

TEST REPORT

SOFTLINES WASTEWATER TESTING

Number : GZHT02487921

Date : Nov 23, 2021

Factory:

Factory's Name : SHISHI ZHANYAO TEXTILE TECHNOLOGY CO.,LTD
Address : DABAO INDUSTRIAL ZONE, SHISHI CITY, FUJIAN, CHINA
On-site Wastewater treatment plant : Yes
Type of wastewater discharge : Indirect discharge

Date of sampling : Nov 03, 2021

Sample type :
Sample / Wastewater : [Brown/Yellow, composite sample at
(pre-treated/treated) : 10:00,11:00,12:00,13:00,14:00:15:00;16:00]
Sample / Sludge : [Black, grab at 14:20]

ZDHC Sampler Accreditation : 8F146507027
Certification Number :
Local legal standard name^[a] : Discharge standards of water pollutants for dyeing and finishing of
textile industry
Local legal standard no.^[a] : GB4287-2012
Parameters (ZDHC WWG V1.1, Table 1A-1B) exceeded local regulation : --
Discharge permit provided : Yes
Ambient temperature of receiving water body : NA
Date received/Date test started : Nov 05, 2021

Remark: As per requested by SHISHI ZHANYAO TEXTILE TECHNOLOGY CO.,LTD, the treated wastewater was sampled from DW002 discharge port.

Tests conducted:

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

Prepared And Checked By:
For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch



James Ma
Textile lab Senior Manager



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Summary of test results:

Wastewater / Conventional parameters - Test items	Wastewater (Treated)		
	Foundational	Progressive	Aspirational
Temperature [°C] / Δ	X		
TSS	114		
COD	633		
Total-N	23.8		
pH	7.7		
Colour [m-1]	41.5; 14.7; 8.32		
BOD ₅	65.7		
Ammonium-N	X		
Total-P	6.33		
AOX	X		
Oil and grease			X
Phenol	X		
Coliform [bacterial/100 ml]	700@		
Foam	Not visible		
Cyanide			X
Sulfide			X
Sulfite			X

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

Note :

ND = Not detected

D = Detected

N/A = Not applicable

- = Did not perform

= No comment

* = See Remark

[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.

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Tests Conducted (As Requested By The Applicant)

Sample / Wastewater

1 Conventional Parameters:

Parameters	Test method	Limit			Reporting limit	Result
		Foundational	Progressive	Aspirational		Wastewater (Treated)
Temperature	GB/T 13195 / EPA 170.1	△15 or 35°C	△10 or 30°C	△5 or 25°C	N/A	33.2 (°C)
TSS	GB/T 11901 / EPA 160.2	50 mg/L	15 mg/L	5 mg/L	5 mg/L	114 (mg/L)
COD	HJ 828 / ISO 6060	150 mg/L	80 mg/L	40 mg/L	16 mg/L	633 (mg/L)
Total-N	HJ 636 / ISO 5663	20 mg/L	10 mg/L	5 mg/L	1 mg/L	23.8 (mg/L)
pH	HJ 1147 / EPA 150.1	6-9			N/A	7.7
Colour [m-1]	ISO 7887-B	7;5;3	5;3;2	2;1;1	N/A	41.5; 14.7; 8.32
BOD ₅	HJ 505 / APHA 5210	30 mg/L	15 mg/L	5 mg/L	2.0 mg/L	65.7 (mg/L)
Ammonium-N	HJ 535 / ISO 11732	10 mg/L	1 mg/L	0.5 mg/L	0.2 mg/L	8.96 (mg/L)
Total-P	GB/T 11893 / ISO 11885	3 mg/L	0.5 mg/L	0.1 mg/L	0.04 mg/L	6.33 (mg/L)
AOX	HJ/T 83 / ISO 9562	5 mg/L	1 mg/L	0.1 mg/L	0.06 mg/L	1.22 (mg/L)
Oil and grease	HJ 637 / ISO 9377-2	10 mg/L	2 mg/L	0.5 mg/L	0.5 mg/L	ND
Phenol	HJ 503 / ISO 14402	0.5 mg/L	0.01 mg/L	0.001 mg/L	0.001 mg/L	0.0182 (mg/L)
Coliform [bacterial/100 ml]	GB/T 5750.12 / ISO 9308-1	400	100	25	2 bacterial/100 mL	700 (bacterial/100 mL)@
Foam	/	Not visible			N/A	Not visible
Cyanide	HJ484 / ISO 6703 / ISO 14403	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.02 mg/L	ND
Sulfide	GB/T 16489 / APHA 4500-S2-D	0.5 mg/L	0.05 mg/L	0.01 mg/L	0.01 mg/L	ND
Sulfite	HJ84/ISO 10304-3 / USEPA 377.1 SM 4500 SO ₃	2 mg/L	0.5 mg/L	0.2 mg/L	0.2 mg/L	ND

Remark: ND = Not detected

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

@ = Maximum holding time exceeded.

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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, 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			Reporting limit (mg/L)	Wastewater (Treated) (mg/L)
		Foundational (mg/L)	Progressive (mg/L)	Aspirational (mg/L)		
Antimony, Sb	7440-36-0	0.1	0.05	0.01	0.001	0.001
Chromium, Cr (total)	7440-47-3	0.2	0.1	0.05	0.001	0.037
Cobalt, Co	7440-48-4	0.05	0.02	0.01	0.001	0.002
Copper, Cu	7440-50-8	1.0	0.5	0.25	0.001	0.019
Nickel, Ni	7440-02-0	0.2	0.1	0.05	0.001	0.014
Silver, Ag	7440-22-4	0.1	0.05	0.005	0.001	ND
Zinc, Zn	7440-66-6	5.0	1.0	0.5	0.001	0.017
Arsenic, As	7440-38-2	0.05	0.01	0.005	0.001	0.003
Cadmium, Cd	7440-43-9	0.1	0.05	0.01	0.0001	ND
Chromium (VI), Cr VI	18540-29-9	0.05	0.005	0.001	0.001	ND
Lead, Pb	7439-92-1	0.1	0.05	0.01	0.001	0.002
Mercury, Hg	7439-97-6	0.01	0.005	0.001	0.00005	ND

Remark : ND = Not detected

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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 (µg/L)	Wastewater (Treated) (µg/L)
Nonylphenol(NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	5.0	ND
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	5.0	ND
Nonylphenol ethoxylates (NPEO)	9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	5.0	ND
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	5.0	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 (µg/L)	Wastewater (Treated) (µg/L)
Monochlorobenzene	108-90-7	0.2	ND
1,2-Dichlorobenzene	95-50-1	0.2	ND
1,3-Dichlorobenzene	541-73-1	0.2	ND
1,4-Dichlorobenzene	106-46-7	0.2	ND
1,2,4-Trichlorobenzene	120-82-1	0.2	ND
1,2,3-Trichlorobenzene	87-61-6	0.2	ND
1,3,5-Trichlorobenzene	108-70-3	0.2	ND
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	ND
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2	ND
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	ND
Pentachlorobenzene	608-93-5	0.2	ND
Hexachlorobenzene	118-74-1	0.2	ND
2-Chlorotoluene	95-49-8	0.2	ND
3-Chlorotoluene	108-41-8	0.2	ND
4-Chlorotoluene	106-43-4	0.2	ND
2,3-Dichlorotoluene	32768-54-0	0.2	ND
3,4-Dichlorotoluene	95-75-0	0.2	ND
2,4-Dichlorotoluene	95-73-8	0.2	ND
2,5-Dichlorotoluene	19398-61-9	0.2	ND
2,6-Dichlorotoluene	118-69-4	0.2	ND
3,5-Dichlorotoluene	25186-47-4	0.2	ND
2,3,4-Trichlorotoluene	7359-72-0	0.2	ND
2,3,6-Trichlorotoluene	2077-46-5	0.2	ND
3,4,5-Trichlorotoluene	21472-86-6	0.2	ND
2,4,5-Trichlorotoluene	6639-30-1	0.2	ND
2,4,6-Trichlorotoluene	23749-65-7	0.2	ND
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	ND
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	ND
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	ND
Pentachlorotoluene	877-11-2	0.2	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 (µg/L)	Wastewater (Treated) (µg/L)
2-Chlorophenol	95-57-8	0.5	ND
2,4-Dichlorophenol	120-83-2	0.5	ND
2,5-Dichlorophenol	583-78-8	0.5	ND
2,6-Dichlorophenol	87-65-0	0.5	ND
Pentachlorophenol (PCP)	87-86-5	0.5	ND
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	ND
2,4,5-Trichlorophenol	95-95-4	0.5	ND
2,4,6-Trichlorophenol	88-06-2	0.5	ND
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	ND
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	ND
2,3,6-Trichlorophenol	933-75-5	0.5	ND
2,3,4-Trichlorophenol	15950-66-0	0.5	ND
2,3,5-Trichlorophenol	933-78-8	0.5	ND
3,4,5-Trichlorophenol	609-19-8	0.5	ND
3,5- Dichlorophenol	591-35-5	0.5	ND
2,3-Dichlorophenol	576-24-9	0.5	ND
3,4-Dichlorophenol	95-77-2	0.5	ND
3-chlorophenol	108-43-0	0.5	ND
4-chlorophenol	106-48-9	0.5	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 (µg/L)	Wastewater (Treated) (µg/L)
2,4,5-Trimethylaniline	137-17-7	0.1	ND
4-methoxy-m-phenylenediamine	615-05-4	0.1	ND
4-methyl-m-phenylenediamine	95-80-7	0.1	ND
2,4-Xylidine	95-68-1	0.1	ND
2,6-Xylidine	87-62-7	0.1	ND
2-Naphthylamine	91-59-8	0.1	ND
3,3'-Dichlorobenzidine	91-94-1	0.1	0.5
3,3'-Dimethoxybenzidine	119-90-4	0.1	ND
4,4'-methylenedi-o-toluidine	838-88-0	0.1	ND
3,3'-Dimethylbenzidine	119-93-7	0.1	ND
4,4'-methylenedianiline	101-77-9	0.1	ND
4,4'-Methylene-bis (2-chloroaniline)	101-14-4	0.1	ND
4,4'-Oxydianiline	101-80-4	0.1	ND
4,4'-Thiodianiline	139-65-1	0.1	ND
4-Aminodiphenyl	92-67-1	0.1	ND
4-Chloroaniline	106-47-8	0.1	1.1
4-Chloro-o-toluidine	95-69-2	0.1	ND
5-Nitro-o-toluidine	99-55-8	0.1	ND
4-Aminoazobenzene	60-09-3	0.1	ND
Benzidine	92-87-5	0.1	ND
o-Aminoazotoluene	97-56-3	0.1	ND
o-Anisidine	90-04-0	0.1	ND
o-Toluidine	95-53-4	0.1	ND
6-methoxy-m-toluidine	120-71-8	0.1	ND

Remark : ND = Not detected

The Result Of p-Aminoazobenzene Shown For Wastewater Treated Was Analysed And Confirmed By European Standard EN 14362-3: 2012

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7 Carcinogenic dyes:

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

Chemical Substances	CAS No.	Reporting Limit (µg/L)	Wastewater (Treated) (µg/L)
C.I. Direct Black 38	1937-37-7	500	ND
C.I. Direct Blue 6	2602-46-2	500	ND
C.I. Acid Red 26	3761-53-3	500	ND
C.I. Basic Red 9	569-61-9	500	ND
C.I. Direct Red 28	573-58-0	500	ND
C.I. Basic Violet 14	632-99-5	500	ND
C.I. Disperse Blue 1	2475-45-8	500	ND
C.I. Disperse Blue 3	2475-46-9	500	ND
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	500	ND
C.I. Basic Green 4 (malachite green chloride)	569-64-2	500	ND
C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	500	ND
C.I. Basic Green 4 (malachite green)	10309-95-2	500	ND
Disperse Orange 11	82-28-0	500	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 (µg/L)	Wastewater (Treated) (µg/L)
Disperse Yellow 1	119-15-3	50	ND
Disperse Blue 102	12222-97-8	50	ND
Disperse Blue 106	12223-01-7	50	ND
Disperse Yellow 39	12236-29-2	50	ND
Disperse Orange 37/59/76	13301-61-6	50	ND
Disperse Brown 1	23355-64-8	50	ND
Disperse Orange 1	2581-69-3	50	ND
Disperse Yellow 3	2832-40-8	50	ND
Disperse Red 11	2872-48-2	50	ND
Disperse Red 1	2872-52-8	50	ND
Disperse Red 17	3179-89-3	50	ND
Disperse Blue 7	3179-90-6	50	ND
Disperse Blue 26	3860-63-7	50	ND
Disperse Yellow 49	54824-37-2	50	ND
Disperse Blue 35	12222-75-2 56524-77-7	50	ND
Disperse Blue 124	61951-51-7	50	ND
Disperse Yellow 9	6373-73-5	50	ND
Disperse Orange 3	730-40-5	50	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 (µg/L)	Wastewater (Treated) (µg/L)
Decabromodiphenyl ether (DecaBDE)	1163-19-5	5.0	ND
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	5.0	ND
Octabromodiphenylether (OctaBDE)	32536-52-0	5.0	ND
Tris(1-aziridiny) phosphine oxide (TEPA)	545-55-1	5.0	ND
Polybromobiphenyls (PBBs)	59536-65-1	5.0	ND
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	5.0	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	5.0	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	5.0	ND
Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9	5.0	ND
Hexabromocyclododecane (HBCDD)	3194-55-6	5.0	ND
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	5.0	ND
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	5.0	ND
Short-chain chlorinated paraffins (SCCP) (C10-C13)	85535-84-8	5.0	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 (µg/L)	Wastewater (Treated) (µg/L)
Bis(2-methoxyethyl)-ether	111-96-6	50	ND
2-ethoxyethanol	110-80-5	50	ND
2-ethoxyethyl acetate	111-15-9	50	ND
Ethylene glycol dimethyl ether	110-71-4	50	ND
2-methoxyethanol	109-86-4	50	ND
2-methoxyethylacetate	110-49-6	50	ND
2-methoxypropylacetate	70657-70-4	50	ND
Triethylene glycol dimethyl ether	112-49-2	50	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 (µg/L)	Wastewater (Treated) (µg/L)
1,2-Dichloroethane	107-06-2	1.0	ND
Methylene chloride	75-09-2	1.0	ND
Tetrachloroethylene	127-18-4	1.0	ND
Trichloroethylene	79-01-6	1.0	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 (µg/L)	Wastewater (Treated) (µg/L)
Mono-, di- and tri-butyltin derivatives	Multiple	0.01	ND
Mono, di-, and tri-octyltin derivatives	Multiple	0.01	ND
Mono, di-, and tri-methyltin derivatives	Multiple	0.01	ND
Mono, di-, and tri-phenyltin derivatives	Multiple	0.01	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 (µg/L)	Wastewater (Treated) (µg/L)
PFOA	335-67-1	0.01	ND
PFOS	1763-23-1	0.01	ND
PFBS	375-73-5; 29420-49-3; 29420-43-3	0.01	ND
PFHxA	307-24-4	0.01	ND
8:2 FTOH	678-39-7	1.0	ND
6:2 FTOH	647-42-7	1.0	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 (µg/L)	Wastewater (Treated) (µg/L)
Di(ethylhexyl) phthalate (DEHP)	117-81-7	10	ND
Butyl benzyl phthalate (BBP)	85-68-7	10	ND
Dibutyl phthalate (DBP)	84-74-2	10	ND
Diethyl phthalate (DEP)	84-66-2	10	ND
Di-n-octyl phthalate (DNOP)	117-84-0	10	ND
Di-isononyl phthalate (DINP)	28553-12-0	10	ND
Di-iso-decyl phthalate (DIDP)	26761-40-0	10	ND
Di-isobutyl phthalate (DIBP)	84-69-5	10	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	10	ND
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	10	ND
Di-n-propyl phthalate (DPRP)	131-16-8	10	ND
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	ND
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	ND
Dinonyl phthalate (DNP)	84-76-4	10	ND
1,2-benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters (DHNUP)	68515-42-4	10	ND
1,2-benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich (DIHP)	71888-89-6	10	ND

Remark : ND = Not detected

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Tests Conducted (As Requested By The Applicant)

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 (µg/L)	Wastewater (Treated) (µg/L)
Benzo[a]pyrene (BaP)	50-32-8	1.0	ND
Anthracene	120-12-7	1.0	ND
Pyrene	129-00-0	1.0	ND
Benzo[ghi]perylene	191-24-2	1.0	ND
Benzo[e]pyrene	192-97-2	1.0	ND
Indeno[1,2,3-cd]pyrene	193-39-5	1.0	ND
Benzo[j]fluoranthene	205-82-3	1.0	ND
Benzo[b]fluoranthene	205-99-2	1.0	ND
Fluoranthene	206-44-0	1.0	ND
Benzo[k]fluoranthene	207-08-9	1.0	ND
Acenaphthylene	208-96-8	1.0	ND
Chrysene	218-01-9	1.0	ND
Dibenz[a,h]anthracene	53-70-3	1.0	ND
Benzo[a]anthracene	56-55-3	1.0	ND
Acenaphthene	83-32-9	1.0	ND
Phenanthrene	85-01-8	1.0	ND
Fluorene	86-73-7	1.0	ND
Naphthalene	91-20-3	1.0	ND

Remark : ND = Not detected

TEST REPORT

SOFTLINES WASTEWATER TESTING

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Tests Conducted (As Requested By The Applicant)

16 Volatile Organic Compounds (VOCs):

With reference to ISO 11423-1 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 (µg/L)	Wastewater (Treated) (µg/L)
Benzene	71-43-2	1.0	ND
Xylene	1330-20-7	1.0	ND
o-cresol	95-48-7	1.0	ND
p-cresol	106-44-5	1.0	ND
m-cresol	108-39-4	1.0	ND

Remark : ND = Not detected

Sample / Sludge

The moisture percentage of the sludge is 71.8%(w/w)

17 Heavy Metals:

Other heavy metals: With reference to US EPA 3050, US EPA 6010D, US EPA 6020B, US EPA 7471B, US EPA 3051A, and by Inductively Coupled Argon Plasma-Mass Spectrometry (ICP-MS).
Chromium (VI): With reference to US EPA 3060A, US EPA 7196, US EPA 7199, and by Colourimetric UV/VIS or Colourimetric IC analysis.
Cyanide: With reference to US EPA 9013, US EPA 9014, US EPA 9213, ISO 11262, HJ 745, and by Colourimetry or ISE analysis.

Chemical substances	CAS no.	Reporting limit (Dry weight) mg/kg	Sludge (Dry weight) mg/kg
Lead, Pb	7439-92-1	2.0	22.7
Cadmium, Cd	7440-43-9	2.0	ND
Mercury, Hg	7439-97-6	0.2	ND
Arsenic, As	7440-38-2	2.0	8.9
Chromium (VI), Cr VI	18540-29-9	2.0	ND
Cyanide	NA	1.0	ND

Remark : ND = Not detected

TEST REPORT

SOFTLINES WASTEWATER TESTING

Number : GZHT02487921

Tests Conducted (As Requested By The Applicant)

18 Alkylphenol ethoxylates / Alkylphenols (APEOs/APs):

With reference to US EPA 3540/3541, US EPA 3550, US EPA 3560, 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 (Dry weight) mg/kg	Sludge (Dry weight) mg/kg
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	0.4	2.1
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	0.4	ND
Nonylphenol ethoxylates (NPEO)	9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	0.4	ND
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	0.4	ND

Remark : ND = Not detected

TEST REPORT

SOFTLINES WASTEWATER TESTING

Number : GZHT02487921

Tests Conducted (As Requested By The Applicant)

19 Chlorobenzenes And Chlorotoluenes:

With reference to US EPA 3540/3541, US EPA 3550, US EPA 3560, US EPA 3650, US EPA 8270, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Dry weight) mg/kg	Sludge (Dry weight) mg/kg
Monochlorobenzene	108-90-7	0.2	ND
1,2-Dichlorobenzene	95-50-1	0.2	ND
1,3-Dichlorobenzene	541-73-1	0.2	ND
1,4-Dichlorobenzene	106-46-7	0.2	ND
1,2,4-Trichlorobenzene	120-82-1	0.2	ND
1,2,3-Trichlorobenzene	87-61-6	0.2	ND
1,3,5-Trichlorobenzene	108-70-3	0.2	ND
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	ND
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2	ND
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	ND
Pentachlorobenzene	608-93-5	0.2	ND
Hexachlorobenzene	118-74-1	0.2	ND
2-Chlorotoluene	95-49-8	0.2	ND
3-Chlorotoluene	108-41-8	0.2	ND
4-Chlorotoluene	106-43-4	0.2	ND
2,3-Dichlorotoluene	32768-54-0	0.2	ND
3,4-Dichlorotoluene	95-75-0	0.2	ND
2,4-Dichlorotoluene	95-73-8	0.2	ND
2,5-Dichlorotoluene	19398-61-9	0.2	ND
2,6-Dichlorotoluene	118-69-4	0.2	ND
3,5-Dichlorotoluene	25186-47-4	0.2	ND
2,3,4-Trichlorotoluene	7359-72-0	0.2	ND
2,3,6-Trichlorotoluene	2077-46-5	0.2	ND
3,4,5-Trichlorotoluene	21472-86-6	0.2	ND
2,4,5-Trichlorotoluene	6639-30-1	0.2	ND
2,4,6-Trichlorotoluene	23749-65-7	0.2	ND
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	ND
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	ND
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	ND
Pentachlorotoluene	877-11-2	0.2	ND

Remark : ND = Not detected

TEST REPORT

SOFTLINES WASTEWATER TESTING

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Tests Conducted (As Requested By The Applicant)

20 Chlorophenols:

With reference to ISO 14154, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Dry weight) mg/kg	Sludge (Dry weight) mg/kg
2-Chlorophenol	95-57-8	0.05	ND
2,4-Dichlorophenol	120-83-2	0.05	ND
2,5-Dichlorophenol	583-78-8	0.05	ND
2,6-Dichlorophenol	87-65-0	0.05	ND
Pentachlorophenol (PCP)	87-86-5	0.05	ND
2,3,4,6-Tetrachlorophenol	58-90-2	0.05	ND
2,4,5-Trichlorophenol	95-95-4	0.05	ND
2,4,6-Trichlorophenol	88-06-2	0.05	ND
2,3,4,5-Tetrachlorophenol	4901-51-3	0.05	ND
2,3,5,6-Tetrachlorophenol	935-95-5	0.05	ND
2,3,6-Trichlorophenol	933-75-5	0.05	ND
2,3,4-Trichlorophenol	15950-66-0	0.05	ND
2,3,5-Trichlorophenol	933-78-8	0.05	ND
3,4,5-Trichlorophenol	609-19-8	0.05	ND
3,5- Dichlorophenol	591-35-5	0.05	ND
2,3-Dichlorophenol	576-24-9	0.05	ND
3,4-Dichlorophenol	95-77-2	0.05	ND
3-chlorophenol	108-43-0	0.05	ND
4-chlorophenol	106-48-9	0.05	ND

Remark : ND = Not detected

TEST REPORT

SOFTLINES WASTEWATER TESTING

Number : GZHT02487921

Tests Conducted (As Requested By The Applicant)

21 Azo Dyes (Forming Restricted Amines):

With reference to ISO 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 (Dry weight) mg/kg	Sludge (Dry weight) mg/kg
2,4,5-Trimethylaniline	137-17-7	0.2	ND
4-methoxy-m-phenylenediamine	615-05-4	0.2	ND
4-methyl-m-phenylenediamine	95-80-7	0.2	ND
2,4-Xylidine	95-68-1	0.2	ND
2,6-Xylidine	87-62-7	0.2	ND
2-Naphthylamine	91-59-8	0.2	ND
3,3'-Dichlorobenzidine	91-94-1	0.2	ND
3,3'-Dimethoxybenzidine	119-90-4	0.2	ND
4,4'-methylenedi-o-toluidine	838-88-0	0.2	ND
3,3'-Dimethylbenzidine	119-93-7	0.2	ND
4,4'-methylenedianiline	101-77-9	0.2	ND
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.2	ND
4,4'-Oxydianiline	101-80-4	0.2	ND
4,4'-Thiodianiline	139-65-1	0.2	ND
4-Aminodiphenyl	92-67-1	0.2	ND
4-Chloroaniline	106-47-8	0.2	ND
4-Chloro-o-toluidine	95-69-2	0.2	ND
5-Nitro-o-toluidine	99-55-8	0.2	ND
4-Aminoazobenzene	60-09-3	0.2	ND
Benzidine	92-87-5	0.2	ND
o-Aminoazotoluene	97-56-3	0.2	ND
o-Anisidine	90-04-0	0.2	ND
o-Toluidine	95-53-4	0.2	ND
6-methoxy-m-toluidine	120-71-8	0.2	ND

Remark : ND = Not detected

TEST REPORT

SOFTLINES WASTEWATER TESTING

Number : GZHT02487921

Tests Conducted (As Requested By The Applicant)

22 Carcinogenic dyes:

With reference to ISO 16373, and by Liquid Chromatography-tandem Mass Spectrometry (LC-MS/MS) analysis.

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

Remark : ND = Not detected

TEST REPORT**SOFTLINES WASTEWATER TESTING**

Number : GZHT02487921

Tests Conducted (As Requested By The Applicant)

23 Disperse dyes:

With reference to ISO 16373, and by Liquid Chromatography-tandem Mass Spectrometry (LC-MS/MS) analysis.

Chemical substances	CAS no.	Reporting limit (Dry weight) mg/kg	Sludge (Dry weight) mg/kg
Disperse Yellow 1	119-15-3	2.0	ND
Disperse Blue 102	12222-97-8	2.0	ND
Disperse Blue 106	12223-01-7	2.0	ND
Disperse Yellow 39	12236-29-2	2.0	ND
Disperse Orange 37/59/76	13301-61-6	2.0	ND
Disperse Brown 1	23355-64-8	2.0	ND
Disperse Orange 1	2581-69-3	2.0	ND
Disperse Yellow 3	2832-40-8	2.0	ND
Disperse Red 11	2872-48-2	2.0	ND
Disperse Red 1	2872-52-8	2.0	ND
Disperse Red 17	3179-89-3	2.0	ND
Disperse Blue 7	3179-90-6	2.0	ND
Disperse Blue 26	3860-63-7	2.0	ND
Disperse Yellow 49	54824-37-2	2.0	ND
Disperse Blue 35	12222-75-2 56524-77-7	2.0	ND
Disperse Blue 124	61951-51-7	2.0	ND
Disperse Yellow 9	6373-73-5	2.0	ND
Disperse Orange 3	730-40-5	2.0	ND

Remark : ND = Not detected

TEST REPORT

SOFTLINES WASTEWATER TESTING

Number : GZHT02487921

Tests Conducted (As Requested By The Applicant)

24 Flame Retardants:

With reference to ISO 22032, 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 (Dry weight) mg/kg	Sludge (Dry weight) mg/kg
Decabromodiphenyl ether (DecaBDE)	1163-19-5	1.0	ND
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	1.0	ND
Octabromodiphenyl ether (OctaBDE)	32536-52-0	1.0	ND
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	1.0	ND
Polybromobiphenyls (PBBs)	59536-65-1	1.0	ND
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	1.0	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	1.0	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	1.0	ND
Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9	1.0	ND
Hexabromocyclododecane (HBCDD)	3194-55-6	1.0	ND
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	1.0	ND
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	1.0	ND
Short-chain chlorinated paraffins (SCCP) (C10-C13)	85535-84-8	1.0	ND

Remark : ND = Not detected

TEST REPORT

SOFTLINES WASTEWATER TESTING

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Tests Conducted (As Requested By The Applicant)

25 Glycols:

With reference to US EPA 8270D, ISO 22892, 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 (Dry weight) mg/kg	Sludge (Dry weight) mg/kg
Bis(2-methoxyethyl)-ether	111-96-6	10	ND
2-ethoxyethanol	110-80-5	10	ND
2-ethoxyethyl acetate	111-15-9	10	ND
Ethylene glycol dimethyl ether	110-71-4	10	ND
2-methoxyethanol	109-86-4	10	ND
2-methoxyethylacetate	110-49-6	10	ND
2-methoxypropylacetate	70657-70-4	10	ND
Triethylene glycol dimethyl ether	112-49-2	10	ND

Remark : ND = Not detected

26 Halogenated Solvents:

With reference to US EPA 5035, US EPA 50211, US EPA 8010, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Dry weight) mg/kg	Sludge (Dry weight) mg/kg
1,2-Dichloroethane	107-06-2	2.0	ND
Methylene chloride	75-09-2	2.0	ND
Tetrachloroethylene	127-18-4	2.0	ND
Trichloroethylene	79-01-6	2.0	ND

Remark : ND = Not detected

TEST REPORT

SOFTLINES WASTEWATER TESTING

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Tests Conducted (As Requested By The Applicant)

27 Organotin Compounds:

With reference to ISO 23161, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Dry weight) mg/kg	Sludge (Dry weight) mg/kg
Mono-, di- and tri-butyltin derivatives	Multiple	0.2	ND
Mono, di-, and tri-octyltin derivatives	Multiple	0.2	ND
Mono, di-, and tri-methyltin derivatives	Multiple	0.2	ND
Mono, di-, and tri-phenyltin derivatives	Multiple	0.2	ND

Remark : ND = Not detected

28 Perfluorinated & Polyfluorinated Chemicals (PFCs):

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

Chemical substances	CAS no.	Reporting limit (Dry weight) mg/kg	Sludge (Dry weight) mg/kg
PFOA	335-67-1	0.10	ND
PFOS	1763-23-1	0.10	ND
PFBS	375-73-5; 29420-49-3; 29420-43-3	0.10	ND
PFHxA	307-24-4	0.10	ND
8:2 FTOH	678-39-7	1.0	ND
6:2 FTOH	647-42-7	1.0	ND

Remark : ND = Not detected

TEST REPORT

SOFTLINES WASTEWATER TESTING

Number : GZHT02487921

Tests Conducted (As Requested By The Applicant)

29 Phthalates (Ortho-phthalates):

With reference to US EPA 3540/3541, US EPA 3550, US EPA 3560, ISO 18856, and by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Dry weight) mg/kg	Sludge (Dry weight) mg/kg
Di(ethylhexyl) phthalate (DEHP)	117-81-7	2.0	ND
Butyl benzyl phthalate (BBP)	85-68-7	2.0	ND
Dibutyl phthalate (DBP)	84-74-2	2.0	ND
Diethyl phthalate (DEP)	84-66-2	2.0	ND
Di-n-octyl phthalate (DNOP)	117-84-0	2.0	ND
Di-isononyl phthalate (DINP)	28553-12-0	2.0	ND
Di-iso-decyl phthalate (DIDP)	26761-40-0	2.0	ND
Di-isobutyl phthalate (DIBP)	84-69-5	2.0	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	2.0	ND
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	2.0	ND
Di-n-propyl phthalate (DPRP)	131-16-8	2.0	ND
Di-iso-octyl phthalate (DIOP)	27554-26-3	2.0	ND
Di-cyclohexyl phthalate (DCHP)	84-61-7	2.0	ND
Dinonyl phthalate (DNP)	84-76-4	2.0	ND
1,2-benzenedicarboxylic acid, di- C7-11- branched and linear alkyl esters (DHNUP)	68515-42-4	2.0	ND
1,2-benzenedicarboxylic acid, di- C6-8- branched alkyl esters, C7- rich (DIHP)	71888-89-6	2.0	ND

Remark : ND = Not detected

TEST REPORT

SOFTLINES WASTEWATER TESTING

Number : GZHT02487921

Tests Conducted (As Requested By The Applicant)

30 Polycyclic Aromatic Hydrocarbons (PAHs):

With reference to US EPA 3540/3541, US EPA 3550, US EPA 3560, US EPA 3650, US EPA 8270, and by Gas Chromatography - Mass Spectrometry (GC-MS) analysis.

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

Remark : ND = Not detected

TEST REPORT**SOFTLINES WASTEWATER TESTING**

Number : GZHT02487921

Tests Conducted (As Requested By The Applicant)

31 Volatile Organic Compounds (VOCs):

With reference to US EPA 5035, 5021, 8260, DIN 38407-43 by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Chemical substances	CAS no.	Reporting limit (Dry weight) mg/kg	Sludge (Dry weight) mg/kg
Benzene	71-43-2	2.0	ND
Xylene	1330-20-7	2.0	ND
o-cresol	95-48-7	2.0	ND
p-cresol	106-44-5	2.0	ND
m-cresol	108-39-4	2.0	ND

Remark : ND = Not detected

Testing period: From Nov 05, 2021 to Nov 19, 2021.

TEST REPORT

SOFTLINES WASTEWATER TESTING

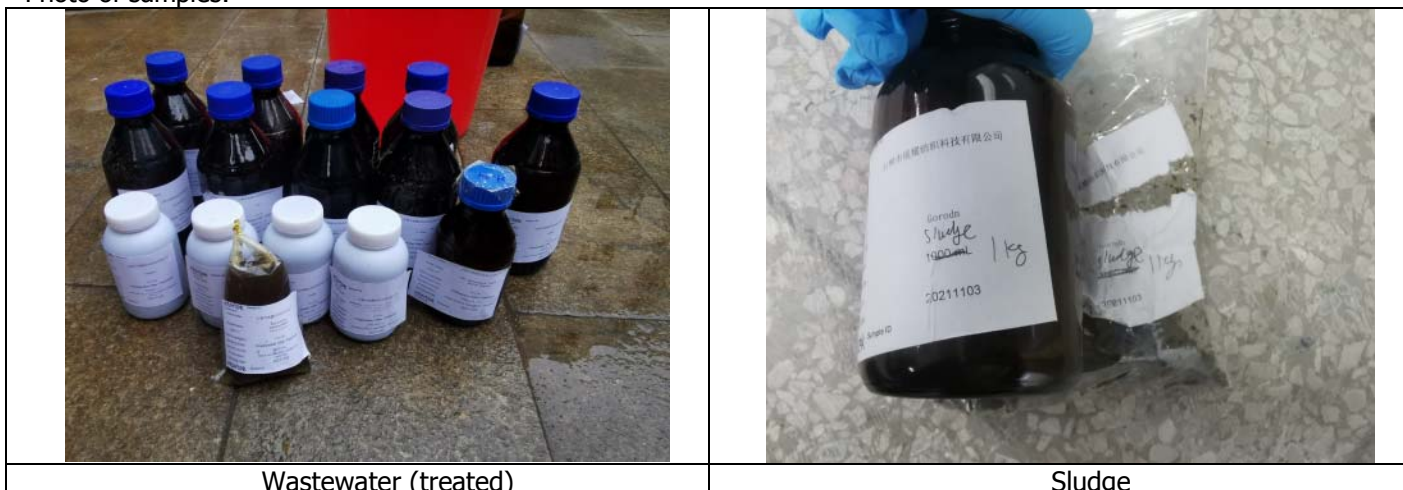
Number : GZHT02487921

Tests Conducted (As Requested By The Applicant)

Photo of sampling points:



Photo of samples:



All tests were conducted at Intertek Testing Services Shenzhen Ltd.

End of Report

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