark: ND = Not detected

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8. Flame retardants

With reference to US EPA 8270, ISO 22032, US EPA 527, US 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	Sludge (mg/kg)
Decabromodiphenyl ether (DecaBDE)	1163-19-5	1 mg/kg	ND
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	1 mg/kg	ND
Octabromodiphenyl ether (OctaBDE)	32536-52-0	1 mg/kg	ND
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	1 mg/kg	ND
Polybromobiphenyls (PBBs)	59536-65-1	1 mg/kg	ND
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	1 mg/kg	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	1 mg/kg	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	1 mg/kg	ND
Bis(2,3-dibromopropyl) phosphate	5412-25-9	1 mg/kg	ND
Hexabromocyclododecane (HBCDD)	3194-55-6	1 mg/kg	ND
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	1 mg/kg	ND
Tris(1,3-dichloro-isopropyl) phosphate (TDPCP)	13674-87-8	1 mg/kg	ND
Short chain chlorinated paraffins (SCCP) (C10-C13)	85535-84-8	0.5 mg/kg	ND

Remark: ND = Not detected

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SOFTLINES WASTEWATER TESTING
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Number: TWNC0068140401

9. Glycols

With reference to US EPA 8270, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis or Liquid Chromatography-tandem Mass Spectrometry (LC-MS-MS) analysis.

Chemical substances	CAS no.	Reporting limit	Sludge (mg/kg)
Bis(2-methoxyethyl)-ether	111-96-6	5 mg/kg	ND
2-ethoxyethanol	110-80-5	5 mg/kg	ND
2-ethoxyethyl acetate	111-15-9	5 mg/kg	ND
Ethylene glycol dimethyl ether	110-71-4	5 mg/kg	ND
2-methoxyethanol	109-86-4	5 mg/kg	ND
2-methoxyethylacetate	110-49-6	5 mg/kg	ND
2-methoxypropylacetate	70657-70-4	5 mg/kg	ND
Triethylene glycol dimethyl ether	112-49-2	5 mg/kg	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	Sludge (mg/kg)
1,2-Dichloroethane	107-06-2	1 mg/kg	ND
Methylene chloride	75-09-2	1 mg/kg	ND
Tetrachloroethene	127-18-4	1 mg/kg	ND
Trichloroethene	79-01-6	1 mg/kg	ND

Remark: ND = Not detected

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11. Organotin compounds

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

Chemical substances	CAS no.	Reporting limit	Sludge (mg/kg)
Mono-, di- and tri-butyltin derivatives	Multiple	0.1 mg/kg	ND
Mono, di-, and tri-octyltin derivatives	Multiple	0.1 mg/kg	ND
Mono, di-, and tri-methyltin derivatives	Multiple	0.1 mg/kg	ND
Mono, di-, and tri-phenyltin derivatives	Multiple	0.1 mg/kg	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	Sludge (mg/kg)
PFOA	335-67-1	0.05 mg/kg	ND
PFOS	355-46-4; 432-50-7	0.05 mg/kg	ND
PFBS	29420-49-3; 29420-43-3	0.05 mg/kg	ND
PFHxA	307-24-4	0.05 mg/kg	ND
8:2 FTOH	678-39-7	0.5 mg/kg	ND
6:2 FTOH	647-42-7	0.5 mg/kg	ND

Remark: ND = Not detected

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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	Sludge (mg/kg)
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	1 mg/kg	ND
Butyl benzyl phthalate (BBP)	85-68-7	1 mg/kg	ND
Di-n-butyl phthalate (DBP)	84-74-2	1 mg/kg	ND
Diethyl phthalate	84-66-2	1 mg/kg	ND
Di-n-octyl phthalate (DNOP)	117-84-0	1 mg/kg	ND
Di-isononyl phthalate (DINP)	28553-12-0	1 mg/kg	ND
Di-iso-decyl phthalate (DIDP)	26761-40-0	1 mg/kg	ND
Di-isobutyl phthalate (DIBP)	84-69-5	1 mg/kg	ND
Di-n-hexyl phthalate	84-75-3	1 mg/kg	ND
Dimethoxyethyl phthalate (DMEP)	117-82-8	1 mg/kg	ND
Di-n-propyl phthalate (DPRP)	131-16-8	1 mg/kg	ND
Di-iso-octyl phthalate (DIOP)	27554-26-3	1 mg/kg	ND
Di-cyclohexyl phthalate (DCHP)	84-61-7	1 mg/kg	ND
Dinonyl phthalate (DNP)	84-76-4	1 mg/kg	ND
1,2-benzenedicarboxylic acid, di-C7-11-branched and linearakyl esters (DHNUP)	68515-42-4	1 mg/kg	ND
1,2-benzenedicarboxylic acid, di-C6-11-branched alkyl esters, C7-rich (DIHP)	71888-89-6	1 mg/kg	ND

Remark: ND = Not detected

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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	Sludge (mg/kg)
Benzo[a]pyrene (BaP)	50-32-8	1 mg/kg	ND
Anthracene	120-12-7	1 mg/kg	ND
Pyrene	129-00-0	1 mg/kg	ND
Benzo[ghi]perylene	191-24-2	1 mg/kg	ND
Benzo[e]pyrene	192-97-2	1 mg/kg	ND
Indeno[1,2,3-cd]pyrene	193-39-5	1 mg/kg	ND
Benzo[j]fluoranthene	205-82-3	1 mg/kg	ND
Benzo[b]fluoranthene	205-99-2	1 mg/kg	ND
Fluoranthene	206-44-0	1 mg/kg	ND
Benzo[k]fluoranthene	207-08-9	1 mg/kg	ND
Acenaphthylene	208-96-8	1 mg/kg	ND
Chrysene	218-01-9	1 mg/kg	ND
Dibenz[a,h]anthracene	53-70-3	1 mg/kg	ND
Benzo[a]anthracene	56-55-3	1 mg/kg	ND
Acenaphthene	83-32-9	1 mg/kg	ND
Phenanthrene	85-01-8	1 mg/kg	ND
Fluorene	86-73-7	1 mg/kg	ND
Naphthalene	91-20-3	1 mg/kg	ND

Remark: ND = Not detected

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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	Sludge (mg/kg)
Benzene	71-43-2	0.1 mg/kg	ND
Xylene	1330-20-7	0.1 mg/kg	ND
o-cresol	95-48-7	0.1 mg/kg	ND
p-cresol	106-44-5	0.1 mg/kg	ND
m-cresol	108-39-4	0.1 mg/kg	ND

Remark: ND = Not detected

Testing period: From 03 / 27/ 2018 to 04 / 13/ 2018

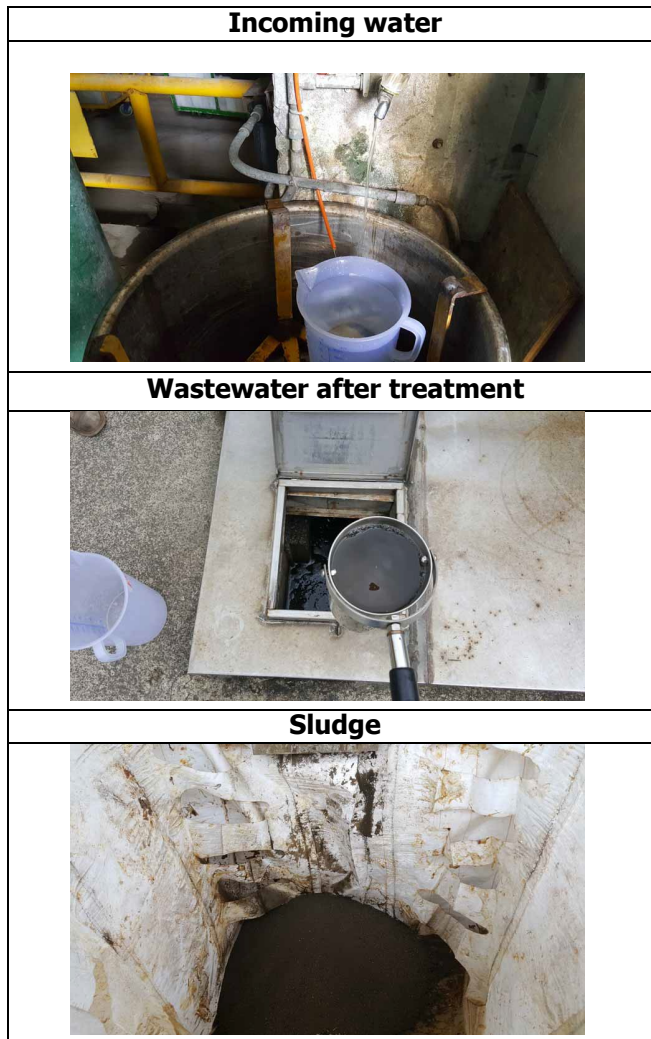
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SOFTLINES WASTEWATER TESTING
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Photo of sampling points:



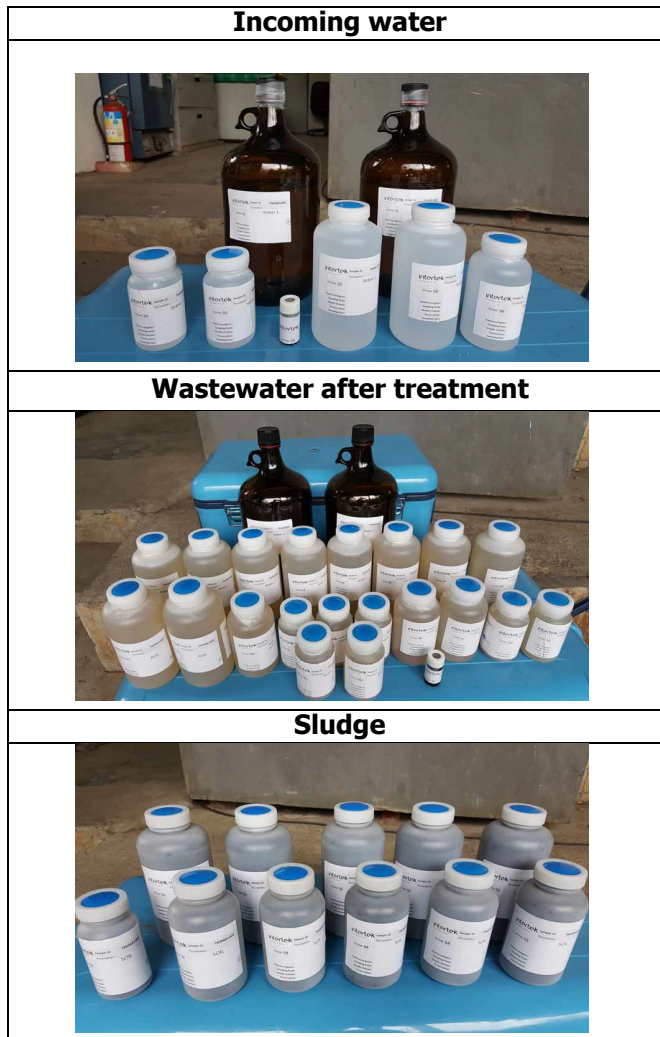
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SOFTLINES WASTEWATER TESTING
TEST REPORT

Number: TWNC0068140401

Photo of samples:



End of report

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SOFTLINES WASTEWATER TESTING TEST REPORT

Number: TWNC0068140401

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