LAB REPORT

Report Number	**(6624)092-1190**
Date of sampling	01/04/2024
Reporting Date	09/04/2024

Audit ID	168121	**Audit firm**	Bureau Veritas – SHANGHAI
Company name	Taizhou Youcheng Dyeing & Finishing Co., Ltd		
Contact person	Yin Mandong		
Type of tax - tax ID no	91321204772493079K		
Address	No. 69 Suzhou Road, Jiangyan Economic Development Zone, Taizhou City, Jiangsu Province, China		
Region state province	Jiangsu		
Town city / village	Taizhou		
Zip/Post code	225500		

Type of wastewater discharge	
Type of waste discharge	Indirect Discharge with Pre-treatment
Description of the discharge	Jiangcheng sewage treatment
Ambient temperature of receiving water body (direct discharge only):	Not Applicable

Type of treatment

PRELIMINARY	PRIMARY	SECONDARY / BIOLOGICAL	TERTIARY
☐ Screening/Sieving/Grit remover	☐ Coagulation/Flocculation	☑ Activated sludge process/Aerobic reactor	☐ Absorption with activated carbon
☑ Homogenization tank	☐ Dissolved air flotation (DAF)	☐ Biological Biofilm reactor (MBBR, SAF, RBC…)	☐ High rate filtration
☐ pH correction	☑ Sedimentation tanks or Settler/Clarifier	☐ Sequencing batch reactor (SBR)	☐ Techniques (ozonation, Fenton reaction, photo catalytic degradation…)
☐ Other	☐ Other	☐ Other	☑ Other

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Sampler accreditation certification number (ZDHC):	**C74D106818233**

Sample description

	Simple	**Composite**	**Comments**
(1) Wastewater before treatment	YES, Blue, Simple sample at 10:40	NO	/
(2) Wastewater after treatment	NO	6 hours - Time – weighted, Light yellow Composited (10:20; 11:20; 12:20; 13:20; 14:20; 15:20; 16:20)	/
(3) Sludge	NO	YES, Black solid	/

Local Legal Data	
Local Legal Standard name [a]	GB 4287-2012
Parameters (ZDHC WWG V2.1, Table 2 & 3) exceeded local regulation:	No exceeded
Discharge permit provided	YES
Discharge flow data	＞15m³/Day

Internal description – Final Test Report	
Internal codification number	(6624)092-1190
Reference sample number	Sample 1 For Before treatment; Sample 2 For After treatment & Sample 3 For Sludge
Received on	02/04/2024
Analysis carried out from	02/04/2024 to 09/04/2024
Arrival Temperature at Lab	5.10ºC
Comments	Samples received within maximum holding time.
Reporting date	09/04/2024
Date and time of the beginning of sampling	01/04/2024, 10:20
Date and time of the end of sampling	01/04/2024, 16:20
Sample holding time exceeded	NO

Report Number **(6624)092-1190**

If there are questions or concerns on this report, please contact the following persons:

General enquiry and invoicing	Mr. Henry Chen (021) 24081953 Henry.Chen@bureauveritas.com
Technical enquiry-Chemical	Mr. Steven Han (021) 24081838 Steven-Z.han@bureauveritas.com

This report shown the test result of the auxiliary chemical and/or raw material samples, which collected during particular factory audit. The results of this report shall not be used for any regulatory compliance purposes. The sampling is agreed with client.

BUREAU VERITAS
CONSUMER PRODUCTS SERVICES DIVISION (SHANGHAI)
必维申美商品检测（上海）有限公司
Laboratory Test Location实验室检测地址:
No.368, Guangzhong Road, Zhuanqiao Town, Minhang, Shanghai.
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Reviewed by:
Amy

Approved by:
Aten Wu
Technical Support

Summary of test results				
Test items	**Sample 1 (Before treatment)**	**Sample 2 (After treatment)**	**Sample 3 (Sludge)**	**Sample 4 (Leachate)**
Global effluent parameters ZDHC	**NA**	**NA**	**ND**	**NA**
Heavy metals	**NA**	**ND**	**ND**	**NA**
Alkylphenols (APs) & Alkylphenol ethoxylates (APEOs)	**ND**	**NA**	**ND**	**NA**
Chlorobenzenes & Chlorotoluenes	**ND**	**NA**	**ND**	**NA**
Chlorophenols	**ND**	**NA**	**NA**	**NA**
Restricted Aromatic Amines (Cleavable from Azo-colourants)	**ND**	**NA**	**NA**	**NA**
Dyes – Carcinogenic or Equivalent Concern	**ND**	**NA**	**NA**	**NA**
Dyes – Disperse (Sensitising)	**ND**	**NA**	**NA**	**NA**
Flame retardants	**ND**	**NA**	**NA**	**NA**
Glycols	**ND**	**NA**	**NA**	**NA**
Halogenated Solvents	**ND**	**NA**	**NA**	**NA**
Organotin compounds	**ND**	**NA**	**NA**	**NA**
Phthalates	**ND**	**NA**	**NA**	**NA**
Perfluorinated and Polyfluorinated Chemicals (PFCs)	**ND**	**NA**	**NA**	**NA**
Polycyclic Aromatic Hydrocarbons (PAHs)	**ND**	**NA**	**ND**	**NA**
Volatile Organic Compounds (VOCs)	**ND**	**NA**	**NA**	**NA**
Anti-Microbials & Biocides	**ND**	**NA**	**NA**	**NA**
Chlorinated Parafins	**ND**	**NA**	**NA**	**NA**
N,N-di-methylformamide (DMFa)	**ND**	**NA**	**NA**	**NA**
Dyes – Navy Blue Colourant	**ND**	**NA**	**NA**	**NA**
Other / Miscellaneous Chemicals	**ND**	**NA**	**NA**	**NA**
UV Absorbers	**ND**	**NA**	**NA**	**NA**

Remark (Indicated in each parameter)

ND	=	Not detected	NA	=	Not applicable
D	=	Detected	-	=	Did not perform
*	=	Not tested due to unreliable result	(f)	=	Parameter tested in field
@	=	Maximum holding time exceeded, Red flag in the ZDHC Gateway – Wastewater Module. Probable error in results due to the holding time.	(T)	=	Handling temperature exceeded
			(S)	=	Analysis was subcontracted for testing - Bureau Veritas Science and Technology Service (Xi'an) Co., Ltd
#	=	Non accredited parameter			
[a]	=	The local legal standard name and legal standard number is referenced to discharge permit (or contractual agree by CETP) that provided by company.			

Test results

1. Global effluent parameters

Parameters	Test Method	Limit			Reporting limit & LOQ	Result	Unit
		Foundational	Progressive	Aspirational		Sample X (Xxxxx Treatment)	
Temperature difference		Δ+15	Δ+10	Δ+5	N/A	NA	°C
TSS		50	15	5	5	NA	mg/L
COD		150	80	40	40	NA	mg/L
Total-N		20 mg/L	10 mg/L	5 mg/L	5	NA	mg/L
pH		6-9	6-9	6-9	N/A	NA	/
Colour [m-1]		7;5;3	5;3;2	2;1;1	N/A	NA	m^{-1}
BOD_5		30	15	8	8	NA	mg/L
Ammonium-N		10	1	0.5	0.5	NA	mg/L
Total-P		3	0.5	0.1	0.1	NA	mg/L
AOX		3	0.5	0.1	0.1	NA	mg/L
Oil and grease		10	2	0.5	0.5	NA	mg/L
Phenol		0.5	0.01	0.001	0.001	NA	mg/L
E.Coli		126	126	126	126	NA	[MPN/100 ml]
Foam		Not visible	Not visible	Not visible	N/A	NA	/
Cyanide		0.2	0.1	0.05	0.05	NA	mg/L
Sulfide		0.5	0.05	0.01	0.01	NA	mg/L
Sulfite		2	0.5	0.2	0.2	NA	mg/L
DO		Sample and report only			N/A	NA	mg/L
Total Chlorine		Sample and report only			N/A	NA	mg/L
TDS		Sample and report only			5	NA	mg/L
Chloride		Sample and report only			N/A	NA	mg/L
Sulfate		Sample and report only			N/A	NA	mg/L
Wastewater Flowrate		-			N/A	NA	m^3/day

2. Heavy metals

With reference to ISO 11885, ISO 18412, ISO 12846, ISO 17852, US EPA 200.7, US EPA 200.8, US EPA 6010c, US EPA 6020a, US EPA 218.6 and by Inductively Coupled Argon Plasma-Mass Spectrometry (ICP-MS) analysis.

Heavy metals	CAS no.	Limit			Reporting limit & LOQ	Result	Unit
		Foundational	Progressive	Aspirational		Sample 2 (After Treatment)	
Arsenic (As)	Various	0.05	0.01	0.005	0.005	ND	mg/L
Cadmium (Cd)	Various	0.1	0.05	0.01	0.01	ND	mg/L
Mercury (Hg)	Various	0.01	0.005	0.001	0.001	ND	mg/L
Lead (Pb)	Various	0.1	0.05	0.01	0.01	ND	mg/L
Antimony (Sb)	Various	0.1	0.05	0.01	0.01	NA	mg/L
Cobalt (Co)	Various	0.05	0.02	0.01	0.01	NA	mg/L
Nickel (Ni)	Various	0.2	0.1	0.05	0.05	NA	mg/L
Silver (Ag)	Various	0.1	0.05	0.005	0.005	NA	mg/L
Copper (Cu)	Various	1	0.5	0.25	0.25	NA	mg/L
Zinc (Zn)	Various	5.0	1.0	0.5	0.5	NA	mg/L
Total Chromium (Cr)	Various	0.2	0.1	0.05	0.05	NA	mg/L
Chromium VI (Cr VI)	Various	0.05	0.005	0.001	0.001	ND	mg/L
Barium (Ba)	Various	Sample and report only			1	NA	mg/L
Selenium (Se)	Various	Sample and report only			1	NA	mg/L
Tin (Sn)	Various	Sample and report only			1	NA	mg/L

Remark

ND	=	Not detected	NA	=	Not applicable
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3. Alkylphenols (APs) & AlkylphenolEthoxylates (APEOs)

NP/OP: ISO 18857-2 (modified dichloromethane extraction) or ASTM D7065 (GC-MS or LC-MS(-MS), OPEO/NPEO (n>2): ASTM D7742 ISO 18857-2

Alkylphenols (APs) & Alkylphenolethoxylates (APEOs)	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
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
Octylphenolethoxylates (OPEOs)	9002-93-1/ 9036-19-5/ 68987-90-6	5	ND	µg/L
Nonylphenolethoxylates (NPEOs)	9016-45-9/ 26027-38-3/ 37205-87-1/ 68412-54-4/ 127087-87-0	5	ND	µg/L

4. Chlorobenzenes & Chlorotoluenes

USEPA 8260D, 8270E, Purge and Trap, Head Space, Dichloromethane extraction followed by GC-MS

Chlorobenzenes & Chlorotoluenes	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
1,2-Dichlorobenzene	95-50-1	0.2	ND	µg/L
Other isomers of mono-, di-, tri-, tetra-, penta-, and hexa- chlorobenzene and mono-, di-, tri-, tetra-, and penta- chlorotoluene	Various	0.2	ND	µg/L

5. Chlorophenols

USEPA 8270E Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS, BS EN 12673-1999 the procedure of solvent extraction and derivatization are included

Chlorophenols	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
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
2,4,6-Trichlorophenol	88-06-2	0.5	ND	µg/L
2,3,5-Trichlorophenol	933-78-8	0.5	ND	µg/L
2,3,6-Trichlorophenol	933-75-5	0.5	ND	µg/L

2,4,5-Trichlorophenol	95-95-4	0.5	ND	µg/L
2,3,4-Trichorophenol	15950-66-0	0.5	ND	µg/L
3,4,5-Trichlorophenol	609-19-8	0.5	ND	µg/L
2,3,4,5-Trichlorophenol	4901-51-3	0.5	ND	µg/L
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	ND	µg/L
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	ND	µg/L
Pentachlorophenol (PCP)	87-86-5	0.5	ND	µg/L

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

Reduction step with sodium dithionite, solvent extraction EPA 8270E and ISO 14362-1 GC/MS and LC/MS/MS

Azo Dyes	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
4,4-Methylene-bis-(2-chloro-aniline)	101-14-4	0.1	ND	µg/L
4,4-methylenedianiline	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
6-methoxy-m-toluidine	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
4-methoxy-m-phenylenediamine	615-05-4	0.1	ND	µg/L
4,4-methylenedi-o-toluidine	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
4-Chloro-o-toluidine	95-69-2	0.1	ND	µg/L
4-Methyl-m-phenylenediamine	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

7. Dyes – Carcinogenic or Equivalent Concern

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

Carcinogenic dyes	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
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	500	ND	µg/L
C.I. Disperse Blue 3	2475-46-9	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	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

8. Dyes – Disperse (Sensitising)

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

Disperse dyes	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
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

9. Flame retardants

USEPA 8270E, ISO 22032, USEPA 527 and USEPA 8321B Dichloromethane extraction GC-MS or LC-MS(-MS)
Determined as total boron via ICP

Brominated flame retardants	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	ND	µg/L
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	ND	µg/L
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	ND	µg/L
Bis(2,3-dibromopropyl) phosphate	5412-25-9	25	ND	µg/L
Tris(1-aziridinyl)phosphine oxide) (TEPA)	545-55-1	25	ND	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	25	ND	µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	25	ND	µg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	25	ND	µg/L
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	ND	µg/L

Decabromobiphenyl (DecaBB)	13654-09-6	25	ND	µg/L
Dibromobiphenyls (DiBB)	Various	25	ND	µg/L
Octabromobiphenyls (OctaBB)	Various	25	ND	µg/L
Dibromopropylether	21850-44-2	25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	ND	µg/L
Monobromobiphenyls (MonoBB)	Various	25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Various	25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Various	25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Various	25	ND	µg/L
Boric acid	10043-35-3/ 11113-50-1	100[d]	ND	µg/L
Diboron trioxide	1303-86-2	100[d]	ND	µg/L
Disodium octaborate	12008-41-2	100[d]	ND	µg/L
Disodium tetraborate anhydrous	1303-96-4/ 1330-43-4	100[d]	ND	µg/L
Tetraboron disodium heptaoxide, hydrate	12267-73-1	100[d]	ND	µg/L

d = Limit refers to elemental boron, not the salt

10. Glycols

USEPA 8270E Liquid extraction, LC-MS GC-MS

Glycols	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
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

11. Halogenated Solvents

USEPA 8260D Headspace GC-MS or Purge and trap GC-MS

Chlorinated solvents	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
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

12. Organotin compounds

ISO 17353 derivatisation with NaB (C2H5)4 GC-MS

Organotin compounds	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
Mono-, di-and tri-methyltin derivatives	Various	0.01	ND	µg/L
Mono-, di-and tri-butyltin derivatives	Various	0.01	ND	µg/L
Mono-, di-and tri-phenyltin derivatives	Various	0.01	ND	µg/L
Mono-, di-and tri-octyltin derivatives	Various	0.01	ND	µg/L
Triclyclohexyltin (TCyHT)	Various	0.01	ND	µg/L
Dipropyltin compounds (DPT)	Various	0.01	ND	µg/L
Tetrabutyltin compounds (TeBT)	Various	0.01	ND	µg/L
Tripropyltin compounds (TPT)	Various	0.01	ND	µg/L
Tetraoctyltin compounds (TeOT)	Various	0.01	ND	µg/L
Tetraethyltin compounds (TeET)	Various	0.01	ND	µg/L

13. Phthalates

USEPA 8270E, ISO 18856 Dichloromethane extraction GC-MS

Phthalates	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	10	ND	µg/L
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	10	ND	µg/L
Di-n-octyl phthalate (DNOP)	117-84-0	10	ND	µg/L
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
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 linear alkyl esters (DHNUP)	68515-42-4/ 68515-50-4	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C6-11-branched alkyl esters, C7-rich (DIHP)	71888-89-6/ 84777-06-0	10	ND	µg/L
Di-n-pentylphthalates	131-18-0	10	ND	µg/L
Diisopentylphthalates	605-50-5	10	ND	µg/L
Dinonyl phthalate (DNP)	84-76-4	10	ND	µg/L

14. Perfluorinated chemicals (PFCs)

PFCs: EPA 537:2020, FTOH: BS EN 12673-1999, EPA 8270, PFCs: LC-MSMS, FTOH: GC-MS derivatisation with acetic anhydride followed by GC-MS

Perfluorinated chemicals (PFCs)	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
Perfluorooctane sulfonic acid (PFOS) and related substances, Perfluorooctanoic acid (PFOA)	Various	0.01	ND	µg/L
Perfluorooctanoic acid (PFOA) related substances	Various	1	ND	µg/L

15. Polycyclic aromatic hydrocarbons (PAHs)

USEPA 8270E DIN 38407-39 solvent extraction GC-MS

Polycyclic aromatic hydrocarbons (PAHs)	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
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
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

16. Volatile organic compounds (VOCs)

ISO 11423-1 Headspace or Purge and trap GC-MS USEPA 8260D Add ISO 20595 Static headspace for determination of VOC in wastewater
ISO 11423-1 Headspace or Purge and trap GC-MS EPA 8270 BS EN 12673-1999
ISO 11423-1 Headspace or Purge and trap GC-MS USEPA 8260D
HJ 1067 or EPA 8260D or ISO 11423-1

Volatile organic compounds (VOCs)	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
Benzene	71-43-2	1	ND	µg/L
Xylene	1330-20-7	1	ND	µg/L
o-cresol	95-48-7	1	ND	µg/L
p-cresol	106-44-5	1	ND	µg/L
m-cresol	108-39-4	1	ND	µg/L
Toluene[a]	108-88-3	1	ND	µg/L

a = report only for mock leather, reporting limit does not apply for mock leather

17. Anti-Microbials & Biocides

USEPA 8270E Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS BS EN 12673-1999
USEPA 8270E Solvent extraction followed by GC-MS or ISO 14154:2005 and determination by LCMS/LCMSMS

Anti-Microbials & Biocides	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
o-Phenylphenol (+salts)	90-43-7	100	ND	µg/L
Triclosan	3380-34-5	100	ND	µg/L
Permethrin	Various	500	ND	µg/L

18. Chlorinated Parafins

EPA 3510 and analyzed by ISO18219-2:2021 Method for MCCP with GC-MS(NCI) or LC-MS/MS
EPA 3510 and analyzed by ISO18219-1:2021, ISO 12010:2019 Methods for SCCP with GC-MS(NCI) or LC-MS/MS

Chlorinated Parafins	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
Medium-chain chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	500	ND	µg/L
Short-chain chlorinated paraffins (C10-C13)	85535-84-8	25	ND	µg/L

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

EPA 8015, EPA 8270E

N,N-di-methylformamide (DMFa)	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
Dimethyl formamide; N,N-dimethylformamide (DMFa)[a]	68-12-2	1000	ND	µg/L

a = report only for mock leather, reporting limit does not apply for mock leather

20. Dyes – Navy Blue Colourant

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

Dyes – Navy Blue Colourant	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	500	ND	µg/L
Component 2: C46H-30CrN10O20S2 3Na	Not allocated	500	ND	µg/L

21. Other /Miscellaneous Chemicals

By Liquid Chromatography Mass Spectrometry (LC-MS or LC-MS-MS) analysis.
Determine as total boron and total zinc via ICP

Other /Miscellaneous Chemicals	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
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 – borate, zinc salt	12767-90-7	100[b]	ND	µg/L
Zinc salt – borate, zinc salt			ND	µg/L
Silica (used in sand blasting)[c]	14464-46-1	N/A	NA	µg/L

b = Limit refers to boron and zinc individually, not the salt
c = Not required to test this parameter as this is related to sand blasting

22. UV Absorbers

USEPA 8270 ISO 22032, USEPA 527 and USEPA 8321B.
Dichloromethane extraction GC-MS or LC-MS(-MS)

UV Absorbers	CAS no.	Reporting limit & LOQ	Result Sample 1 (Before treatment)	Unit
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-chlorobenzotrizole-2-yl) phenol (UV-327)	3864-99-1	100	ND	µg/L

23. Sludge Parameters – Step 1 – Metals (Sludge Disposal Pathway = A)

With reference to EPA 3015A, 6020A, 200.8, 6020B, 3051A and ISO 17294-2 and analyzed by ICP-MS

Sludge Parameters - Metals	CAS no.	Reporting limit & LOQ	Result Sample 3 (Sludge)	Unit
Arsenic	-	5	5.1	mg/kg
Barium	-	200	450.1	mg/kg
Cadmium	-	1	2.9	mg/kg
Cobalt	-	400	ND	mg/kg
Copper	-	50	125.8	mg/kg
Lead	-	5	8.3	mg/kg
Nickel	-	20	ND	mg/kg
Selenium	-	5	ND	mg/kg
Silver	-	50	ND	mg/kg
Total Chromium	-	50	ND	mg/kg
Zinc	-	400	ND	mg/kg
Chromium (VI)	-	20	ND	mg/kg
Mercury	-	1	ND	mg/kg
Antimony	-	5	ND	mg/kg

24. Sludge Parameters – Step 1 - Anions

ISO 6703-1 & 2, ISO 14403-1 & 2, USEPA 335.2, APAH 4500-CN or HJ 484

Sludge Parameters - Anions	CAS no.	Reporting limit & LOQ	Result Sample 3 (Sludge)	Unit
Cyanide	-	20	ND	mg/kg

25. Sludge Parameters – Step 1 - Conventional

With reference to ISO 10523, EPA 150.2, APHA 4500-H+
USEPA 160.3
EPA SW-846 or EPA 9095B
EPA 1681

Sludge Parameters - Conventional	CAS no.	Reporting limit & LOQ	Result Sample 3 (Sludge)	Unit
pH	-	/	7.56	-
% Solids	-	/	28.1	%
Paint Filter Test	-	/	Pass	-
Fecal Coliform	-	/	ND(S)	MPN/g

26. Sludge Parameters – Step 1 – MRSL – Alkylphenols (APs) and Alkylphenol Ethoxylates (APEOs): including all isomers

NP/OP: ISO 18857-2 (modified dichloromethane extraction) or ASTM D7065 (GC-MS or LC-MS(-MS), OPEO/NPEO (n>2): ASTM D7742 ISO 18857-2

Sludge Parameters – APs and APEOs	CAS no.	Reporting limit & LOQ	Result Sample 3 (Sludge)	Unit
Nonylphenol ethoxylates (NPEO)	Various	0.4	ND	mg/kg
Nonylphenol (NP), mixed isomers	Various	0.4	ND	mg/kg
Octylphenol ethoxylates (OPEO)	Various	0.4	ND	mg/kg
Octylphenol (OP), mixed isomers	Various	0.4	ND	mg/kg

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

USEPA 8270E DIN 38407-39 Solvent extraction GC-MS

Sludge Parameters – PAHs	CAS no.	Reporting limit & LOQ	Result Sample 3 (Sludge)	Unit
Acenaphthene	83-32-9	0.2	ND	mg/kg
Acenaphthylene	208-96-8	0.2	ND	mg/kg
Anthracene	120-12-7	0.2	ND	mg/kg
Benzo[a]anthracene	56-55-3	0.2	ND	mg/kg
Benzo[a]pyrene (BaP)	50-32-8	0.2	ND	mg/kg

Benzo[b]fluoranthene	205-99-2	0.2	ND	mg/kg
Benzo[e]pyrene	192-97-2	0.2	ND	mg/kg
Benzo[ghi]perylene	181-24-2	0.2	ND	mg/kg
Benzo[j]fluoranthene	205-82-3	0.2	ND	mg/kg
Benzo[k]fluoranthene	207-08-9	0.2	ND	mg/kg
Chrysene	218-01-9	0.2	ND	mg/kg
Dibenz[a,h]anthracene	53-70-3	0.2	ND	mg/kg
Fluoranthene	206-44-0	0.2	ND	mg/kg
Fluorene	86-73-7	0.2	ND	mg/kg
Indeno[1,2,3-cd]pyrene	193-39-5	0.2	ND	mg/kg
Naphthalene	91-20-3	0.2	ND	mg/kg
Phenanthrene	85-01-8	0.2	ND	mg/kg
Pyrene	129-00-0	0.2	ND	mg/kg

28. Sludge Parameters – Step 1 – MRSL – Chlorotoluenes

USEPA 8260D, 8270E, Purge and Trap, Head Space, Dichloromethane extraction followed by GC-MS

Sludge Parameters – Chlorotoluenes	CAS no.	Reporting limit & LOQ	Result Sample 3 (Sludge)	Unit
Isomers of mono-, di-, tri-, tetra- and penta chlorotoluene	Various	0.2	ND	mg/kg

29. Sludge Parameters – Step 2 – Metals

With reference to EPA 3015A, 6020A, 200.8, 6020B, 3051A and ISO 17294-2 and analyzed by ICP-MS

Sludge Parameters – Step 2 - Metals	CAS no.	LOQ	Reporting limit	Result Sample 4 (Leachate)	Unit
Antimony	-	0.6	/	NA	mg/L
Arsenic	-	0.5	/	NA	mg/L
Barium	-	35	/	NA	mg/L
Cadmium	-	0.15	/	NA	mg/L
Cobalt	-	80	/	NA	mg/L
Copper	-	10	/	NA	mg/L
Lead	-	0.5	/	NA	mg/L
Nickel	-	3.5	/	NA	mg/L
Selenium	-	0.5	/	NA	mg/L
Silver	-	5	/	NA	mg/L

Total Chromium	-	5	/	ND	mg/L
Zinc	-	50	/	ND	mg/L
Chromium (VI)	-	2.5	/	NA	mg/L
Mercury	-	0.05	/	NA	mg/L

Remark

ND	=	Not detected	NA	=	Not applicable
D	=	Detected	-	=	Did not perform
*	=	Not tested due to unreliable result	(f)	=	Parameter tested in field
@	=	Maximum holding time exceeded, Red flag in the ZDHC Gateway – Wastewater Module. Probable error in results due to the holding time.	(T)	=	Handling temperature exceeded
			(S)	=	Analysis was subcontracted for testing - Bureau Veritas Science and Technology Service (Xi'an) Co., Ltd

Annex A: Sampling photos & Sampling locations

Sample 1 – Sampling Point

N 32° 30’ 47.06”, E 120° 06’ 26.39”

Sample 1 – Sampling Point Surrounding Environment

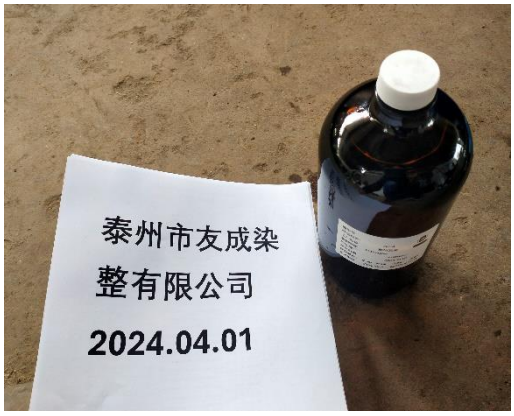
N 32° 30’ 47.06”, E 120° 06’ 26.39”

Sample 1 – Labelled Sample Bottles

N 32° 30’ 47.06”, E 120° 06’ 26.39”

Sample 1 – Sample for Phthalate Test

N 32° 30’ 47.06”, E 120° 06’ 26.39”



Sample 1 – Sample Packaging

N 32° 30’ 47.06”, E 120° 06’ 26.39”

Annex A: Sampling photos & Sampling locations (continued)

Sample 2 – Sampling Point

N 32° 30’ 50.00”, E 120° 06’26.52”

Sample 2 – Sampling Point Surrounding Environment

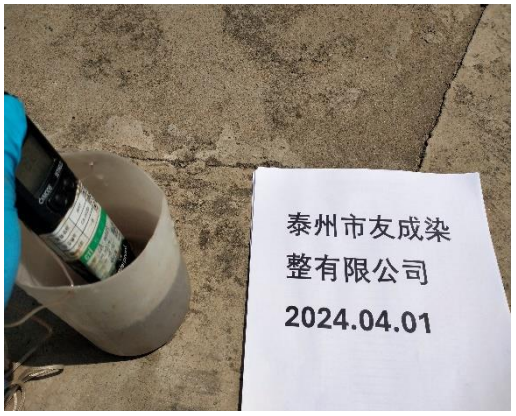
N 32° 30’ 50.00”, E 120° 06’26.52”

Sample 2 – Labelled Sample Bottles

N 32° 30’ 50.00”, E 120° 06’26.52”

Sample 2 – pH Measurement

N 32° 30’ 50.00”, E 120° 06’26.52”



Sample 2 – Sample Packaging

N 32° 30’ 50.00”, E 120° 06’26.52”

Annex A: Sampling photos & Sampling locations (continued)

Sample 3 – Sampling Point

N 32° 30’ 49.36”, E 120° 06’24.62”

Sample 3 – Sampling Point Surrounding Environment

N 32° 30’ 49.36”, E 120° 06’24.62”

Sample 3 – Labelled Sample Bottles

N 32° 30’ 49.36”, E 120° 06’24.62”

Sample 3 – Sample Packaging

N 32° 30’ 49.36”, E 120° 06’24.62”

Annex B: On-site Field Data Record Sheet

FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	CPSD-AN-00613-DATA 04 Issue Date: Version No.: 17 Business Line: Analytical

General Data

Laboratory Sample Number:	6624 092 1190
Client Name:	
Field Contact Person:	Phone No: 15188523377
Project (Facility Name and Address):	
Sampling Location / Description:	GTW 2.1
Sample Identification:	GTW 2.1
Sample Type:	Composite Sample / Grab sample (Please delete as appropriate) 污水处理站集中池：1000m³
Name of Sampler:	
Discharge mode:	Direct discharge to environment (Specify destination: River, Sea, Stream...) OR Indirect discharge to sewage treatment plant ✓
Date of collection:	2024.04.01
Factory Type:	Dyeing / Printing / Washing / Finishing / Others (please specify):

*Note: It would be selected more than one

Field Data for Wastewater

Arrival Time:	10:15		Departure Time:		16:30				
Field Parameters	pH :		Temp : °C		Color :		Flow rate : (volume/min)		
Control No. of field equipment									
Factory with effluent treatment plant:	Yes ✓				No				
Sample matrix:		Incoming water (If required)							
	✓	Wastewater before treatment							
		Wastewater after treatment – water at discharge point							
Sampler container number	AL								
	1	2	3	4	5	6	7	8	
Recording time ID	✓								
Recording time Time	10:40								
pH :	8.0								
Temp (°C) :	27.8								
Color (visual estimation):	较多								
Flow rate (volume/time)	1000 m³/小时								
Volume collected, mL	0.8L								
Total volume collected	0.8L	Remark: Total volume collected must be greater than total of sample size required							

Analysis Required and Preservation Method

Tests (ZDHC MRSL Parameters)		Test required (√)	Total of sample size	Type of container	Preservation method
Combined test or Individual test (Remark 4)	1. Phthalate	✓	1000 mL total or 1000 mL each	Amber Glass,washed with nitric acid,	Without adding acid Store sample at 2-8°C
	2. Chlorobenzenes, Chlorotoluene & PAH	✓			
	3. SCCPs	✓			
	4. APS	✓			
5. APEOs		✓	100 mL		
6. Chlorophenols & Cresols		✓	100 mL		
7. Flame retardant		✓	500 mL		
8. Dyes		✓	10 mL		
9. Glycol		✓	50 mL		
10. *Pesticides			1000 mL		
11. *Nitrosamine			10 mL		
12. Banned Azodyes		✓	2000 mL		
13. *Free primary aromatic amines			500 mL		
14. Organotin Compounds		✓	500 mL		
15. UV absorbers		✓	100		
16. BPA		✓	2		
17 Preservatives		✓	52		
18. VOC & Halogenated Solvents (Remark 6)		✓	10 mL		Fill to full container without air gap, acidify to pH 2 with HCl and store sample at 2-8°C
19. PFCs (Remark 6)		✓	2 mL	PE, washed with pesticide grade Acetone	Without adding acid Store sample at 2-8°C

Annex B: On-site Field Data Record Sheet (continued)

Tests (Conventional Parameters)		Test required (√)	Total of sample size	Type of container	Preservation method
Combined test or Individual test (Remark 4)	20. Total suspened solids (TSS)		2000 mL total or 2000 mL each	Amber Glass, washed with nitric acid.	Without adding acid Store sample at 2-8°C
	21. Total dissolved solids (TDS)				
22. 5-day Biochemical Oxygen Demand (BOD5)			1000 mL		
23. Colour			100 mL		
24. Heavy Metals except Cr(VI) & Total-P (Remark 6)		√	9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO_3 and store at 2-8°C
25. Cyanide		√	500 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% $Na_2S_2O_3$ and store sample at 2-8°C
26. Cr(VI)		√	95 mL	Amber Glass; washed with nitric acid	Filter by 0.45μm filter in field, fill to full container without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer. Store sample at 2-8°C
27. Chemical oxygen demand (COD)			150 mL		Acidify to pH 2 with H_2SO_4 Store sample at 2-8°C
28. Phenols			500 mL		
29. Oil and Grease & Total Hydrocarbon			1000 mL		
30. *Formaldehyde			25 mL		Fill to full container without air gap; acidify to pH 2 with H_2SO_4 and store sample at 2-8°C
31. Sulfide (Remark 5)			50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C
32.E.coli (Remark 6)			125 mL	PE, clean, sterile, non-reactive	Add 0.1 ml of 10% $Na2S2O3$,keep in dark Store sample at 2-8°C
33. Persistent foam			N.A.	Foam higher than 45 cm (visual estimation): Yes / No	
34. Sulfite			100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA Store sample at 2-8°C
35. Total-N			100 mL	Amber Glass;washed with nitric acid;	Acidify to pH 2 with H_2SO_4 Store sample at 2-8°C
36. Ammonium-N			500 mL		
37. Adsorbable organically bound halogens (AOX)			100 mL		Acidify to pH 2 with HNO_3 and store at 2-8°C
38. Acute aquatic toxicity: Luminus Bacteria; Fish Egg; Daphne; Alage;			1000 mL		Without adding acid Store sample at 2-8°C
39. Sulphate			100 mL		
40. Chloride			100 mL		
41. Conductivity			100 mL		
42. Dissolved oxygen (DO)			N.A.	measure in field	
43. Total Chlorine			N.A.		
44. Others:					
Observation/ Remark:					

*Remarks:

1.Individual sampling can be performed upon request

2. The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.

3. Scope of ZDHC guideline: Parameter 1-9, 12, 14-29, 31-37, 39-43

Scope of synthetic leather industry: Parameter 1-9, 12, 14-24, 26-29, 31-33, 35, 36, 39, 40

Scope of MMCF: Parameter 5, 18, 20, 22-24, 26-29, 31, 35-38

Free primary aromatic amine, pesticides, nitrosamine and formaldehyde are not in the scope of ZDHC Guidline, they are tested upon request.

4. Refer to CPSD-AN-G00018-STIP01, loactions with those CPSD test capability inside TCD matrix can perform the combined test.

5. Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.

6. Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by: [redacted] Date: 2024.04.01

Full name: [redacted]

Comment from factory

[redacted] GPS: E120°6'26.39" N32°30'47.36"

Acknowledgement by factory

I hereby confirmed that Bureau Veritas has completed the listed sampling activity at captioned date, time and location. All sample(s) is/are collected in desinated container(s) and without any observation in leakage. Sample(s) collected by Bureau Veritas is/are stored in portable freezer / fridge that is maintained in 1-5°C

Signatory of Factory Representative: [redacted] Date: 2024.4.1

Full Name: [redacted]

Annex B: On-site Field Data Record Sheet (continued)

FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)

CPSD-AN-00613-DATA 04
Issue Date:
Version No.: 17
Business Line: Analytical

General Data

Laboratory Sample Number:	6624092119
Client Name:	
Field Contact Person:	Phone No: 15258523377
Project (Facility Name and Address):	绍兴市[illegible] / 绍兴市[illegible]
Sampling Location / Description:	纺织污水排放口
Sample Identification:	GTW 2.1
Sample Type:	Composite Sample / Grab sample (Please delete as appropriate)
Name of Sampler:	[illegible]
Discharge mode:	Direct discharge to environment (Specify destination: River, Sea, Stream....) OR Indirect discharge to sewage treatment plant ✓
Date of collection:	2024.04.01
Factory Type:	Dyeing / Printing / Washing / Finishing / Others (please specify):

*Note: It would be selected more than one

Field Data for Wastewater

Arrival Time:	10:15		Departure Time:		16:30			
Field Parameters	pH :		Temp : °C		Color :		Flow rate : (volume/min)	
Control No. of field equipment								
Factory with effluent treatment plant:	Yes ✓				No			
Sample matrix:		Incoming water (If required)						
		Wastewater before treatment						
	✓	Wastewater after treatment – water at discharge point						
Sampler container number	A3	A3	A3	A3	A3	A3	A3	
	1	2	3	4	5	6	7	8
Recording time ID	✓	✓	✓	✓	✓	✓	✓	
Recording time Time	10:20	11:20	12:20	13:20	14:20	15:20	16:20	
pH :	7.8	7.6	7.7	7.6	7.8	7.4	7.6	
Temp (°C) :	26.4	25.9	26.1	26.2	25.8	26.1	26.2	
Color (visual estimation):	微黄	微黄	微黄	微黄	微黄	微黄	微黄	
Flow rate (volume/time)	1000 ml/hour	✓	✓	✓	✓	✓	✓	
Volume collected, mL	100 mL	100 mL	100 mL	150 mL	100 mL	100 mL	100 mL	
Total volume collected	750 mL	Remark: Total volume collected must be greater than total of sample size required						

Analysis Required and Preservation Method

Tests (ZDHC MRSL Parameters)		Test required (Y)	Total of sample size	Type of container	Preservation method
Combined test or Individual test (Remark 4)	1. Phthalate		1000 mL total or 1000 mL each	Amber Glass,washed with nitric acid,	Without adding acid Store sample at 2-8°C
	2. Chlorobenzenes, Chlorotoluene & PAH				
	3. SCCPs				
	4. APS				
5. APEOs			100 mL		
6. Chlorophenols & Cresols			100 mL		
7. Flame retardant			500 mL		
8. Dyes			10 mL		
9. Glycol			50 mL		
10. *Pesticides			1000 mL		
11. *Nitrosamine			10 mL		
12. Banned Azodyes			2000 mL		
13. *Free primary aromatic amines			500 mL		
14. Organotin Compounds			500 mL		
15. UV absorbers			100		
16. BPA			2		
17 Preservatives			52		
18. VOC & Halogenated Solvents (Remark 6)			10 mL		Fill to full container without air gap; acidify to pH 2 with HCl and store sample at 2-8°C
19. PFCs (Remark 6)			2 mL	PE, washed with pesticide grade Acetone	Without adding acid Store sample at 2-8°C

Annex B: On-site Field Data Record Sheet (continued)

Tests (Conventional Parameters)	Test required (√)	Total of sample size	Type of container	Preservation method
Combined test or Individual test (Remark 4): 20. Total suspened solids (TSS)		2000 mL total or 2000 mL each	Amber Glass, washed with nitric acid,	Without adding acid Store sample at 2-8°C
Combined test or Individual test (Remark 4): 21. Total dissolved solids (TDS)				
22. 5-day Biochemical Oxygen Demand (BOD5)		1000 mL		
23. Colour		100 mL		
24. Heavy Metals except Cr(VI) & Total-P (Remark 6)	√	9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO_3 and store at 2-8°C
25. Cyanide		500 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% $Na_2S_2O_3$, and store sample at 2-8°C
26. Cr(VI)	√	95 mL	Amber Glass; washed with nitric acid	Filter by 0.45μm filter in field, fill to full container without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer. Store sample at 2-8°C
27. Chemical oxygen demand (COD)		150 mL		Acidify to pH 2 with H_2SO_4 Store sample at 2-8°C
28. Phenols		500 mL		
29. Oil and Grease & Total Hydrocarbon		1000 mL		
30. *Formaldehyde		25 mL		Fill to full container without air gap; acidify to pH 2 with H_2SO_4 and store sample at 2-8°C
31. Sulfide (Remark 5)		50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C
32.E.coli (Remark 6)		125 mL	PE, clean, sterile, non-reactive	Add 0.1 ml of 10% Na2S2O3 ,keep in dark Store sample at 2-8°C
33. Persistent foam		N.A.	Foam higher than 45 cm (visual estimation): ___Yes / No	
34. Sulfite		100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA Store sample at 2-8°C
35. Total-N		100 mL	Amber Glass;washed with nitric acid;	Acidify to pH 2 with H_2SO_4 Store sample at 2-8°C
36. Ammonium-N		500 mL		
37. Adsorbable organically bound halogens (AOX)		100 mL		Acidify to pH 2 with HNO_3 and store at 2-8°C
38. Acute aquatic toxicity: Luminus Bacteria; Fish Egg; Daphne; Alage;		1000 mL		Without adding acid Store sample at 2-8°C
39. Sulphate		100 mL		
40. Chloride		100 mL		
41. Conductivity		100 mL		
42. Dissolved oxygen (DO)	6.73mg/L	N.A.	measure in field	
43. Total Chlorine	0.0mg/L	N.A.		
44. Others:				
Observation/ Remark:				

*Remarks:

1.Individual sampling can be performed upon request

2. The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.

3. *Scope of ZDHC guideline:* Parameter 1-9, 12, 14-29, 31-37, 39-43

   Scope of synthetic leather industry: Parameter 1-9, 12, 14-24, 26-29, 31-33, 35, 36, 39, 40

   Scope of MMCF: Parameter 5, 18, 20, 22-24, 26-29, 31, 35-38

   Free primary aromatic amine, pesticides, nitrosamine and formaldehyde are not in the scope of ZDHC Guidline, they are tested upon request.

4. Refer to CPSD-AN-G00019-STIP01, loactions with those CPSD test capability inside TCD matrix can perform the combined test.

5. Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.

6. Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by: 汪磊 Full name: Date: 2024.04.01

Comment from factory: 排污口GPS: E 120°6'26.52" N32°30'52.00"

Acknowledgement by factory

I hereby confirmed that Bureau Veritas has completed the stated sampling activity at captioned date, time and location. All sample(s) is/are collected in desinated container(s) and without any observation in leakage. Sample(s) collected by Bureau Veritas are stored in portable freezer / fridge that is maintained in 1-6°C

Signatory of Factory Representative: Full Name: [signature] (stamp: …友成染整有限公司 3212840101919) Date: 2024.4.1

CPSD-AN-00613-DATA 04-FIELD DATA RECORD ZDHC SAMPLING-V17.xls Page 2 of 4

Annex B: On-site Field Data Record Sheet (continued)

Field Data for Sludge

Arrival Time:	12:15		Departure Time:		16:30				
Field Parameters	pH :	Temp : °C		Flow rate (volume/time) / sludge flux (weight/time):					
Control No. of field equipment			黑色						
		1	2	3	4	5	6	7	8
Recording time	ID	✓							
	Time	11:50							
pH :		-							
Temp (°C) :		✓							
Flow rate (volume/time) / sludge flux (weight/time)		✓							
Volume collected, mL		1252mL							
Total volume collected		1252mL	Remark: Total volume collected must be greater than total of sample size required						

Analysis Required and Preservation Method

Factory with effluent treatment plant			Yes		No
Sample matrix		✓	Sludge in clarifier (sedimentation tank)		
Sampler container number		A4			
Recording time		11:50			
Tests (MRSL Parameter)		**Test required (√)**	**Total of sample size**	**Type of container**	**Preservation method**
Combined test or Individual test (Remark 3)	1. Phthalate	✓	10g total or 10g each	Amber Glass, washed with nitric acid	Add 0.2 mL of 10% $Na_2S_2O_3$ (0.008% W/W). Store sample at 4°C
	2. Chlorobenzenes, Chlorotoluene & PAHs	✓			
	3. SCCPs				
	4. APS	✓			
5. APEOs		✓	20 g		
6. Flame retardant			10 g		
7. Dyes			10 g		
8. Glycols			100 g		
9. *Pesticides			20g		
10. Banned Azodyes			20 g		
11. *Free primary aromatic amines			10 g		
12. Chlorophenols & Cresols			20 g		Acidify to ~pH 2 with H_2SO_4. Add 0.02 mL of 10% $Na_2S_2O_3$ (0.008% W/V). Store sample at 4°C
13. Organotin Compounds			10 g		Fill to full container without any air gap and acid add and store at 4°C
14. VOC & Halogenated Solvents (Remark 5)			10 g		Fill to full bottle without any air gap. Acidify to ~pH 2 with HCl. Store sample at 4°C
15. PFCs (Remark 5)			10 g	PE, wash with pesticide garde acetone	Add 0.02 mL of 10% $Na_2S_2O_3$ (0.008% W/V). Store sample at 4°C

Tests (Conventional Parameters)	**Test required (√)**	**Total of sample size**	**Type of container**	**Preservation method**
16. Heavy Metals except Cr(VI) (Remark 5)	✓	0.2 g	PE, wash with nitric acid	Acidify to ~pH 2 with HNO_3 Store sample at 4°C
17. Cr(VI)	✓	2.5 g	Amber Glass, wash with nitric acid	Fill to full container without any air gap and acid add and store at 4°C
18. Adsorbable organically bound halogens (AOX)		1 g		
19. Extractable organichalides (EOX)		20 g		
20. Total organic carbon (TOC)		20 g		
21. Cyanide	✓	50 g	Amber Glass, wash with pesticide grade acetone	Adjust pH to 12-13 with 50% NaOH and store at 4°C
22. Feacal Coliform	✓	20 g	PE, clean, sterile, non-reactive	Add 0.1 ml of 10% Na2S2O3 ,keep in dark Store sample at 2-8°C
23. % Solids	✓	20 g	Amber Glass, wash with nitric acid	Acidify to ~pH 2 with HNO3

Annex B: On-site Field Data Record Sheet (continued)

24. Paint Filter Test	✓	20 g		Store sample at 4°C
25. Others				
Observation/ Remark:	经纬度: E 120°6'24.62" N32°20'49.36"			

*Remarks:

1.Individual sampling can be performed upon request

2. The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.

3. Scope of ZDHC guideline: Parameter 1, 2, 4, 5, 16-17, 21-24
   Scope of synthetic leather industry: Parameter 1-8, 10, 12-17
   Scope of MMCF: Parameter 16, 18-20
   Free primary aromatic amine and pesticides are not in the scope of ZDHC Guidline, they are tested upon request.

4. Refer to CPSD-AN-G60019-STIP01, loactions with those CPSD test capability inside TCD matrix can perform the combined test.

5. Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

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

当前位置：水污染物排放信息审核

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）
DW003	废水总排口	总磷（以P计）	1.5mg/L
DW003	废水总排口	色度	80
DW003	废水总排口	悬浮物	100mg/L
DW003	废水总排口	五日生化需氧量	50mg/L
DW003	废水总排口	总氮（以N计）	30mg/L
DW003	废水总排口	pH值	6-9
DW003	废水总排口	硫化物	1.0mg/L
DW003	废水总排口	化学需氧量	200mg/L
DW003	废水总排口	氨氮（NH3-N）	20mg/L
DW003	废水总排口	苯胺类	1.0mg/L
主要排放口合计			CODcr
			氨氮
			总氮（以N计）
			总磷（以P计）

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