

Date of sampling	09/02/2023
Reporting date	17/02/2023

Audit ID	130616	Audit firm	SGS Guangzhou
Company name	Changle Linkfine Dyeing and Finishing Co.,LTD.		
Contact person	Zheng Weicong		
Type of tax – tax ID no	91350182726475881G		
Address	No.234 Junming Road, BinHai Industry Park, Songxia Town, Changle District, Fuzhou City, Fujian Province, China		
Region state province	Fujian		
Town city / village	Fuzhou		
Zip / Post code	350200		

Type of wastewater discharge	
Type of waste discharge	Indirect Discharge
Description of the discharge	Discharge to Centralized Waste Water Treatment Plant: Fuzhou Hengyou Water Service Co., Ltd Address: Fuzhou Binhai Industrial Zone, Changle District, Fuzhou, Fujian Province
[If direct discharge] Temperature of receiving water body:	Not applicable

Type of sludge disposal pathway	
Type of sludge disposal pathway	Pathway E

Sampler accreditation certification number (ZDHC):	C74D106818068 / C74D106818114
Sampling affiliate	SGS Guangzhou

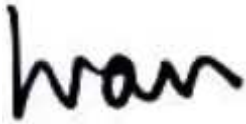
Sample description			
	Simple	Composite	Comments
(1) Untreated wastewater	Reddish-brown, grab sample at 10:00	-	pH: 7.9 Temperature: 15.8 °C
(2) Effluent	Colorless, grab sample at 10:20	-	pH: 8.1 Temperature: 16.1 °C
(3) Sludge	Black, grab sample at 10:40	-	-
(4) Leachate	YES	-	-



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Internal description – Final Test Report	
Testing laboratory	SGS Guangzhou
Internal codification number (report number)	SL92309251378401TX
Reference sample number (sample ID)	92309251378401-1, 92309251378401-2, 92309251378401-3
Received on	10/02/2023
Analysis carried out from	11/02/2023 to 17/02/2023
Arrival temperature at lab	7.6 °C
Comments	Samples received within 48 hours, Max. Holding Time of pH and fecal coliform of Sludge were exceeded.
Reporting date	17/02/2023

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Ivan Xie (Technical Manager)



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Summary of test results				
Test items	Untreated wastewater	Effluent	Sludge	Leachate
Conventional Parameters and Anions	-	Please refer to the information in TEST RESULTS	Please refer to the information in TEST RESULTS@	-
Heavy Metals	-	Fulfill aspirational limit	Please refer to the information in TEST RESULTS	ND
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	ND	-	ND	-
Anti- Microbials & Biocides	ND	-	-	-
Chlorinated Parafins	ND	-	-	-
Chlorobenzenes & Chlorotoluenes	ND	-	ND	-
Chlorophenols	ND	-	-	-
N,N-di-methylformamide (DMFa)	ND	-	-	-
Dyes – Carcinogenic or Equivalent Concern	ND	-	-	-
Dyes – Disperse (Allergenic)	ND	-	-	-
Dyes – Navy Blue Colourant	ND	-	-	-
Flame Retardants	ND	-	-	-
Glycols / Glycol Ethers	ND	-	-	-
Halogenated Solvents	ND	-	-	-
Organotin Compounds	ND	-	-	-
Other / Miscellaneous Chemicals	ND	-	-	-
Perfluorinated and Polyfluorinated Chemicals (PFCs)	ND	-	-	-
Phthalates – including all other esters of ortho-phthalic acid	ND	-	-	-
Polycyclic Aromatic Hydrocarbons (PAHs)	ND	-	ND	-
Restricted Aromatic Amines (Cleavable from Azo-colourants)	ND	-	-	-
UV Absorbers	ND	-	-	-
VOCs	ND	-	-	-

Remark (Indicated in each parameter)

- ND = Not detected
- D = Detected
- NA = Not applicable
- = Not required to be tested
- @ = Maximum holding time exceeded

Test results



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Wastewater

1. Conventional Parameters and Anions

Test Items	Test method	Limit			Reporting Limit	Result		Unit
		Foundational	Progressive	Aspirational		Untreated wastewater	Effluent	
Wastewater Flowrate	-		-		NA	-	2773	m ³ /day

Remark

NA = Not applicable

- = Not required to be tested

*= Test data is measured by the client

2. Heavy Metals

Cr (VI): ISO 18412, USEPA 218.6, GB 7467 or IS 3025 (Part 52)

As: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, HJ 700 or IS 3025 (Part 65)

Cd: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 7475, HJ 700, IS 3025 (Part 65) or IS 3025 (Part 41) – AAS instrumental method

Pb: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 7475, HJ 700, IS 3025 (Part 65) or IS 3025 (Part 47) – AAS instrumental method

Zn: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 7472, GB 7475, HJ 700, IS 3025 (Part 65) or IS 3025 (Part 49) – AAS instrumental method

Hg: ISO 17294, USEPA 200.8 – SIM, USEPA 245.1, USEPA 245.7, USEPA 6020 A – SIM, HJ 597, HJ 694, IS 3025 (Part 48) – Cold vapour AAS only or IS 3025 (Part 65) – SI

B: ISO 17294, USEPA 6010 C, USEPA 6020 A, HJ 700 or IS 3025 (Part 65)

Test items	CAS no.	Limit			Reporting Limit	Result		Unit
		Foundational	Progressive	Aspirational		Untreated wastewater	Effluent	
Arsenic (As)	Various	Textile and Leather: 0.05	Textile and Leather: 0.01	Textile and Leather: 0.005	0.005	-	ND	mg/L
Cadmium (Cd)	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.01	0.01	-	ND	mg/L
Mercury (Hg)	Various	Textile and Leather: 0.01	Textile and Leather: 0.005	Textile and Leather: 0.001	0.001	-	ND	mg/L
Lead (Pb)	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.01	0.01	-	ND	mg/L
Zinc (Zn)	Various	Textile and Leather: 5	Textile and Leather: 1	Textile and Leather: 0.5	0.1	ND	-	mg/L
Chromium VI (Cr VI)	Various	Textile: 0.05 Leather: 0.15	Textile: 0.005 Leather: 0.05	Textile: 0.001 Leather: 0.02	0.001	-	ND	mg/L
Boron (B)	Various		-		0.1	ND	-	mg/L



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3. Alkylphenol (AP) & Alkylphenol Ethoxylates (APEOs): including all isomers

NP/OP: With reference to ISO 18857-2 (Modified dichloromethane extraction) or ASTM D7065 (GC-MS or LC-MS(-MS))

NPEO / OPEO: With reference to ISO 18857-2 or ASTM D7742

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result		Unit
			Untreated wastewater	Effluent	
Octylphenol (OP)	140-66-9/ 1806-26-4/ 27193-28-8	5	ND	-	µg/L
Nonylphenol (NP)	104-40-5/ 11066-49-2/ 25154- 52- 3/84852-15-3	5	ND	-	µg/L
Octylphenoethoxylates (OPEOs)	9002-93-1/9036-19-5/68987-90- 6	5	ND	-	µg/L
Nonylphenoethoxylates (NPEOs)	9016-45-9/26027-38-3/ 37205- 87- 1/68412-54-4/127087-87-0	5	ND	-	µg/L

4. Anti- Microbials & Biocides

o-Phenylphenol (+salts): With reference to BS EN 12673-1999, USEPA 8270 E or Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS

Triclosan: With reference to BS EN 12673-1999, USEPA 8270 E or Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS

Permethrin: With reference to ISO 14154:2005, USEPA 8270 E, Solvent extraction followed by GC-MS or An alternative method, without derivatization and determination by LC-MS / LC-MS/MS

Test items	CAS no.	Reporting Limit (Textile)	Result		Unit
			Untreated wastewater	Effluent	
o-Phenylphenol (+salts)	90-43-7	100	ND	-	µg/L
Triclosan	3380-34-5	100	ND	-	µg/L
Permethrin	Various	500	ND	-	µg/L



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5. Chlorinated Paraffins

MCCPs: Preparation: With reference to USEPA 3510. Analysis: With reference to ISO 18219-2:2021 or Method for MCCP with GC-MS(NCI) or LC-MS/MS.

SCCPs: Preparation: With reference to USEPA 3510. Analysis: With reference to ISO 12010:2019, ISO 18219-1:2021 or Method for SCCP with GC-MS(NCI) or LC-MS/MS

Test items	CAS no.	Reporting Limit (Textile)	Result		Unit
			Untreated wastewater	Effluent	
Short chain chlorinated paraffins (C10-C13)	85535-84-8	5	ND	-	µg/L
Medium-chain Chlorinated Paraffins (MCCPs) (C14-C17)	85535-85-9	5	ND	-	µg/L

6. Chlorobenzenes & Chlorotoluenes

With reference to USEPA 8260 D, USEPA 8270 E, Purge and Trap, Headspace or Dichloromethane extraction followed by GC-MS

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result		Unit
			Untreated wastewater	Effluent	
Monochlorobenzenes	108-90-7	0.2	ND	-	µg/L
1,2-Dichlorobenzene	95-50-1	0.2	ND	-	µg/L
1,3-Dichlorobenzene	541-73-1	0.2	ND	-	µg/L
1,4-Dichlorobenzene	106-46-7	0.2	ND	-	µg/L
1,2,3-Trichlorobenzene	87-61-6	0.2	ND	-	µg/L
1,2,4-Trichlorobenzene	120-82-1	0.2	ND	-	µg/L
1,3,5-Trichlorobenzene	108-70-3	0.2	ND	-	µg/L
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	ND	-	µg/L
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2	ND	-	µg/L
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	ND	-	µg/L
Pentachlorobenzene	608-93-5	0.2	ND	-	µg/L
Hexachlorobenzene	118-74-1	0.2	ND	-	µg/L
2-Chlorotoluene	95-49-8	0.2	ND	-	µg/L
3-Chlorotoluene	108-41-8	0.2	ND	-	µg/L
4-Chlorotoluene	106-43-4	0.2	ND	-	µg/L



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

7. Chlorophenols

With reference to BS EN 12673-1999, USEPA 8270 E or Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result		Unit
			Untreated wastewater	Effluent	
2-Chlorophenol	95-57-8	0.5	ND	-	µg/L
3-Chlorophenol	108-43-0	0.5	ND	-	µg/L
4-Chlorophenol	106-48-9	0.5	ND	-	µg/L
2,3-Dichlorophenol	576-24-9	0.5	ND	-	µg/L
2,4-Dichlorophenol	120-83-2	0.5	ND	-	µg/L
2,5-Dichlorophenol	583-78-8	0.5	ND	-	µg/L
2,6-Dichlorophenol	87-65-0	0.5	ND	-	µg/L
3,4-Dichlorophenol	95-77-2	0.5	ND	-	µg/L
3,5-Dichlorophenol	591-35-5	0.5	ND	-	µg/L
2,3,4-Trichlorophenol	15950-66-0	0.5	ND	-	µg/L
2,3,5-Trichlorophenol	933-78-8	0.5	ND	-	µg/L



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2,3,6-Trichlorophenol	933-75-5	0.5	ND	-	µg/L
2,4,5-Trichlorophenol	95-95-4	0.5	ND	-	µg/L
2,4,6-Trichlorophenol	88-06-2	0.5	ND	-	µg/L
3,4,5-Trichlorophenol	609-19-8	0.5	ND	-	µg/L
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	ND	-	µg/L
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	ND	-	µg/L
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	ND	-	µg/L
Pentachlorophenol PCP	87-86-5	0.5	ND	-	µg/L



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8. N,N-di-methylformamide (DMFa)

With reference to USEPA 8015 or USEPA 8270 E

Test item	CAS no.	Reporting Limit (Textile)	Result		Unit
			Untreated wastewater	Effluent	
N,N-di-methylformamide (DMFa)	68-12-2	1000 (Sample and Report only for mock leather)	ND	-	µg/L

9. Dyes - Carcinogenic or Equivalent Concern

With reference to Liquid extraction followed by LC-MS

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

*Reported concentration refers to the dye part only



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10. Dyes - Disperse (Allergenic)

With reference to Liquid extraction followed by LC-MS

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



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11. Dyes - Navy Blue Colourant

With reference to Liquid extraction followed by LC-MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result		Unit
			Untreated wastewater	Effluent	
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	500	ND	-	µg/L
Component 2: C46H-30CrN10O20S2 3Na	Not Allocated	500	ND	-	µg/L

12. Flame retardants

Boric acid, Diboron trioxide, Disodium octaborate, Disodium tetraborate anhydrous, Tetraboron disodium heptaoxide, hydrate:

ISO 17294, USEPA 6010 C, USEPA 6020 A, HJ 700 or IS 3025 (Part 65)

Others: With reference to ISO 22032, USEPA 527, USEPA 8270 E, USEPA 8321 B or Dichloromethane extraction followed by GC-MS or LC-MS(-MS)

Test Items	CAS no.	Reporting Limit	Result		Unit
			Untreated wastewater	Effluent	
Decabromodiphenyl ether (DecaBDE)	1163-19-5	Textile: 25 Leather: 5	ND	-	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	Textile: 25 Leather: 5	ND	-	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	Textile: 25 Leather: 5	ND	-	µg/L
Tris(1-aziridinylphosphine oxide) (TEPA)	545-55-1	Textile: 25 Leather: 5	ND	-	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	Textile: 25 Leather: 5	ND	-	µg/L
Tris(2,3-dibromopropyl phosphate) (TRIS)	126-72-7	Textile: 25 Leather: 5	ND	-	µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	Textile: 25 Leather: 5	ND	-	µg/L
Bis(2,3-dibromopropyl) phosphate	5412-25-9	Textile: 25 Leather: 5	ND	-	µg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	Textile: 25 Leather: 5	ND	-	µg/L
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	Textile: 25 Leather: 5	ND	-	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	Textile: 25 Leather: 5	ND	-	µg/L



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Decabromobiphenyl (DecaBB)	13654-09-6	Textile: 25	ND	-	µg/L
Dibromobiphenyls (DiBB)	Multiple	Textile: 25	ND	-	µg/L
Octabromobiphenyls (OctaBB)	Multiple	Textile: 25	ND	-	µg/L
Dibromopropylether	21850-44-2	Textile: 25	ND	-	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	Textile: 25	ND	-	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	Textile: 25	ND	-	µg/L
Monobromobiphenyls (MonoBB)	Multiple	Textile: 25	ND	-	µg/L
Monobromodiphenylethers (MonoBDEs)	Multiple	Textile: 25	ND	-	µg/L
Nonabromobiphenyls (NonaBB)	Multiple	Textile: 25	ND	-	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	Textile: 25	ND	-	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	Textile: 25	ND	-	µg/L
Tribromodiphenylethers (TriBDEs)	Multiple	Textile: 25	ND	-	µg/L
Boric acid	10043-35-3 11113-50-1	Textile: 100*	See Total Boron (B) Result	-	µg/L
Diboron trioxide	1303-86-2	Textile: 100*	See Total Boron (B) Result	-	µg/L
Disodium octaborate	12008-41-2	Textile: 100*	See Total Boron (B) Result	-	µg/L
Disodium tetraborate anhydrous	1303-96-4 1330-43-4	Textile: 100*	See Total Boron (B) Result	-	µg/L
Tetraboron disodium heptaoxide, hydrate	12267-73-1	Textile: 100*	See Total Boron (B) Result	-	µg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	Textile: 25 Leather: 5	ND	-	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	Textile: 25 Leather: 5	ND	-	µg/L

* Limit refers to elemental boron, not the salt.



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13. Glycols/Glycol Ethers

With reference to USEPA 8270 E or Liquid extraction followed by LC-MS or GC-MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result		Unit
			Untreated wastewater	Effluent	
Bis(2-methoxyethyl)-ether	111-96-6	50	ND	-	µg/L
2-ethoxyethanol	110-80-5	50	ND	-	µg/L
2-ethoxyethyl acetate	111-15-9	50	ND	-	µg/L
Ethylene glycol dimethyl ether	110-71-4	50	ND	-	µg/L
2-methoxyethanol	109-86-4	50	ND	-	µg/L
2-methoxyethylacetate	110-49-6	50	ND	-	µg/L
2-methoxypropylacetate	70657-70-4	50	ND	-	µg/L
Triethylene glycol dimethyl ether	112-49-2	50	ND	-	µg/L

14. Halogenated solvents

With reference to USEPA 8260 D, Purge and Trap or Headspace followed by GC-MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result		Unit
			Untreated wastewater	Effluent	
1,2-Dichloroethane	107-06-2	1	ND	-	µg/L
Methylene chloride	75-09-2	1	ND	-	µg/L
Trichloroethene	79-01-6	1	ND	-	µg/L
Tetrachloroethene	127-18-4	1	ND	-	µg/L



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15. Organotin compounds

TeET:

With reference to ISO 17353

Others:

With reference to ISO 17353 or Derivatization with NaB(C₂H₅)₄ followed by GC-MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result		Unit
			Untreated wastewater	Effluent	
Tricyclohexyltin (TCyHT)	Various	0.01	ND	-	µg/L
Tripropyltin (TPT)	Various	0.01	ND	-	µg/L
Dipropyltin compounds (DPT)	Various	0.01	ND	-	µg/L
Tetrabutyltin compounds (TeBT)	Various	0.01	ND	-	µg/L
Tetraoctyltin compounds (TeOT)	Various	0.01	ND	-	µg/L
Tetraethyltin Compounds (TeET)	Various	0.01	ND	-	µg/L
Mono-, di-and tri-octyltin derivatives	Various	0.01	ND	-	µg/L
Monooctyltin (MOT)	15231-57-9	0.01	ND	-	µg/L
Diocyltin (DOT)	94410-05-6, 12531-44-4	0.01	ND	-	µg/L
Triocyltin (TOT)	Various	0.01	ND	-	µg/L
Mono-, di-and tri-methyltin derivatives	Various	0.01	ND	-	µg/L
Monomethyltin (MMT)	Various	0.01	ND	-	µg/L
Dimethyltin (DMT)	Various	0.01	ND	-	µg/L
Trimethyltin (TMT)	Various	0.01	ND	-	µg/L
Mono-, di-and tri-butyltin derivatives	Various	0.01	ND	-	µg/L
Monobutyltin (MBT)	1118-46-3, 78763-54-9	0.01	ND	-	µg/L
Dibutyltin (DBT)	1002-53-5	0.01	ND	-	µg/L
Tributyltin (TBT)	56573-85-4	0.01	ND	-	µg/L
Mono-, di-and tri-phenyltin derivatives	Various	0.01	ND	-	µg/L
Monophenyltin (MPHT)	Various	0.01	ND	-	µg/L
Diphenyltin (DPHT)	Various	0.01	ND	-	µg/L
Triphenyltin (TPHT)	892-20-6, 668-34-8	0.01	ND	-	µg/L



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16. Other/Miscellaneous Chemicals

AEEA [2-(2-aminoethylamino) ethanol]: With reference to Liquid extraction followed by LC-MS/MS

Bisphenol A: With reference to Liquid extraction followed by LC-MS

Thiourea: With reference to Liquid extraction followed by LC-MS

Quinoline: With reference to Liquid extraction followed by LC-MS

Borate, zinc salt: ISO 17294, USEPA 6010 C, USEPA 6020 A, HJ 700 or IS 3025 (Part 65)

Test Items	CAS no.	Reporting Limit (Textile)	Result		Unit
			Untreated wastewater	Effluent	
AEEA [2-(2-aminoethylamino) ethanol]	111-41-1	500	ND	-	µg/L
Bisphenol A	80-05-7	10	ND	-	µg/L
Thiourea	62-56-6	50	ND	-	µg/L
Quinoline	91-22-5	50	ND	-	µg/L
Borate, zinc salt	12767-90-7	100*	See Total Boron (B) and Total Zinc (Zn) Results	-	µg/L

* Limit refers to boron and zinc individually, not the salt.

17. Perfluorinated and Polyfluorinated Chemicals (PFCs)

PFCs:

With reference to USEPA 537:2020 followed by LC-MS(-MS)

FTOH:

With reference to BS EN 12673-1999, USEPA 8270 E or Derivatization with acetic anhydride followed by GC-MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result		Unit
			Untreated wastewater	Effluent	
Perfluoro-octane-sulfonic acid (PFOS)*	1763-23-1	0.01	ND	-	µg/L
Perfluoro-octanoic acid (PFOA)**	335-67-1	0.01	ND	-	µg/L
Perfluoro-octane-sulfon-amide (PFOSA)	754-91-6	0.01	ND	-	µg/L



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1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	1	ND	-	µg/L
1H,1H,2H,2H-Perfluorodecanol (8:2 FTOH)	678-39-7	1	ND	-	µg/L
N-Methyl-perfluoro-octane-sulfon-amido-ethanol (N-Me-FOSE)	24448-09-7	0.01	ND	-	µg/L
N-Ethyl-Perfluoro-octane-sulfon-amido-ethanol (N-Et-FOSE)	1691-99-2	0.01	ND	-	µg/L
N-Methyl-perfluoro-octane-sulfon-amide (N-Me-FOSA)	31506-32-8	0.01	ND	-	µg/L
N-Ethyl-perfluoro-octane-sulfon-amide (N-Et-FOSA)	4151-50-2	0.01	ND	-	µg/L
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	1	ND	-	µg/L
Methyl Perfluorooctanoate (Me-PFOA)	376-27-2	1	ND	-	µg/L
Ethyl Perfluorooctanoate (Et-PFOA)	3108-24-5	1	ND	-	µg/L
8:2 Fluorotelomer methacrylate (8:2 FTMA)	1996-88-9	1	ND	-	µg/L

* PFOS refer to its salts/derivative including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3) and POSF (CAS No.: 307-35-7)

** PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1)

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

With reference to USEPA 8270 E, ISO 18856 or Dichloromethane extraction followed by GC-MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result		Unit
			Untreated wastewater	Effluent	
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	10	ND	-	µg/L
Dimethoxyethyl phthalate (DMEP)	117-82-8	10	ND	-	µg/L
Di-n-octyl phthalate (DNOP)	117-84-0	10	ND	-	µg/L



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Di-iso-decyl phthalate (DIDP)	26761-40-0	10	ND	-	µg/L
Di-iso-nonyl phthalate (DINP)	28553-12-0	10	ND	-	µg/L
Di-n-hexyl phthalate (DnHP)	84-75-3	10	ND	-	µg/L
Dibutyl phthalate (DBP)	84-74-2	10	ND	-	µg/L
Butyl benzyl phthalate (BBP)	85-68-7	10	ND	-	µg/L
Dinonyl phthalate (DNP)	84-76-4	10	ND	-	µg/L
Diethyl phthalate (DEP)	84-66-2	10	ND	-	µg/L
Di-n-propyl phthalate (DPRP)	131-16-8	10	ND	-	µg/L
Di-iso-butyl phthalate (DIBP)	84-69-5	10	ND	-	µg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	ND	-	µg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	ND	-	µg/L
1,2-benzenedicarboxylic acid, di-C7-11-branched and linearakyl esters (DHNUF)	68515-42-4, 68515-50-4	10	ND	-	µg/L
1,2-benzenedicarboxylic acid, di-C6-8 branched and linearalkyl esters , C7-rich (DIHP)	71888-89-6, 84777-06-0	10	ND	-	µg/L
Di-n-pentylphthalates	131-18-0	10	ND	-	µg/L
Disopentylphthalates	605-50-5	10	ND	-	µg/L

19. Polycyclic aromatic hydrocarbons (PAHs)

With reference to DIN 38407-39, USEPA 8270 E or Solvent extraction followed by GC-MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result		Unit
			Untreated wastewater	Effluent	
Benzo(a)pyrene (BaP)	50-32-8	1	ND	-	µg/L
Anthracene	120-12-7	1	ND	-	µg/L
Pyrene	129-00-0	1	ND	-	µg/L
Benzo(ghi)perylene	191-24-2	1	ND	-	µg/L
Benzo(e)pyrene	192-97-2	1	ND	-	µg/L
Indeno (1,2,3-cd)pyrene	193-39-5	1	ND	-	µg/L
Benzo(j)fluoranthene	205-82-3	1	ND	-	µg/L
Benzo(b)fluoranthene	205-99-2	1	ND	-	µg/L
Fluoranthene	206-44-0	1	ND	-	µg/L
Benzo(k)fluoranthene	207-08-09	1	ND	-	µg/L
Acenaphthylene	208-96-8	1	ND	-	µg/L



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Chrysene	218-01-9	1	ND	-	µg/L
Dibenz(a,h)anthracene	53-70-3	1	ND	-	µg/L
Benzo(a)anthracene	56-55-3	1	ND	-	µg/L
Acenaphthene	83-32-9	1	ND	-	µg/L
Phenanthrene	85-01-8	1	ND	-	µg/L
Fluorene	86-73-7	1	ND	-	µg/L
Naphthalene	91-20-3	1	ND	-	µg/L

20. Restricted Aromatic Amines (Cleavable from Azo-colourants)

With reference to USEPA 8270 E or Reduction step with sodium dithionite, solvent extraction followed by GC-MS and LC-MS/MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result		Unit
			Untreated wastewater	Effluent	
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1	ND	-	µg/L
4,4'-Diaminodiphenylmethane	101-77-9	0.1	ND	-	µg/L
4,4'-Oxydianiline	101-80-4	0.1	ND	-	µg/L
4-Chloroaniline	106-47-8	0.1	ND	-	µg/L
3,3'-Dimethoxybenzidine	119-90-4	0.1	ND	-	µg/L
3,3'-Dimethylbenzidine	119-93-7	0.1	ND	-	µg/L
p-Cresidine	120-71-8	0.1	ND	-	µg/L
2,4,5-Trimethylaniline	137-17-7	0.1	ND	-	µg/L
4,4'-Thiodianiline	139-65-1	0.1	ND	-	µg/L
4-Aminoazobenzene	60-09-3	0.1	ND	-	µg/L
2,4-Diaminoanisole	615-05-4	0.1	ND	-	µg/L
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	0.1	ND	-	µg/L
2,6-Xylidine	87-62-7	0.1	ND	-	µg/L
o-Anisidine	90-04-0	0.1	ND	-	µg/L
2-Naphthylamine	91-59-8	0.1	ND	-	µg/L
3,3'-Dichlorobenzidine	91-94-1	0.1	ND	-	µg/L
4-Aminobiphenyl	92-67-1	0.1	ND	-	µg/L
Benzidine	92-87-5	0.1	ND	-	µg/L
o-Toluidine	95-53-4	0.1	ND	-	µg/L
2,4-Xylidine	95-68-1	0.1	ND	-	µg/L



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4-Chloro-o-toluidine	95-69-2	0.1	ND	-	µg/L
2,4-Diaminotoluene	95-80-7	0.1	ND	-	µg/L
o-Aminoazotoluene	97-56-3	0.1	ND	-	µg/L
5-Nitro-o-toluidine	99-55-8	0.1	ND	-	µg/L
2-Naphthylammoniumacetate	553-00-4	0.1	ND	-	µg/L
2,4,5-trimethylaniline hydrochloride	21436-97-5	0.1	ND	-	µg/L
4-chloro-o-toluidinium chloride	3165-93-3	0.1	ND	-	µg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	0.1	ND	-	µg/L

21. UV Absorbers

With reference to ISO 22032, USEPA 527, USEPA 8270 E, USEPA 8321 B or Dichloromethane extraction followed by GC-MS or LC-MS(-MS)

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



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22. Volatile organic compounds (VOCs)

Benzene: With reference to ISO 11423-1, ISO 20595, USEPA 8260 D, Purge and Trap or Headspace followed by GC-MS

m-cresol / o-cresol / p-cresol: With reference to BS EN 12637-1999, ISO 11423-1, USEPA 8270 E, Purge and Trap or Headspace followed by GC-MS

Xylene: With reference to ISO 11423-1, USEPA 8260 D, Purge and Trap or Headspace followed by GC-MS

Toluene: With reference to ISO 11423-1, USEPA 8260 D or HJ 1067

Test Items	CAS no.	Reporting Limit	Result		Unit
			Untreated wastewater	Effluent	
Benzene	71-43-2	Textile and Leather: 1	ND	-	µg/L
Xylene	1330-20-7	Textile: 1	ND	-	µg/L
o-cresol	95-48-7	Textile and Leather: 1	ND	-	µg/L
p-cresol	106-44-5	Textile and Leather: 1	ND	-	µg/L
m-cresol	108-39-4	Textile and Leather: 1	ND	-	µg/L
Toluene	108-88-3	Textile: 1 (Sample and Report only for mock leather)	ND	-	µg/L

Remark

ND = Not detected
 NA = Not applicable
 - = Not required to be tested



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SLUDGE

23. Sludge Parameters - Step 1 – Conventional

pH: USEPA 9045 D or HJ 962

% Solids: USEPA 160.3 or HJ 613 at 105°C

Paint Filter Test: USEPA SW-846 or USEPA 9095 B

Fecal Coliform: USEPA 1681

Test Items	CAS no.	Limit							Reporting Limit	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
pH	-	Sample and Report Only	Sample and Report Only	5-11	5-11	5-11	6.5-9	6.5-9	-	7.7	-
% Solids	-	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	-	29.5	%
Paint Filter Test	-	Sample and Report Only	Sample and Report Only	Sample and Report Only	Pass	Pass	Pass	Sample and Report Only	-	Pass	-
Fecal Coliform	-	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	1000	1000	1000	ND	MPN/g

24. Sludge Parameters – Step 1 – Anions

Preparation: USEPA 9013

Analysis: USEPA 9014, USEPA 9213 or HJ 745

Test Items	CAS no.	Limit – Dry weight							Reporting Limit (Textile)	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
Cyanide	-	Sample and Report Only	Sample and Report Only	100	85	70	70	70	20	ND	mg/kg



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25. Sludge Parameters – Step 1 – Metals

Sb, As, Cr, Co, Cd, Cu, Pb, Ni, Zn: Preparation: USEPA 3050 Analysis: USEPA 6010 D, USEPA 6020 B or HJ 803

Cr VI: Preparation: USEPA 3060 A Analysis: USEPA 7196 or USEPA 7199

Ba, Se, Ag: Preparation: USEPA 3050 Analysis: USEPA 6010 D or USEPA 6020 B

Hg: Preparation: option 1: USEPA 7471 B option 2: USEPA 3051 A Analysis: option 1: USEPA 7471 B, option 2: USEPA 6020 B or GB/T 22105.1 or HJ 923

Test Items	CAS no.	Limit – Dry weight		Reporting Limit	Result	Unit
		Total Metals Threshold Values Limit*	Max Total Metals limit for Pathway G			
Arsenic (As)	Various	10	75	Textile: 5 Leather 2	23	mg/kg
Cadmium (Cd)	Various	3	85	Textile: 1 Leather 2	ND	mg/kg
Mercury (Hg)	Various	1	57	Textile: 1 Leather 0.2	ND	mg/kg
Lead (Pb)	Various	10	840	Textile: 5 Leather 2	58	mg/kg
Antimony (Sb)	Various	12	Sample and report only	Textile: 5	13	mg/kg
Cobalt (Co)	Various	1600	Sample and report only	Textile: 400	ND	mg/kg
Nickel (Ni)	Various	70	420	Textile: 20	289	mg/kg
Silver (Ag)	Various	100	Sample and report only	Textile: 50	ND	mg/kg
Copper (Cu)	Various	200	4300	Textile: 50	201	mg/kg
Zinc (Zn)	Various	1000	7500	Textile: 400	507	mg/kg
Total Chromium (Cr)	Various	100	3000	Textile: 50	590	mg/kg
Chromium VI (Cr VI)	Various	50	50	Textile: 20 Leather 2	ND	mg/kg
Barium (Ba)	Various	700	Sample and report only	Textile: 200	ND	mg/kg
Selenium (Se)	Various	10	100	Textile: 5	ND	mg/kg

Remark: * Leachate should be tested if Total Metals Threshold Values is exceeded in sludge.



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26. Sludge Parameters - Step 1 - MRSL - Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers

NP/OP: Preparation: With reference to USEPA 3540 / 3541 - Soxhlet or USEPA 3550 - Ultrasonic

Analysis: With reference to ISO 18857-2 or ASTM D7065

NPEO/OPEO: Preparation: With reference to USEPA 3540 / 3541 - Soxhlet or USEPA 3550 - Ultrasonic

Analysis: With reference to ISO 18254-1, ISO 18857-2 or ASTM D7065

Test Items	CAS no.	Limit – Dry weight							Reporting Limit (Textile and Leather)	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
Octylphenol (OP)	140-66-9/ 1806-26-4/ 27193-28-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	0.4	ND	mg/kg
Nonylphenol (NP)	104-40-5/ 11066-49-2/ 25154-52-3/84852-15-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	0.4	ND	mg/kg
Octylphenoethoxylates (OPEOs)	9002-93-1/9036-19-5/ 68987-90-6	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	0.4	ND	mg/kg
Nonylphenoethoxylates (NPEOs)	9016-45-9/26027-38-3/ 37205-87-1/68412-54-4/127087-87-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	0.4	ND	mg/kg

27. Sludge Parameters - Step 1 - MRSL – Polycyclic Aromatic Hydrocarbons (PAHs)

Preparation: With reference to USEPA 3540 / 3541 - Soxhlet or USEPA 3550 - Ultrasonic

Clean-up: With reference to USEPA 3640

Analysis: With reference to USEPA 8270 E or HJ 805-2016

Test Items	CAS no.	Limit – Dry weight							Reporting Limit (Textile)	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
Benzo(a)pyrene (BaP)	50-32-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Anthracene	120-12-7	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg



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Pyrene	129-00-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(ghi)perylene	191-24-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(e)pyrene	192-97-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Indeno (1,2,3-cd)pyrene	193-39-5	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(j)fluoranthene	205-82-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(b)fluoranthene	205-99-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Fluoranthene	206-44-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(k)fluoranthene	207-08-09	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Acenaphthylene	208-96-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Chrysene	218-01-9	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Dibenz(a,h)anthracene	53-70-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(a)anthracene	56-55-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Acenaphthene	83-32-9	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Phenanthrene	85-01-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg



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		Report Only	Report Only	Report Only							
Fluorene	86-73-7	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Naphthalene	91-20-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg

28. Sludge Parameters - Step 1 - MRSL – Chlorotoluenes

Preparation: With reference to USEPA 3540 / 3541 - Soxhlet or USEPA 3550 - Ultrasonic

Clean-up: With reference to USEPA 3640

Analysis: With reference to USEPA 8270 E or HJ 605

Test Items	CAS no.	Limit – Dry weight							Reporting Limit (Textile and Leather)	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
2-Chlorotoluene	95-49-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
3-Chlorotoluene	108-41-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
4-Chlorotoluene	106-43-4	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3-Dichlorotoluene	32768-54-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,4-Dichlorotoluene	95-73-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,5-Dichlorotoluene	19398-61-9	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,6-Dichlorotoluene	118-69-4	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
3,4-Dichlorotoluene	95-75-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg



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		Only	Only	Only							
3,5-Dichlorotoluene	25186-47-4	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,4-Trichlorotoluene	7359-72-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,6-Trichlorotoluene	2077-46-5	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,4,5-Trichlorotoluene	6639-30-1	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,4,6-Trichlorotoluene	23749-65-7	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
3,4,5-Trichlorotoluene	21472-86-6	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,4,5-Tetrachlorotoluene	76057-12-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,5,6-Tetrachlorotoluene	29733-70-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,4,6-Tetrachlorotoluene	875-40-1	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Pentachlorotoluene	877-11-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg



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LEACHATE

29. Leachate Parameters - Step 2 – Metals

As, Cd, Cr, Pb, Sb, Ba, Co, Cu, Ni, Se, Ag, Zn: Leachate Extraction: USEPA 1311 or USEPA 3051 A Analysis: ISO 11885, ISO 17294-2, USEPA 200.7, USEPA 200.8, USEPA 6010 C or USEPA 6020 A

Cr (VI): Leachate Extraction: USEPA 1311 Analysis: ISO 18412, USEPA 7196 or USEPA 7199

Hg: Leachate Extraction: USEPA 1311 of USEPA 3051 A Analysis: ISO 12846, ISO 17852, USEPA 7471 B or USEPA 6020 B

Test Items	CAS no.	Limit							Reporting Limit	Result	
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Leachate	Unit
Arsenic (As)	Various	Sample and Report Only	Sample and Report Only	5	2.75	0.5	0.5	0.5	0.005	ND	mg/L
Cadmium (Cd)	Various	Sample and Report Only	Sample and Report Only	1	0.58	0.15	0.15	0.15	0.01	ND	mg/L
Mercury (Hg)	Various	Sample and Report Only	Sample and Report Only	0.2	0.125	0.05	0.05	0.05	0.001	ND	mg/L
Lead (Pb)	Various	Sample and Report Only	Sample and Report Only	5	2.75	0.5	0.5	0.5	0.01	ND	mg/L
Antimony (Sb)	Various	Sample and Report Only	Sample and Report Only	15	7.8	0.6	0.6	0.6	0.01	0.02	mg/L
Cobalt (Co)	Various	Sample and Report Only	Sample and Report Only	80	80	80	80	80	0.01	0.44	mg/L
Nickel (Ni)	Various	Sample and Report Only	Sample and Report Only	20	11.75	3.5	3.5	3.5	0.05	1.29	mg/L
Silver (Ag)	Various	Sample and Report Only	Sample and Report Only	5	5	5	5	5	0.005	ND	mg/L
Copper (Cu)	Various	Sample and Report Only	Sample and Report Only	25	17.5	10	10	10	0.25	ND	mg/L



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Zinc (Zn)	Various	Sample and Report Only	Sample and Report Only	250	150	50	50	50	0.1	0.9	mg/L
Total Chromium (Cr)	Various	Sample and Report Only	Sample and Report Only	15	10	5	5	5	0.05	ND	mg/L
Chromium VI (Cr VI)	Various	Sample and Report Only	Sample and Report Only	5	3.75	2.5	2.5	2.5	0.001	ND	mg/L
Barium (Ba)	Various	Sample and Report Only	Sample and Report Only	100	67.5	35	35	35	35	ND	mg/L
Selenium (Se)	Various	Sample and Report Only	Sample and Report Only	1	0.75	0.5	0.5	0.5	0.5	ND	mg/L

Remark

ND = Not detected
 NA = Not applicable
 - = Not required to be tested



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Annex A: Sampling photos & Sampling locations

UNTREATED WASTEWATER
GPS Data: 25°44'59" N, 119°35'60" E
SAMPLING LOCATION, CLOSE-UP VIEW

SAMPLING LOCATION, FAR VIEW


EFFLUENT
GPS Data: 25°44'56" N, 119°35'52" E
SAMPLING LOCATION, CLOSE-UP VIEW

SAMPLING LOCATION, FAR VIEW




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SLUDGE

GPS Data: 25°45'9" N, 119°36'8" E

SAMPLING LOCATION, CLOSE-UP VIEW



SAMPLING LOCATION, FAR VIEW



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Annex B: On-site Field Data Record Sheet

UNTREATED WASTEWATER



水质采样原始记录

1/1

任务单号: 13784TX 采样日期: 2023.2.9 水体类型: 原废水

样品编号: 001 天气状况: FA 气温: 15 °C

参考采样规范: DHC Wastewater and Sludge Laboratory Sampling and Analysis Plan (SAP) HJ/T 91-2002 《地表水环境质量监测网监测任务作业指导书》 其他:

序号	采样位置 /GPS	采样时间	水温 (°C)	直排废水, 接受水体的温度 (如无法测量, 请说明原因并拍照)	pH值 (无量纲)	电导率 (µS/cm)	溶解氧 (mg/L)	总氮 (mg/L)	流量 (m³/day)	采样体积 (mL)	容器材质	保存方式	样品状态 感官描述 (如颜色/气味)
以上信息仅针对排放废水, 原废水无处理间接排放的情况依然是原废水													
1	1165 119° 55' 60" E 23° 44' 59" N	10:00	15.3	/	7.9	/	/	/	/	9000	P, G, VOA	1, 2, 3, 4	红褐色
2													
3													
4													
5													
6													
7													
8										工厂去年的年排放总量:			
9										工厂去年的年开工天数: 换算出的日均流量:			

备注: 容器材质: P代表PE瓶, G代表玻璃瓶; VOA vial代表棕色玻璃瓶; ST.Steel代表不锈钢; G-TLC 代表盖子带有特氟龙内衬的棕色玻璃瓶; P(A) 代表酸洗过的塑料瓶; G(A) = Glass
水质表现: 水体颜色、气味、有无漂浮物等。
周边环境: 有无排污口, 是否死水区、回水区, 有无居民区、工业区, 有无居民区、工业区和农药化肥使用区等。
保存方式: 1.标签完好; 2.冷藏; 3.避光; 4.减振措施; 5.其他:

采样人: Amber

审核人: UAA

客户确认: 郑伟强



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EFFLUENT



水质采样原始记录

任务单号: 13784TX
样品编号: 002

采样日期: 2023, 2, 9
天气状况: 阴

水体类型: 排污水

参考采样规范: ZHDC Wastewater and Sludge Laboratory Sampling and Analysis Plan (SAP) HJ/T 91-2002 《地表水环境质量监测网监测任务作业指导书》 其他:

序号	采样位置 / GPS	采样时间	水温 (°C)	直接废水, 接受水体的温度 (如无法测量, 请说明原因并拍照)	pH值 (无量纲)	电导率 (µS/cm)	溶解氧 (mg/L)	总氮 (mg/L)	流量 (m³/day)	采样体积 (mL)	容器材质	保存方式	样品状态 感官描述 (如颜色/气味)	
1	东边 19°35'52" 北边 105°44'56"	10.20	16.1		8.1				2613 m³/day	11000	P.G.VOA	1,2,3,4	无色透明	
2														
3														
4														
5														
6														
7														
8										工厂去年的年排放总量: 975490				
9										工厂去年的年开工天数: 351 换算出的日均流量: 2773				

备注: 容器材质: P代表PE瓶, G代表玻璃瓶; VOA vial代表棕色玻璃瓶; ST.Steel代表不锈钢; G-TLC 代表盖子带有特氟龙内衬的棕色玻璃瓶; P(A) 代表酸洗过的塑料瓶; G(A) = Glass (Acid Washed)酸洗过的玻璃瓶。
水质表现: 水体颜色、气味、有无漂浮物等。
周边环境: 有无排污口, 是否死水区、回水区, 有无居民区、工业区, 有无居民区、工业区和农药化肥使用区等。
保存方式: 1.标签完好; 2.冷藏; 3.避光; 4.减振措施; 5.其他:

采样人: AWB

审核人: WEA

客户确认: 李伟

受控编号: ZHDC-6 水质采样记录 v.2.0 2022.10.31



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SLUDGE



1/1

土壤采样原始记录

任务单号: 13784TX 采样日期: 2023.2.9
 样品编号: 003 天气状况: 阴 气温: 15℃
 参考采样规范: ZDHC Wastewater and Sludge Laboratory Sampling and Analysis Plan (SAP) 其他: _____

序号	采样位置/GPS	采样时间	采样量	容器材质	采样深度	样品描述	备注
1	<u>东经 119°36'8"</u> <u>北纬 25°45'19"</u>	<u>10.40</u>	<u>3kg</u>	<u>G</u>	<u>/</u>	<u>黑褐色</u>	
2							
3							
4							
5							
6							
7							
8							
9							

样品现场密封 周围异味: 恶臭 很臭 臭 微臭 其他 _____
 附页: 采样点位图 采样现场 敏感人群: _____

采样人: Andrew 审核人: 张华 客户确认: 郑伟
 受控编号: ZHDC-7_土壤采样原始记录_v1.0_20200101



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Annex C: Limit according to regulation / Contract limit with centralized ETP (if proceed)

序号	排放口编号	排放口名称	污染物种类	许可排放浓度限值
主要:				
1	DW001		总磷 (以 P 计)	1.5
2	DW001		色度	80
3	DW001		总氮 (以 N 计)	30mg/L
4	DW001		悬浮物	100
5	DW001		五日生化需氧量	50
6	DW001		六价铬	0.5
7	DW001		氨氮 (NH ₃ -N)	20mg/L
8	DW001		pH 值	6-9
9	DW001		硫化物	0.5
10	DW001		化学需氧量	200mg/L
11	DW001		二氧化氯	0.5
12	DW001		苯胺类	1
主要排放口合计		COD _{Cr}		
		氨氮		
		总氮 (以 N 计)		

****END OF REPORT****



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