



TEST REPORT

Technical Report/技术报告: (6621)083-0303

April 7, 2021

Date Received/收到日期:

March 24, 2021
2021年3月24日

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Factory Company Name

工厂名称:

Lufeng Company Limited

鲁丰织染有限公司

Factory Address

工厂地址:

Jianshe Road, Huangjiapu Town, Zichuan District, Zibo City, Shandong Province

山东省淄博市淄川区黄家铺镇建设路

Project No.

项目编号:

N/A

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:

March 24, 2021

2021年3月24日

Discharge Type:

排放类型:

Indirect Discharge

间接排放

On-Site Effluent Treatment Plant (ETP):

现场污水处理装置 (ETP):

Yes

是

Wastewater Discharge to:

废水排放至:

Centralized ETP

集中污水处理装置

Off-site ETP name (if applicable):

非现场污水处理装置 (ETP) 名称:

Zibo Limin Sewage Treatment Co., Ltd

淄博利民净化水公司

Off-site ETP address (if applicable):

非现场污水处理装置 (ETP) 地址:

Zichuan District, Zibo City, Shandong Province

山东省淄博市淄川区

Local Regulation / Ordinance / requirements related to wastewater discharged are followed:

当地法规: 遵守与废水排放相关的条例/要求

GB4287-2012

Permit Validation Date:

批准日期:

27/11/2020

Parameters Exceeded Local Regulation

超出当地规定的参数:

N/A

Legal compliance:

合法合规:

Comply

符合

Conventional Parameters Overall

Category:

常规参数:

Comply

符合

Test Period:

测试周期:

March 24, 2021 to April 7, 2021

2021年3月24日至2021年4月7日



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Sample Description:

样品描述:

- I001) Colorless liquid / 无色液体– Incoming water/进水
I002) Dark blue liquid/ 深蓝色液体– Raw Wastewater/原始废水
I003) Light yellow liquid /浅黄色液体–Treated Wastewater/排放废水

Parameters exceeded maximum
holding time

N/A

参数超过最大保持时间:

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系

General enquiry and invoicing

常规咨询和发票

Ms. Shelly Lin

林慧贤女士

(021) 24081951

Shelly.Lin@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

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.

上海市闵行区光中路 368 号

No.168, Guanghua Road, Zhuanqiao Town, Minhang, Shanghai.

上海市闵行区光华路 168 号

PREPARED BY:

Shelly

Steven Han

Technical Manager



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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			□
Oil and Grease/油和油脂			N/A
Phenol/苯酚			N/A
Coliform/大肠菌群			N/A
Foam/泡沫			N/A
ANIONS - Sulfide/阴离子 - 硫化物			□
ANIONS - Sulfite/阴离子 - 亚硫酸盐			N/A
ANIONS - Cyanide/阴离子 - 氰化物			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



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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/挥发性有机化合物	NR	o	o

Note / Key 备注:

- • – Detected 有检出
- o – Not Detected 未检出
- NR – Not Requested/未要求测试
- N/A – Not Applicable/不适用



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Objective

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/采样流程

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 :

- 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



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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	16.8	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
测试方法 : 参考 GB/T 11901

Tested Item(s)	Result	Unit	Conclusion
I003	4 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	16 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



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Total Nitrogen (Total-N)/总氮

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

Tested Item(s)	Result	Unit	Conclusion
I003	2.87 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
测试方法 参考 GB/T 6920

-	Unit	Result
Test Item(s)	-	I003
Parameter	-	-
Temp. of sample	deg. C	18.9
pH value of sample	-	7.7 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
测试方法 参考 ISO 7887-B

Tested Item(s)	Result	Unit	Conclusion
I003	4.3;5.7;7.1	m ⁻¹	DATA/数据

Note 注释:

Discharge License Criteria/排放标准: N/A



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Biochemical Oxygen Demand (BOD₅)/五日生化需氧量

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

Tested Item(s)	Result	Unit	Conclusion
I003	3.0 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
测试方法 : 参考 HJ 535

Tested Item(s)	Result	Unit	Conclusion
I003	1.15 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
测试方法 : 参考 GB/T 11893

Tested Item(s)	Result	Unit	Conclusion
I003	0.37 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



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

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

Tested Item(s)	Result	Unit	Conclusion
I003	<0.04 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: ≤12

Oil and Grease/油和油脂

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

Tested Item(s)	Result	Unit	Conclusion
I003	<0.06	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
测试方法 参考 HJ 503

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	17	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



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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
测试方法 参考 HJ484

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
测试方法 参考 GB/T 16489

Tested Item(s)	Result	Unit	Conclusion
I003	0.28 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



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

Heavy Metals/重金属	1001 (mg/L) 毫克/升	1002 (mg/L) 毫克/升	1003 (mg/L) 毫克/升
Antimony(Sb)/ 锑 Discharge License Criteria 排放许可标准: N/A	0.005	0.005	0.002
Chromium(Cr), total/总铬 Discharge License Criteria 排放许可标准:N/A	ND	0.004	0.001
Cobalt(Co)/钴 Discharge License Criteria 排放许可标准:N/A	ND	ND	ND
Copper(Cu)/铜 Discharge License Criteria 排放许可标准:N/A	0.002	0.019	0.002
Nickel (Ni)/镍 Discharge License Criteria 排放许可标准:N/A	0.002	0.005	ND
Silver (Ag)/银 Discharge License Criteria 排放许可标准:N/A	ND	ND	ND
Zinc(Zn)/锌 Discharge License Criteria 排放许可标准:N/A	0.023	0.022	0.008
Arsenic (As)/砷 Discharge License Criteria 排放许可标准:N/A	ND	ND	ND
Cadmium(Cd)/镉 Discharge License Criteria 排放许可标准:N/A	ND	ND	ND
Chromium VI(CrVI)/六价铬 Discharge License Criteria 排放许可标准:N/A	ND	ND	ND
Lead(Pb)/铅 Discharge License Criteria 排放许可标准:N/A	ND	0.001	ND
Mercury (Hg)/汞 Discharge License Criteria 排放许可标准:N/A	ND	0.00013	ND



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

	I001 (µg/L)	I002 (µg/L)	I003 (µg/L)
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 A.).
ND=未检出(请参考附录 A 中的报告限量值)
- All results are in ppb as unit.
所有结果以 ppb 为单位
- ppm = part(s) per million; ppb = part(s) per billion.
ppm = 百万分之一; ppb = 十亿分之一

APPENDIX A - Photo of the Sample/ Sampling Location

I001) Sampling Point

取样点

N 36°39'58.56"

E 117°56'41.66"



I001) Sampling Point Surrounding Environment

取样点周围环境

N 36°39'58.56"

E 117°56'41.66"



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°40'15.41"
E 117°56'44.84"



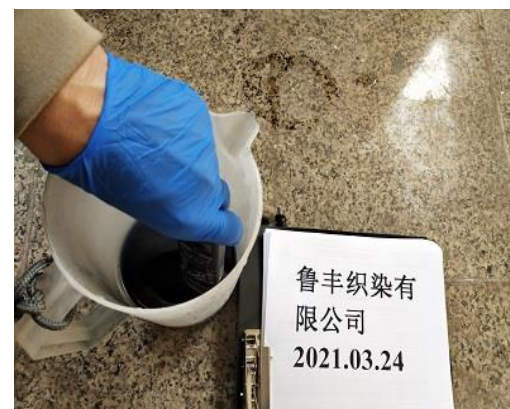
I002) Sampling Point Surrounding Environment
取样点周围环境
N 36°40'15.41"
E 117°56'44.84"



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



I002) pH value
pH 值



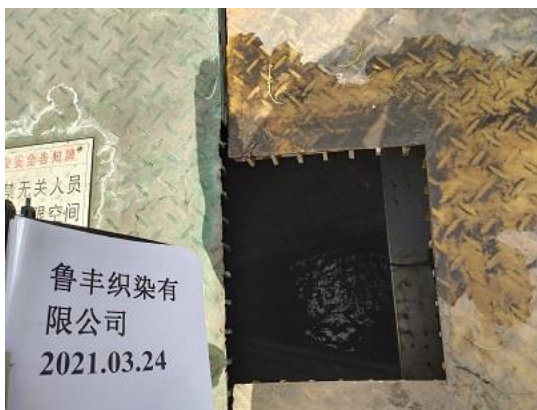
I002) Sample for Phthalate Testing
邻苯测试样品



I002) Packaging
包装



I003) Sampling Point
取样点
N 36°40'02.57"
E 117°56'49.53"



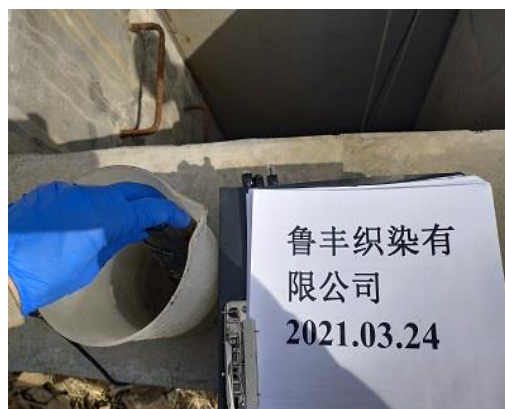
I003) Sampling Point Surrounding Environment
取样点周围环境
N 36°40'02.57"
E 117°56'49.53"



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





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APPENDIX B

Group/组别	Substance (analytes)/分析物质	CAS No./化学物质 登记号	Report Limit		Name of the testing method/测试方法
			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
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	Nonylphenol NP, mixed isomers/ 壬基苯酚及同分异构体	Various (incl. 104-40-5, 11066-49-2, 25154-52-3, 84852-15-3)	5	0.4	NP/OP: ISO 18857-2 (modified dichloromethane extraction) or ASTM D7065 (GC/MS or LC/MS(-MS))
	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	0.4	
	Octylphenol ethoxylates (OPEO)/ 辛基酚乙烯醚	Various (incl. 9002-93-1, 9036-19-5, 68987-90-6)	5	0.4	OPEO/NPEO: ISO18857-2 or ASTM D7065(LC/MS; GC/MS or LC/MSMS for n=1,2) APEO 1-18
	Nonylphenol ethoxylates (NPEO)/ 壬基酚乙烯醚	Various (incl. 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0)	5	0.4	
2B. Chlorobenzenes and Chlorotoluenes/ 氯化苯和氯甲苯	Monochlorobenzene/一氯苯	108-90-7	0.2	0.2	USEPA 8260B,8270D. Dichloromethane extraction followed by GC/MS
	1,2-Dichlorobenzene/ 1,2-二氯苯	95-50-1	0.2	0.2	
	1,3-Dichlorobenzene / 1,3-二氯苯	541-73-1	0.2	0.2	
	1,4-Dichlorobenzene / 1,4-二氯苯	106-46-7	0.2	0.2	
	1,2,3-Trichlorobenzene / 1,2,3-三氯苯	87-61-6	0.2	0.2	
	1,2,4-Trichlorobenzene / 1,2,4-三氯苯	120-82-1	0.2	0.2	
	1,3,5-Trichlorobenzene / 1,3,5-三氯苯	108-70-3	0.2	0.2	
	1,2,3,4-Tetrachlorobenzene/ 1,2,3,4-四氯苯	634-66-2	0.2	0.2	
	1,2,3,5-Tetrachlorobenzene/ 1,2,3,5-四氯苯	634-90-2	0.2	0.2	
	1,2,4,5-Tetrachlorobenzene/ 1,2,4,5-四氯苯	95-94-3	0.2	0.2	
	Pentachlorobenzene 五氯苯	608-93-5	0.2	0.2	
	Hexachlorobenzene/ 六氯苯	118-74-1	0.2	0.2	
	2-Chlorotoluene /2-氯甲苯	95-49-8	0.2	0.2	
	3-Chlorotoluene /3-氯甲苯	108-41-8	0.2	0.2	
	4-Chlorotoluene /4-氯甲苯	106-43-4	0.2	0.2	
	2,3-Dichlorotoluene / 2,3-二氯甲苯	32768-54-0	0.2	0.2	
	2,4-Dichlorotoluene / 2,4-二氯甲苯	95-73-8	0.2	0.2	
	2,5-Dichlorotoluene/ 2,5-二氯甲苯	19398-61-9	0.2	0.2	
	2,6-Dichlorotoluene /	118-69-4	0.2	0.2	



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			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	2,6-二氯甲苯				
	3,4-Dichlorotoluene / 3,4-二氯甲苯	95-75-0	0.2	0.2	
	3,5-Dichlorotoluene/ 3,5-二氯甲苯	25186-47-4	0.2	0.2	
	2,3,4-Trichlorotoluene / 2,3,4-三氯甲苯	7359-72-0	0.2	0.2	
	2,3,6-Trichlorotoluene / 2,3,6-三氯甲苯	2077-46-5	0.2	0.2	
	2,4,5-Trichlorotoluene / 2,4,5-三氯甲苯	6639-30-1	0.2	0.2	
	2,4,6-Trichlorotoluene / 2,4,6-三氯甲苯	23749-65-7	0.2	0.2	
	3,4,5-Trichlorotoluene / 3,4,5-三氯甲苯	21472-86-6	0.2	0.2	
	2,3,4,5-Tetrachlorotoluene 2,3,4,5-四氯甲苯	76057-12-0	0.2	0.2	
	2,3,5,6-Tetrachlorotoluene / 2,3,5,6-四氯甲苯	29733-70-8	0.2	0.2	
	2,3,4,6-Tetrachlorotoluene / 2,3,4,6-四氯甲苯	875-40-1	0.2	0.2	
	Pentachlorotoluene/五氯甲苯	877-11-2	0.2	0.2	
2C. Chlorophenols/ 氯酚	2-Chlorophenol/2-氯苯酚	95-57-8	0.5	0.05	USEPA 8270 D Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC/MS
	3-Chlorophenol/3-氯苯酚	108-43-0	0.5	0.05	
	4-Chlorophenol/4-氯苯酚	106-48-9	0.5	0.05	
	2,3-Dichlorophenol/ 2,3-二氯苯酚	576-24-9	0.5	0.05	
	2,4-Dichlorophenol/ 2,4-二氯苯酚	120-83-2	0.5	0.05	
	2,5-Dichlorophenol/ 2,5-二氯苯酚	583-78-8	0.5	0.05	
	2,6-Dichlorophenol/ 2,6-二氯苯酚	87-65-0	0.5	0.05	
	3,4-Dichlorophenol/ 3,4-二氯苯酚	95-77-2	0.5	0.05	
	3,5-Dichlorophenol/ 3,5-二氯苯酚	591-35-5	0.5	0.05	
	2,3,4-Trichlorophenol/ 2,3,4-三氯苯酚	15950-66-0	0.5	0.05	
	2,3,5-Trichlorophenol/ 2,3,5-三氯苯酚	933-78-8	0.5	0.05	
	2,3,6-Trichlorophenol/ 2,3,6-三氯苯酚	933-75-5	0.5	0.05	
	2,4,5-Trichlorophenol/ 2,4,5-三氯苯酚	95-95-4	0.5	0.05	
	2,4,6-Trichlorophenol/ 2,4,6-三氯苯酚	88-06-2	0.5	0.05	
	3,4,5-Trichlorophenol/ 3,4,5-三氯苯酚	609-19-8	0.5	0.05	
	2,3,4,5-Tetrachlorophenol/ 2,3,4,5-四氯苯酚	4901-51-3	0.5	0.05	



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			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	2,3,4,6-Tetrachlorophenol/ 2,3,4,6-四氯苯酚	58-90-2	0.5	0.05	
	2,3,5,6-Tetrachlorophenol 2,3,5,6-四氯苯酚	935-95-5	0.5	0.05	
	Pentachlorophenol (PCP)/五氯苯酚	87-86-5	0.5	0.05	
2D. Dyes - Azo (Forming Restricted Amines)/ 偶氮染料 (形成限制胺类)	4,4'-Methylene-bis-(2-chloro-aniline)/ 4,4'-亚甲基-二-(2-氯苯胺)	101-14-4	0.1	0.2	EN 14362. Reduction step with Sodiumdithionite, solvent extraction, GC/MS or LC/MS
	4,4'-methylenedianiline/ 4,4'-二氨基二苯甲烷	101-77-9	0.1	0.2	
	4,4'-Oxydianiline/ 4,4'-二氨基二苯醚	101-80-4	0.1	0.2	
	4-Chloroaniline/4-氯苯胺	106-47-8	0.1	0.2	
	3,3'-Dimethoxybenzidine/ 3,3'-二甲氧基联苯胺	119-90-4	0.1	0.2	
	3,3'-Dimethylbenzidine/ 3,3'-二甲基联苯胺	119-93-7	0.1	0.2	
	6-methoxy-m-toluidine (p-Cresidine)/ 甲氧基间甲苯胺	120-71-8	0.1	0.2	
	2,4,5-Trimethylaniline/ 2,4,5-三甲基苯胺	137-17-7	0.1	0.2	
	4,4'-Thiodianiline/ 4,4'-二氨基二苯硫醚	139-65-1	0.1	0.2	
	4-Aminoazobenzene/ 4-氨基偶氮苯	60-09-3	0.1	0.2	
	4-Methoxy-m-phenylenediamine/ 4-甲氧-间苯二胺	615-05-4	0.1	0.2	
	4,4'-Methylene-di-o-toluidine/ 4,4'-二甲基-邻甲苯胺	838-88-0	0.1	0.2	
	2,6-Xylidine/ 2,6-二甲基苯胺	87-62-7	0.1	0.2	
	o-Anisidine/邻氨基苯甲醚	90-04-0	0.1	0.2	
	2-Naphthylamine/2-萘胺	91-59-8	0.1	0.2	
	3,3'-Dichlorobenzidine/ 3,3'-二氯联苯胺	91-94-1	0.1	0.2	
	4-Aminodiphenyl/ 4-氨基联苯	92-67-1	0.1	0.2	
	Benzidine/联苯胺	92-87-5	0.1	0.2	
	o-Toluidine/邻甲苯胺	95-53-4	0.1	0.2	
	2,4-Xylidine/ 2,4-二甲基苯胺	95-68-1	0.1	0.2	
	4-Chloro-o-toluidine/ 4-氯邻甲苯胺	95-69-2	0.1	0.2	
	4-Methyl-m-phenylenediamine/ 4-甲基间苯二胺	95-80-7	0.1	0.2	
	o-Aminoazotoluene/ 邻氨基偶氮甲苯	97-56-3	0.1	0.2	
	5-nitro-o-toluidine/ 5-硝基-邻甲苯胺	99-55-8	0.1	0.2	

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2E. Dyes- Carcinogenic or Equivalent Concern/ 致癌染料或等同	C.I. Direct Black 38/ C.I.直接黑 38	1937-37-7	500	10	Liquid Extraction LC/MS
	C.I. Direct Blue 6/ C.I.直接蓝 6	2602-46-2	500	10	
	C.I. Acid Red 26/ C.I.酸性红 26	3761-53-3	500	10	
	C.I. Basic Red 9/ C.I.碱性红 9	569-61-9	500	10	
	C.I. Direct Red 28/ C.I.直接红 28	573-58-0	500	10	
	C.I. Basic Violet 14/ C.I.碱性紫 14	632-99-5	500	10	
	C.I. Disperse Blue 1 / C.I.分散蓝 1	2475-45-8	500	10	
	C.I. Disperse Blue 3 / C.I.分散蓝 3	2475-46-9	500	10	
	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	500	10	
	C.I. Basic Green 4 (malachite green chloride)/ C.I. 碱性绿 4(孔雀石绿氯化物)	569-64-2	500	10	
	C.I. Basic Green 4 (malachite green oxalate)/ C.I. 碱性绿 4(孔雀石绿草酸盐)	2437-29-8	500	10	
	C.I. Basic Green 4(malachite green)/ C.I. 碱性绿 4(孔雀石绿)	10309-95-2	500	10	
	Disperse Orange 11/分散橙 11	82-28-0	500	10	
2F. Dyes-disperse (sensitizing)/ 分散染料 (致敏)	Disperse Yellow 1 / 分散黄 1	119-15-3	50	2	Liquid Extraction LC/MS
	Disperse Blue 102 / 分散蓝 102	12222-97-8	50	2	
	Disperse Blue 106 / 分散蓝 106	12223-01-7	50	2	
	Disperse Yellow 39 / 分散黄 39	12236-29-2	50	2	
	Disperse Orange 37/59/76 / 分散橙 37/59/76	13301-61-6	50	2	
	Disperse Brown 1 / 分散棕 1	23355-64-8	50	2	
	Disperse Orange 1/ 分散橙 1	2581-69-3	50	2	
	Disperse Yellow 3/ 分散黄 3	2832-40-8	50	2	
	Disperse Red 11/分散红 11	2872-48-2	50	2	
	Disperse Red 1/分散红 1	2872-52-8	50	2	
	Disperse Red 17 / 分散红 17	3179-89-3	50	2	
	Disperse Blue 7 /分散蓝 7	3179-90-6	50	2	
	Disperse Blue 26 /	3860-63-7	50	2	



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	散蓝 26				
	Disperse Yellow 49 / 分散黄 49	54824-37-2	50	2	
	Disperse Blue 35 / 分散蓝 35	12222-75-2	50	2	
	Disperse Blue 124 / 分散蓝 124	61951-51-7	50	2	
	Disperse Yellow 9 / 分散黄 9	6373-73-5	50	2	
	Disperse Orange 3 / 分散橙 3	730-40-5	50	2	
	Disperse Blue 35 / 分散蓝 35	56524-77-7	50	2	
2G. Flame Retardants/阻燃剂	Tris(2-chloroethyl) phosphate (TCEP)/ 三(2-氯乙基)磷酸酯	115-96-8	5	1	ISO 22032, USEPA527 and USEPA8321B. Dichloromethane extraction GC/MS or LC/MS(-MS)
	Decabromodiphenyl ether (DecaBDE)/ 十溴联苯醚	1163-19-5	5	1	
	Tris(2,3-dibromopropyl) phosphate (TRIS/TDBPP)/ 三(2,3-二溴丙基)磷酸酯	126-72-7	5	1	
	Pentabromodiphenyl ether (PentaBDE)/ 五溴联苯醚	32534-81-9	5	1	
	Octabromodiphenyl ether (OctaBDE)/ 八溴联苯醚	32536-52-0	5	1	
	Bis(2,3-dibromopropyl) phosphate (BIS/BDBPP)/ 二(2,3-二溴丙基)磷酸酯	5412-25-9	5	1	
	Tris(aziridinyl)-phosphineoxide (TEPA)/ 三-(氮环丙基)-膦化氧	545-55-1	5	1	
	Polybromobiphenyls (PBBs)/多 溴联苯	59536-65-1	5	1	
	Tetrabromobisphenol A (TBBPA)/ 四溴双酚 A	79-94-7	5	1	
	Hexabromocyclododecane (HBCDD)/ 六溴环十二烷	3194-55-6	5	1	
	2,2-Bis(bromomethyl)-1,3- propanediol (BBMP)/ 2,2-二(溴甲基)-1,3-丙二醇	3296-90-0	5	1	
	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)/ 三(1,3-二氯异丙基)磷酸酯	13674-87-8	5	1	
	Short chain chlorinated paraffins (SCCPs) (C10-C13)/ 短链氯化石蜡	85535-84-8	5	1	
2H. Glycols/乙二醇	2-ethoxyethyl acetate / 乙二醇乙醚醋酸酯	111-96-6	50	10	US EPA 8270 Liquid Extraction LC/MS
	Ethylene glycol dimethyl ether/	110-80-5	50	10	

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	乙二醇二甲醚				
	2-methoxyethanol / 乙二醇甲醚	111-15-9	50	10	
	2-methoxyethylacetate / 乙二醇甲醚乙酸酯	110-71-4	50	10	
	2-methoxypropylacetate/ 2-甲基丙醇乙酸酯	109-86-4	50	10	
	Triethylene glycol dimethyl ether/ 三乙二醇二甲醚	110-49-6	50	10	
	2-ethoxyethyl acetate / 乙二醇乙醚醋酸酯	70657-70-4	50	10	
	Ethylene glycol dimethyl ether/ 乙二醇二甲醚	112-49-2	50	10	
2I. Halogenated Solvents/卤化溶剂	1,2-Dichloroethane/ 1,2-二氯乙烷	107-06-2	1	2	USEPA 8260B Headspace GC/MS or Purgeand-Trap-GC/MS
	Methylene Chloride/ 二氯甲烷	75-09-2	1	2	
	Trichloroethylene/ 三氯乙烯	79-01-6	1	2	
	Tetrachloroethylene /四氯乙烯	127-18-4	1	2	
2J. Organotin Compounds/ 有机锡化合物	Mono-, di- and tri-methyltin derivatives/ 一,二,三-甲基锡衍生物	Multiple	0.01	0.2	ISO 17353 Derivatisation with NaB(C ₂ H ₅) GC/MS
	Mono-, di- and tri-butyltin derivatives/ 一,二,三-丁基锡衍生物	Multiple	0.01	0.2	
	Mono-, di- and tri-phenyltin derivatives/ 一,二,三-苯基锡衍生物	Multiple	0.01	0.2	
	Mono-, di- and tri-octyltin derivatives/ 一,二,三-辛基锡衍生物	Multiple	0.01	0.2	
	Monomethyltin/ 甲基锡	Multiple	0.01	0.2	
	Dimethyltin/ 二甲基锡	Multiple	0.01	0.2	
	Trimethyltin/ 三甲基锡	Multiple	0.01	0.2	
	Monobutyltin/ 丁基锡	Multiple	0.01	0.2	
	Dibutyltin/ 二丁基锡	Multiple	0.01	0.2	
	Tributyltin/ 三丁基锡	Multiple	0.01	0.2	
	Monophenyltin/ 单苯锡	Multiple	0.01	0.2	
	Diphenyltin/ 二苯锡	Multiple	0.01	0.2	
	Triphenyltin/ 三苯锡	Multiple	0.01	0.2	
	Monooctyltin/辛基锡	Multiple	0.01	0.2	
	Diocetyltn/二辛基锡	Multiple	0.01	0.2	
	Triocetyltn/三辛基锡	Multiple	0.01	0.2	
2K. Perfluorinated	Perfluorooctanesulfonic acid	355-46-4 ,432-50-7	0.01	0.10	DIN 38407-42



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and Polyfluorinated Chemicals (PFCs)/全氟化合物和多氟化合物	(PFOS)/全氟辛烷磺酸				(modified) Ionic PFC: Concentration or direct injection, LC/MS(-MS); Non-ionic PFC (FTOH): derivatisation with acetic anhydride, followed by GC/MS
	Perfluoro-n-octanoic acid (PFOA)/全氟辛酸	335-67-1	0.01	0.10	
	Perfluorobutanesulfonic acid (PFBS)/全氟丁基磺酸	29420-49-3, 29420-43-3	0.01	0.10	
	Perfluoro-n-hexanoic acid (PFHxA)/全氟己酸	307-24-4	0.01	0.10	
	8:2 FTOH/8:2-全氟辛基乙醇	678-39-7	1	1	
	6:2 FTOH/6:2-全氟乙醇	647-42-7	1	1	
2L. Phthalates (including all other esters of phthalic acid)/苯二甲酸盐 (包括其他邻苯二甲酸酯类)	Di-2-ethylhexyl phthalate (DEHP)/邻苯二甲酸二(2-乙基己基酯)	117-81-7	10	2	US EPA 8270D, ISO 18856 Dichloromethane extraction GC/MS
	Dimethoxyethyl phthalate (DMEP)/邻苯二甲酸二甲氧基乙酯	117-82-8	10	2	
	Di-n-octyl phthalate (DNOP)/邻苯二甲酸二辛酯	117-84-0	10	2	
	Di-iso-decyl phthalate (DIDP)/邻苯二甲酸二异癸酯	26761-40-0	10	2	
	Di-iso-nonyl phthalate (DINP)/邻苯二甲酸二异壬酯	28553-12-0	10	2	
	Di-n-hexyl phthalate (DnHP)/邻苯二甲酸二己酯	84-75-3	10	2	
	Dibutyl phthalate (DBP)/邻苯二甲酸二丁酯	84-74-2	10	2	
	Butyl benzyl phthalate (BBP)/邻苯二甲酸丁苄酯	85-68-7	10	2	
	Dinonyl phthalate (DNP)/邻苯二甲酸二壬酯	84-76-4	10	2	
	Diethyl phthalate (DEP)/邻苯二甲酸二乙酯	84-66-2	10	2	
	Di-n-propyl phthalate (DPRP)/邻苯二甲酸二丙酯	131-16-8	10	2	
	Di-iso-butyl phthalate (DIBP)/邻苯二甲酸二异丁酯	84-69-5	10	2	
	Di-cyclohexyl phthalate (DCHP)/邻苯二甲酸二环己酯	84-61-7	10	2	
	Di-iso-octyl phthalate (DIOP)/邻苯二甲酸二异辛酯	27554-26-3	10	2	
	1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)/邻苯二甲酸-二(C7-C11 支链与直链)	68515-42-4	10	2	
	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)/	71888-89-6	10	2	



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	邻苯二甲酸二支链烷基酯				
2M. Poly Aromatic Hydrocarbons (PaHs)/多环芳香烃	Benzo[a]pyrene (BaP) / 苯并[a]芘	50-32-8	1	0.2	DIN 38407-39 Solvent extraction GC/MS
	Anthracene /蒽	120-12-7	1	0.2	
	Pyrene /芘	129-00-0	1	0.2	
	Benzo[ghi]perylene / 苯并[g,h,i] 芘	191-24-2	1	0.2	
	Benzo[e]pyrene / 苯并[e]芘	192-97-2	1	0.2	
	Indeno[1,2,3-cd]pyrene / 茛并(1,2,3-cd)芘	193-39-5	1	0.2	
	Benzo[j]fluoranthene / 苯并[j]荧蒽	205-82-3	1	0.2	
	Benzo[b]fluoranthene / 苯并[b]荧蒽	205-99-2	1	0.2	
	Fluoranthene /荧蒽	206-44-0	1	0.2	
	Acenaphthylene /茚	207-08-9	1	0.2	
	Chrysene /屈	208-96-8	1	0.2	
	Dibenz[a,h]anthracene / 二苯并[a, h] 蒽	218-01-9	1	0.2	
	Benzo[a]anthracene/ 苯并[a] 蒽	53-70-3	1	0.2	
	Acenaphthene /二氢茚	56-55-3	1	0.2	
	Phenanthrene /菲	83-32-9	1	0.2	
	Fluorene /茛	85-01-8	1	0.2	
	Naphthalene /萘	86-73-7	1	0.2	
	Acenaphthylene /茚	91-20-3	1	0.2	
2N. Volatile Organic Compound (VOCs)/挥发性有机化合物	Benzene /苯	71-43-2	1	2	ISO 11423-1 Headspace- or Purge-and-Trap-GC/MS
	Xylene /二甲苯	1330-20-7	1	2	
	o-cresol /邻甲苯酚	95-48-7	1	2	
	p-cresol /对甲苯酚	106-44-5	1	2	
	m-cresol /间甲苯酚	108-39-4	1	2	
1A. Conventional Parameters (sum parameters)/常规参数	Temperature/温度	—	N/A	N/A	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 and the levels (Foundational, Progressive, and Aspirational). Cyanide: With reference to APHA 4500 CN—B,C&E and followed by UV
	TSS/总悬浮固体	—	N/A	N/A	
	COD/化学需氧量	—	N/A	N/A	
	Total-N/总氮	—	N/A	N/A	
	pH/酸碱值	—	N/A	N/A	
	Color [m ⁻¹] (436nm; 525nm; 620nm)/色度	—	N/A	N/A	
	BOD ₅ /五日生化需氧量	—	N/A	N/A	
	Ammonium-N/氨态氮	—	N/A	N/A	
	Total-P/总磷	—	N/A	N/A	
	AOX/可吸附有机卤化物	—	N/A	N/A	
	Oil and Grease/油和油脂	—	N/A	N/A	
	Phenol/苯酚	—	N/A	N/A	
	Coliform(bacteria/100ml)/大肠菌	—	N/A	N/A	



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Group/组别	Substance (analytes)/分析物质	CAS No./化学物质登记号	Report Limit		Name of the testing method/测试方法
			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	群				analysis
	Persistent Foam/泡沫持久性	—	Not visible	Not visible	
	ANIONS/阴离子				
	Cyanide(CN-)/氰化物	Various (incl. 57-12-5)	0.02	1	
	Sulfide/硫化物	—	N/A	N/A	
	Sulfite/亚硫酸盐	—	N/A	N/A	
Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (mg/L) / (ppm)	Wastewater (mg/kg) / (ppm)	
1B. Conventional Parameters – METALS/常规参数-重金属	Antimony(Sb)/锑	7440-36-0	0.001	N/A	Various Acid Digestion with ICP analysis please refer to ZDHC Wastewater Guidelines for more details on the testing method and the levels (Foundational, Progressive, and Aspirational).
	Chromium(Cr), total/总铬	7440-47-3	0.001	N/A	
	Cobalt(Co)/钴	7440-48-4	0.001	N/A	
	Copper(Cu)/铜	7440-50-8	0.001	N/A	
	Nickel(Ni)/镍	7440-02-0	0.001	N/A	
	Silver(Ag)/银	7440-22-4	0.001	N/A	
	Zinc(Zn)/锌	7440-66-6	0.001	N/A	
	Arsenic(As)/砷	7440-38-2	0.001	2	
	Cadmium(Cd)/镉	7440-43-9	0.0001	2	
	Chromium VI(CrVI)/六价铬	18540-29-9	0.001	2	
	Lead(Pb)/铅	7439-92-1	0.001	2	
	Mercury(Hg)/汞	7439-97-6	0.00005	0.2	Cr(VI): Various Solvent extraction and derivatisation followed by UV analysis

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



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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:	66210830303
Client Name:	
Field Contact Person:	田成
Project (Facility Name and Address):	晋丰化学有限公司
Sampling Location / Description:	污水处理站
Sample Identification:	Zero discharge with sampling plan
Sample Type:	Composite Sample / Grab sample (Please delete as appropriate)
Name of Sampler:	王成
Discharge mode:	Direct discharge to environment (Specify destination: River, Sea, Stream...) OR Indirect discharge to sewage treatment plant
Date of collection:	2021.3.24
Factory Type:	Dyeing / Printing / Washing / Finishing / Others (please specify):

*Note: It would be selected more than one

Field Data for Wastewater

Arrival Time:	9:00	Departure Time:	15:40						
Field Parameters	pH:	Temp:	°C						
Control No. of field equipment		Color:							
Factory with effluent treatment plant:	Yes	Flow rate:	(volume/min)						
Sample matrix:	Incoming water (If required)	No							
	Wastewater before treatment								
	Wastewater after treatment – water at discharge point								
Sampler container number	A7								
Recording time	ID	1	2	3	4	5	6	7	8
	Time	9:05							
pH:	7.8								
Temp (°C):	15.3								
Color:	2.0								
Flow rate (volume/time)									
Volume collected, mL	4.8L								
Total volume collected	4.8L	Remark: Total volume collected must be greater than total of sample size required							

Analysis Required and Preservation Method

Tests (ZDHC MRSL Parameters)		Test required (v)	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		
Tests (Conventional Parameters)		Test required (v)	Total of sample size	Type of container	Preservation method		
Combined test or Individual test (Remark 4)	17. Total suspended solids (TSS)		2000 mL total or 2000 mL each	Amber Glass, washed with nitric acid, rinsed thoroughly with distilled water and	Without adding acid Store sample at 6°C		
	18. *Total dissolved solids (TDS)						



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19. 5-day Biochemical Oxygen Demand (BOD5)		1000 mL	Amber Glass, washed with nitric acid, pre-add 6.5 mL 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)	✓	9 mL	PE, washed with nitric acid, pre-add 6.5 mL 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	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% Na ₂ S ₂ O 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 ₂ SO ₄	Acidify to pH 2 with H ₂ SO ₄ , Store sample at 6°C
24. Phenols		500 mL	Amber Glass, washed with nitric acid; Pre-add 6.5 mL of 2M H ₂ SO ₄	Fill to full container without air gap; acidify to pH 2 with H ₂ SO ₄ and store sample at 6°C
25. *Formaldehyde		25 mL	Amber Glass, washed with nitric acid; Pre-add 6.5 mL of 2M H ₂ SO ₄	Fill to full container without air gap; acidify to pH 2 with H ₂ SO ₄ 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 6.5 mL of 2M HNO ₃	Add 0.05 ml of 10% Na ₂ S ₂ O ₃ , acidify to pH 2 with H ₂ SO 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): <u>Yes / No</u>	
30. Sulfite		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
31. Total-N		100 mL	Amber Glass with wide-mouth PTFE lid, washed with nitric acid; Pre-add 6.5 mL of 2M H ₂ SO ₄	Acidify to pH 2 with H ₂ SO ₄ . Store sample at 6°C
32. Ammonium-N		500 mL	Amber Glass, washed with nitric acid; Pre-add 6.5 mL of 2M H ₂ SO ₄	Acidify to pH 2 with H ₂ SO ₄ . Store sample at 6°C
33. Oil and Grease		1000 mL	Amber Glass, washed with nitric acid; Pre-add 6.5 mL of 2M H ₂ SO ₄	Acidify to pH 2 with H ₂ SO ₄ . Store sample at 6°C
34. Total Hydrocarbon		1000 mL	Amber Glass, washed with nitric acid; Pre-add 6.5 mL of 2M H ₂ SO ₄	Acidify to pH 2 with H ₂ SO ₄ . Store sample at 6°C
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	Amber Glass, washed with nitric acid, rinsed thoroughly with distilled water and dried before use	Without adding acid. Store sample at 6°C
37. Chloride		100 mL	Amber Glass, washed with nitric acid, rinsed thoroughly with distilled water and dried before use	Without adding acid. Store sample at 6°C
38. Others:				
Observation/ Remark:				

*Remarks:

- Individual sampling can be performed upon request
- 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.
- 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 Guideline, they are tested upon request.
- Refer to CPD-AN-G00019-STIP01, locations with those CPD test capability inside TCD matrix can perform the combined test.
- Refer to CPD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.
- Refer to CPD-AN-00613-MTHD for preparation of field blank for specific parameter

Recorded by:

Full name:

Date:

2021.3.24

Comment from factory

Detectors: ~ 36° 39' 58.56" E 117° 56' 41.66" N

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:

Full Name:

Date:

2021.3.24



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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: 66210830303

Client Name: _____

Field Contact Person: 周晓 Phone No: 1525382377

Project (Facility Name and Address): 嘉兴红家解限公司

Sampling Location / Description: 66号南排水口

Sample Identification: Zero discharge with sampling plan

Sample Type: Composite Sample / Grab sample (Please delete as appropriate)

Name of Sampler: 汪磊

Discharge mode: Direct discharge to environment (Specify destination: River, Sea, Stream...) OR Indirect discharge to sewage treatment plant

Date of collection: 2021.3.24

Factory Type: Dyeing / Printing / Washing / Finishing / Others (please specify):

*Note: It would be selected more than one

Field Data for Wastewater

Field Data for Wastewater		9:00		Departure Time:		15:40											
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		✓		✓		✓		✓		✓		✓			
		Time		9:10		10:10		11:10		12:10		13:10		14:10		15:10	
pH:		11.6		11.7		11.6		11.7		11.7		11.5		11.6		/	
Temp (°C):		34.5		34.6		34.5		34.7		34.5		34.8		34.4			
Color:		深蓝色		深蓝色		深蓝色		深蓝色		深蓝色		深蓝色		深蓝色			
Flow rate (volume/time)																	
Volume collected, mL		0.92L		0.92L		0.92L		0.92L		0.92L		1.28L		0.92L			
Total volume collected		6.8L		Remark: Total volume collected must be greater than total of sample size required													

Analysis Required and Preservation Method

Tests (ZDHC MRSL Parameters)	Test required (v)	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 8.5 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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19. 5-day Biochemical Oxygen Demand (BOD5)		1000 mL	Under before use	
20. Heavy Metals except Cr(VI) & Total-P (Remark 5)	✓	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 ₂ S ₂ O ₃ , and store sample at 6°C
23. Chemical oxygen demand (COD)		150 mL		Acidify to pH 2 with H ₂ SO ₄ Store sample at 6°C
24. Phenols		500 mL	Amber Glass, washed with nitric acid; Pre-add 6.5 mL of 2M H ₂ SO ₄	Fill to full container without air gap; acidify to pH 2 with H ₂ SO ₄ and store sample at 6°C
25. *Formaldehyde		25 mL		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)		50 mL	PE, washed with pesticide grade Acetone;	Add 0.05 ml of 10% Na ₂ S ₂ O ₃ , acidify to pH 2 with H ₂ SO ₄ , 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	
28. Total Coliform (Remark 6)		125 mL	PE, clean, sterile, non-reactive	
29. Persistent foam		N.A.	Foam higher than 45 cm (visual estimation): <u>Yes / No</u>	
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 H ₂ SO ₄	Acidify to pH 2 with H ₂ SO ₄ 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 H ₂ SO ₄	Without adding acid Store sample at 6°C
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	
36. Sulphate		100 mL		
37. Chloride		100 mL		
38. Others:				
Observation/ Remark:				

*Remarks:

- Individual sampling can be performed upon request
- 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.
- 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 Guideline, they are tested upon request.
- Refer to CPD-AN-G00019-STIP01, locations with those CPD test capability inside TCD matrix can perform the combined test.
- Refer to CPD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested
- Refer to CPD-AN-00613-MTHD for preparation of field blank for specific parameter

Recorded by: 汪磊
Full name:

Date: 2021.3.24

Comment from factory

5.28前GPS: N36°40'15.4" E121°44'44.84"

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:

Full Name:

Date: 2021.3.24



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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: 66210830303

Client Name: 同德

Field Contact Person: 曾卓尔 Phone No: 152 53382377

Project (Facility Name and Address): 曾卓尔有限公司

Sampling Location / Description: 污水处理站

Sample Identification: Zero discharge with sampling plan

Sample Type: Composite Sample / Grab sample (Please delete as appropriate)

Name of Sampler: 王芳

Discharge mode: Direct discharge to environment (Specify destination: River, Sea, Stream...) OR Indirect discharge to sewage treatment plant

Date of collection: 2021.3.24

Factory Type: Dyeing / Printing / Washing / Finishing / Others (please specify):

*Note: It would be selected more than one

Field Data for Wastewater

Arrival Time:	9:00		Departure Time:	15:40			
Field Parameters	pH:		Temp:	°C	Color:		Flow rate: (volume/min)
Control No. of field equipment							
Factory with effluent treatment plant:	Yes ☒						
Sample matrix:	Incoming water (If required)						
	Wastewater before treatment						
	Wastewater after treatment - water at discharge point						
Sampler container number	A3						
	1	2	3	4	5	6	7
Recording time	ID						
	Time	9:18	10:18	11:18	12:18	13:18	14:18
pH:		7.7	7.7	7.8	7.7	7.5	7.4
Temp (°C):		16.6	16.8	16.6	16.8	16.6	16.8
Color:		浅黄色	浅黄色	浅黄色	浅黄色	浅黄色	浅黄色
Flow rate (volume/time)							
Volume collected, mL		1.15L	1.15L	1.15L	1.15L	3L	1.15L
Total volume collected		9.9L	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 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
Tests (Conventional Parameters)		Test required (v)	Total of sample size	Type of container	Preservation method
Combined test or Individual test (Remark 4)	17. Total suspended solids (TSS)	☒	2000 mL total or 2000 mL each	Amber Glass, washed with nitric acid, rinsed thoroughly with distilled water and	Without adding acid Store sample at 6°C
	18. *Total dissolved solids (TDS)	☒			



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19. 5-day Biochemical Oxygen Demand (BOD5)	✓	1000 mL	PE, washed with nitric acid, pre-add 6.5 mL 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 5)	✓	9 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
21. Cr(VI)	✓	95 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% Na ₂ S ₂ O ₃ , and store sample at 6°C
22. Cyanide	✓	500 mL	Amber Glass, washed with nitric acid; Pre-add 6.5 mL of 2M H ₂ SO ₄	Acidify to pH 2 with H ₂ SO ₄ 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 ₂ SO ₄	Fill to full container without air gap; acidity to pH 2 with H ₂ SO ₄ and store sample at 6°C
24. Phenols	✓	500 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
25. *Formaldehyde	✓	25 mL	Amber Glass, washed with nitric acid, pre-add 6.5 mL of 2M HNO ₃	Add 0.05 ml of 10% Na ₂ S ₂ O ₃ , acidity to pH 2 with H ₂ SO ₄ , Store sample at 6°C
26. Sulfide (Remark 5)	✓	50 mL	PE, clean, sterile, non-reactive	Foam higher than 45 cm (visual estimation): <u>Yes / No</u>
27. Adsorbable organically bound halogens (AOX)	✓	100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA, 0.5g zinc acetate Store sample at 6°C
28. Total Coliform (Remark 6)	✓	125 mL	Amber Glass with wide-mouth PTFE lid, washed with nitric acid; Pre-add 6.5 mL of 2M H ₂ SO ₄	Acidify to pH 2 with H ₂ SO ₄ Store sample at 6°C
29. Persistent foam	✓	N.A.	Amber Glass, washed with nitric acid; Pre-add 6.5 mL of 2M H ₂ SO ₄	Without adding acid Store sample at 6°C
30. Sulfite	✓	100 mL	Amber Glass, washed with nitric acid, rinsed thoroughly with distilled water and dried before use	
31. Total-N	✓	100 mL		
32. Ammonium-N	✓	500 mL		
33. Oil and Grease	✓	1000 mL		
34. Total Hydrocarbon	✓	1000 mL		
35. Luminous Bacteria Toxicity	✓	1000 mL		
36. Sulphate	✓	100 mL		
37. Chloride	✓	100 mL		
38. Others:	✓			

Observation/ Remark:

*Remarks:

- Individual sampling can be performed upon request
- 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.
- 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 Guideline, they are tested upon request.
- Refer to CPSD-AN-G00019-STIP01, locations with those CPSD test capability inside TCD matrix can perform the combined test.
- Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested
- Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters

Recorded by:

汉磊
Full name:

Date:

2021.3.24

Comment from factory

SL2086 GPS: N36°40'2.57" E 117°56'49.53"

Acknowledgement by factory

I hereby confirmed that Bureau Veritas has completed the stated sampling activity, as captured 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 are stored in portable freezer / fridge that is maintained in 1-6°C

Signatory of Factory Representative:

Full Name:

Date:

2021.3.24

Field Data for Sludge

Arrival Time:		Departure Time:	
Field Parameters	pH:	Temp: °C	Color:
Control No. of field equipment			



Technical Report:

(6621)083-0303

April 7, 2021

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APPENDIX D/附录 D – Limitation Value of Legal Requirements/法律要求限值

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)	
DW001		悬浮物	100	
DW001		硫化物	0.5	
DW001		pH值	6-9	
DW001		五日生化需氧量	50	
DW001		化学需氧量	200mg/L	
DW001		总磷 (以P计)	1.5	
DW001		可吸附有机卤化物	12	
DW001		氨氮 (NH ₃ -N)	20mg/L	
DW001		二氧化氯	0.5	
DW001		色度	80	
DW001		总氮 (以N计)	30	
DW001		苯胺类	1.0	
DW001		流量	/	
主要排放口合计			CODcr	
			氨氮	