

Date of sampling	07/05/2025
Reporting date	14/05/2025

Audit ID	24355	Audit firm	SGS Shanghai
Company name	DALIAN VENT D'EST LAVADO&GARMENT CO., LTD.		
Contact person	Fiona		
Type of tax – tax ID no	912102465549780862		
Address	SHENLU VILLAGE, PAOTAI TOWN, JINPU NEW DISTRICT, DALIAN, LIAONING PROVINCE		
Region state province	Liaoning		
Town city / village	Dalian		
Zip / Post code	116222		

Type of wastewater discharge	
Type of wastewater discharge	Indirect Discharge w/ Pre-treatment (w/ Sludge)
Description of the discharge	Discharge to Centralized Wastewater Treatment Plant: Dalian Shouchuang Water Co., Ltd. Address: Songmudao Chemical Industrial Park, Puwan New District, Dalian
[If direct discharge] Temperature of receiving water body:	Not applicable

Type of sludge disposal pathway	
Type of sludge disposal pathway	Pathway A

Type of treatment*	
PRELIMINARY	<input type="checkbox"/> Screening/Sieving/Grit remover (< 6 mm) <input checked="" type="checkbox"/> Screening/Sieving/Grit remover (≥ 6 mm) <input checked="" type="checkbox"/> Homogenization tank <input checked="" type="checkbox"/> pH Correction <input type="checkbox"/> Other (please specify):
PRIMARY	<input checked="" type="checkbox"/> Coagulation/Flocculation <input checked="" type="checkbox"/> Dissolved air flotation (DAF) <input checked="" type="checkbox"/> Sedimentation tanks or Settler/Clarifier <input type="checkbox"/> Other (please specify):
SECONDARY/BIOLOGICAL	<input type="checkbox"/> Activated sludge process. Aerobic reactor <input type="checkbox"/> Biological Biofilm reactor (MBBR, SAF, RBC..) <input type="checkbox"/> Sequencing batch reactor (SBR) <input type="checkbox"/> Other (please specify):



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TERTIARY	<input type="checkbox"/> Absorption with activated carbon <input type="checkbox"/> High rate filtration <input type="checkbox"/> Techniques (ozone, Fenton reaction, photo catalytic degradation...) <input type="checkbox"/> Other (please specify):
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*The information has been provided by the factory.

Sampler accreditation certification number (ZDHC):		C74D106817275	
Sampling affiliate		SGS Shanghai	
Sample description			
	Simple	Composite	Comments
(1) Untreated wastewater	Light Blue, grab sample at 9:50	-	pH: 8.0 Temperature: 24.4 °C
(2) Effluent	-	Near colourless, composite sample at 9:20, 10:20, 11:20, 12:20, 13:20, 14:20, 15:20	pH: 7.7 Temperature: 24.7 °C
(3) Sludge	Blue, grab sample at 10:40	-	-
(4) Leachate	NO	-	-



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Internal description – Final Test Report	
Testing laboratory	SGS Shanghai
Internal codification number (report number)	SL52505309637801TX
Reference sample number (sample ID)	-
Received on	09/05/2025
Analysis carried out from	09/05/2025 to 14/05/2025
Arrival temperature at lab	6.3 °C
Comments	1. Samples received within 48 hours.

Signed for and on behalf of
 SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd



Linda Wang (Authorized Signatory)



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
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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	-	-
Heavy Metals	-	Fulfill aspirational limit	-	-
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	ND	-	Sample and report only	-
Antimicrobials and Biocides	ND	-	-	-
Chlorinated Parafins	ND	-	-	-
Chlorobenzenes & Chlorotoluenes	ND	-	Sample and report only	-
Chlorophenols	ND	-	-	-
N,N-di-methylformamide (DMFa)	ND	-	-	-
Dyes – Carcinogenic or Equivalent Concern	ND	-	-	-
Dyes – Disperse (Allergenic)	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	-	Sample and report only	-
Restricted Aromatic Amines (Cleavable from Azo-colourants)	ND	-	-	-
UV Absorbers	ND	-	-	-
Volatile Organic Compounds (VOC)	ND	-	-	-

Sludge disposal pathway	
Comply sludge disposal pathway	NA

Remark (indicated in each parameter)

- ND = Not detected (< ZDHC requirements)
- D = Detected (≥ ZDHC requirements)
- NA = Not applicable
- = Not required to be tested



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Test results

Wastewater

1. Conventional Parameters and Anions

Test Items	Test method	Limit			Reporting Limit	Result	Unit
		Foundational	Progressive	Aspirational		Effluent	
Wastewater Flowrate	-	-			NA	117 *	m ³ /day

Remark

NA = Not applicable

- = Not required to be tested

*= Test data is provided by the client



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2. Heavy Metals

Cr (VI): GB/T 7467-1987

Hg: HJ 694-2014

Others: US EPA 200.8:1994

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

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

NP/OP: With reference to ISO 18857-2:2009

NPEO / OPEO: With reference to ISO 18857-2:2009 or ASTM D7742-17

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



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4. Antimicrobials and Biocides

o-Phenylphenol (+salts): With reference to BS EN 12673:1999

Triclosan, Permethrin: With reference to US EPA 3510C:1996 & 8270E:2018

Test items	CAS no.	Reporting Limit	Result	
			Untreated wastewater	Unit
o-Phenylphenol (+salts)	90-43-7	Textiles: 100 Leather: Sample and Report Only	ND	µg/L
Triclosan	3380-34-5	Textiles and Leather: 100	ND	µg/L
Permethrin	Multiple including: 52645-53-1	Textiles and Leather: 500	ND	µg/L

5. Chlorinated Paraffins

With reference to ISO 12010:2019

Test items	CAS no.	Reporting Limit	Result	
			Untreated wastewater	Unit
Medium-chain Chlorinated Paraffins (MCCPs) (C14-C17)	85535-85-9	Textiles and Leather: 500	ND	µg/L
Short-chain Chlorinated Paraffins (SCCPs) (C10-C13)	85535-84-8	Textiles and Leather: 25	ND	µg/L



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6. Chlorobenzenes & Chlorotoluenes

3-Chlorotoluene, 4-Chlorotoluene: With reference to US EPA 8260D: 2018

Others: With reference to US EPA 3510C:1996 & 8270E:2018

Test item	CAS no.	Reporting limit	Result	Unit
			Untreated Wastewater	
1,2-Dichlorobenzene	95-50-1	Textiles and Leather: 0.2	ND	µg/L
Monochlorobenzene	108-90-7	Textiles and Leather: 0.2	ND	µg/L
1,3-Dichlorobenzene	541-73-1	Textiles and Leather: 0.2	ND	µg/L
1,4-Dichlorobenzene	106-46-7	Textiles and Leather: 0.2	ND	µg/L
1,2,3-Trichlorobenzene	87-61-6	Textiles and Leather: 0.2	ND	µg/L
1,2,4-Trichlorobenzene	120-82-1	Textiles and Leather: 0.2	ND	µg/L
1,3,5-Trichlorobenzene	108-70-3	Textiles and Leather: 0.2	ND	µg/L
1,2,3,4-Tetrachlorobenzene	634-66-2	Textiles and Leather: 0.2	ND	µg/L
1,2,3,5-Tetrachlorobenzene	634-90-2	Textiles and Leather: 0.2	ND	µg/L
1,2,4,5-Tetrachlorobenzene	95-94-3	Textiles and Leather: 0.2	ND	µg/L
Pentachlorobenzene	608-93-5	Textiles and Leather: 0.2	ND	µg/L
Hexachlorobenzene	118-74-1	Textiles and Leather: 0.2	ND	µg/L
2-Chlorotoluene	95-49-8	Textiles and Leather: 0.2	ND	µg/L
3-Chlorotoluene	108-41-8	Textiles and Leather: 0.2	ND	µg/L
4-Chlorotoluene	106-43-4	Textiles and Leather: 0.2	ND	µg/L
2,3-Dichlorotoluene	32768-54-0	Textiles and Leather: 0.2	ND	µg/L
2,4-Dichlorotoluene	95-73-8	Textiles and Leather: 0.2	ND	µg/L
2,5-Dichlorotoluene	19398-61-9	Textiles and Leather: 0.2	ND	µg/L
2,6-Dichlorotoluene	118-69-4	Textiles and Leather: 0.2	ND	µg/L
3,4-Dichlorotoluene	95-75-0	Textiles and Leather: 0.2	ND	µg/L
3,5-Dichlorotoluene	25186-47-4	Textiles and Leather: 0.2	ND	µg/L
2,3,4-Trichlorotoluene	7359-72-0	Textiles and Leather: 0.2	ND	µg/L
2,3,6-Trichlorotoluene	2077-46-5	Textiles and Leather: 0.2	ND	µg/L
2,4,5-Trichlorotoluene	6639-30-1	Textiles and Leather: 0.2	ND	µg/L
2,4,6-Trichlorotoluene	23749-65-7	Textiles and Leather: 0.2	ND	µg/L
3,4,5-Trichlorotoluene	21472-86-6	Textiles and Leather: 0.2	ND	µg/L
2,3,4,5-Tetrachlorotoluene	1006-32-2	Textiles and Leather: 0.2	ND	µg/L



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2,3,4,6-Tetrachlorotoluene	875-40-1	Textiles and Leather: 0.2	ND	µg/L
2,3,5,6-Tetrachlorotoluene	1006-31-1	Textiles and Leather: 0.2	ND	µg/L
Pentachlorotoluene	877-11-2	Textiles and Leather: 0.2	ND	µg/L

7. Chlorophenols

With reference to BS EN 12673:1999

Test items	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
2-Chlorophenol	95-57-8	Textiles and Leather: 0.5	ND	µg/L
2,3-Dichlorophenol	576-24-9	Textiles and Leather: 0.5	ND	µg/L
2,3,4-Trichlorophenol	15950-66-0	Textiles and Leather: 0.5	ND	µg/L
2,3,5-Trichlorophenol	933-78-8	Textiles and Leather: 0.5	ND	µg/L
2,3,6-Trichlorophenol	933-75-5	Textiles and Leather: 0.5	ND	µg/L
2,4-Dichlorophenol	120-83-2	Textiles and Leather: 0.5	ND	µg/L
2,4,5-Trichlorophenol	95-95-4	Textiles and Leather: 0.5	ND	µg/L
2,4,6-Trichlorophenol	88-06-2	Textiles and Leather: 0.5	ND	µg/L
2,5-Dichlorophenol	583-78-8	Textiles and Leather: 0.5	ND	µg/L
2,6-Dichlorophenol	87-65-0	Textiles and Leather: 0.5	ND	µg/L
3-Chlorophenol	108-43-0	Textiles and Leather: 0.5	ND	µg/L
3,4-Dichlorophenol	95-77-2	Textiles and Leather: 0.5	ND	µg/L
3,4,5-Trichlorophenol	609-19-8	Textiles and Leather: 0.5	ND	µg/L
3,5-Dichlorophenol	591-35-5	Textiles and Leather: 0.5	ND	µg/L
4-Chlorophenol	106-48-9	Textiles and Leather: 0.5	ND	µg/L
Pentachlorophenol PCP	87-86-5	Textiles and Leather: 0.5	ND	µg/L
2,3,5,6-Tetrachlorophenol	935-95-5	Textiles and Leather: 0.5	ND	µg/L
2,3,4,6-Tetrachlorophenol	58-90-2	Textiles and Leather: 0.5	ND	µg/L
2,3,4,5-Tetrachlorophenol	4901-51-3	Textiles and Leather: 0.5	ND	µg/L



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

With reference to US EPA 8015C:2007

Test item	CAS no.	Reporting Limit	Result	
			Untreated wastewater	Unit
N,N-di-methylformamide (DMFa)	68-12-2	Textiles: 1000 Leather: Sample and Report Only	ND	µg/L

9. Dyes - Carcinogenic or Equivalent Concern

With reference to inhouse method followed by LC-MS/MS

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

*Reported concentration refers to the dye part only



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10. Dyes - Disperse (Allergenic)

With reference to inhouse method followed by LC-MS/MS

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



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11. Flame Retardants

Boric acid, Diboron trioxide, Disodium octaborate, Disodium tetraborate anhydrous, Tetraboron disodium heptaoxide, hydrate: With reference to US EPA 200.8:1994

BBMP, BIS, TRIS: With reference to inhouse method followed by LC-MS/MS

Others: With reference to US EPA 3510C:1996 & US EPA 8270E:2018

Test Items	CAS no.	Reporting Limit	Result	
			Untreated wastewater	Unit
Boric acid	10043-35-3 / 11113-50-1	Textiles and Leather: 500*	ND (ND)**	µg/L
Diboron trioxide	1303-86-2	Textiles and Leather: 500*	ND (ND)**	µg/L
Disodium octaborate	12008-41-2	Textiles and Leather: 500*	ND (ND)**	µg/L
Disodium tetraborate, anhydrous	1303-96-4 / 1330-43-4	Textiles and Leather: 500*	ND (ND)**	µg/L
Tetraboron disodium heptaoxide, hydrate	12267-73-1	Textiles and Leather: 500*	ND (ND)**	µg/L
Hexabromocyclodecane (HBCDD)	3194-55-6	Textiles and Leather: 25	ND	µg/L
2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	Textiles and Leather: 25	ND	µg/L
Polybromobiphenyls (PBB)	59536-65-1	Textiles and Leather: 25	ND	µg/L
Monobromobiphenyls (MonoBB)	Multiple	Textiles and Leather: 25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Multiple	Textiles and Leather: 25	ND	µg/L
Dibromobiphenyls (DiBB)	Multiple	Textiles and Leather: 25	ND	µg/L
Dibromopropylether	21850-44-2	Textiles and Leather: 25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Multiple	Textiles and Leather: 25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	Textiles and Leather: 25	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	Textiles and Leather: 25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	Textiles and Leather: 25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	Textiles and Leather: 25	ND	µg/L
Octabromobiphenyls (OctaBB)	Multiple	Textiles and Leather: 25	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	Textiles and Leather: 25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Multiple	Textiles and Leather: 25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	Textiles and Leather: 25	ND	µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	Textiles and Leather: 25	ND	µg/L
Decabromodiphenyl ether (DecaBDE)	1163-19-5	Textiles and Leather: 25	ND	µg/L



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Tetrabromobisphenol A (TBBPA)	79-94-7	Textiles and Leather: 25	ND	µg/L
Bis(2,3-dibromopropyl) phosphate (BDBPP)	5412-25-9	Textiles and Leather: 25	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	Textiles and Leather: 25	ND	µg/L
Tris(1-aziridinyl) phosphine oxide) (TEPA)	545-55-1	Textiles and Leather: 25	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	Textiles and Leather: 25	ND	µg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	Textiles and Leather: 25	ND	µg/L
Tris(2,3,-dibromopropyl)-phosphate (TRIS)	126-72-7	Textiles and Leather: 25	ND	µg/L

* Limit refers to elemental boron, not the salt.

**Result in term of elemental boron (Result in term of the corresponding boron salt)



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12. Glycols/Glycol Ethers

2-Ethoxyethanol, 2-Methoxyethanol, Ethylene glycol dimethyl ether, Triethylene glycol dimethyl ether: With reference to US EPA 8015C:2007
 Others: With reference to US EPA 3510C:1996 & US EPA 8270E:2018

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

13. Halogenated solvents

With reference to US EPA 8260D: 2018

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



14. Organotin compounds

With reference to DIN EN ISO17353:2005 (E)

Test item	CAS no.	Reporting limit	Result	Unit
			Untreated Wastewater	
Dipropyltin Compounds (DPT)	Multiple including: 867-36-7	Textiles and Leather: 0.01	ND(<0.10µg/L) ¹	µg/L
Mono-, di- and tri-butyltin derivatives	Multiple including: 1118-46-3, 1461-22-9	Textiles and Leather: 0.01	ND(<0.10µg/L) ¹	µg/L
Monobutyltin (MBT)		Textiles and Leather: 0.01	ND(<0.10µg/L) ¹	µg/L
Dibutyltin (DBT)		Textiles and Leather: 0.01	ND(<0.10µg/L) ¹	µg/L
Tributyltin (TBT)		Textiles and Leather: 0.01	ND(<0.10µg/L) ¹	µg/L
Mono-, di- and tri-methyltin derivatives		Multiple including: 993-16-8, 753-73-1, 1066-45-1	Textiles and Leather: 0.01	ND(<0.10µg/L) ¹
Monomethyltin (MMT)	Textiles and Leather: 0.01		ND(<0.10µg/L) ¹	µg/L
Dimethyltin (DMT)	Textiles and Leather: 0.01		ND(<0.10µg/L) ¹	µg/L
Trimethyltin (TMT)	Textiles and Leather: 0.01		ND(<0.10µg/L) ¹	µg/L
Mono-, di- and tri-octyltin derivatives	Multiple including: 3091-25-6, 3542-36-7, 2587-76-0	Textiles and Leather: 0.01	ND(<0.10µg/L) ¹	µg/L
Monooctyltin (MOT)		Textiles and Leather: 0.01	ND(<0.10µg/L) ¹	µg/L
Diocetyl tin (DOT)		Textiles and Leather: 0.01	ND(<0.10µg/L) ¹	µg/L
Triocetyl tin (TOT)		Textiles and Leather: 0.01	ND(<0.10µg/L) ¹	µg/L
Mono-, di- and tri-phenyltin derivatives	Multiple including: 1124-19-2, 1135-99-5, 639-58-7	Textiles and Leather: 0.01	ND(<0.10µg/L) ¹	µg/L
Monophenyltin (MPHT)		Textiles and Leather: 0.01	ND(<0.10µg/L) ¹	µg/L
Diphenyltin (DPHT)		Textiles and Leather: 0.01	ND(<0.10µg/L) ¹	µg/L
Triphenyltin (TPHT)		Textiles and Leather: 0.01	ND(<0.10µg/L) ¹	µg/L
Tetrabutyltin Compounds (TeBT)	Multiple including: 1461-25-2	Textiles and Leather: 0.01	ND(<0.10µg/L) ¹	µg/L
Tetraethyltin Compounds (TeET)	Multiple including: 597-64-8	Textiles and Leather: 0.01	ND(<0.10µg/L) ¹	µg/L
Tetraoctyltin Compounds (TeOT)	Multiple including: 3590-84-9	Textiles and Leather: 0.01	ND(<0.10µg/L) ¹	µg/L
Tricyclohexyltin (TCyHT)	Multiple including: 3091-32-5	Textiles and Leather: 0.01	ND(<0.10µg/L) ¹	µg/L
Tripropyltin Compounds (TPT)	Multiple including: 2279-76-7	Textiles and Leather: 0.01	ND(<0.10µg/L) ¹	µg/L



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15. Other/Miscellaneous Chemicals

AEEA, Thiourea: With reference to inhouse method followed by LC-MS/MS

Bisphenol A: With reference to ISO 18857-2:2009

Quinoline: With reference to US EPA 3510C:1996 & US EPA 8270E:2018

Borate, zinc salt: US EPA 200.8:1994

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

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

** Result in term of elemental boron / zinc (Result in term of the corresponding boron / zinc salt)



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16. Perfluorinated and Polyfluorinated Chemicals (PFCs)

PFCs: With reference to US EPA 537.1:2020 & inhouse method

FTOH: With reference to US EPA 3510C:1996 & US EPA 8270E:2018

Test Items	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
Perfluorooctane sulfonate (PFOS)*	Multiple including: 1763-23-1	Textiles and Leather: 0.01	ND	µg/L
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	Textiles and Leather: 0.01	ND	µg/L
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	Textiles and Leather: 0.01	ND	µg/L
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2	Textiles and Leather: 0.01	ND	µg/L
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (MeFOSE)	24448-09-7	Textiles and Leather: 0.01	ND	µg/L
Perfluorooctane sulfonamide (PFOSA)	754-91-6	Textiles and Leather: 0.01	ND	µg/L
Perfluorooctanoic acid (PFOA)**	Multiple including: 335-67-1	Textiles and Leather: 1	ND	µg/L
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	Textiles and Leather: 1	ND	µg/L
Methyl Perfluorooctanoate (Me-PFOA)	376-27-2	Textiles and Leather: 1	ND	µg/L
Ethyl Perfluorooctanoate (Et-PFOA)	3108-24-5	Textiles and Leather: 1	ND	µg/L
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	Textiles and Leather: 1	ND	µg/L
1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA)	27905-45-9	Textiles and Leather: 1	ND	µg/L
8:2 Fluorotelomer methacrylate (8:2 FTMA)	1996-88-9	Textiles and Leather: 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)



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

With reference to US EPA 3510C:1996 & US EPA 8270E:2018

Test Items	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
1,2-benzenedicarboxylic acid, di-C6-8 branched and linear alkyl esters, C7-rich (DIHP)	71888-89-6 / 84777-06-0	Textiles and Leather: 10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP)	68515-42-4 / 68515-50-4	Textiles and Leather: 10	ND	µg/L
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	Textiles and Leather: 10	ND	µg/L
Butyl benzyl phthalate (BBP)	85-68-7	Textiles and Leather: 10	ND	µg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	Textiles and Leather: 10	ND	µg/L
Di-iso-decyl phthalate (DIDP)	26761-40-0	Textiles and Leather: 10	ND	µg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	Textiles and Leather: 10	ND	µg/L
Di-isobutyl phthalate (DIBP)	84-69-5	Textiles and Leather: 10	ND	µg/L
Di-isononyl phthalate (DINP)	28553-12-0	Textiles and Leather: 10	ND	µg/L
Di-n-hexyl phthalate (DnHP)	84-75-3	Textiles and Leather: 10	ND	µg/L
Di-n-octyl phthalate (DNOP)	117-84-0	Textiles and Leather: 10	ND	µg/L
Di-n-pentylphthalates	131-18-0	Textiles and Leather: 10	ND	µg/L
Di-n-propyl phthalate (DPRP)	131-16-8	Textiles and Leather: 10	ND	µg/L
Di(ethylhexyl) phthalate (DEHP)	117-81-7	Textiles and Leather: 10	ND	µg/L
Dibutyl phthalate (DBP)	84-74-2	Textiles and Leather: 10	ND	µg/L
Diethyl phthalate (DEP)	84-66-2	Textiles and Leather: 10	ND	µg/L
Diisopentylphthalates	605-50-5	Textiles and Leather: 10	ND	µg/L
Dinonyl phthalate (DNP)	84-76-4	Textiles and Leather: 10	ND	µg/L



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18. Polycyclic aromatic hydrocarbons (PAHs)

With reference to US EPA 3510C:1996 & US EPA 8270E:2018

Test Items	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
Acenaphthene	83-32-9	Textiles and Leather: 1	ND	µg/L
Acenaphthylene	208-96-8	Textiles and Leather: 1	ND	µg/L
Anthracene	120-12-7	Textiles and Leather: 1	ND	µg/L
Benzo(a)anthracene	56-55-3	Textiles and Leather: 1	ND	µg/L
Benzo(a)pyrene	50-32-8	Textiles and Leather: 1	ND	µg/L
Benzo(b)fluoranthene	205-99-2	Textiles and Leather: 1	ND	µg/L
Benzo(e)pyrene	192-97-2	Textiles and Leather: 1	ND	µg/L
Benzo(ghi)perylene	191-24-2	Textiles and Leather: 1	ND	µg/L
Benzo(j)fluoranthene	205-82-3	Textiles and Leather: 1	ND	µg/L
Benzo(k)fluoranthene	207-08-09	Textiles and Leather: 1	ND	µg/L
Chrysene	218-01-9	Textiles and Leather: 1	ND	µg/L
Dibenz(a,h)anthracene	53-70-3	Textiles and Leather: 1	ND	µg/L
Fluoranthene	206-44-0	Textiles and Leather: 1	ND	µg/L
Fluorene	86-73-7	Textiles and Leather: 1	ND	µg/L
Indeno (1,2,3-cd)pyrene	193-39-5	Textiles and Leather: 1	ND	µg/L
Naphthalene	91-20-3	Textiles and Leather: 1	ND	µg/L
Phenanthrene	85-01-8	Textiles and Leather: 1	ND	µg/L
Pyrene	129-00-0	Textiles and Leather: 1	ND	µg/L



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

With reference to EN ISO 14362-1:2017, EN ISO 14362-3:2017 (if needed), US EPA 3510C:1996 & US EPA 8270E:2018

Test Items	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
2-naphthylamine	91-59-8	Textiles and Leather: 0.1	ND	µg/L
2-naphthylammoniumacetate^	553-00-4	Textiles and Leather: 0.1	ND	µg/L
2,4-xylidine	95-68-1	Textiles and Leather: 0.1	ND	µg/L
2,4,5-trimethylaniline	137-17-7	Textiles and Leather: 0.1	ND	µg/L
2,4,5-trimethylaniline hydrochloride^	21436-97-5	Textiles and Leather: 0.1	ND	µg/L
2,6-xylidine	87-62-7	Textiles and Leather: 0.1	ND	µg/L
3,3'-dichlorobenzidine	91-94-1	Textiles and Leather: 0.1	ND	µg/L
3,3-dimethoxybenzidine	119-90-4	Textiles and Leather: 0.1	ND	µg/L
3,3-dimethylbenzidine	119-93-7	Textiles and Leather: 0.1	ND	µg/L
4-aminoazobenzene	60-09-3	Textiles and Leather: 0.1	ND	µg/L
4-aminodiphenyl	92-67-1	Textiles and Leather: 0.1	ND	µg/L
4-chloro-o-toluidine	95-69-2	Textiles and Leather: 0.1	ND	µg/L
4-chloro-o-toluidinium chloride^	3165-93-3	Textiles and Leather: 0.1	ND	µg/L
4-chloroaniline	106-47-8	Textiles and Leather: 0.1	ND	µg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate^	39156-41-7	Textiles and Leather: 0.1	ND	µg/L
4-methoxy-m-phenylenediamine	615-05-4	Textiles and Leather: 0.1	ND	µg/L
4-methyl-m-phenylenediamine	95-80-7	Textiles and Leather: 0.1	ND	µg/L
4,4-methylene-bis-(2-chloro-aniline)	101-14-4	Textiles and Leather: 0.1	ND	µg/L
4,4-methylenedi-o-toluidine	838-88-0	Textiles and Leather: 0.1	ND	µg/L
4,4-methylenedianiline	101-77-9	Textiles and Leather: 0.1	ND	µg/L
4,4-oxydianiline	101-80-4	Textiles and Leather: 0.1	ND	µg/L
4,4-thiodianiline	139-65-1	Textiles and Leather: 0.1	ND	µg/L
5-nitro-o-toluidine	99-55-8	Textiles and Leather: 0.1	ND	µg/L
6-methoxy-m-toluidine	120-71-8	Textiles and Leather: 0.1	ND	µg/L
Benzidine	92-87-5	Textiles and Leather: 0.1	ND	µg/L
o-aminoazotoluene	97-56-3	Textiles and Leather: 0.1	ND	µg/L
o-anisidine	90-04-0	Textiles and Leather: 0.1	ND	µg/L
o-toluidine	95-53-4	Textiles and Leather: 0.1	ND	µg/L



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20. UV Absorbers

With reference to inhouse method followed by LC-MS/MS

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

21. Volatile organic compounds (VOCs)

Benzene, Xylene, Toluene: With reference to US EPA 8260D: 2018

m-cresol / o-cresol / p-cresol: With reference to US EPA 3510C:1996 & US EPA 8270E:2018

Test Items	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
Benzene	71-43-2	Textiles and Leather: 1	ND	µg/L
m-cresol	108-39-4	Textiles and Leather: 1	ND	µg/L
o-cresol	95-48-7	Textiles and Leather: 1	ND	µg/L
p-cresol	106-44-5	Textiles and Leather: 1	ND	µg/L
Toluene	108-88-3	Textiles and Leather: 1	ND	µg/L
Xylene	1330-20-7	Textiles and Leather: 1	ND	µg/L

Remark

1) LOR values have been adjusted accordingly due to matrix interference.

1 µg/L = 0.001 ppm

ND = Not detected (< Reporting limit)

NA = Not applicable

NC = Not conducted

- = Not required to be tested



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SLUDGE

22. Sludge Parameters - Step 1 - Conventional

% Solids:

Test item	CAS no.	Limit							Reporting limit	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
% Solids	-	Sample and Report Only	-	15.5	%						

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

NP/OP: With reference to inhouse method followed by GC-MS

NP/PEO: With reference to inhouse method followed by GC-MS & LC-MS/MS

Test Items	CAS no.	Limit – Dry weight							Reporting Limit	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
Nonylphenol ethoxylates (NPEO)	Multiple including: 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	Textiles and Leather: 0.4	1.1	mg/kg
Nonylphenol (NP), mixed isomers	Multiple including: 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	Textiles and Leather: 0.4	ND	mg/kg
Octylphenol ethoxylates (OPEO)	Multiple including: 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	Textiles and Leather: 0.4	ND	mg/kg
Octylphenol (OP), mixed isomers	Multiple including: 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	Textiles and Leather: 0.4	ND	mg/kg



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

With reference to US EPA 3570 & US EPA 8270E:2018

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	
Acenaphthene	83-32-9	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 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	Textiles and Leather: 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	Textiles and Leather: 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	Textiles and Leather: 0.2	ND	mg/kg
Benzo(a)pyrene	50-32-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 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	Textiles and Leather: 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	Textiles and Leather: 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	Textiles and Leather: 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	Textiles and Leather: 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	Textiles and Leather: 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	Textiles and Leather: 0.2	ND	mg/kg



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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	Textiles and Leather: 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	Textiles and Leather: 0.2	ND	mg/kg
Fluorene	86-73-7	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 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	Textiles and Leather: 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	Textiles and Leather: 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	Textiles and Leather: 0.2	ND	mg/kg
Pyrene	129-00-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 0.2	ND	mg/kg



25. Sludge Parameters - Step 1 - MRSL – Chlorotoluenes

With reference to US EPA 3570 & US EPA 8270E:2018

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	Textiles and Leather: 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	Textiles and Leather: 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	Textiles and Leather: 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	Textiles and Leather: 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	Textiles and Leather: 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	Textiles and Leather: 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	Textiles and Leather: 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	Textiles and Leather: 0.2	ND	mg/kg
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	Textiles and Leather: 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	Textiles and Leather: 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	Textiles and Leather: 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	Textiles and Leather: 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	Textiles and Leather: 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	Textiles and Leather: 0.2	ND	mg/kg
2,3,4,5-Tetrachlorotoluene	1006-32-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 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	Textiles and Leather: 0.2	ND	mg/kg
2,3,5,6-Tetrachlorotoluene	1006-31-1	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	Textiles and Leather: 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	Textiles and Leather: 0.2	ND	mg/kg

Remark

ND = Not detected (< Reporting limit)
 NA = Not applicable
 NC = Not conducted
 -= Not required to be tested



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Annex A: Sampling photos & Sampling locations

UNTREATED WASTEWATER
Date & Time of Measurement: 07/05/2025 ; 10:00 GPS Data: 39°29'01" N, 121°47'34" E
SAMPLING LOCATION, CLOSE-UP VIEW

SAMPLING LOCATION, FAR VIEW


EFFLUENT
Date & Time of Measurement: 07/05/2025 ; 9:30 GPS Data: 39°29'02" N, 121°47'36" E
SAMPLING LOCATION, CLOSE-UP VIEW

SAMPLING LOCATION, FAR VIEW




SLUDGE

Date & Time of Measurement: 07/05/2025 ; 10:40

GPS Data: 39°29'01" N, 121°47'31" E

SAMPLING LOCATION, CLOSE-UP VIEW



SAMPLING LOCATION, FAR VIEW



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Annex B: ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration



ZDHC 废水采样数据溯源代表性样品声明

ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration

ZDHC 废水采样信息 ZDHC Wastewater Sampling Information

工厂名称 Factory Name: 大连万代信互多排水服务有限公司
工厂地址 Factory Address: 辽宁省大连市普兰店区维信中心村
采样日期 Sampling Date: 2025年5月7日

采样种类 Sampling Type	<input type="checkbox"/> Incoming Water	<input checked="" type="checkbox"/> Untreated Wastewater	<input checked="" type="checkbox"/> Effluent	<input checked="" type="checkbox"/> Sludge
样品ID Sample ID:		SE25-0112-2	SE25-0112-1	SE25-0112-3
采样地点 Sampling Location:		原废水收集池	外排北渠	污泥堆场处
GPS数据 GPS Data:		N:39°27'01" E:121°24'34" W:121°27'02" E:121°24'38" N:39°29'01" E:121°27'31"		
采样时间 Sampling Time:		9:50-10:00	9:20-10:30	10:40-10:50

采样员信息 Sampler Information

采样员姓名 Sampler Name: 胡驰
采样员邮箱 Sampler E-mail: C74D106817275
ZDHC 授权采样员证书号 ZDHC Sampler Accreditation Cert. No.: shh@china.com

采样方法 Sampling Method:

Incoming Water Grab 6-hour Composite Others, please specify: _____
 Autosampler Manual

Untreated Wastewater Grab 6-hour Composite Others, please specify: _____
 Autosampler Manual

Effluent Grab 6-hour Composite Others, please specify: _____
 Autosampler Manual

Sludge Grab 6-hour Composite Others, please specify: _____
 Autosampler Manual

排放方式 Discharge Method:

Direct Indirect (w/pretreatment) Indirect (w/o pretreatment) Zero Liquid Discharge (ZLD)

ZDHC 废水采样准确性测试 QA/QC ZDHC Wastewater Sampling Accuracy Field Testing QA/QC

Parameter	LCS Known	LCS Measured	Accuracy %
pH	7.0	7.0	100
Total Chlorine	0.16	0.16	N/A

ZDHC 废水采样管尺寸 ZDHC Wastewater Flow Device Dimensions

Measurement (cm)	Meter	Pipe (D)	Flange (U)	Wear (V)
Diameter	NA	PVA	PVA	N/A
Depth	NA	NA	NA	N/A

ZDHC 废水采样管测试数据 (见附表及土壤采样记录)

ZDHC Wastewater Sample Collection Field Test Measurements (See attached data sheets of Water/Soil sampling records)

ZDHC 废水采样-工厂确认 ZDHC Wastewater Sampling - Facility Confirmation

废水样本是在工厂正常生产规模和速率下采集的。The wastewater samples have been collected under the facility's normal production scale and wastewater flow rate.

下列列出的采样点未观察到任何异常。The sampling locations listed below have not detected any abnormalities.

工厂名称 Factory Name: 大连万代信互多排水服务有限公司
工厂代表姓名 Factory Representative Name: Fima
工厂代表签名 Factory Representative Signature and Stamp: [Signature and Stamp]

采样员姓名 Sampler Name: 胡驰
ZDHC 授权采样员证书号 ZDHC Sampler Accreditation Cert. No.: C74D106817275
采样员签名 Sampler Signature: [Signature]

日期 Date: 2025.5.7
日期 Date: 2025.5.7

Effective date 2023.12.22



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UNTREATED WASTEWATER

SHSL-R-WI-CS-016-02



水质采样记录
Water Sampling Records

任务单号 Task Number: SL52505309637801TX 采样日期 Sampling Date: 2025, 5, 7 委托单位 Client: ITX TRADING SA
 天气状况 Weather Conditions: 晴 水体类型 Type of Water: 原水 受检单位 Factory: 大连现代煤化工有限公司
 其他仪器设备 (名称、编号) Other instruments and equipment (name, number): PH: 10.90
 参考采样规范 Reference Sampling Specification: ZDHC-SAP Others:

样品编号 Sample Number	采样位置 Sampling Location	采样时间 Sampling Time (Hours)	温度 Temp (°C)		pH	溶解氧 Dissolved Oxygen (mg/L)	总氯 Total Chlorine (mg/L)	废水流量 Wastewater Flow Meter (L/min)	交替测量流量 Alternate Measured Flow		采样体积 Sample Volume (mL)	容器材质 Container Material	保存方式 Storage Method	可见颜色 Visible Colour	持久性泡沫 Persistent Foam (Yes/No)
			废水排放 Wastewater Discharge	接收水体 Receiving Water					深度 Depth (cm)	速度 Velocity (cm/s)					
SL52505309637801TX-01S-2	原水	9:50-10:00	26.4	—	8.0	—	—	—	—	—	4990	DTG	1-2-3-4	淡蓝色	无
		1													
		2													
		3													
		4													
		5													
		6													
均值 Average															

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。
 Container material: P for PE bottles, G for glass bottles, VOA vial for brown glass bottles, ST.Steel for stainless steel, G-TLC for brown glass bottles with Teflon lining lids, P(A) for pickled plastic bottles, G(A) = Glass (Acid Washed) for pickled glass bottles.
 水质表现: 水体颜色、气味、有无悬浮物等。 Apparent water quality: water color, smell, presence or absence of floating objects, etc.
 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。
 Surrounding environment: whether there is a sewage outlet, whether there is a stagnant water area, a backwater area, whether there is a residential area, an industrial area, whether there is a residential area, an industrial area and a pesticide and fertilizer use area, etc.
 保存方式 Storage method: 密封 Sealed 冷藏 Refrigeration 避光 Protect from light 减振减噪 Vibration reduction 5.其他 Others: _____

照片拍摄时间 Time of Photo: 10:00
 其他现场信息: Additional on-site information: _____

采样员 Sampler: 胡迪

客户确认 Client Confirmation: Fiona

Effective date: 2023.12.26



SGS-CTC (Shanghai) Technical Services Co., Ltd.
 Softline Laboratory

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EFFLUENT



水质采样记录
Water Sampling Records

SHSL-R-WI-CS-016-02

任务单号 Task Number: SL525-0112-1 采样日期 Sampling Date: 2025, 5, 7 委托单位 Client: ITX TRADING SA
 天气状况 Weather Conditions: 晴 水体类型 Type of Water: 排放废水 受检单位 Factory: 大连万代拉瓦多洗衣服装有限公司
 其他仪器设备 (名称、编号) Other instruments and equipment (name, number): DH计 TX-904
 参考采样规范 Reference Sampling Specification: ZDHC-SAP Others:

样品编号 Sample Number	采样位置 Sampling Location	采样时间 Sampling Time (Hours)	温度 Temp (°C)		pH	溶解氧 Dissolved Oxygen (mg/L)	总氯 Total Chlorine (mg/L)	废水流量 Wastewater Flow Meter (L/min)	交替测量流量 Alternate Measured Flow		采样体积 Sample Volume (mL)	容器材质 Container Material	保存方式 Storage Method	可见颜色 Visible Colour	持久性泡沫 Persistent Foam (Yes/No)
			废水排放 Wastewater Discharge	接收水体 Receiving Water					深度 Depth (cm)	速度 Velocity (cm/s)					
SL525-0112-1	外排废水	0 9:20-9:30	23.9		7.6									近无色	无
		1 10:20-10:30	24.2		7.7									近无色	无
		2 11:20-11:30	24.5		7.8		工厂提供							近无色	无
		3 12:20-12:30	24.6		7.7		11.55			330	PTG	1-2-3-4		近无色	无
		4 13:20-13:30	24.9		7.7		2.4/天							近无色	无
		5 14:20-14:30	25.2		7.8									近无色	无
		6 15:20-15:30	25.5		7.8									近无色	无
均值 Average			24.7		7.7										

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) 代表清洗过的塑料瓶; G(A) = Glass (Acid Washed) 酸洗过的玻璃瓶。
 Container material: P for PE bottles, G for glass bottles, VOA vial for brown glass bottles, ST.Steel for stainless steel, G-TLC for brown glass bottles with Teflon lining lids, P(A) for pickled plastic bottles, G(A) = Glass (Acid Washed) for pickled glass bottles.
 水质表观: 水体颜色、气味、有无漂浮物等。 Apparent water quality: water color, smell, presence or absence of floating objects, etc.
 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。
 Surrounding environment: whether there is a sewage outlet, whether there is a stagnant water area, a backwater area, whether there is a residential area, an industrial area, whether there is a residential area, an industrial area and a pesticide and fertilizer use area, etc.
 保存方式 Storage method: 标签完好 Unbroken label 冷藏 Refrigeration 避光 Protect from light 减振措施 Vibration reduction 5. 其他 Others: _____

照片拍摄时间 Time of Photo: 9:30
 其他现场信息: 其他现场信息 Additional on-site information

采样员 Sampler: 胡驰

客户确认 Client Confirmation: J, onal

Effective date: 2023.12.26



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Annex C: Limit according to FACTORY DISCHARGE LICENCE BASED ON GB 4287-2012 Discharge standards

1、废水污染物排放许可限值

(1) 主要排放口

排放口编号	排放口名称	污染物种类	许可排放浓度限值 (mg/L)
DW001	总排口	流量	/
DW001	总排口	pH值	6-9
DW001	总排口	悬浮物	100mg/L
DW001	总排口	苯胺类	1.0mg/L
DW001	总排口	可吸附有机卤化物	12mg/L
DW001	总排口	溶解性总固体 (全盐类)	/mg/L
DW001	总排口	动植物油	100mg/L
DW001	总排口	色度	80
DW001	总排口	化学需氧量	200mg/L
DW001	总排口	五日生化需氧量	50mg/L
DW001	总排口	二氧化氯	0.5mg/L
DW001	总排口	氨氮 (NH3-N)	20mg/L
DW001	总排口	总氮 (以N计)	30mg/L
DW001	总排口	硫化物	0.5mg/L
DW001	总排口	总磷 (以P计)	1.5mg/L

****END OF REPORT****

