TEST REPORT

Technical Report **(6622)147-0008** June 14, 2022
技术报告:
First Test
初次测试

Date Received: May 27, 2022
收到时间 2022 年 5 月 27 日

Factory Company Name: 工厂名称	Lu Thai Textile Co.,Ltd 鲁泰纺织股份有限公司
Factory Address: 工厂地址	No.81 East Songling Road, Zichuan District, Zibo City, Shandong Province 山东省淄博市淄川区松龄东路 81 号
Client Reference No.: 客户编号	N/A
Sample Method: 采样方法	I001) Incoming water/进水– Grab/抓取* I002) Raw Wastewater/原始废水– 6 hours Time – weighted Composite/6 小时加权混合* I003) Discharged Wastewater/排放废水 – 6 hours Time – weighted Composite/6 小时加权混合*
Sample Pick Up Date: 采样时间	May 27, 2022 2022 年 5 月 27 日
Wastewater Discharge to: 排放至	Centralized ETP (Zibo Limin Sewage Treatment Co.,Ltd) 集中污水处理中心（淄博市利民净化水有限公司）
On-Site Effluent Treatment Plant (ETP)/现场污水处理装置:	Yes 是
Discharge Type: 排放类型	Indirect Discharge 间接排放
Test Period: 测试周期	May 27, 2022 to June 14, 2022 2022 年 5 月 27 日至 2022 年 6 月 14 日

Sample Description:
样品描述

I001) Colorless liquid/无色液体– Incoming water/进水
I002) Blue liquid/兰色液体– Raw Wastewater/原始废水
I003) Light brown Liquid /浅棕色液体– Discharged Wastewater /排放废水

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REMARK/备注

If there are questions or concerns on this report, please contact the following persons:
若有任何疑问或咨询,可通过下述联络方式与我们联络

General enquiry and invoicing 常规咨询和发票	Mr. Henry Chen 陈佳杰先生 (021) 24081953 Henry.Chen@bureauveritas.com
Technical enquiry-Chemical 化学技术问题	Mr. Steven Han 韩政先生 (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.
此报告所示为特定工厂审核时收集的化学助剂和/或原材料样品的结果，此报告的结果不得用于任何遵循法规的目的。

* The sampling is agreed with client.
采样已经过客户允许

BUREAU VERITAS
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必维申美商品检测（上海）有限公司
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PREPARED BY: Henry

Steven Han
Technical Manager

Executive Summary/执行摘要

1A) Conventional Parameters/常规参数	I001	I002	I003
Temperature/温度	NR	NR	N/A
TSS/总悬浮固体			☐
COD/化学需氧量			☐
Total-N/总氮			☐
pH Value/酸碱值			☐
Color [m^{-1}] (436nm; 525nm; 620nm)/色度			N/A
BOD_5/五日生化需氧量			☐
Ammonium-N/氨态氮			☐
Total-P/总磷			☐
AOX/可吸附有机卤化物			N/A
Oil and Grease/油和油脂			N/A
Phenol/苯酚			N/A
Coliform/大肠菌群			N/A
Persistent Foam/持久性泡沫			N/A
ANIONS – Cyanide/阴离子 – 氰化物			N/A
ANIONS – Sulfide/阴离子 - 硫化物			☐
ANIONS – Sulfite/阴离子 - 亚硫酸盐			N/A
1B) Conventional Parameters –METALS /常规参数 - 金属	N/A	N/A	N/A

Note / Key 备注

- ☐ – Meet Foundational Limit/满足基本限值/Meet discharge license criteria/满足排放许可标准
- ■ – Exceeding Foundational Limit/超过基本限值/Exceeding discharge License criteria/超过排放许可标准
- NR – Not Requested / Not required/没有要求/不需要
- N/A – Not Applicable/不适用

ZDHC MRSL Substances/ZDHC 生产限用物质	I001	I002	I003
2A) APs and APEOs/烷基酚及烷基酚聚氧乙烯醚	NR	o	o
2B) Chlorobenzenes and Chlorotoluenes/ 氯化苯和氯甲苯	NR	o	o
2C) Chlorophenols/氯酚	NR	o	o
2D) Azo Dyes/偶氮染料	NR	o	o
2E) Carcinogenic Dyes/致癌染料	NR	o	o
2F) Disperse Dyes/分散染料	NR	o	o
2G) Flame Retardants/阻燃剂	NR	o	o
2H) Glycols/乙二醇	NR	o	o
2I) Halogenated Solvents/卤化溶剂	NR	o	o
2J) Organotin Compounds/有机锡化合物	NR	o	o
2K) Perfluorinated and Polyfluorinated Chemicals/ 全氟化合物和多氟化合物	NR	o	o
2L) Phthalates/邻苯二甲酸盐	NR	o	o
2M) Poly Aromatic Hydrocarbons/多环芳香烃	NR	o	o
2N) Volatile Organic Compounds/挥发性有机化合	NR	o	o

Note / Key 备注:

- ● – Detected 有检出
- o – Not Detected 未检出
- NR – Not Requested / Not required/未要求测试

Objective/目标

The environment samples were tested for below parameters.
环境样品按照下列参数检测
1A) Conventional Parameters/常规参数
1B) Conventional Parameters – METALS/常规参数-重金属
2A) APs and APEOs/烷基酚及烷基酚聚氧乙烯醚
2B) Chlorobenzenes and Chlorotoluenes/氯化苯和氯甲苯
2C) Chlorophenols/氯酚
2D) Azo Dyes/偶氮染料
2E) Carcinogenic Dyes/致癌染料
2F) Disperse Dyes/分散染料
2G) Flame Retardants/阻燃剂
2H) Glycols/乙二醇
2I) Halogenated Solvents/卤化溶剂
2J) Organotin Compounds/有机锡化合物
2K) Perfluorinated and Polyfluorinated Chemicals/全氟化合物和多氟化合物
2L) Phthalates/邻苯二甲酸盐
2M) Poly Aromatic Hydrocarbons/多环芳香烃
2N) Volatile Organic Compounds/挥发性有机化合物

Sampling Procedure/采样程序

Total number of sample collected is based on the actual factory facilities and manufacturing processes. Three environment samples were sampled per factory, including 1) Incoming water; 2) Raw Wastewater and 3) Discharged Wastewater

具体每种样品的采集数量由工厂实际的生产设施和生产流程来决定。每个工厂采集的样品主要有三种 1)进水；2)原始废水和 3)排放废水.

Method of sampling used is time-weighted composite samples based on the ZDHC Wastewater Guidelines. Composite sampling is performed for no less than six hours, with no more than one hour between discrete samples. Each discrete sample is of equal volume. Wastewater and freshwater samples is, as much as possible, collected simultaneously, during the time that PU is in normal operation. The sampling aims to analyse the snapshot of water quality characteristics of the operating PU. Under no circumstance shall samples be taken during times when the production process is not running or the wastewater is diluted due to heavy rainfall, etc.
采样方法是时间加权复合抓取采样方法(根据 ZDHC 废水指南)。混合采样时间应不低于 6 小时，且每次取样的间隔不超过 1 小时。每次取样应保持在同一体积。污水和进水样品应尽可能同时采集，在此期间工厂应处于正常运行状态。采样的目的是为了看到工厂在实际运行状态下水质的特点。而当处于生产流程没有运行或废水被大雨所稀释等情况下时不应采集样品

Remark/注 :

- Sampling procedure is with reference to below standards/采样根据以下标准::
  1) South Australia EPA Guidelines (June 2007), Regulatory Monitoring and Testing Water and Wastewater Sampling.
  2) Australia EPA (Victoria) Guideline (June 2009), Sampling and Analysis of Waters, Wastewaters, Soils and Wastes.
  3) ISO 5667-3:2003, Water Quality - Sampling - Part 3: Guidance on the Preservation and Handling of Water Samples.
  4) ASTM D3976-92 (Reapproved 2010), Standard Practice for Preparation of Sediment Samples for Chemical Analysis.
- Field on-site photos are attached in Appendix A and field data records are attached in Appendix C.
  现场照片见附录 A，采样现场记录见附录 C

Test Result/测试结果

1A) Conventional Parameters/常规参数

Temperature/温度

Test Method : Measurement by thermometer
测试方法 由温度计测量

Tested Item(s)	Result	Unit	Conclusion
I003	34.5	deg. C/ 摄氏度	DATA/数据

Note/注释:

deg. C = degree Celsius (°C)/摄氏度
Discharge License Criteria/排放标准: N/A

Total Suspended Solids (TSS)/总悬浮固体

Test Method : Reference to GB/T 11901-1989
测试方法 参考 GB/T 11901-1989

Tested Item(s)	Result	Unit	Conclusion
I003	5 Comply with discharge license 符合排放许可	mg/L/ 毫克/升	DATA/数据

Note 注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: ≤100

Chemical Oxygen Demand (COD)/化学需氧量

Test Method : Reference to HJ 828-2017
测试方法 参考 HJ 828-2017

Tested Item(s)	Result	Unit	Conclusion
I003	21 Comply with discharge license 符合排放许可	mg/L/ 毫克/升	DATA/数据

Note 注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: ≤200

Total Nitrogen (Total-N)/总氮

Test Method : Reference to HJ 636-2012
测试方法 参考 HJ 636-2012

Tested Item(s)	Result	Unit	Conclusion
I003	4.80 Comply with discharge license 符合排放许可	mg/L/ 毫克/升	DATA/数据

Note 注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: ≤30

pH Value/酸碱值

Test Method : Reference to GB/T 6920-1986
测试方法 参考 GB/T 6920-1986

-	Unit	Result
Test Item(s)	-	I003
Parameter	-	-
Temp. of sample	deg. C	34.5
pH value of sample	-	7.9 Comply with discharge license 符合排放许可
Conclusion	-	DATA/数据

Note 注释:

Temp. = Temperature/温度 deg. C = degree Celsius (°C)/摄氏度
Discharge License Criteria/排放标准: 6-9

Color [m^{-1}] (436nm; 525nm; 620nm) /色度

Test Method : With reference to ISO 7887-B-2011
测试方法 参考 ISO 7887-B-2011

Tested Item(s)	Result	Unit	Conclusion
I003	2.5;0.7;0.4	m^{-1}	DATA/数据

Note 注释:

Discharge License Criteria/排放标准: N/A

Biochemical Oxygen Demand (BOD_5)/五日生化需氧量

Test Method : Reference to HJ 505-2009
测试方法 参考 HJ 505-2009

Tested Item(s)	Result	Unit	Conclusion
I003	7.3 Comply with discharge license 符合排放许可	mg/L/ 毫克/升	DATA/数据

Note 注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: ≤50

Ammonium Nitrogen/氨态氮

Test Method : Reference to HJ 535-2009
测试方法 参考 HJ 535-2009

Tested Item(s)	Result	Unit	Conclusion
I003	1.24 Comply with discharge license 符合排放许可	mg/L/ 毫克/升	DATA/数据

Note 注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: ≤20

Total Phosphorus (Total-P)/总磷

Test Method : Reference to GB/T 11893-1989
测试方法 参考 GB/T 11893-1989

Tested Item(s)	Result	Unit	Conclusion
I003	1.25 Comply with discharge license 符合排放许可	mg/L/ 毫克/升	DATA/数据

Note/注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: ≤1.5

Adsorbable Organic Halogen (AOX)/可吸附有机卤素

Test Method : Reference to HJ/T 83-2001
测试方法 参考 HJ/T 83-2001

Tested Item(s)	Result	Unit	Conclusion
I003	1.94	mg/L/ 毫克/升	DATA/数据

Note 注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: N/A

Oil and Grease/油和油脂

Test Method : Reference to HJ 637-2018
测试方法 参考 HJ 637-2018

Tested Item(s)	Result	Unit	Conclusion
I003	0.29	mg/L/ 毫克/升	DATA/数据

Note 注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: N/A

Phenol/苯酚

Test Method : Reference to HJ 503-2009
测试方法 参考 HJ 503-2009

Tested Item(s)	Result	Unit	Conclusion
I003	<0.0003	mg/L/ 毫克/升	DATA/数据

Note 注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: N/A

Coliform/大肠菌群

Test Method : Reference to GB/T 5750.12
测试方法 参考 GB/T 5750.12

Tested Item(s)	Result	Unit	Conclusion
I003	ND	bacteria/ 100 mL/细菌数/100 毫升	DATA/数据

Note 注释:

bacteria/100 mL = bacteria per 100 milliliters/每 100 毫升细菌数
Discharge License Criteria/排放标准: N/A

Persistent Foam/泡沫

Test Method : Visual
测试方法 目测

Tested Item(s)	Result	Unit	Conclusion
I003	No foam/无泡沫	-	DATA/数据

ANIONS - Cyanide/阴离子-氰化物

Test Method : Reference to HJ 484-2009
测试方法 参考 HJ484-2009

Tested Item(s)	Result	Unit	Conclusion
I003	<0.02	mg/L/ 毫克/升	DATA/数据

Note:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: N/A

ANIONS – Sulfide/阴离子-硫化物

Test Method : Reference to GB/T 16489-1996
测试方法 参考 GB/T 16489-1996

Tested Item(s)	Result	Unit	Conclusion
I003	0.007 Comply with discharge license 符合排放许可	mg/L/ 毫克/升	DATA/数据

Note 注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: ≤0.5

ANIONS – Sulfite/阴离子-亚硫酸盐

Test Method : Reference to ISO 10304-3
测试方法 参考 ISO 10304-3

Tested Item(s)	Result	Unit	Conclusion
I003	<0.2	mg/L/ 毫克/升	DATA/数据

Note 注释:

mg/L = milligram per liter/毫克每升
Discharge License Criteria/排放标准: N/A

1B) Conventional Parameters – METALS 常规参数-重金属

Heavy Metals/重金属	**I001 (mg/L)毫克/升**	**I002 (mg/L)毫克/升**	**I003 (mg/L)毫克/升**
Antimony(Sb)/ 锑 Discharge License Criteria/排放标准: N/A	ND	0.014	0.007
Chromium(Cr), total/总铬 Discharge License Criteria/排放标准: N/A	0.001	0.008	ND
Cobalt(Co)/钴 Discharge License Criteria/排放标准: N/A	ND	ND	ND
Copper(Cu)/铜 Discharge License Criteria/排放标准: N/A	ND	0.046	0.012
Nickel (Ni)/镍 Discharge License Criteria/排放标准: N/A	ND	0.005	ND
Silver (Ag)/银 Discharge License Criteria/排放标准: N/A	ND	0.002	ND
Zinc(Zn)/锌 Discharge License Criteria/排放标准: N/A	0.016	0.786	0.010
Arsenic (As)/砷 Discharge License Criteria/排放标准: N/A	ND	ND	0.001
Cadmium(Cd)/镉 Discharge License Criteria/排放标准: N/A	ND	0.0001	0.0006
Chromium VI(CrVI)/六价铬 Discharge License Criteria/排放标准: N/A	ND	ND	ND
Lead(Pb)/铅 Discharge License Criteria/排放标准: N/A	ND	0.012	0.001
Mercury (Hg)/汞 Discharge License Criteria/排放标准: N/A	0.0006	0.00091	0.00030

Others Priority Chemical Groups/其他优先化学物质

	I001 (µg/L/微克/升)	**I002 (µg/L/ 微克/升)**	**I003 (µg/L/ 微克/升)**
2A) APs and APEOs/ 烷基酚及烷基酚聚氧乙烯醚	NR	ND	ND
2B) Chlorobenzenes and Chlorotoluenes/ 氯化苯和氯甲苯	NR	ND	ND
2C) Chlorophenols/氯酚	NR	ND	ND
2D) Azo Dyes/偶氮染料	NR	ND	ND
2E) Carcinogenic Dyes/致癌染料	NR	ND	ND
2F) Disperse Dyes/分散染料	NR	ND	ND
2G) Flame Retardants/阻燃剂	NR	ND	ND
2H) Glycols/乙二醇	NR	ND	ND
2I) Halogenated Solvents/卤化溶剂	NR	ND	ND
2J) Organotin Compounds/有机锡化合物	NR	ND	ND
2K) Perfluorinated and Polyfluorinated Chemicals/全氟化合物和多氟化合物	NR	ND	ND
2L) Phthalates/邻苯二甲酸盐	NR	ND	ND
2M) Poly Aromatic Hydrocarbons/多环芳香烃	NR	ND	ND
2N) Volatile Organic Compounds /挥发性有机化合物	NR	ND	ND

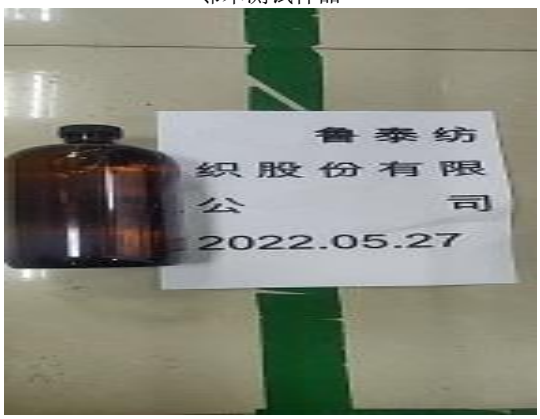
Remark/备注：

- Test method, reporting limit and list of chemical are summarized in tables of Appendix A./测试方法，限量值和化学列表在附录 A 中
- ND = Not detected (Please refer to reporting limit shown in Appendix B.)./ND=未检出(请参考附录 B 中的报告限量值)
- All results are in ppb as unit./所有结果以 ppb 为单位
- NR = Not Required / Not Requested./NR=不要求

APPENDIX A - Photo of the Sample/ Sampling Location/样品照片/采样点照片

I001) Sampling Point 取样点 N 36°38'51" E 117°59'14"  	I001) Sampling Point Surrounding Environment 取样点周围环境 N 36°38'51" E 117°59'14" 
I001) All sampled bottles with label 全部带标签的取样瓶  	I001) pH value pH 值 

I001) Sample for Phthalate Testing
邻苯测试样品



I001) Packaging
包装

I002) Sampling Point
取样点
N 36°38'58"
E 117°59'13"

I002) Sampling Point Surrounding Environment
取样点周围环境
N 36°38'58"
E 117°59'13"

I002) All sampled bottles with label
全部带标签的取样瓶

I002) pH value
pH 值

I002) Sample for Phthalate Testing 邻苯测试样品 	I002) Packaging 包装 
I003) Sampling Point 取样点 N 36°38'59" E 117°59'09" 	I003) Sampling Point Surrounding Environment 取样点周围环境 N 36°38'59" E 117°59'09" 
I003) All sampled bottles with label 全部带标签的取样瓶 	I003) pH value pH 值 

I003) Sample for Phthalate Testing 邻苯测试样品  	I003) Packaging 包装 

APPENDIX B

Parameters, limits and testing method aligned with the ZDHC Wastewater Guidelines

参数，限值和测试方法与 ZDHC 废水指南保持一致

Group/组别	Substance (analytes)/分析物质	CAS No./化学物质登记号	Detection Limit (µg/L)/检出限（微克/升）	Testing method/测试方法
2A. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers/烷基酚及烷基酚聚氧乙烯醚包括同分异构体	Octylphenol OP, mixed isomers/辛基苯酚及同分异构体	Various (incl. 140-66-9, 1806-26-4, 27193-28-8)	5	NP/OP: ISO 18857-2 (modified dichloromethane extraction) or ASTM D7065 (GC/MS or LC/MS(-MS) OPEO/NPEO (n>2): ISO 18254-1 OPEO/NPEO: ISO18857-2 or ASTM D7065(LC/MS; GC/MS or LC/MSMS for n=1,2)
	Nonylphenol NP/壬基苯酚	Various (incl. 104-40-5, 11066-49-2, 25154-52-3, 84852-15-3)		
	Octylphenol Ethoxylates (OPEO)/辛基酚乙烯醚	Various (incl. 9002-93-1, 9036-19-5, 68987-90-6)		
	Nonylphenol Ethoxylates (NPEO)/壬基酚乙烯醚	Various (inc. 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0)		
2B. Chlorobenzenes and Chlorotoluenes/氯化苯和氯甲苯	Monochlorobenzene/一氯苯	108-90-7	0.2	USEPA 8260B,8270D. Dichloromethane extraction followed by GC/MS
	1,2-Dichlorobenzene/ 1,2-二氯苯	95-50-1		
	1,3-Dichlorobenzene / 1,3-二氯苯	541-73-1		
	1,4-Dichlorobenzene / 1,4-二氯苯	106-46-7		
	1,2,3-Trichlorobenzene / 1,2,3-三氯苯	87-61-6		
	1,2,4-Trichlorobenzene / 1,2,4-三氯苯	120-82-1		
	1,3,5-Trichlorobenzene / 1,3,5-三氯苯	108-70-3		
	1,2,3,4-Tetrachlorobenzene/ 1,2,3,4-四氯苯	634-66-2		
	1,2,3,5-Tetraclorobenzene/ 1,2,3,5-四氯苯	634-90-2		
	1,2,4,5-Tetrachlorobenzene/ 1,2,4,5-四氯苯	95-94-3		
	Pentachlorobenzene 五氯苯	608-93-5		
	Hexachlorobenzene/ 六氯苯	118-74-1		
	2-Chlorotoluene /2-氯甲苯	95-49-8		
	3-Chlorotoluene /3-氯甲苯	108-41-8		
	4-Chlorotoluene /4-氯甲苯	106-43-4		
	2,3-Dichlorotoluene / 2,3-二氯甲苯	32768-54-0		
	2,4-Dichlorotoluene / 2,4-二氯甲苯	95-73-8		
	2,5-Dichlorotoluene/ 2,5-二氯甲苯	19398-61-9		
	2,6-Dichlorotoluene /	118-69-4		

Group/组别	Substance (analytes)/分析物质	CAS No./化学物质登记号	Detection Limit (µg/L)/检出限（微克/升）	Testing method/测试方法
	2,6-二氯甲苯			
	3,4-Dichlorotoluene / 3,4-二氯甲苯	95-75-0		
	3,5-Dichlorotoluene/ 3,5-二氯甲苯	25186-47-4		
	2,3,4-Trichlorotoluene / 2,3,4-三氯甲苯	7359-72-0		
	2,3,6-Trichlorotoluene / 2,3,6-三氯甲苯	2077-46-5		
	2,4,5-Trichlorotoluene / 2,4,5-三氯甲苯	6639-30-1		
	2,4,6-Trichlorotoluene / 2,4,6-三氯甲苯	23749-65-7		
	3,4,5-Trichlorotoluene / 3,4,5-三氯甲苯	21472-86-6		
	2,3,4,5-Tetrachlorotoluene 2,3,4,5-四氯甲苯	76057-12-0		
	2,3,5,6-Tetrachlorotoluene / 2,3,5,6-四氯甲苯	29733-70-8		
	2,3,4,6-Tetrachlorotoluene / 2,3,4,6-四氯甲苯	875-40-1		
	Pentachlorotoluene/五氯甲苯	877-11-2		
2C. Chlorophenols/ 氯酚	Pentachlorophenol (PCP)/五氯苯酚	87-86-5	0.5	USEPA 8270 D Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC/MS ISO 14154:2005
	2,3,4,5-Tetrachlorophenol/ 2,3,4,5-四氯苯酚	4901-51-3		
	2,3,4,6-Tetrachlorophenol/ 2,3,4,6-四氯苯酚	58-90-2		
	2,3,5,6-Tetrachlorophenol 2,3,5,6-四氯苯酚	935-95-5		
	2,4,6-Trichlorophenol/ 2,4,6-三氯苯酚	88-06-2		
	2,3,5-Trichlorophenol/ 2,3,5-三氯苯酚	933-78-8		
	2,4,5-Trichlorophenol/ 2,4,5-三氯苯酚	95-95-4		
	3,4,5-Trichlorophenol/ 3,4,5-三氯苯酚	609-19-8		
	2,3,4-Trichlorophenol/ 2,3,4-三氯苯酚	15950-66-0		
	2,3,6-Trichlorophenol/ 2,3,6-三氯苯酚	933-75-5		
	2,3-Dichlorophenol/ 2,3-二氯苯酚	576-24-9		
	3,4-Dichlorophenol/ 3,4-二氯苯酚	95-77-2		
	2,4-Dichlorophenol/ 2,4-二氯苯酚	120-83-2		
	2,5-Dichlorophenol/ 2,5-二氯苯酚	583-78-8		
	2,6-Dichlorophenol/ 2,6-二氯苯酚	87-65-0		
	3,5-Dichlorophenol/ 3,5-二氯苯酚	591-35-5		

Group/组别	Substance (analytes)/分析物质	CAS No./化学物质登记号	Detection Limit (µg/L)/检出限（微克/升）	Testing method/测试方法
	2-Chlorophenol/2-氯苯酚	95-57-8		
	3-Chlorophenol/3-氯苯酚	108-43-0		
	4-Chlorophenol/4-氯苯酚	106-48-9		
2D. Dyes - Azo (Forming Restricted Amines)/ 偶氮染料（形成限制胺类	4-Aminodiphenyl/ 4-氨基联苯	92-67-1	0.1	EN 14362-1 EN 14362-3 Reduction step with Sodiumdithionite, solvent extraction, GC/MS or LC/MS
	Benzidine/联苯胺	92-87-5		
	4-Chloro-o-toluidine/ 4-氯邻甲苯胺	95-69-2		
	2-Naphthylamine/2-萘胺	91-59-8		
	o-Aminoazotoluene/ 邻氨基偶氮甲苯	97-56-3		
	5-nitro-o-toluidine/ 5-硝基-邻甲苯胺	99-55-8		
	4-Chloroaniline/4-氯苯胺	106-47-8		
	4-Methoxy-m-phenylenediamine/ 4-甲氧-间苯二胺	615-05-4		
	4,4'-methylenedianiline/ 4,4`-二氨基二苯甲烷	101-77-9		
	3,3`-Dichlorobenzidine/ 3,3'-二氯联苯胺	91-94-1		
	3,3`-Dimethoxybenzidine/ 3,3'-二甲氧基联苯胺	119-90-4		
	3,3`-Dimethylbenzidine/ 3,3'-二甲基联苯胺	119-93-7		
	4,4`-Methylene-di-o-toluidine/ 4,4'-二甲基-邻甲苯胺	838-88-0		
	6-methoxy-m-toluidine (p-Cresidine)/ 6-甲氧基间甲苯胺	120-71-8		
	4,4`-Methylene-bis-(2-chloro-aniline)/ 4,4'-亚甲基-二-（2-氯苯胺）	101-14-4		
	4,4`-Oxydianiline/ 4,4'-二氨基二苯醚	101-80-4		
	4,4`-Thiodianiline/ 4,4'-二氨基二苯硫醚	139-65-1		
	o-Toluidine/邻甲苯胺	95-53-4		
	4-Methyl-m-phenylenediamine/ 4-甲基间苯二胺	95-80-7		
	2,4,5-Trimethylaniline/ 2,4,5-三甲基苯胺	137-17-7		
	o-Anisidine/邻氨基苯甲醚	90-04-0		
	4-Aminoazobenzene/ 4-氨基偶氮苯	60-09-3		
	2,4-Xylidine/ 2,4-二甲基苯胺	95-68-1		
	2,6-Xylidine/ 2,6-二甲基苯胺	87-62-7		
2E. Dyes-Carcionogenic or Equivalent Concern/ 致癌染料或涉及的同类	C.I. Direct Black 38/ C.I.直接黑 38	1937-37-7	500	Liquid Extraction LC/MS
	C.I. Direct Blue 6/ C.I.直接蓝 6	2602-46-2		
	C.I. Acid Red 26/	3761-53-3		

Group/组别	Substance (analytes)/分析物质	CAS No./化学物质登记号	Detection Limit (µg/L)/检出限（微克/升）	Testing method/测试方法
	C.I.酸性红 26			
	C.I. Basic Red 9/ C.I.碱性红 9	569-61-9		
	C.I. Direct Red 28/ C.I.直接红 28	573-58-0		
	C.I. Basic Violet 14/ C.I.碱性紫 14	632-99-5		
	C.I. Disperse Blue 1 / C.I.分散蓝 1	2475-45-8		
	C.I. Disperse Blue 3 / C.I.分散蓝 3	2475-46-9		
	C.I. Basic Blue 26 (with Michler's Ketone > 0.1%) / C.I. 碱性蓝 26（米氏酮 > 0. 1%）	2580-56-5		
	C.I. Basic Green 4 (malachite green chloride)/ C.I. 碱性绿 4(孔雀石绿氯化物)	569-64-2		
	C.I. Basic Green 4 (malachite green oxalate)/ C.I. 碱性绿 4(孔雀石绿草酸盐)	2437-29-8		
	C.I. Basic Green 4(malachite green)/ C.I. 碱性绿 4(孔雀石绿)	10309-95-2		
	Disperse Orange 11/分散橙 11	82-28-0		
2F. Dyes-disperse (sensitizing)/ 分散染料（致敏）	Disperse Yellow 1 / 分散黄 1	119-15-3	50	Liquid Extraction LC/MS
	Disperse Blue 102 / 分散蓝 102	12222-97-8		
	Disperse Blue 106 / 分散蓝 106	12223-01-7		
	Disperse Yellow 39 / 分散黄 39	12236-29-2		
	Disperse Orange 37/59/76 / 分散橙 37/59/76	13301-61-6		
	Disperse Brown 1 / 分散棕 1	23355-64-8		
	Disperse Orange 1/ 分散橙 1	2581-69-3		
	Disperse Yellow 3/ 分散黄 3	2832-40-8		
	Disperse Red 11/分散红 11	2872-48-2		
	Disperse Red 1/分散红 1	2872-52-8		
	Disperse Red 17 / 分散红 17	3179-89-3		
	Disperse Blue 7 /分散蓝 7	3179-90-6		
	Disperse Blue 26 / 散蓝 26	3860-63-7		
	Disperse Yellow 49 / 分散黄 49	54824-37-2		
	Disperse Blue 35 / 分散蓝 35	12222-75-2		
	Disperse Blue 124 / 分散蓝 124	61951-51-7		
	Disperse Yellow 9 / 分散黄 9	6373-73-5		

Group/组别	Substance (analytes)/分析物质	CAS No./化学物质登记号	Detection Limit (µg/L)/检出限（微克/升）	Testing method/测试方法
	Disperse Orange 3 / 分散橙 3	730-40-5		
	Disperse Blue 35 / 分散蓝 35	56524-77-7		
2G. Flame Retardants/ 阻燃剂	Polybromobiphenyls (PBBs)/多溴联苯	59536-65-1	5	USEPA 8270 ISO 22032, USEPA 527 and USEPA 8321B. Dichloromethane extraction GC/MS or LC/MS(-MS)
	Pentabromodiphenyl ether (PentaBDE)/ 五溴联苯醚	32534-81-9		
	Octabromodiphenyl ether (OctaBDE)/ 八溴联苯醚	32536-52-0		
	Decabromodiphenyl ether (DecaBDE)/ 十溴联苯醚	1163-19-5		
	Tris(2,3-dibromopropyl) phosphate (TRIS/TDBPP)/ 三（2，3-二溴丙基）磷酸酯	126-72-7		
	Tetrabromobisphenol A (TBBPA)/ 四溴双酚 A	79-94-7		
	Bis(2,3-dibromopropyl) phosphate (BIS/BDBPP)/ 二（2，3-二溴丙基）磷酸酯	5412-25-9		
	Hexabromocyclododecane (HBCDD)/ 六溴环十二烷	3194-55-6		
	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)/ 2,2-二(溴甲基)-1,3-丙二醇	3296-90-0		
	Tris(aziridinyl)-phosphineoxide (TEPA)/ 三-(氮环丙基)-膦化氧	545-55-1		
	Tris(2-chloroethyl) phosphate (TCEP)/ 三(2-氯乙基)磷酸酯	115-96-8		
	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)/ 三(1,3-二氯异丙基)磷酸酯	13674-87-8		
	Short chain chlorinated paraffins (SCCPs) (C10-C13)/ 短链氯化石蜡	85535-84-8		
2H. Glycols/乙二醇	Bis(2-methoxyethyl)-ether / **二甘醇二甲醚**	111-96-6	50	US EPA 8270 Liquid Extraction LC/MS GC-MS
	2-ethoxyethanol / **乙二醇单乙醚**	110-80-5		
	2-ethoxyethyl acetate / **乙二醇乙醚醋酸酯**	111-15-9		
	Ethylene glycol dimethyl ether/ **乙二醇二甲醚**	110-71-4		
	2-methoxyethanol / **乙二醇甲醚**	109-86-4		
	2-methoxyethylacetate / **乙二醇甲醚乙酸酯**	110-49-6		
	2-methoxypropylacetate/	70657-70-4		

Group/组别	Substance (analytes)/分析物质	CAS No./化学物质登记号	Detection Limit (µg/L)/检出限（微克/升）	Testing method/测试方法
	2-甲基丙醇乙酸酯			
	Triethylene glycol dimethyl ether/ **三乙二醇二甲醚**	112-49-2		
2I. Halogenated Solvents/卤化溶剂	1,2-Dichloroethane/ 1,2-二氯乙烷	107-06-2	1	USEPA 8260B Headspace GC/MS or Purge-and-Trap-GC/MS
	Methylene Chloride/ 二氯甲烷	75-09-2		
	Trichloroethylene/ 三氯乙烯	79-01-6		
	Tetrachloroethylene /四氯乙烯	127-18-4		
2J. Organotin Compounds/ 有机锡化合物	Mono-, di- and tri-methyltin derivatives/ 一,二,三-甲基锡衍生物	Various	0.01	
	Mono-, di- and tri-butyltin derivatives/ 一,二,三-丁基锡衍生物	Various		
	Mono-, di- and tri-phenyltin derivatives/ 一,二,三-苯基锡衍生物	Various		
	Mono-, di- and tri-octyltin derivatives/ 一,二,三-辛基锡衍生物	Various		
2K. Perfluorinated and Polyfluorinated Chemicals (PFCs)/ 全氟化合物和多氟化合物	Perfluoro-n-octanoic acid (PFOA)/ 全氟辛酸	335-67-1	0.01	DIN 38407-42 (modified) Ionic PFC: Concentration or direct injection, LC/MS(-MS); Non-ionic PFC (FTOH): derivatisation with acetic anhydride, followed by GC/MS
	Perfluorobutanesulfonic acid (PFBS)/ 全氟丁基磺酸	29420-49-3, 29420-43-3		
	Perfluorooctanesulfonic acid (PFOS)/ 全氟辛烷磺酸	355-46-4 ,432-50-7		
	Perfluoro-n-hexanoic acid (PFHxA)/ 全氟己酸	307-24-4		
	8:2 FTOH/8:2-全氟辛基乙醇	678-39-7	1	
	6:2 FTOH/6: 2-全氟乙醇	647-42-7		
2L. Phthalates (including all other esthers of phthalic acid)/ 苯二甲酸盐（包括其他邻苯而甲酸醚类）	Butyl benzyl phthalate (BBP)/ 邻苯二甲酸丁苄酯	85-68-7	10	US EPA 8270D, ISO 18856 Dichloromethane extraction GC/MS
	Dibutyl phthalate (DBP)/ 邻苯二甲酸二丁酯	84-74-2		
	Di-2-ethylhexyl phthalate (DEHP)/ 邻苯二甲酸二（2-乙基己基酯）	117-81-7		
	Di-n-octyl phthalate (DNOP)/ 邻苯二甲酸二辛酯	117-84-0		
	Di-iso-nonyl phthalate (DINP)/ 邻苯二甲酸二异壬酯	28553-12-0		
	Di-iso-decyl phthalate (DIDP)/ 邻苯二甲酸二异葵酯	26761-40-0		
	Diethyl phthalate (DEP)/ 邻苯二甲酸二乙酯	84-66-2		
	Di-n-propyl phthalate (DPRP)/ 邻苯二甲酸二丙酯	131-16-8		
	Di-iso-butyl phthalate (DIBP)/	84-69-5		

Group/组别	Substance (analytes)/分析物质	CAS No./化学物质登记号	Detection Limit (µg/L)/检出限（微克/升）	Testing method/测试方法
	邻苯二甲酸二异丁酯			
	Di-cyclohexyl phthalate (DCHP)/ 邻苯二甲酸二环己酯	84-61-7		
	Di-n-hexyl phthalate (DnHP)/ 邻苯二甲酸二己酯	84-75-3		
	Dinonyl phthalate (DNP)/ 邻苯二甲酸二壬酯	84-76-4		
	Di-iso-octyl phthalate (DIOP)/ 邻苯二甲酸二异辛酯	27554-26-3		
	Dimethoxyethyl phthalate (DMEP)/ 邻苯二甲酸二甲氧基乙酯	117-82-8		
	1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP)/ 邻苯二酸-二(C7-C11 支链与直链)	68515-42-4		
	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)/ 邻苯二甲酸二支链烷基酯	71888-89-6		
2M. Poly Aromatic Hydrocarbons (PaHs)/ 多环芳香烃	Benzo[a]pyrene (BaP) / 苯并芘	50-32-8	1	US EPA 8270 DIN 38407-39 Solvent extraction GC/MS
	Anthracene /蒽	120-12-7		
	Pyrene /芘	129-00-0		
	Benzo[ghi]perylene / 苯并[g,h,i] 芘	191-24-2		
	Benzo[e]pyrene / 苯并[e]芘	192-97-2		
	Indeno[1,2,3-cd]pyrene / 茚并(1,2,3-cd)芘	193-39-5		
	Benzo[j]fluoranthene / 苯并[j]荧蒽	205-82-3		
	Benzo[b]fluoranthene / 苯并[b]荧蒽	205-99-2		
	Fluoranthene /荧蒽	206-44-0		
	Benzo[k]fluoranthene / 并[k]荧蒽	207-08-9		
	Acenaphthylene /苊	208-96-8		
	Chrysene /屈	218-01-9		
	Dibenz[a,h]anthracene / 二苯并[a,h]蒽	53-70-3		
	Benzo[a]anthracene/ 苯并[a]蒽	56-55-3		
	Acenaphthene /二氢苊	83-32-9		
	Phenanthrene /菲	85-01-8		
	Fluorene /芴	86-73-7		
	Naphthalene /萘	91-20-3		
2N. Volatile Organic Compound (VOCs)/ 挥发性有机化合物	Benzene /苯	71-43-2	1	ISO 11423-1 Headspace- or Purge-and-Trap-GC/MS
	Xylene /二甲苯	1330-20-7		
	o-cresol /邻甲苯酚	95-48-7		

Group/组别	Substance (analytes)/分析物质	CAS No./化学物质登记号	Detection Limit (µg/L)/检出限（微克/升）	Testing method/测试方法
	p-cresol /对甲苯酚	106-44-5		US EPA 8260
	m-cresol /间甲苯酚	108-39-4		

Group/组别	Parameter/substance/参数/物质	CAS No.化学物质登记号	Limits (**mg**/L) or otherwise specified 检出限或其他规定			Testing method/测试方法
			A	**P**	**F**	
1A. Conventional Parameters (sum parameters)/常规参数	Temperature/温度	–	▲5/ max. 25ºC	▲10/ max. 30ºC	▲15/ max. 35ºC	Apply the standard methods that best apply to the region (ISO, EU, US, China), please refer to ZDHC Wastewater Guidelines for more details on the testing method
	TSS/总悬浮固体	–	5	15	50	
	COD/化学需氧量	–	40	80	150	
	Total-N/总氮	–	5	10	20	
	pH/酸碱值	–	6 - 9			
	Color [m^{-1}] (436nm; 525nm; 620nm)/色度	–	2;1;1	5;3;2	7;5;3	
	BOD_5/五日生化需氧量	–	5	15	30	
	Ammonium-N/氨态氮	–	0.5	1	10	
	Total-P/总磷	–	0.1	0.5	3	
	AOX/可吸附有机卤化物	–	0.1	1	5	
	Oil and Grease/油和油脂	–	0.5	2	10	
	Phenol/苯酚	–	0.001	0.01	0.5	
	Coliform(bacteria/100ml)/大肠菌群	–	25/100 ml	100/100 ml	400/100 ml	
	Persistent Foam/泡沫持久性	–	No foam/ Dissipating/ Persistent			
	ANIONS/阴离子					
	Cyanide(CN-)/氰化物	Various (incl. 57-12-5)	0.05	0.1	0.2	
	Sulfide/硫化物	–	0.01	0.05	0.5	
	Sulfite/亚硫酸盐	–	0.2	0.5	2	

Group /组别	Parameter/substance/参数/物质	CAS No. 化学物质登记号	Detection Limit (mg/L)/(ppb)/检出限（毫克/升）	Limits (**mg**/L)			Testing method/测试方法
				A	**P**	**F**	
1B. Conventional Parameters – **METALS/常规参数-重金属**	Antimony(Sb)/锑	7440-36-0	0.001	0.01	0.05	0.1	Apply the standard methods that best apply to the region (ISO, EU, US, China), please refer to ZDHC Wastewater Guidelines for more details on the testing method
	Chromium(Cr), total/总铬	7440-47-3	0.001	0.05	0.1	0.2	
	Cobalt(Co)/钴	7440-48-4	0.001	0.01	0.02	0.05	
	Copper(Cu)/铜	7440-50-8	0.001	0.25	0.5	1	
	Nickel (Ni)/镍	7440-02-0	0.001	0.05	0.1	0.2	
	Silver (Ag)/银	7440-22-4	0.001	0.005	0.05	0.1	
	Zinc(Zn)/锌	7440-66-6	0.001	0.5	1.0	5.0	
	Arsenic (As)/砷	7440-38-2	0.001	0.005	0.01	0.05	
	Cadmium(Cd)/镉	7440-43-9	0.0001	0.01	0.05	0.1	
	Chromium VI(CrVI)/六价铬	18540-29-9	0.001	0.001	0.005	0.05	
	Lead(Pb)/铅	7439-92-1	0.001	0.01	0.05	0.1	
	Mercury (Hg)/汞	7439-97-6	0.00005	0.001	0.005	0.01	

A: Aspirational P: Progressive F: Foundational
A: 最佳水平 P：良好水平 F:基础水平

Note / Key :
注释/要点：

ppm = part(s) per million/百万分之一
U. S. EPA = United States Environmental Protection Agency/美国环境保护署
APHA = American Public Health Association/美国公共卫生协会

APPENDIX C – Onsite Field Data Record Sheet 采样现场记录

FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	CPSD-AN-00613-DATA 04
	Issue Date:
	Version No.: 11
	Business Line: Analytical

General Data

Laboratory Sample Number: 6622147 0008
Client Name:
Field Contact Person: 马庆贵 Phone No: 0533-5262432
Project (Facility Name and Address): 鲁泰纺织股份有限公司/山东省淄博市淄川区松龄东路81号
Sampling Location / Description: 车间进水总水管
Sample Identification: Zero discharge with sampling plan
Sample Type: Composite Sample / Grab sample (Please delete as appropriate)
Name of Sampler:
Discharge mode: Direct discharge to environment (Specify destination: River, Sea, Stream...) OR Indirect discharge to sewage treatment plant
Date of collection: 2022.5.27
Factory Type: Dyeing / Printing / Washing / Finishing / Others (please specify):
*Note: It would be selected more than one

Field Data for Wastewater

Arrival Time:	8:50	Departure Time:	14:50		
Field Parameters	pH:	Temp: °C	Color: 无色	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

		1	2	3	4	5	6	7	8
Sampler container number		A1							
Recording time	ID								
	Time	9:50							
pH		7.6							
Temp (°C)		17.7							
Color		无色							
Flow rate (volume/time)		48L							
Volume collected, mL		48L							
Total volume collected			Remark: Total volume collected must be greater than total of sample size required						

Analysis Required and Preservation Method

Tests (ZDHC MRSL Parameters)		Test required (v)	Total of sample size	Type of container	Preservation method
Combined test for Individual test (Remark 4)	1. Phthalate		1000 mL total or 1000 mL each	Amber Glass, washed with nitric acid, rinsed thoroughly with distilled water and dried before use	Without adding acid Store sample at 6°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		Acidify to pH 2 with HCl and store sample at 6°C
14. Organotin Compounds			500 mL	Amber Glass, washed with nitric acid; Pre-add 6.5 mL of 2M HCl	Fill to full container without air gap; acidify to pH 2 with HCl and store sample at 6°C
15. VOC & Halogenated Solvents (Remark 6)			10 mL		Without adding acid Store sample at 6°C
16. PFCs			2 mL	PE, washed with pesticide grade Acetone	

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Page 1 of 3

Tests (Conventional Parameters)		Test required (√)	Total of sample size	Type of container	Preservation method
Combined test or Individual test (Remark 4)	17. Total suspened solids (TSS)		2000 mL total or 2000 mL each	Amber Glass, washed with nitric acid, rinsed thoroughly with distillated water and dried before use	Without adding acid Store sample at 6°C
	18. *Total dissolved solids (TDS)		1000 mL		
19. 5-day Biochemical Oxygen Demand (BOD5)			9 mL	PE, washed with nitric acid, pre-add 6.5mL of 2M HNO_3	Acidify to pH 2 with HNO_3 and store at 6°C
20. Heavy Metals except Cr(VI) & Total P (Remark 6)			95 mL	Amber Glass, washed with pesticide grade acetone	Filter by 0.45um filter in field, fill to full container without air gap, adjust pH to 9.0-9.5 by adding ammonium buffer. Store sample at 6°C
21. Cr(VI)			500 mL		Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% $Na_2S_2O_3$, and store sample at 6°C
22. Cyanide			150 mL	Amber Glass;washed with nitric acid; Pre-add 6.5 mL of 2M H_2SO_4	Acidify to pH 2 with H_2SO_4 Store sample at 6°C
23. Chemical oxygen demand (COD)			500 mL		
24. Phenols			25 mL		Fill to full container without air gap; acidify to pH 2 with H_2SO_4 and store sample at 6°C
25. Formaldehyde			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 6°C
26. Sulfide (Remark 5)			100 mL	Amber Glass, washed with nitric acid, pre-add 6.5mL of 2M HNO_3	Add 0.05 ml of 10% $Na_2S_2O_3$, acidify to pH 2 with H_2SO_4. Store sample at 6°C
27. Adsorbable organically bound halogens (AOX)			125 mL	PE,clean, sterile, non-reactive	
28. Total Coliform (Remark 6)			N.A.	Foam higher than 45 cm (visual estimation): Yes / No	
29. Persistent foam			100 mL	Amber Glass, washed with pesticide grade acetone	Add 1 mL of 2.5% EDTA, 0.5g zinc acetate Store sample at 6°C
30. Sulfite			100 mL	Amber Glass with wide-mouth PTFE lid,washed with nitric acid; Pre-add 0.5 mL of 2M H_2SO_4	Acidify to pH2 with H_2SO_4 Store sample at 6°C
31. Total N			500 mL		
32. Ammonium-N			1000 mL	Amber Glass, washed with nitric acid; Pre-add 0.5 mL of 2M H_2SO_4	
33. Oil and Grease			1000 mL		
34. Total Hydrocarbon			1000 mL	Amber Glass, washed with nitric acid, rinsed thoroughly with distillated water and dried before use	Without adding acid Store sample at 6°C
35. Luminus Bacteria Toxicity			100 mL		
36. Sulphate			100 mL		
37. Chlorides					
38. Others:					

Observation/ Remark:

Remarks:
1. Individual sampling can be performed upon request.
2. The minimum sampling time for 2016 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, 4-9, 12, 14-17, 19-24, 26-33
4. Scope of synthetic leather industry Parameter 1, 2, 4-9, 12, 14-17, 19-33
5. Scope of MMCP Parameter 4, 5, 17, 19-24, 26, 27, 31-37
6. Free primary aromatic amine, pesticides, nitrosamine and TDS are not in the scope of ZDHC Guidline, they are tested upon request.
7. Refer to CPSD-AN-G00019-STP01, loactions with those CPSD test capability inside TCD matrix can perform the combined test.
8. Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.
9. Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by: Date: 2022.5.27

Full name:

Comment from factory: 进水 36°38'41 117°49'14

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: Date: 2022.5.27

Full Name:

JU THAI TEXTILE CO., LTD

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CPSD-AN-00613-DATA 04	
Issue Date:	
Version No.: 11	
Business Line: Analytical	

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

General Data

Laboratory Sample Number:	6622147 0008
Client Name:	
Field Contact Person:	马[illegible] Phone No.: 0533-526[illegible]832
Project (Facility Name and Address):	[illegible]股份有限公司/山东省[illegible]松龄东路81号
Sampling Location / Description:	[illegible]前集中池)
Sample Identification:	Zero discharge with sampling plan
Sample Type:	Composite Sample / Grab sample (Please delete as appropriate)
Name of Sampler:	
Discharge mode:	Direct discharge to environment (Specify destination: River, Sea, Stream...) OR Indirect discharge to sewage treatment plant
Date of collection:	2022.5.27
Factory Type:	Dyeing / Printing / Washing / Finishing / Others (please specify): /
	*Note: It would be selected more than one

Field Data for Wastewater

Arrival Time:	8:55	Departure Time:	14:55				
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

		1	2	3	4	5	6	7	8
Sampler container number		A2	A2	A2	A2	A2	A2	A2	/
			/	/	/	/	/	/	/
Recording time	ID	[illegible]	/	/	/	/	/	/	/
	Time	8:55	9:55	10:55	11:55	12:55	13:55	14:55	/
pH		11.58	11.44	11.42	11.36	11.33	11.30	11.31	/
Temp (°C)		41.0	42.2	41.1	40.5	41.8	41.5	41.9	/
Color		深兰	深兰	〃	〃	〃	〃	〃	/
Flow rate (volume/time)		/	/	/	/	/	/	/	/
Volume collected, mL		0.92L	0.92L	0.92L	0.92L	0.92L	0.92L	0.92L	/
Total volume collected			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, rinsed thoroughly with distilled water and dried before use	Without adding acid Store sample at 6°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	Amber Glass, washed with nitric acid, Pre-add 6.5 mL of 2M HCl	Acidify to pH 2 with HCl and store sample at 6°C
15. VOC & Halogenated Solvents (Remark 6)			10 mL		Fill to full container without air gap, acidify to pH 2 with HCl and store sample at 6°C
16. PFCs			2 mL	PE, washed with pesticide grade Acetone	Without adding acid Store sample at 6°C

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Tests (Conventional Parameters)		Test required (v)	Total of sample size	Type of container	Preservation method
Combined test or Individual test (Remark 4)	17. Total suspened solids (TSS)		2000 mL total or 2000 mL each	Amber Glass, washed with nitric acid, rinsed thoroughly with distilled water and dried before use	Without adding acid Store sample at 6°C
	18. *Total dissolved solids (TDS)				
19. 5-day Biochemical Oxygen Demand (BOD5)			1000 mL		
20. Heavy Metals except Cr(VI) & Total-P (Remark 6)			9 mL	PE, washed with nitric acid, pre-add 6.5mL of 2M HNO_3	Acidify to pH 2 with HNO_3 and store at 6°C
21. Cr(VI)			95 mL	Amber Glass, washed with pesticide grade acetone	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 6°C
22. Cyanide			500 mL		Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% $Na_2S_2O_3$ and store sample at 6°C
23. Chemical oxygen demand (COD)			150 mL	Amber Glass,washed with nitric acid; Pre-add 6.5 mL of 2M H_2SO_4	Acidify to pH 2 with H_2SO_4 Store sample at 6°C
24. Phenols			500 mL		
25. Formaldehyde			25 mL		Fill to full container without air gap, acidify to pH 2 with H2SO4 and store sample at 6°C
26. 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 6°C
27. Adsorbable organically bound halogens (AOX)			100 mL	Amber Glass, washed with nitric acid, pre-add 6.5mL of 2M HNO_3	Add 0.05 ml of 10% $Na_2S_2O_3$, acidify to pH 2 with H_2SO_4. Store sample at 6°C
28. Total Coliform (Remark 6)			125 mL	PE, clean, sterile, non-reactive	
29. Persistent foam			N.A.	Foam higher than 45 cm (visual estimation): ___ Yes / ___ No	
30. Sulfite			100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA, 0.5g zinc acetate Store sample at 6°C
31. Total-N			100 mL	Amber Glass with wide-mouth PTFE lid,washed with nitric acid; Pre-add 6.5 mL of 2M H2SO4	Acidify to pH 2 with H2SO4 Store sample at 6°C
32. Ammonium-N			500 mL		
33. Oil and Grease			1000 mL	Amber Glass,washed with nitric acid; Pre-add 6.5 mL of 2M H2SO4	
34. Total Hydrocarbon			1000 mL		
35. Luminus Bacteria Toxicity			1000 mL	Amber Glass, washed with nitric acid, rinsed thoroughly with distilled water and dried before use	Without adding acid Store sample at 6°C
36. Sulphate			100 mL		
37. Chloride			100 mL		
38. Others:					
Observation/ Remark					

Remarks:
1. Individual sampling can be performed upon request.
2. The minimum sampling time for 2016 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, 4-9, 12, 14-17, 19-24, 26-33
Scope of synthetic leather industry: Parameter 1, 2, 4-9, 12, 14-17, 19-33
Scope of MMCF: Parameter 4, 5, 17, 19-24, 26, 27, 31-37
* Free primary aromatic amine, pesticides, nitrosamine and TDS 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 capablity 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.

Date: 2022.5.27

Recorded by: ______________
Full name:

Comment from factory: 35°28'58 117°54'13

Acknowledgement by factory
I hereby confirmed that Bureau Veritas has completed the stated sampling work at capture 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 1-6°C

Date: 2022.5.27

Signatory of Factory Representative:
Name:

LTTC ... THAI TEXTILE CO., LTD

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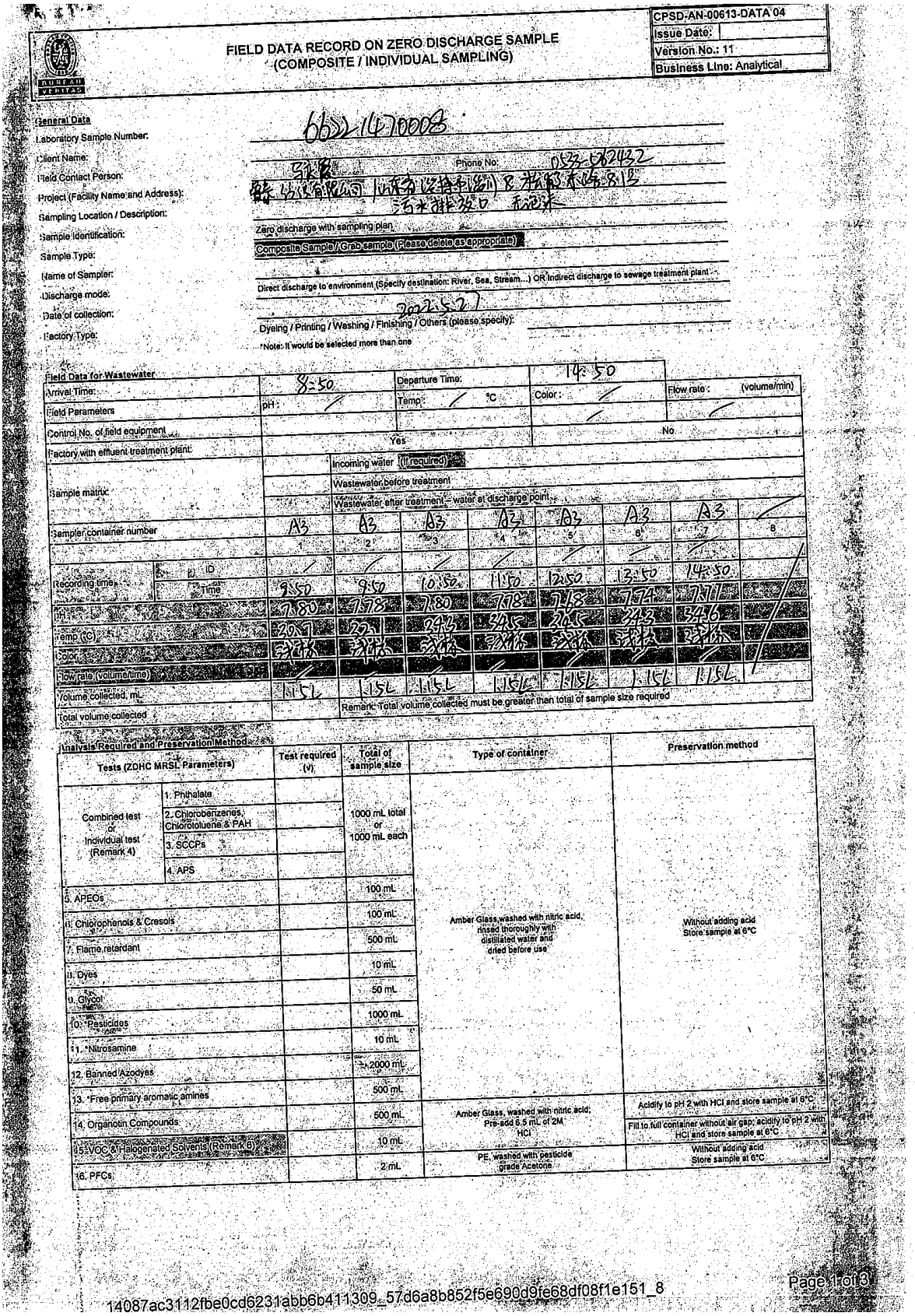

FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE
(COMPOSITE / INDIVIDUAL SAMPLING)

CPSD-AN-00613-DATA 04
Issue Date:
Version No.: 11
Business Line: Analytical

General Data

Laboratory Sample Number: 6622)147-0008
Client Name:
Field Contact Person: Phone No:
Project (Facility Name and Address):
Sampling Location / Description:
Sample Identification: Zero discharge with sampling plan
Sample Type: Composite Sample / Grab sample (Please delete as appropriate)
Name of Sampler:
Discharge mode: Direct discharge to environment (Specify destination: River, Sea, Stream...) OR Indirect discharge to sewage treatment plant
Date of collection: 2022.5.27
Factory Type: Dyeing / Printing / Washing / Finishing / Others (please specify):
*Note: It would be selected more than one

Field Data for Wastewater

Arrival Time:	8:50	Departure Time:	14:50						
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 1	A3 2	A3 3	A3 4	A3 5	A3 6	A3 7	8	
Recording time: a) ID									
b) Time	9:50	9:50	10:50	11:50	12:50	13:50	14:50		
pH	7.80	7.78	7.80	7.78	7.78	7.77	7.81		
Temp (°C)	20.7	22.3	24.5	24.5	24.5	24.5	24.6		
Color	淡棕	淡棕	淡棕	淡棕	淡棕	淡棕	淡棕		
Flow rate (volume/time)									
Volume collected, mL	1.5L	1.5L	1.5L	1.5L	1.5L	1.5L	1.5L		
Total volume collected	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, rinsed thoroughly with distillated water and dried before use	Without adding acid Store sample at 6°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	Amber Glass, washed with nitric acid; Pre-add 6.5 mL of 2M HCl	Acidify to pH 2 with HCl and store sample at 6°C
15. VOC & Halogenated Solvents (Remark 6)			10 mL		Fill to full container without air gap; acidify to pH 2 with HCl and store sample at 6°C
16. PFCs			2 mL	PE, washed with pesticide grade Acetone	Without adding acid Store sample at 6°C

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Tests (Conventional Parameters)		Test required (√)	Total of sample size	Type of container	Preservation method
Combined test or Individual test (Remark 4)	17. Total suspened solids (TSS)		2000 mL total or 2000 mL each	Amber Glass, washed with nitric acid, rinsed thoroughly with distillated water and dried before use	Without adding acid Store sample at 6°C
	18. *Total dissolved solids (TDS)				
19. 5-day Biochemical Oxygen Demand (BOD5)			1000 mL		
20. Heavy Metals except Cr(VI) & Total-P (Remark 6)			9 mL	PE, washed with nitric acid; pre-add 6.5mL of 2M HNO_3	Acidify to pH 2 with HNO_3 and store at 6°C
21. Cr(VI)			95 mL	Amber Glass, washed with pesticide grade acetone	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 6°C
22. Cyanide			500 mL		Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% $Na_2S_2O_3$, and store sample at 6°C
23. Chemical oxygen demand (COD)			150 mL	Amber Glass,washed with nitric acid; Pre-add 6.5 mL of 2M H_2SO_4	Acidify to pH 2 with H_2SO_4 Store sample at 6°C
24. Phenols			500 mL		
25. Formaldehyde			25 mL		Fill to full container without air gap; acidify to pH 2 with H2SO4 and store sample at 6°C
26. 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 6°C
27. Adsorbable organically bound halogens (AOX)			100 mL	Amber Glass, washed with nitric acid, pre-add 6.5mL of 2M HNO_3	Add 0.05 ml of 10% $Na_2S_2O_3$, acidify to pH 2 with H_2SO_4. Store sample at 6°C
28. Total Coliform (Remark 6)			125 mL	PE, clean, sterile, non-reactive	
29. Persistent foam			N.A.	Foam higher than 45cm (visual estimation): ___Yes / No	
30. Sulfite			100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA, 0.5g zinc acetate Store sample at 6°C
31. Total-N			100 mL	Amber Glass with wide-mouth PTFE lid,washed with nitric acid; Pre-add 6.5 mL of 2M H2SO4	Acidify to pH 2 with H2SO4 Store sample at 6°C
32. Ammonium-N			500 mL		
33. Oil and Grease			1000 mL	Amber Glass,washed with nitric acid; Pre-add 6.5 mL of 2M H2SO4	
34. Total Hydrocarbon			1000 mL		
35. Luminus Bacteria Toxicity			1000 mL	Amber Glass, washed with nitric acid, rinsed thoroughly with distillated water and dried before use	Without adding acid Store sample at 6°C
36. Sulphate			100 mL		
37. Chloride			100 mL		
38. Others					
Observation/ Remark:					

Remarks:

1. Individual sampling can be performed upon request.
2. The minimum sampling time for 2016 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, 4-9, 12, 14-17, 19-24, 26-33
   Scope of synthetic leather industry: Parameter 1, 2, 4-9, 12, 14-17, 19-33
   Scope of MMCF: Parameter 4, 5, 17, 19-24, 26, 27, 31-37
   Free primary aromatic amine, pesticides, nitrosamine and TDS 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: ______________ Date: 2022.5.27

Full name:

Comment from factory

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 designated 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 1-6°C

Signatory of Factory Representative: Date: 2022.5.27

Full Name:

鲁泰纺织股份有限公司 LTTC LU THAI TEXTILE CO., LTD

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APPENDIX D 附录 D

DW002	鲁泰纺织	流量	/mg/L
DW002	鲁泰纺织	悬浮物	100mg/L
DW002	鲁泰纺织	苯胺类	1.0mg/L
DW002	鲁泰纺织	总氮（以N计）	30mg/L
DW002	鲁泰纺织	五日生化需氧量	50mg/L
DW002	鲁泰纺织	氨氮（NH3-N）	20mg/L
DW002	鲁泰纺织	pH值	6-9
DW002	鲁泰纺织	硫化物	0.5mg/L
DW002	鲁泰纺织	化学需氧量	200mg/L
DW002	鲁泰纺织	色度	64
DW002	鲁泰纺织	总磷（以P计）	1.5mg/L
主要排放口合计			CODcr
			氨氮