

# **TEST REPORT**

**Technical Report** (9317)107-1291-R1 Apr 18, 2017 Date Received

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The report is amendment of and supersedes the previous report (9317)107-1291 dated May 16, 2017

I003) Black solid - Sludge

Factory Company Name:	Guandong Jingying Textile Co.,Ltd
Factory Address:	Hight&New Technology Industrial Development Zone, Huashen Industrized Country, Da Wang, Zhao Qing, Guang Dong
Project No.:	
Client Reference No.:	/
Sample Type:	Wastewater - Time-Weighted Composite Grab Samples*
Sample Pick Up Date:	Apr 18, 2017
Wastewater Discharge to:	Centralized ETP- Zhaoqing haowang huanbao fazhan youxiangongsi
On-Site Effluent Treatment Plant (ETP):	Yes
Test Period:	Apr 18, 2017 to May 16, 2017
Sample Description:	
	I001) Transparent liquid – Incoming water
	1002) Transparent liquid – Discharged Wastewater

**REMARK** 

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

(86)20-22902088 bvcps\_pyinfo@cn.bureauveritas.com

This report shown the test result of the environment samples of above factory which collected on specific date and time. The results of this report shall not be used for any regulatory compliance purposes.

\* The sampling is agreed with client.

BUREAU VERITAS CONSUMER PRODUCTS SERVICES (GUANGZHOU) CO., LTD

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NINA REN SENIOR MANAGER

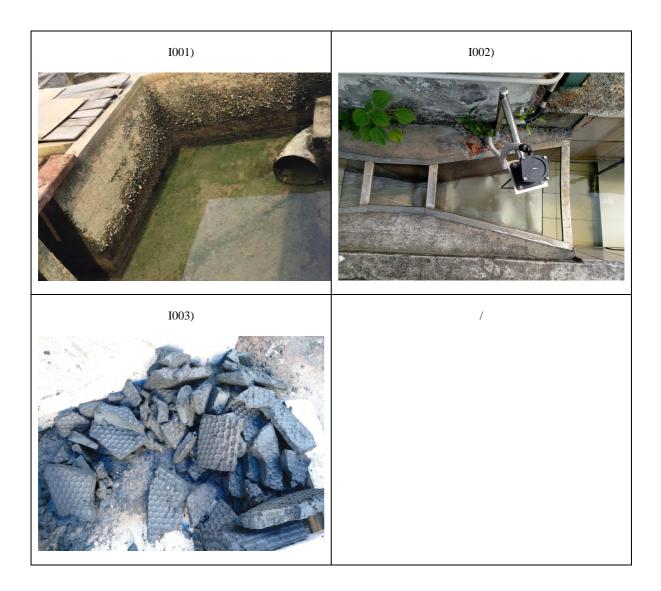
**Bureau Veritas Consumer Products Services** (Guangzhou) Co., Ltd

No. 183, Shinan Road, Meilin Plaza, Dongchong, Nansha, Guangzhou, Guangdong Province, China 511453 Tel: (86) 20 2290 2088 Fax: (86) 20 3490 9303  $Email: BVCPS\_pyinfo@cn.bureauveritas.com$ Website: cps.bureauveritas.com



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# Photo of the Sample/ Sampling Location





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# **Executive Summary**

1A) Conventional Parameters	I001	1002	1003
Temperature			
TSS			
COD			
Total-N			
pH Value			
Color (436nm; 525nm; 620nm)			
BOD <sub>5</sub>			
Ammonium-N	N/A See result in page 5-9	See result in	N/A
Total-P		page 5-9	
AOX			
Oil and Grease			
Phenol			
Coliform			
Foam			
ANIONS - Sulfide	]		
ANIONS - Sulfite			
1B) Conventional Parameters –METALS	•	•	•

ZDHC MRSL Substances	I001	1002	1003
2A) APs and APEOs	0	0	•
2B) Chlorobenzenes and Chlorotoluenes	NR	0	0
2C) Chlorophenols	NR	0	0
2D) Azo Dyes	NR	0	0
2E) Carcinogenic Dyes	NR	0	0
2F) Disperse Dyes	NR	0	0
2G) Flame Retardants	NR	0	0
2H) Glycols	NR	0	0
2I) Halogenated Solvents	NR	0	0
2J) Organotin Compounds	NR	0	0
2K) Perfluorinated and Polyfluorinated	NR	0	0
2L) Phthalates	NR	0	0
2M) Poly Aromatic Hydrocarbons	NR	0	0
2N) Volatile Organic Compounds	NR	0	0

Note / Key :

- • – Detected

- o - Not Detected

- NR=Not Request



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# **Objective**

The environment samples were tested for below parameters.

1A) Conventional Parameters 1B) Conventional Parameters - METALS 2A) APs and APEOs 2B) Chlorobenzenes and Chlorotoluenes 2C) Chlorophenols 2D) Azo Dyes 2E) Carcinogenic Dyes 2F) Disperse Dyes 2G) Flame Retardants 2H) Glycols 2I) Halogenated Solvents 2J) Organotin Compounds 2K) Perfluorinated and Polyfluorinated Chemicals 2L) Phthalates 2M) Poly Aromatic Hydrocarbons 2N) Volatile Organic Compounds

# **Sampling Plan**

Basically, three environment samples were sampled per factory, including 1) Incoming water; 2) Raw Wastewater; 3) Discharged Wastewater and 4) Sludge. Total number of sample collected will be depended on the actual factory facilities and manufacturing processes.

Method of sampling used is time-weighted composite grab samples (agreed with client.). Composite sampling shall be performed for no less than six hours, with no more than one hour between discrete samples. Each discrete sample shall be of equal volume. Wastewater and freshwater samples should, as much as possible, be collected simultaneously, during the time that PU is in normal operation. The sampling shall aim 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.

#### Remark :

- Sampling procedure is with reference to below standards:

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 data records are attached in Appendix B.



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# **Test Result**

#### 1A) Conventional Parameters

**Temperature** 

#### Test Method : GB/T 13195

Tested Item(s)	Result	Unit	Conclusion
1002	26 (Progressive)	deg. C	DATA

Note:

deg. C = degree Celsius (°C) Foundational Limit:  $\blacktriangle 15 / \text{max}$ . 35°C; Progressive Limit:  $\blacktriangle 10 / \text{max}$ . 30°C; Aspirational Limit:  $\blacktriangle 5 / \text{max}$ . 25°C

Total Suspended Solids (TSS)

# Test Method : GB/T 11901

Tested Item(s)	Result	Unit	Conclusion
1002	9 (Progressive)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 50 mg/L; Progressive Limit: 15 mg/L; Aspirational Limit: 5 mg/L

#### Chemical Oxygen Demand (COD)

**Test Method** : GB/T 11914

Tested Item(s)	Result	Unit	Conclusion
1002	23.4 (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter

Foundational Limit: 150 mg/L; Progressive Limit: 80 mg/L; Aspirational Limit: 40 mg/L



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#### Total Nitrogen (Total-N)

**Test Method** : HJ 636-2012

Tested Item(s)	Result	Unit	Conclusion
1002	5.54 (Progressive)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 20 mg/L; Progressive Limit: 10 mg/L; Aspirational Limit: 5 mg/L

#### <u>pH Value</u>

# Test Method : GB/T 6920

-	Unit	Result
Test Item(s)	-	I002
Parameter	-	-
Temp. of sample	deg. C	25
pH value of sample	-	7.73
Conclusion	-	DATA

Note:

Temp. = Temperature deg. C = degree Celsius (°C) Limit: 6 - 9

# Color [m<sup>-1</sup>] (436nm; 525nm; 620nm)

Test Method : With reference to ISO 7887-B

Tested Item(s)	Result	Unit	Conclusion
I002	1.9;0.7;0.4 (Aspirational)	m <sup>-1</sup>	DATA

Note:

Foundational Limit: 7;5;3 m<sup>-1</sup>; Progressive Limit: 5;3;2 m<sup>-1</sup>; Aspirational Limit: 2;1;1 m<sup>-1</sup>

#### Biochemical Oxygen Demand (BOD<sub>5</sub>)

#### Test Method : HJ 505

Tested Item(s)	Result	Unit	Conclusion
1002	3.7 (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 30 mg/L; Progressive Limit: 15 mg/L; Aspirational Limit: 5 mg/L



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#### Ammonia Nitrogen

**Test Method** : HJ 536

Tested Item(s)	Result	Unit	Conclusion
1002	4.87 (Foundational)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 10 mg/L; Progressive Limit: 1 mg/L; Aspirational Limit: 0.5 mg/L

#### Total Phosphorus (Total-P)

#### **Test Method** : GB/T 11893

Tested Item(s)	Result	Unit	Conclusion
I002	0.52 (Foundational)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 3 mg/L; Progressive Limit: 0.5 mg/L; Aspirational Limit: 0.1 mg/L

#### Adsorbable Organic Halogen (AOX)

Test Method : HJ/T 83

Tested Item(s)	Result	Unit	Conclusion
1002	0.105 (Progressive)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 5 mg/L; Progressive Limit: 1 mg/L; Aspirational Limit: 0.1 mg/L

#### Oil and Grease

#### Test Method : HJ 637

Tested Item(s)	Result	Unit	Conclusion
1002	0.123 (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 10 mg/L; Progressive Limit: 2 mg/L; Aspirational Limit: 0.5 mg/L



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#### Phenol

**Test Method** : HJ 503

Tested Item(s)	Result	Unit	Conclusion
1002	<0.001 (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 0.5 mg/L; Progressive Limit: 0.01 mg/L; Aspirational Limit: 0.001 mg/L

#### **Coliform**

**Test Method** : GB/T 5750.12

Tested Item(s)	Result	Unit	Conclusion
1002	$1.2 \times 10^4$ (Exceeded Foundational Limit)	bacteria/ 100 mL	DATA

Note:

bacteria/100 mL = bacteria per 100 milliliters Foundational Limit: 400 / 100 ml; Progressive Limit: 100 / 100 ml; Aspirational Limit: 25 / 100 ml;

#### Foam

Test Method : Visual

Tested Item(s)	Result	Unit	Conclusion
I002	No foam	-	DATA

#### ANIONS - Sulfide

**Test Method** : GB/T 16489

Tested Item(s)	Result	Unit	Conclusion
1002	<0.005 (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 0.5 mg/L; Progressive Limit: 0.05 mg/L; Aspirational Limit: 0.01 mg/L



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# ANIONS - Sulfite

#### **Test Method** : Reference to ISO 10304-3

Tested Item(s)	Result	Unit	Conclusion
I002	0.22 (Progressive)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 2 mg/L; Progressive Limit: 0.5 mg/L; Aspirational Limit: 0.2 mg/L



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# 1B) Conventional Parameters - METALS

Heavy Metals	I001	1002	1003
Antimony(Sb)			
Foundational Limit: 0.1 mg/L;		44	
Progressive Limit: 0.05 mg/L;	ND	(Progressive)	
Aspirational Limit: 0.01 mg/L		(11081000110)	
Chromium( Cr ), total			
Foundational Limit: 0.2 mg/L;	3		
Progressive Limit: 0.1 mg/L;	(Aspirational)	ND	
Aspirational Limit: 0.05 mg/L	(rispirational)		
Cobalt( Co )			
Foundational Limit: 0.05 mg/L;			
Progressive Limit: 0.02 mg/L;	ND	ND	
Aspirational Limit: 0.01 mg/L			
Copper(Cu)			
Foundational Limit: 1 mg/L;	66	16	
Progressive Limit: 0.5 mg/L;	(Aspirational)	(Aspirational)	NA
Aspirational Limit: 0.25 mg/L	(Aspirational)	(Aspirational)	
Nickel (Ni)			
Foundational Limit: 0.2 mg/L;			
Progressive Limit: 0.1 mg/L;	ND	ND	
Aspirational Limit: 0.05 mg/L			
Silver (Ag)			
Foundational Limit: 0.1 mg/L;			
Progressive Limit: 0.05 mg/L;	ND	ND	
Aspirational Limit: 0.005 mg/L			
Zinc( Zn )			
Foundational Limit: 5 mg/L;	165	25	
Progressive Limit: 1 mg/L;	(Aspirational)	(Aspirational)	
Aspirational Limit: 0.5 mg/L	(Aspirational)	(Aspirational)	
Arsenic (As)			
Foundational Limit: 0.05 mg/L;			
Progressive Limit: 0.01 mg/L;	ND	ND	ND
Aspirational Limit: 0.005 mg/L			
Cadmium(Cd)			
Foundational Limit: 0.1 mg/L;	1.0	0.7	
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)	ND
Aspirational Limit: 0.01 mg/L	(Aspirational)	(Aspirational)	
Lead(Pb)			
Foundational Limit:0.1 mg/L;			
Progressive Limit: 0.05 mg/L;	ND	ND	7
Aspirational Limit: 0.01 mg/L			
Mercury (Hg)			
Foundational Limit: 0.01 mg/L;			
Progressive Limit: 0.005 mg/L;	ND	ND	ND
Aspirational Limit: 0.001 mg/L			
Chromium VI( CrVI )	1	1	
Foundational Limit: 0.05 mg/L;			
Progressive Limit: 0.005 mg/L;	ND	ND	ND
Aspirational Limit: 0.001 mg/L			
Cyanide( CN-)			
Foundational Limit: 0.2 mg/L;			
Progressive Limit: 0.2 mg/L;	ND	ND	430
Aspirational Limit: 0.05 mg/L			
rispirational Linui. 0.05 mg/L	1	1	



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# 2A) APs and APEOs

APs and APEOs	I001	I002	I003
Octylphenol OP, mixed isomers	ND	ND	ND
Nonylphenol NP	ND	ND	15.9
Octylphenol Ethoxylates OP1EO	ND	ND	ND
Nonylphenol Ethoxylates OPEO (2-16)	ND	ND	ND
Nonylphenol Ethoxylates NP1EO	ND	ND	ND
Nonylphenol Ethoxylates NPEO (2-18)	ND	ND	ND

# Others Priority Chemical Groups

	I001	I002	I003
2B) Chlorobenzenes and Chlorotoluenes	NR	ND	ND
2C) Chlorophenols	NR	ND	ND
2D) Azo Dyes	NR	ND	ND
2E) Carcinogenic Dyes	NR	ND	ND
2F) Disperse Dyes	NR	ND	ND
2G) Flame Retardants	NR	ND	ND
2H) Glycols	NR	ND	ND
2I) Halogenated Solvents	NR	ND	ND
2J) Organotin Compounds	NR	ND	ND
2K) Perfluorinated and Polyfluorinated Chemicals	NR	ND	ND
2L) Phthalates	NR	ND	ND
2M) Poly Aromatic Hydrocarbons	NR	ND	ND
2N) Volatile Organic Compounds	NR	ND	ND

Remark :

- Test method, reporting limit and list of chemical are summarized in tables of Appendix A.
- ND = Not detected (Please refer to reporting limit shown in Appendix A.).
- All results are in ppb as unit.
- ppb = part(s) per billion.
- NR=Not Request



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# APPENDIX A

			Repor	t Limit	
				-	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/( ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
2A. Alkylphenol	Octylphenol OP, mixed isomers	Various (incl. 140-66-9, 1806-26-4, 27193-28-8)	5	0.2	NP/OP: ISO 18857-2 (modified
	Nonylphenol NP	Various (incl. 104-40-5, 11066-49-2, 25154-52-3, 84852-15-3)	5	0.2	dichloromethane extraction) or ASTM D7065 (GC/MS or
(AP) and Alkylphenol	Octylphenol Ethoxylates OP1EO	Various	5	0.2	LC/MS(-MS)
Ethoxylates (APEOs): including	Nonylphenol Ethoxylates OPEO (2-16)	Various (incl. 9002-93-1, 9036-19-5, 68987-90-6)	5	0.2	OPEO/NPEO: ISO18857-2 or ASTM
all isomers	Nonylphenol Ethoxylates NP1EO	Various	5	0.2	D7065(LC/MS; GC/MS or LC/MSMS for
	Nonylphenol Ethoxylates NPEO (2-18)	Various (inc. 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0)	5	0.2	n=1,2) APEO 1-18
	Chlorobenzene	108-90-7	0.2	0.1	
	Dichlorobenzene	Various	0.2	0.1	
	Trichlorobenzene	Various	0.2	0.1	
	Tetrachlorobenzene	Various	0.2	0.1	
	1,2-Dichlorobenzene	95-50-1	0.2	0.1	
	1,3-Dichlorobenzene	541-73-1	0.2	0.1	
	1,4-Dichlorobenzene	106-46-7	0.2	0.1	
	1,2,3-Trichlorobenzene	87-61-6	0.2	0.1	
	1,2,4-Trichlorobenzene	120-82-1	0.2	0.1	
	1,3,5-Trichlorobenzene	108-70-3	0.2	0.1	
	1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	0.1	
	1,2,3,5-Tetraclorobenzene	634-90-2	0.2	0.1	
	1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	0.1	
	Pentachlorobenzene	608-93-5	0.2	0.1	
	Hexachlorobenzene	1198-74-1	0.2	0.1	USEPA 8260B,8270D.
2B. Chlorobenzenes	2-Chlorotoluene	95-49-8	0.2	0.1	Dichloromethane
and Chlorotoluenes	3-Chlorotoluene	108-41-8	0.2	0.1	extraction followed by
and chiofotolucites	4-Chlorotoluene	106-43-4	0.2	0.1	GC/MS
	2,3-Dichlorotoluene	32768-54-0	0.2	0.1	GC/MB
	2,4-Dichlorotoluene	95-73-8	0.2	0.1	
	2,5-Dichlorotoluene	19398-61-9	0.2	0.1	
	2,6-Dichlorotoluene	118-69-4	0.2	0.1	
	3,4-Dichlorotoluene	95-75-0	0.2	0.1	
	3,5-Dichlorotoluene	25186-47-4	0.2	0.1	4
	2,3,4-Trichlorotoluene	7359-72-0	0.2	0.1	4
	2,3,6-Trichlorotoluene	2077-46-5	0.2	0.1	4
	2,4,5-Trichlorotoluene	6639-30-1	0.2	0.1	4
	2,4,6-Trichlorotoluene	23749-65-7	0.2	0.1	
	3,4,5-Trichlorotoluene	21472-86-6	0.2	0.1	
	2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	0.1	
	2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	0.1	4
	2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	0.1	4
	Pentachlorotoluene	877-11-2	0.2	0.1	
2C. Chlorophenols	2-Chlorophenol	95-57-8	0.5	0.025	USEPA 8270 D
	3-Chlorophenol	108-43-0	0.5	0.025	Solvent extraction,



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			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/( ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
	4-Chlorophenol	106-48-9	0.5	0.025	derivatisation with
	2,3-Dichlorophenol	576-24-9	0.5	0.025	KOH, acetic anhydride
	2,4-Dichlorophenol	120-83-2	0.5	0.025	followed by GC/MS
	2,5-Dichlorophenol	583-78-8	0.5	0.025	
	2,6-Dichlorophenol	87-65-0	0.5	0.025	
	3,4-Dichlorophenol	95-77-2	0.5	0.025	
	3,5-Dichlorophenol	591-35-5	0.5	0.025	
	2,3,4-Trichlorophenol	15950-66-0	0.5	0.025	
	2,3,5-Trichlorophenol	933-78-8	0.5	0.025	
	2,3,6-Trichlorophenol	933-75-5	0.5	0.025	
	2,4,5-Trichlorophenol	95-95-4	0.5	0.025	
	2,4,6-Trichlorophenol	88-06-2	0.5	0.025	
	3,4,5-Trichlorophenol	609-19-8	0.5	0.025	
	2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	0.025	1
	2,3,4,6-Tetrachlorophenol	58-90-2	0.5	0.025	
	2,3,5,6-Tetrachlorophenol	935-95-5	0.5	0.025	
	Pentachlorophenol (PCP)	87-86-5	0.5	0.025	
	Tetrachlorophenol (TeCP)	Various (incl. 25167-83-3)	0.5	0.025	
	4,4`-Methylene-bis-(2- chloro-aniline)	101-14-4	0.1	0.1	
	4,4'-methylenedianiline	101-77-9	0.1	0.1	
	4,4`-Oxydianiline	101-80-4	0.1	0.1	
	4-Chloroaniline	106-47-8	0.1	0.1	
	3,3 <sup>-</sup> Dimethoxybenzidine	119-90-4	0.1	0.1	
	3,3 <sup>-</sup> Dimethylbenzidine	119-93-7	0.1	0.1	
	6-methoxy-m-toluidine (p- Cresidine)	120-71-8	0.1	0.1	
	2,4,5-Trimethylaniline	137-17-7	0.1	0.1	
	4,4`-Thiodianiline	139-65-1	0.1	0.1	
	4-Aminoazobenzene	60-09-3	0.1	0.1	
2D. Dyes - Azo	4-Methoxy-m- phenylenediamine	615-05-4	0.1	0.1	EN 14362. Reduction step with
(Forming Restricted Amines)	4,4`-Methylene-di-o- toluidine	838-88-0	0.1	0.1	Sodiumdithionite, solvent extraction,
	2,6-Xylidine	87-62-7	0.1	0.1	GC/MS or LC/MS
	o-Anisidine	90-04-0	0.1	0.1	
	2-Naphthylamine	91-59-8	0.1	0.1	
	3,3 <sup>-</sup> Dichlorobenzidine	91-94-1	0.1	0.1	
	4-Aminodiphenyl	92-67-1	0.1	0.1	
	Benzidine	92-87-5	0.1	0.1	
	o-Toluidine	95-53-4	0.1	0.1	
	2,4-Xylidine	95-68-1	0.1	0.1	
	4-Chloro-o-toluidine	95-69-2	0.1	0.1	
	4-Methyl-m- phenylenediamine	95-80-7	0.1	0.1	
	o-Aminoazotoluene	97-56-3	0.1	0.1	
	5-nitro-o-toluidine	99-55-8	0.1	0.1	1
	C.I. Direct Black 38	1937-37-7	500	1	
2E. Dyes-	C.I. Direct Blue 6	2602-46-2	500	1	
Carcionogenic or	C.I. Acid Red 26	3761-53-3	500	1	Liquid Extraction
					LC/MS
Equivalent Concern	C.I. Basic Red 9	569-61-9	500	1	



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Report Limit Wastew Substance (Testing Name of the testing Group CAS No. Sludge method parameter) ater (mg/kg) (ug/L)/( /(ppm) ppb) C.I. Basic Violet 14 632-99-5 500 1 C.I. Disperse Blue 1 2475-45-8 500 1 C.I. Disperse Blue 3 2475-46-9 500 1 C.I. Basic Blue 26 500 (withMichler's Ketone > 2580-56-5 1 0.1%C.I. Basic Green 500 1 569-64-2 4(malachite green chloride) C.I. Basic Green 4 2437-29-8 500 1 (malachite green oxalate) C.I. Basic Green 10309-95-2 500 1 4(malachite green) 82-28-0 500 Disperse Orange 11 1 Disperse Yellow 1 119-15-3 50 1 Disperse Blue 102 12222-97-8 50 1 12223-01-7 Disperse Blue 106 50 1 Disperse Yellow 39 12236-29-2 50 1 Disperse Orange 37/59/76 50 13301-61-6 1 Disperse Brown 1 23355-64-8 50 1 Disperse Orange 1 2581-69-3 50 1 Disperse Yellow 3 2832-40-8 50 1 50 Disperse Red 11 2872-48-2 1 2F. Dyes-disperse Liquid Extraction 50 Disperse Red 1 2872-52-8 1 LC/MS (sensitizing) Disperse Red 17 3179-89-3 50 1 Disperse Blue 7 3179-90-6 50 1 Disperse Blue 26 3860-63-7 50 1 Disperse Yellow 49 Disperse Blue 35 54824-37-2 50 1 12222-75-2 50 1 Disperse Blue 124 61951-51-7 50 1 6373-73-5 Disperse Yellow 9 50 1 Disperse Orange 3 730-40-5 50 1 Disperse Blue 35 56524-77-7 50 1 Tris(2-chloroethyl) 115-96-8 5 1 phosphate (TCEP) Decabromodiphenyl ether 5 1163-19-5 1 (DecaBDE) Tris(2,3-dibromopropyl) 5 126-72-7 1 phosphate (TRIS/TDBPP) Pentabromodiphenyl ether 32534-81-9 5 1 (PentaBDE) Octabromodiphenyl ether ISO 22032, USEPA527 5 1 32536-52-0 (OctaBDE) and USEPA8321B. 2G. Flame Bis(2,3-dibromopropyl) Dichloromethane 5 5412-25-9 Retardants 1 phosphate (BIS/BDBPP) extraction GC/MS or LC/MS(-MS) Tris(aziridinyl)-5 545-55-1 1 phosphineoxide (TEPA) Polybromobiphenyls 5 59536-65-1 1 (PBBs) Tetrabromobisphenol A 79-94-7 5 1 (TBBPA) Hexabromocyclododecane 3194-55-6 5 1 (HBCDD) 3296-90-0 2,2-Bis(bromomethyl)-1,3-5



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			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/( ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
	propanediol (BBMP)				
	Tris(1,3-dichloro- isopropyl) phosphate (TDCP)	13674-87-8	5	1	
	Short chain chlorinated paraffins (SCCPs)	85535-84-8	5	1	
	Bis(2-methoxyethyl)-ether	111-96-6	50	5	
	2-ethoxyethanol	110-80-5	50	5	
	2-ethoxyethyl acetate	111-15-9	50	5	
2H. Glycols	Ethylene glycol dimethyl ether	110-71-4	50	5	US EPA 8270
	2-methoxyethanol	109-86-4	50	5	Liquid Extraction LC/MS
	2-methoxyethylacetate	110-49-6	50	5	LC/MIS
	2-methoxypropylacetate	70657-70-4	50	5	
	Triethylene glycol dimethyl ether	112-49-2	50	5	
	1,2-Dichloroethane	107-06-2	1	1	
2I. Halogenated	Methylene Chloride	75-09-2	1	1	USEPA 8260B
Solvents	Trichloroethylene	79-01-6	1	1	Headspace GC/MS or
	Tetrachloroethylene	127-18-4	1	1	Purgeand-Trap-GC/MS
	Monobutyltin (MBT)	Various (incl. 78763-54-9, 1118-46-3)	0.01	0.1	
	Dibutyltin (DBT)	Various (incl. 1002-53-5, 683-18-1)	0.01	0.1	
	Dioctyltin (DOT)	Various (incl. 94410-05-6, 3542-36-7	0.01	0.1	
	Tributyltin (TBT)	Various (incl. 36643-28-4, 56573-85-4, 1461-22-9)	0.01	0.1	
	Triphenyltin (TPhT)	Various (incl. 892-20-6, 639-58-7, 668-34-8)	0.01	0.1	
	Tricyclohexyltin (TCyT)	Various (incl. 6056-50-4, 3091-32-5)	0.01	0.1	
	Trioctyltin (TOT)	Various (incl. 869-59-0, 2587-76-0)	0.01	0.1	
2J. Organotin	Tripropyltin (TPT)	Various (incl. 688-73-3, 2279-76-7)	0.01	0.1	ISO 17353
Compounds	Monooctyltin (MOT)	Various (incl. 15231-44-4, 3091-25-6)	0.01	0.1	Derivatisation with NaB(C2H5) GC/MS
	Diphenyltin (DPhT)	Various (incl. 1011-95-6, 6381-06-2, 1135-99-5)	0.01	0.1	
	Tetrabutyltin (TeBT)	1461-25-2	0.01	0.1	]
	Mono-, di- and tri- methyltin derivatives	Various (incl. 993-16-8, 753-73-1, 1066-45-1)	0.01	0.1	
	Mono-, di- and tri-butyltin derivatives	Various (incl. 78763-54-9, 1118-46-3, 1002-53-5, 683-18-1, 36643-28-4, 56573-85-4, 1461-22-9)	0.01	0.1	
	Mono-, di- and tri-phenyltin derivatives	Various (1124-19-2, 1011-95-6, 6381-06-2, 1135-99-5, 892-20-6, 639-58-7, 668-34-8)	0.01	0.1	
	Mono-, di- and tri-octyltin derivatives	Various (incl. 15231-44-4, 3091-25-6, 94410-05-6,	0.01	0.1	



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			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/( ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
		3542-36-7, 869-59-0, 2587-76-0)			
	Perfluorooctanesulfonic acid (PFOS)	355-46-4 ,432-50-7	0.01	0.05	DIN 38407-42
	Perfluoro-n-octanoic acid (PFOA)	335-67-1/ 335-95-5	0.01	0.05	(modified) Ionic PFC:
2K. Perfluorinated and Polyfluorinated	Perfluorobutanesulfonic acid (PFBS)	29420-49-3, 29420-43-3	0.01	0.05	Concentration or direct injection, LC/MS(-MS);
Chemicals (PFCs)	Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	0.01	0.05	Non-ionic PFC (FTOH): derivatisation
	8:2 FTOH	678-39-7	1	0.5	with acetic anhydride, followed by GC/MS
	6:2 FTOH	647-42-7	1	0.5	
	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	10	1	
	Dimethoxyethyl phthalate (DMEP)	117-82-8	10	1	
	Di-n-octyl phthalate (DNOP)	117-84-0	10	1	
	Di-iso-decyl phthalate (DIDP)	26761-40-0	10	1	
	Di-iso-nonyl phthalate (DINP)	28553-12-0	10	1	
	Di-n-hexyl phthalate (DnHP)	84-75-3	10	1	
	Dibutyl phthalate (DBP)	84-74-2	10	1	
	Butyl benzyl phthalate (BBP)	85-68-7	10	1	
2L. Phthalates (including all other esthers of phthalic acid)	Dinonyl phthalate (DNP)	84-76-4	10	1	US EPA 8270D, ISO 18856
	Diethyl phthalate (DEP)	84-66-2	10	1	Dichloromethane
	Di-n-propyl phthalate (DPRP)	131-16-8	10	1	extraction GC/MS
	Di-iso-butyl phthalate (DIBP)	84-69-5	10	1	
	Di-cyclohexyl phthalate (DCHP)	84-61-7	10	1	
	Di-iso-octyl phthalate (DIOP)	27554-26-3	10	1	
	1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP)	68515-42-4	10	1	
	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	10	1	
	Benzo[a]pyrene (BaP)	50-32-8	1	1	
	Anthracene	120-12-7	1	1	
2M. Poly Aromatic	Pyrene	129-00-0	1	1	DIN 38407-39
Hydrocarbons	Benzo[ghi]perylene	191-24-2	1	1	Solvent extraction
(PaHs)	Benzo[e]pyrene Indeno[1,2,3-cd]pyrene	192-97-2 193-39-5	1	1	GC/MS
	Benzo[j]fluoranthene	205-82-3	1	1	4
	Benzo[b]fluoranthene	205-99-2	1	1	1



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			Repor	rt Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/( ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
	Fluoranthene	206-44-0	1	1	
	Benzo[k]fluoranthene	207-08-9	1	1	
	Acenaphthylene	208-96-8	1	1	
	Chrysene	218-01-9	1	1	
	Dibenz[a,h]anthracene	53-70-3	1	1	
	Benzo[a]anthracene	56-55-3	1	1	
	Acenaphthene	83-32-9	1	1	
	Phenanthrene	85-01-8	1	1	
	Fluorene	86-73-7	1	1	
	Naphthalene	91-20-3	1	1	
	Benzene	71-43-2	1	0.1	
2N. Volatile	Xylene	1330-20-7	1	0.1	ISO 11423-1
Organic Compound	o-cresol	95-48-7	1	0.1	Headspace- or Purge-
(VOCs)	p-cresol	106-44-5	1	0.1	and-Trap-GC/MS
( • • • • • )	m-cresol	108-39-4	1	0.1	
	Temperature	_	N/A	N/A	
	TSS		N/A	N/A	-
	COD		N/A	N/A	-
	Total-N		N/A	N/A	-
	pH		N/A N/A	N/A N/A	
	Color [m <sup>-1</sup> ] (436nm; 526;				Apply the standard methods that best apply
	620nm)	-	N/A	N/A	to the region (ISO, EU,
	BOD5	—	N/A	N/A	US, China), please refer
1A. Conventional	Ammonium-N	—	N/A	N/A	to ZDHC Wastewater
	Total-P	—	N/A	N/A	Guidelines for more
Parameters	AoX	—	N/A	N/A	details on the testing
	Oil and Grease		N/A	N/A	method and the levels
	Phenol	—	N/A	N/A	(Foundational,
	Coliform(bacteria/100ml)	—	N/A	N/A	Progressive, and
	Persistent Foam	-	Not visible	Not visible	Aspirational).
	ANIONS	1	1		1
	Sulfide	-	N/A	N/A	1
	Sulfite	—	N/A	N/A	1
	Antimony(Sb)	7440-36-0	1	N/A	Various
	Chromium( Cr ), total	7440-47-3	1	N/A	Acid Digestion with
	Cobalt( Co )	7440-48-4	1	N/A	ICP analysis
	Copper(Cu)	7440-50-8	1	N/A	101 unury515
	Nickel (Ni)	7440-02-0	1	N/A	please refer to ZDHC
	Silver (Ag)	7440-22-4	1	N/A	Wastewater Guidelines
		7440-66-6	1	N/A	for more details on the
	Zinc(Zn) 74 Arsonic (Ac) 74	7440-38-2	1	1	testing method and the
1B. Conventional	Cadmium(Cd)	7440-43-9	0.1	1	levels (Foundational,
Parameters - METALS	Lead( Pb )	7439-92-1	1	1	Progressive, and
	Mercury (Hg)	7439-97-6	0.05	0.1	Aspirational).
	Chromium VI( CrVI )	18540-29-9	1	1	Various Solvent extraction and derivatisation followed by UV analysis
	Cyanide( CN-)	Various (incl. 57-12-5)	20	0.5	With reference to APHA 4500 CN— B,C&E and followed

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			Report	Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/( ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
					by UV analysis

Note / Key :

ppb = part(s) per billion U. S. EPA = United States Environmental Protection Agency APHA = American Public Health Association



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# **APPENDIX B**

Field Data	A RECORD C	IN ZERO DI GUID COMPOSITI	ELINE	소 친구가 있는 것을	OR 2016 2	DHC	lesue Dat Version N	the state of the state of the state of the	(7,29)0-2 <u>(1</u> ,2),1
neral Data +		9317	- 107-	1291				-	
boratory Sample Number				11	毛精英	\$3. 97.	有限公	5.	
ent Name dd Contact Person	莨久	劣狂		Phone No:	135 806.	9628	1. 0	1-1-1-06	0
	+ to 1 1	シネシャレ	日忘新	た抜ボ車、	しみだら	1公邸	工业良/	EN 10	13.
oject (Facility Name and Address)	1 7 2 3 3	JK WZ	7	1 water	*.			1	
impling Location / Description		the second second second	Inomi	g_ageste					
ample Identification	Zeno discharge wi	o and party press							
enple Type 9700	Composite sample	- 1	m. Te						
anne ar avangener av	Direct discharge t	e equitorment (S	secily destinat	ion: River, Sea, S	ilieani)	OR Indirect	discharge to air	wage treatment pla	ant
ischarge mode	Clack, partial de	í	14/18	12017					
ale and time collected	Dywing/Printing/	Washing/ Finishin	o/ Other (oleas	se specify)					
аскогу Туре	"Note: It would be	selected more th	an crist						
ield Data for wastewater	10.00.0						100 C		
actory with offurni livesiment plant	1	Yes	1				No		
actory were deposited and the second pro-	1.71								
		ncoming water							
Sample matrix		Winalewater befor	e treaimeal						
	1 1	Wastewater effec	Incolmant - wa	aler al discharge	paint				
	1	2	3	4	5	6	-		
eld Parametelers									
Recording time	KAUS					1			
Temp ("C) :	24.0								
	Francourses								
Color :	- Marchisene								
Sample container number								1	
Volume collected, mL									
Total volume collected	101.	Remark: Total ve	siume callecter	i must be greate	than total of sa	ample size re	quired		
Analysis Required and Preservation		1							
Test#	Test required	Total of sample size		Type of contain	er		Presonal	ion method	
1, Philadate	$\checkmark$	500 mL	•	·					
2. Brominated and chlorinated Flame retard ant		500 ml.							
3. Banned Azodyes	V	500 mil.							
4. Organetin Compounds	V	500 mL		, Glass,wash will	h přísle polst				
7. SCCPa		500 mL	- Ambe	c Glass, wash will rinse thoroughly distillated water dry before us	with and			adding acid mple at 4°C	
6, Navy Blos		10 mL		ary amore of					
7. Free primary aromatic amines		500 mL							
8. Dyes			-						
9. Fiame relationt		500 mL	-						
10. Glycol 11. Chlorobenzenes & Polynuclear	····	1000 mL							
arore sto hydrocarbons (PAHs)		1000.004	1						1



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		1800 a 190	Tura		
1 APEDWARS		500 mL		Fill to full boths without an activity to -pi-12 with FICI	
4. Chiorinated Solvents	0	500 ml.		section of the and store temple \$6.970 choice 25 ch	
5. Heavy Metals except CrVI	V	500 mL	PE, wash with nitric acid, pre-add 6.5mL of 2M 54NO3	Acidity to \$H 2 with HMOs and store at 4°G	
IS CIVI		500 mi	Amber Glass, wash with pesticide grade gostone	semple at 4 V	
17, PFCs	V	\$00 ml.	PE, wash with pesticide grade Acetone;	Without adding add Store sample at 4*C	
18. Cyanide	V	500 mi.	Amber Glass, wish with pesificide grade scrience	Adjust pH 12 with 50% NaCH and store at 4°C	ļ
Field Data for Studge				/	
Field Parameters	pHt:		Temp: SC Color:	/	
Control No. of Seld equipment				/	
Analysis Required and Preservation M	ethod			/	1
				No	-
Factory with effluent treatment plant			us	/	
Sample matrix		Studge in clarify	er (sedimeritation lank)		1
					-
Sampler container number					-
Recording time					1
Te608-	Test required	Total of sample size	Type of container	Preservation method	
1.Philipiaia		10 g			ļ
2. Brominated and chlorinated Flame retardant		10 g			
3. Danned Azodyes		10 g			
4. Organolin Compounds		10 g			
5. Chlorobenzenes		10 g			
6. Chlorophenols				* - Fill to full bolie	
7. SCCP+		10 g	Amber Glose, wash with nihic sold	without air and store at 4oC	
8. APEOstAPs		· 10 g	X .		
9. Dyes		10.9	-	•	
10, Flame setardaril 🤸		10.9			
11. Navy Blue		. 10.9	_		
12. Free primary aromatic amines		10 9			
13. Glycola	X	10 g		Fill to full bottle	-
14. Heavy Metals except C/VI		16 g	PE, wash with nitric acid	without air and store at 40C	
15.0/1		10 g	Amber Glass, wash with posicide grad	Fill to full bottle without adding acid and store al-	40C
16. Chiorinated Solvarits		90 g		Fit to full bottle	
17. PFCs		10 g		e without air and store at 40C	_
18. Cyanide	1	509	Amber Glass, wash with pesticide grad acetore	Je Adjust pH 12 with 50% NoCH and store at 40	~



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	1 1/1:00 7.0 26.0 Transported	le lo enviconnint ( OL Washing/Finishi e salocted more t Ye Incoming weter Wastewater bato	Specity de Unité Specity de Unité P / / 8 / - Ingr Other (pleas than one m are treatiment	on: Rhver, Sea, S	ilream}	CR Indeed disch	PBC公園 )を小业 総会 narge to sewage tres NO 7		
Ewpl Parameters Recording time pH : Temp (*C) : Color : Sample container number Volume collected, mil. Total volume optiected Analysis Regulared and Preservation	1 1/1:00 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7	Ye Incoming water Wassewater belo Wassewater alle 2 1,2,100 7,0 7,0	n size treatment e treatment 3 13:00 7.3 2,0 2,0 2,0 2,0 0	16:00	\$ 15:00 7.0	15:00 7.0	7		
Factory with eliturent treatment plant Sample matrix Field Parameters Recording time gH : Temp (*C) : Color : Sample container number Volume collected, mil. Total volume optiected Analysis Required and Preservation	1 1/1:00 7.0 26.0 Transported	Wastewater alle Wastewater alle 2 12:00 7.0 26.0	sie trootment + trootment - 13:00 7.0 27.0	16:00	\$ 15:00 7.0	15:00 7.0	7		
Sample matrix Field Parameters Recording time pH : Temp (*C) : Color : Sample container number Volume collected Analysis Regulared and Preservation	1 1/1:00 7.0 26.0 Transported	Wastewater alle Wastewater alle 2 12:00 7.0 26.0	sie trootment + trootment - 13:00 7.0 27.0	16:00	\$ 15:00 7.0	7.0			
Recording time pH : Temp (°C) : Colar : Sample container number Volume collected, mi. Total volume collected Analysis Required and Preservation	11:50 7.0 26.0 Transported 2000	7.0	13:00 7.0 27.0	7.0 27.0	15:00	7.0			-
Recording time pH : Temp (°C) : Color : Sample container number Volume collected, mi. Total volume collected Analysis Required and Preservation	7.0 26.0 Tosayored 2000	7.0	7.0	7.0 27.0	7.0	7.0			1
pH : Temp (°C) : Color : Sample container number Volume collected, mi. Total volume collected Analysis Required and Preservation	26.0 Transporrent 2000	26.0	27.0	27.0		12			-
Temp (°C) : Color : Sample container number Volume collected, mi, Total volume collected Analysis Required and Preservation	Therefored			0	27.0	111			-
Color: Sample container number Volume collected, mi. Total volume collected Analysis Required and Preservation	Therefored		Transporent	Turner		70.0			_
Sample container number Volume collected, ml. Total volume collected Analysis Required and Preservation	2000	Tamprote	- Decompositions	1 / POLAX 00040400	Theasenine	Transportent	<u>.</u>		_
Volume collected, ml. Total volume collected Analysis Required and Preservation				The second	1.00				
Total volume opticitied Analysis Required and Presenvolor		5.6203	2000	2000	2000	2080			
Analysis Required and Preservation	1 1 2 1 1	2000							
	12L	Remark: Total v	volumn collected	must be preater	than total of som	uple size required			
Texts	Method		·			a na serie de la companya de la comp			7
	Test required	Total of sample size		Type of contains	ar		Pesservation melbe	od ,	-
1, Phihatate	V	500 mL							1
2. Brominated and chlorinated Flame retardant		-500 ml.	-				14		1
3. Banned Azodyes		500 mL	-		۲				
4. Organolin Compounds 7. SCCPa	1	500 mL	Amber	Glass,wash with	nitris esid,	1	Without adding as	cid	
6. Navy Blue		10 mL	1	dinse shorcughly distillated water o dry before us	and		Store sample at 4	nc	
7. Free primary aromatic emines		500 mL			-			1 2.	
8. Dyes	$\checkmark$	500 ml.					AL AND A	3%	
0, Flame retardant	$\downarrow \checkmark$	500 ml.	-					-	
10. Glycol		500 mL							
11. Chiorabenzenes & Polynuclear anomalic hydrocarbons (PAHs)	$\checkmark$	1000 mL					pH 2 with HCl and st		
12. Chlorophendis		-		r Glass, week wit		E			10



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APEOsIAPs	1	600 mL	HCI			
Chlorinated Solvents		500 mi-			Fill to full better without all recently to -pH 2 with HO- berd store sample of A'C	
		500 mL	PE, wash with eitric acid, pre-ad HNO3	id 6.5ml, of 2M	Actidity to pH 2 with HNO3 and store at 4°C	고망와
5. Heavy Metals except CrVI		-	Amber Glass, watch with pes	Scide grade	Fill to foll bottle without air non-edding axid and store	
S. CAVI	- V-	_500.mL	acelone		Without adding acid	
7, PFCs		600 ml.	PE, wash with posts grade Acetone;		Store sample at 4°C .	
8. Cyaride	$\checkmark$	500 ml.	Amber Glass, wash with per- acetone	ricide grade	Adjust pH 12 with 50% NaOH and store at 4°C	J
ield Data for Sludge			Temo: °C	Color :		
Teld Parameters	pH1;		Temp: "C	( <u>, 9</u> 01 .		
control No. of field equipment	thed.					-
Acualysis Required and Preservation Me	and a				No	
factory with effluent treatment plant	- 71		es V			1
Sample matrix	I	Studije in clarifi	er (sedimentation tank)			
Sampler container number						
Recording time			1			1
Tesis	Tast required	Total of somple size	Type of contain	ei	Preservation method	
1. Phthelate	$\checkmark$	10 g				
2. Brominated and chlorinated Flame rotardant	$\checkmark$	10 g	· · ·			
3. Banned Azodyns	V	10.0	_			
4. Organolin Compounds		10 g	-		an a	]
5. Chlorobenzenics		10 g	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	· · · .		
6. Chiorophenols	V.	. 10 g	-	مر و رامر ا ر	Fill to full bottle	
7. SCCPs		10 g	Amber Glass, wash wi	ih nitric acki	without aix and strok at 40C	
8. APEOWAPs	. <u> </u>	10 g	-	5		
9. Dyes	V .	10 g	-			
10, Flame retardists	V	10 g	4			
11. Navy Blue		10.0				
12. Free primary aromatic amines		10 g	-			1
13. Glycols		10 g			Fill to full bolis	_
14. Hosvy Metals except CrVI	V	10 g	PE, wash with n	line and d	without air and store at 4oC	-
15. CrVI	V	10 g	Amber Glass, wosh with acetone	pesticide grade	Fit to full bottle without adding acid and store at 4	°C
16, Chlorinated Solvents	1 V	10 g	PE, wash with pesticide	- nandra acateure	Fill to full bottle without air and stoze at 46C	-
17, PFCs		10 g	Amber Glass, wash with	pesídide grade		0
18. Cyagide		509	accione			