

TEST REPORT

Technical Report 2209820 April 11, 2022

Date Received March 4, 2022 Page 1 of 19

Artcolor srl Tintoria industriale Factory Company Name:

Factory Address: Via Bologna, 288

59025 Cantagallo (PO)

Project No.: Client Reference No.:

Sample Type: Wastewater, raw - 6h Composite Grab Samples*

Incoming – Grab Samples

Sample Pick Up Date: March 4, 2022 Discharge Type: Indirect Discharge Wastewater Discharge to: Public drainage

Off-site ETP name: Gida SpA, IDL Cantagallo Off-site ETP address: Via Baciacavallo, 36 - 59100 Prato AIA n° 7454, document number 21026 date 17/05/2008

Local Regulation: / Ordinance / requirements related to

wastewater discharged are

followed:

No

On-Site Effluent Treatment Plant (ETP):

Test Period: From March 5, 2022 to April 4, 2022

Testing Option: Option 2 - Incoming Water, Raw / Untreated Wastewater

Sample Description: I001) Transparent - Incoming water

1002) Reddish liquid - Raw Wastewater



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REMARK

If there are questions or concerns on this report,	please contact the following persons:
General enquiry and invoicing Technical enquiry-Chemical	
This report shown the test result of the auxiliary audit. The results of this report shall not be used	y chemical and/or raw material samples, which collected during particular factor d for any regulatory compliance purposes.
* The sampling is agreed with client.	
PREPARED BY: Caterina Cellai	Regional Manager - Chemical Management and Sustainability Solutions, Europe



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1A) Conventional Parameters	I001	1002
Temperature		
TSS		
COD		
Total-N		
pH Value		
Color [m ⁻¹] (436nm; 525nm; 620nm)		
BOD ₅		
Ammonium-N		
Total-P	NR	NR
AOX		
Oil and Grease		
Phenol		
Coliform		
Persistent Foam		
ANIONS - Cyanide		
ANIONS - Sulfide		
ANIONS - Sulfite		
1B) Conventional Parameters – METALS		

Note / Key:

- □ Meet Foundational Limit / Meet discharge license criteria
- - Exceeding Foundational Limit / Exceeding discharge license criteria

 $NR-Not\ Requested\ /\ Not\ required$

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

Note / Key:

- ● Detected
- o Not Detected
- NR Not Requested
- N/A Not Applicable



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Objective

The environment samples were tested for below 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, two environment samples were sampled per factory, including 1) Incoming water; 2) Raw wastewater. 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 on-site photos are attached in appendix A and field data records are attached in Appendix C.



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Test Result

1B) Conventional Parameters – METALS

Heavy Metals	I001 (mg/L)	I002 (mg/L)
Antimony(Sb) Discharge License Criteria: Not applicable	ND	ND
Chromium(Cr), total Discharge License Criteria: ≤4mg/L	ND	0.033 Comply with discharge license
Cobalt(Co) Discharge License Criteria: Not applicable	ND	ND
Copper(Cu) Discharge License Criteria: ≤ 1,0 mg/L	ND	0.0105 Comply with discharge license
Nickel (Ni) Discharge License Criteria: ≤ 4 mg/L	ND	ND Comply with discharge license
Silver (Ag) Discharge License Criteria: Not applicable	ND	ND
Zinc(Zn) Discharge License Criteria: ≤ 2,0 mg/L	0.004	0.373 Comply with discharge license
Arsenic (As) Discharge License Criteria: ≤ 0.5 mg/L	ND	ND Comply with discharge license
Cadmium(Cd) Discharge License Criteria: ≤ 0.02 mg/L	ND	ND Comply with discharge license
Chromium VI(CrVI) Discharge License Criteria: ≤ 0.20 mg/L	ND	ND Comply with discharge license
Lead(Pb) Discharge License Criteria: ≤0.3 mg/L	ND	ND Comply with discharge license
Mercury (Hg) Discharge License Criteria: ≤0.005 mg/L	ND	ND Comply with discharge license



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Others Priority Chemical Groups

	I001 (ug/L)	I002 (ug/L)
2A) APs and APEOs	NR	ND
2B) Chlorobenzenes and Chlorotoluenes	NR	ND
2C) Chlorophenols	NR	ND
2D) Azo Dyes	NR	ND
2E) Carcinogenic Dyes	NR	ND
2F) Disperse Dyes	NR	ND
2G) Flame Retardants	NR	ND
2H) Glycols	NR	ND
2I) Halogenated Solvents	NR	ND
2J) Organotin Compounds	NR	ND
2K) Perfluorinated and Polyfluorinated Chemicals	NR	ND
2L) Phthalates	NR	ND
2M) Poly Aromatic Hydrocarbons	NR	ND
2N) Volatile Organic Compounds	NR	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.
- ppm = part(s) per million; ppb = part(s) per billion.



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APPENDIX A - Photo of the Sample/ Sampling Location

1001) Sampling Point N 45°0'37.08"



1001) Sampling Point Surrounding Environment N 45°0'37.08"



I001) All sampled bottles with label



I001) pH value



I001) Sample for Phthalate Testing



I001) Packaging





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I002) Sampling Point N 45°0'37.08" E 11°8'38.328"



I002) Sampling Point Surrounding Environment
N 45°0'37.08"
E 11°8'38.328"



I002) All sampled bottles with label



I002) pH value



I002) Sample for Phthalate Testing



I002) Packaging





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APPENDIX B

Nonlyphenol NP, mixed somers Various (incl. 104-05.) Name of the testing (mg/Ly) (mg/kg)				Repor	t Limit		
Nonlyphenol Ny, mixed somers 1066-49-2, 25154-52-3, 5	Group	`		ater (ug/L)/((mg/kg)	method	
2A. Alkylphenol (AP) and somers 1806-26-4, 27193-28-8) 5 0.2 D7065 (GC/MS or LC/MS (APEOs): including all isomers 1806-26-4, 27193-28-8) 5 0.2 D7065 (GC/MS or LC/MS (APEOs): including all isomers 1806-26-4, 27193-28-8) 5 0.2 OPEO/NPEO: S01857-2 or ASTM D7065 (LC/MS; GCMS or LC/MS, GCMS or LC/MS			11066-49-2, 25154-52-3,	5	0.2	(modified dichloromethane	
Ethoxylates (APEOs): including all isomers	(AP) and			5	0.2	D7065 (GC/MS or	
Nonylphenol ethoxylates (NPEO)	Ethoxylates (APEOs): including			5	0.2	ISO18857-2 or ASTM D7065(LC/MS; GC/MS	
1,2-Dichlorobenzene		(NPEO)	26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0)		0.2	n=1,2)	
1,3-Dichlorobenzene							
1,4-Dichlorobenzene 106-46-7 0.2 0.1 1,2,3-Trichlorobenzene 120-82-1 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 634-90-2 0.2 0.1 1,2,3,5-Tetrachlorobenzene 634-90-2 0.2 0.1 1,2,4,5-Tetrachlorobenzene 634-90-2 0.2 0.1 1,2,4,5-Tetrachlorobenzene 608-93-5 0.2 0.1 Pentachlorobenzene 118-74-1 0.2 0.1 2-Chlorotoluene 095-49-8 0.2 0.1 3-Chlorotoluene 108-41-8 0.2 0.1 3-Chlorotoluene 106-43-4 0.2 0.1 2,3-Dichlorotoluene 106-43-4 0.2 0.1 2,3-Dichlorotoluene 95-73-8 0.2 0.1 2,4-Dichlorotoluene 19398-61-9 0.2 0.1 2,5-Dichlorotoluene 25186-47-4 0.2 0.1 2,3,4-Trichlorotoluene 25186-47-4 0.2 0.1 2,3,4-Trichlorotoluene 25186-47-4 0.2 0.1 2,3,5-Dichlorotoluene 23749-65-7 0.2 0.1 2,4,6-Trichlorotoluene 23749-65-7 0.2 0.1 2,3,5-Trichlorotoluene 23749-65-7 0.2 0.1 2,3,5-Trichlorotoluene 23749-65-7 0.2 0.1 2,3,5-Trichlorotoluene 23749-65-7 0.2 0.1 2,3,5-Trichlorotoluene 2747-86-6 0.2 0.1 2,3,4-Trichlorotoluene 2747-86-6 0.2 0.1 2,3,5-Trichlorotoluene 2747-86-6							
1,2,3-Trichlorobenzene 120-82-1 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-Tetrachlorobenzene 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 Pentachlorobenzene 118-74-1 0.2 0.1 2-Chlorotoluene 108-41-8 0.2 0.1 3-Chlorotoluene 108-41-8 0.2 0.1 2-A-Dichlorotoluene 106-43-4 0.2 0.1 2,3-Dichlorotoluene 195-73-8 0.2 0.1 2,4-Dichlorotoluene 19398-61-9 0.2 0.1 2,4-Dichlorotoluene 118-69-4 0.2 0.1 2,3,4-Trichlorotoluene 25186-47-4 0.2 0.1 2,3,4-Trichlorotoluene 25186-47-4 0.2 0.1 2,3,5-Tetrachlorotoluene 23749-65-7 0.2 0.1 2,4,5-Trichlorotoluene 23749-65-7 0.2 0.1 2,4,5-Trichlorotoluene 23749-65-7 0.2 0.1 2,3,5-Tetrachlorotoluene 23749-65-7 0.2 0.1 2,3,5-Tetrachlo							
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1,2,4,5-Tetrachlorobenzene 95-94-3 0.2 0.1							
Pentachlorobenzene						_	
Hexachlorobenzene						1	
2-Chlorotoluene 95-49-8 0.2 0.1						_	
3-Chlorotoluene 108-41-8 0.2 0.1 USEPA 8260B,8270D.						-	
2B. Chlorobenzenes and Chlorotoluenes 4-Chlorotoluene						110ED + 00 (0D 0050D	
and Chlorotoluenes 2,3-Dichlorotoluene 32768-54-0 0.2 0.1	AD C11 1						
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 25186-47-4 0.2 0.1 2,3,4-Trichlorotoluene 7359-72-0 0.2 0.1 2,3,6-Trichlorotoluene 2077-46-5 0.2 0.1 2,4,5-Trichlorotoluene 23749-65-7 0.2 0.1 2,4,5-Trichlorotoluene 23749-65-7 0.2 0.1 2,3,4,5-Tetrachlorotoluene 21472-86-6 0.2 0.1 2,3,4,5-Tetrachlorotoluene 29733-70-8 0.2 0.1 2,3,4,5-Tetrachlorotoluene 29733-70-8 0.2 0.1 2,3,4,6-Tetrachlorotoluene 29733-70-8 0.2 0.1 2,3,4,6-Tetrachlorotoluene 875-40-1 0.2 0.1 2,3,4,6-Tetrachlorotoluene 29733-70-8 0.2 0.1 2,3,4,6-Tetrachlorotoluene 29733-70-8 0.2 0.1 2,3,4,6-Tetrachlorotoluene 2,3,4,6-Tetrachl	}						
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3,4-Dichlorotoluene 95-75-0 0.2 0.1						-	
3,5-Dichlorotoluene 25186-47-4 0.2 0.1						-	
2,3,4-Trichlorotoluene 7359-72-0 0.2 0.1 2,3,6-Trichlorotoluene 2077-46-5 0.2 0.1 2,4,5-Trichlorotoluene 6639-30-1 0.2 0.1 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 2,3,4,5-Tetrachlorotoluene 29733-70-8 0.2 0.1 2,3,4,6-Tetrachlorotoluene 875-40-1 0.2 0.1		<u></u>				-	
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2,4,6-Trichlorotoluene 23749-65-7 0.2 0.1 3,4,5-Trichlorotoluene 21472-86-6 0.2 0.1						-	
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2,3,4,5-Tetrachlorotoluene 76057-12-0 0.2 0.1						1	
2,3,5,6-Tetrachlorotoluene 29733-70-8 0.2 0.1						1	
2,3,4,6-Tetrachlorotoluene 875-40-1 0.2 0.1 Pentachlorotoluene 877-11-2 0.2 0.1						1	
Pentachlorotoluene 877-11-2 0.2 0.1						1	
2-Chlorophenol 95-57-8 0.5 0.025						1	
3-Chlorophenol 108-43-0 0.5 0.025 USEPA 8270 D							
4-Chlorophenol 106-48-9 0.5 0.025 Solvent extraction, derivatisation with 2,3-Dichlorophenol 120-83-2 0.5 0.025 derivatisation with 2,4-Dichlorophenol 120-83-2 0.5 0.025 followed by GC/MS						USEPA 8270 D	
2C. Chlorophenols 2,3-Dichlorophenol 576-24-9 0.5 0.025 derivatisation with 2,4-Dichlorophenol 120-83-2 0.5 0.025 KOH, acetic anhydride followed by GC/MS							
2,4-Dichlorophenol 120-83-2 0.5 0.025 KOH, acetic anhydride 2,5-Dichlorophenol 583-78-8 0.5 0.025 followed by GC/MS	2C. Chlorophenols		576-24-9	0.5	0.025		
2,5-Dichlorophenol 583-78-8 0.5 0.025 followed by GC/MS			120-83-2	0.5	0.025		
2,6-Dichlorophenol 87-65-0 0.5 0.025				0.5	0.025	followed by GC/MS	
		2,6-Dichlorophenol	87-65-0	0.5	0.025		



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			Report Limit			
	Substance (Testing		Wastew	Sludge	Name of the testing	
Group	parameter)	CAS No.	ater	(mg/kg)	method	
	parameter)		(ug/L)/(ppb)	/(ppm)	memod	
	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		
	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		
	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'-Dimethoxybenzidine	119-90-4	0.1	0.1		
	3,3'-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		
	4-Methoxy-m-	615-05-4	0.1		EN 14362.	
2D. Dyes - Azo	phenylenediamine			0.1	Reduction step with	
(Forming Restricted	4,4`-Methylene-di-o-	838-88-0	0.1	0.1	Sodiumdithionite,	
Amines)	toluidine	97.62.7	0.1	0.1	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`-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 2,4-Xylidine	95-53-4 95-68-1	0.1	0.1		
	4-Chloro-o-toluidine 4-Methyl-m-	95-69-2	0.1	0.1		
	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		
	C.I. Direct Black 38	1937-37-7	500	1		
	C.I. Direct Blue 6	2602-46-2	500	1		
	C.I. Acid Red 26	3761-53-3	500	1		
	C.I. Acid Red 20 C.I. Basic Red 9	569-61-9	500	1		
	C.I. Direct Red 28	573-58-0	500	1		
2E. Dyes-	C.I. Basic Violet 14	632-99-5	500	1		
Carcionogenic or	C.I. Disperse Blue 1	2475-45-8	500	1	Liquid Extraction	
Equivalent Concern	C.I. Disperse Blue 3	2475-46-9	500	1	LC/MS	
1	C.I. Basic Blue 26 (with					
	Michler's Ketone > 0.1%)	2580-56-5	500	1		
	C.I. Basic Green 4	560.64.0	500	1		
	(malachite green chloride)	569-64-2	500	1		
	C.I. Basic Green 4	2437-29-8	500	1		
		1	1	1	ı	



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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	
	(malachite green oxalate)		FP-/			
	C.I. Basic Green 4(malachite green)	10309-95-2	500	1		
	Disperse Orange 11	82-28-0	500	1		
	Disperse Yellow 1	119-15-3	50	1		
	Disperse Blue 102	12222-97-8	50	1		
	Disperse Blue 106	12223-01-7	50	1	-	
	Disperse Yellow 39	12236-29-2	50	1	<u> </u> 	
	Disperse Orange 37/59/76 Disperse Brown 1	13301-61-6 23355-64-8	50	1	-	
	Disperse Orange 1	2581-69-3	50	1	_	
	Disperse Yellow 3	2832-40-8	50	1	_	
	Disperse Red 11	2872-48-2	50	1	-	
2F. Dyes-disperse	Disperse Red 1	2872-52-8	50	1	Liquid Extraction	
(sensitizing)	Disperse Red 17	3179-89-3	50	1	LC/MS	
	Disperse Blue 7	3179-90-6	50	1]	
	Disperse Blue 26	3860-63-7	50	1		
	Disperse Yellow 49	54824-37-2	50	1		
	Disperse Blue 35	12222-75-2	50	1	_	
	Disperse Blue 124	61951-51-7	50	1	=	
	Disperse Yellow 9	6373-73-5	50	1		
	Disperse Orange 3	730-40-5	50	1	<u> </u>	
	Disperse Blue 35 Tris(2-chloroethyl)	56524-77-7	50	1		
	phosphate (TCEP)	115-96-8	5	1		
	Decabromodiphenyl ether (DecaBDE)	1163-19-5	5	1		
	Tris(2,3-dibromopropyl) phosphate (TRIS/TDBPP)	126-72-7	5	1		
	Pentabromodiphenyl ether (PentaBDE)	32534-81-9	5	1		
	Octabromodiphenyl ether (OctaBDE)	32536-52-0	5	1		
	Bis(2,3-dibromopropyl) phosphate (BIS/BDBPP)	5412-25-9	5	1	ISO 22032, USEPA527	
2G. Flame	Tris(aziridinyl)- phosphineoxide (TEPA)	545-55-1	5	1	and USEPA8321B. Dichloromethane	
Retardants	Polybromobiphenyls (PBBs)	59536-65-1	5	1	extraction GC/MS or LC/MS(-MS)	
	Tetrabromobisphenol A (TBBPA)	79-94-7	5	1		
	Hexabromocyclododecane (HBCDD)	3194-55-6	5	1		
	2,2-Bis(bromomethyl)-1,3- propanediol (BBMP)	3296-90-0	5	1		
	Tris(1,3-dichloro- isopropyl) phosphate (TDCP)	13674-87-8	5	1		
	Short chain chlorinated paraffins (SCCPs) (C10-C13)	85535-84-8	5	1		
	Bis(2-methoxyethyl)-ether	111-96-6	50	5	LICEDA 9270	
2H. Glycols	2-ethoxyethanol	110-80-5	50	5	US EPA 8270 Liquid Extraction	
211. Glycols	2-ethoxyethyl acetate	111-15-9	50	5	LC/MS	
	Ethylene glycol dimethyl	110-71-4	50	5		



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			Repor	t Limit		
	Substance (Testing		Wastew	Sludge	Name of the testing	
Group	parameter)	CAS No.	ater	(mg/kg)	method	
	,		(ug/L)/(ppb)	/(ppm)		
	ether		ppo)			
	2-methoxyethanol	109-86-4	50	5		
	2-methoxyethylacetate	110-49-6	50	5		
	2-methoxypropylacetate	70657-70-4	50	5		
	Triethylene glycol dimethyl	112-49-2	50	5		
	ether 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	
Sorvents	Tetrachloroethylene	127-18-4	1	1	Purgeand-Trap-GC/MS	
	Mono-, di- and tri-		0.01	0.1		
	methyltin derivatives	Multiple	0.01	0.1		
	Mono-, di- and tri-butyltin	Multiple	0.01	0.1		
	derivatives Mono-, di- and tri-phenyltin	Multiple				
	derivatives	Multiple	0.01	0.1		
	Mono-, di- and tri-octyltin	Multiple				
	derivatives	Trainipre	0.01	0.1		
	Monomethyltin	Multiple	0.01	0.1	100 17252	
2J. Organotin	Dimethyltin	Multiple	0.01	0.1	ISO 17353 Derivatisation with	
Compounds	Trimethyltin	Multiple	0.01	0.1	NaB(C2H5) GC/MS	
	Monobutyltin	Multiple	0.01	0.1	1100(02113) 30/11/15	
	Dibutyltin	Multiple	0.01	0.1		
·	Tributyltin Monophenyltin	Multiple	0.01	0.1	_	
	Diphenyltin	Multiple Multiple	0.01	0.1		
	Triphenyltin	Multiple	0.01	0.1		
	Monooctyltin	Multiple	0.01	0.1		
•	Dioctyltin	Multiple	0.01	0.1		
	Trioctyltin	Multiple	0.01	0.1		
	Perfluorooctanesulfonic	355-46-4 ,432-50-7	0.01	0.05	DIN 20407 42	
	acid (PFOS)	333-40-4 ,432-30-7	0.01	0.03	DIN 38407-42 (modified)	
	Perfluoro-n-octanoic acid	335-67-1	0.01	0.05	Ionic PFC:	
2K. Perfluorinated	(PFOA)				Concentration or direct	
and Polyfluorinated	Perfluorobutanesulfonic acid (PFBS)	29420-49-3, 29420-43-3	0.01	0.05	injection, LC/MS(-MS);	
Chemicals (PFCs)	Perfluoro-n-hexanoic acid	207.24.4	0.04		Non-ionic PFC	
	(PFHxA)	307-24-4	0.01	0.05	(FTOH): derivatisation with acetic anhydride,	
	8:2 FTOH	678-39-7	1	0.5	followed by GC/MS	
	6:2 FTOH	647-42-7	1	0.5	Tollowed by Germis	
	Di-2-ethylhexyl phthalate	117-81-7	10	1		
•	(DEHP) Dimethoxyethyl phthalate					
	(DMEP)	117-82-8	10	1		
	Di-n-octyl phthalate	117.04.0	10	1		
2L. Phthalates	(DNOP)	117-84-0	10	1	US EPA 8270D, ISO	
(including all other	Di-iso-decyl phthalate	26761-40-0	10	1	18856	
esthers of phthalic	(DIDP) Di-iso-nonyl phthalate			1	Dichloromethane	
acid)	(DINP)	28553-12-0	10	1	extraction GC/MS	
	Di-n-hexyl phthalate	04.75.2	10	1	1	
	(DnHP)	84-75-3	10	1		
	Dibutyl phthalate (DBP)	84-74-2	10	1		
	Butyl benzyl phthalate	85-68-7	10	1		
	(BBP)			<u> </u>		



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			Renor	t Limit		
			Wastew			
Group	Substance (Testing	CAS No.	ater	Sludge	Name of the testing	
•	parameter)		(ug/L)/((mg/kg) /(ppm)	method	
	D' 1 1 1 1 (DMD)	04.76.4	ppb)			
	Dinonyl phthalate (DNP)	84-76-4	10	1		
	Diethyl phthalate (DEP) Di-n-propyl phthalate	84-66-2	10	1		
	(DPRP)	131-16-8	10	1		
	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		
	Pyrene	129-00-0	1	1		
	Benzo[ghi]perylene	191-24-2	1	1		
	Benzo[e]pyrene	192-97-2	1	1		
	Indeno[1,2,3-cd]pyrene	193-39-5	1	1		
	Benzo[j]fluoranthene	205-82-3	1	1		
0) (D 1 4 4	Benzo[b]fluoranthene	205-99-2	1	1	DD1 20407 20	
2M. Poly Aromatic	Fluoranthene	206-44-0	1	1	DIN 38407-39	
Hydrocarbons	Benzo[k]fluoranthene	207-08-9	1	1	Solvent extraction	
(PaHs)	Acenaphthylene	208-96-8	1	1	GC/MS	
	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	
(1003)	m-cresol	108-39-4	1	0.1	and Trup Germs	
		-	N/A	N/A		
	Temperature TSS	 -	N/A N/A	N/A N/A	Apply the standard	
	COD	 -	N/A N/A	N/A N/A	methods that best apply	
	Total-N	-			to the region (ISO, EU,	
		<u> </u>	N/A	N/A	US, China), please refer	
1A. Conventional	pH Color [m ⁻¹] (436nm;	_	N/A N/A	N/A N/A	to ZDHC Wastewater Guidelines for more	
Parameters	525nm; 620nm)				details on the testing	
	BOD5	_	N/A	N/A	method and the levels	
	Ammonium-N	_	N/A	N/A	(Foundational,	
	Total-P	_	N/A	N/A	Progressive, and	
	AoX	-	N/A	N/A	Aspirational).	
	Oil and Grease	_	N/A	N/A	Cyanida, W:41-	
	Phenol	_	N/A	N/A	Cyanide: With	



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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
	Coliform(bacteria/100ml)	_	N/A	N/A	reference to APHA
	Persistent Foam	_	Not visible	Not visible	4500 CN—B,C&E and followed by UV
	Substance (Testing parameter)	CAS No.	Wastew ater (mg/L) / (ppm)	Wastew ater (mg/kg) / (ppm)	analysis
	ANIONS	1	1		
	Cyanide(CN-)	Various (incl. 57-12-5)	0.02	0.5	
•	Sulfide	<u> </u>	N/A	N/A	
	Sulfite	_	N/A	N/A t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (mg/L) / (ppm)	Wastew ater (mg/kg) / (ppm)	Name of the testing method
	Antimony(Sb)	7440-36-0	0.001	N/A	Various
	Chromium(Cr), total	7440-47-3	0.001	N/A	Acid Digestion with
	Cobalt(Co)	7440-48-4	0.001	N/A	ICP analysis
	Copper(Cu)	7440-50-8	0.001	N/A	
	Nickel (Ni)	7440-02-0	0.001	N/A	pleasterefer to ZDHC
	Silver (Ag)	7440-22-4	0.001	N/A	Wastewater Guidelines
1B. Conventional	Zinc(Zn)	7440-66-6	0.001	N/A	for more details on the
Parameters -	Arsenic (As)	7440-38-2	0.001	1	testing method and the levels (Foundational,
METALS	Cadmium(Cd)	7440-43-9	0.0001	1	Progressive, and
	Chromium VI(CrVI)	18540-29-9	0.001	1	Aspirational).
	Lead(Pb)	7439-92-1	0.001	1	Aspirationar).
	Mercury (Hg)	7439-97-6	0.00005	0.1	Cr(VI): Various Solvent extraction and derivatisation followed by UV analysis

Note / Key:

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



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APPENDIX C

	IELD DATA		N ZERO DI JAL SAMPL		SAMPLE		and the second second second	00613-DATA 0 November 20,
VERIVAS		(mediano)	OAL OAMI L					ine: Analytic
General Data							Daronicoo L	and raidiyas
Laboratory Sample Number								
Client Name	Artoolor srl							_
Field Contact Person	Guido Nesti			Phone No:003	9 0574982106		1	
	Life Delices		60005 D					
Project (Facility Name and Address)		a 288, Cantagalio	59025 Prato					-
Sampling Location / Description	INCOMING WA							-
Sample Identification		with sampling pla	an					-
Sample Type	Grab sample	0511050010						-
Name of Sampler	Caterina Cellai	e to environment	(Passifi, destina	tion Disse Con	Pinner 1	OB Indicant di	abassa ta sassa	_
Discharge mode	Lifect discharg	e to environment	(Specify destina	Don: Priver, Sea,	Stream)	OR Indirect dis	scharge to sewar	e treatment plan
Date of collection	Dwine/Drinting	AMerbina/Finishi	on/Other Inlease	anacifu)				-
Factory Type		Washing/Finishi selected more tha		apecity)				-
Field Data for wastewater	1						7	
Arrival Time:		~	Departure Time		-			
Field Parameters	pH: 7, 1	5	Temp: 7,	°C	Color: (V)	des & Aprel	-	
Control No. of field equipment Analysis Required and Preservation I	fethod						_	
	T	-			T			
Factory with effluent treatment plant	1	, Y	es				No.	
	×	Incoming water						
Sample matrix		Mastaustar had	fore treatment					
	Wastewater before treatment							
	-	Wastewater after	er treatment – wa	ater at discharge	point		_	T
Sampler container number	1						1	
	ID							
		12.43						
Recording time	Time	10.43			-	+	1	-
Volume collected, mL	300							1
Total volume collected	106	Remark, Total v	volume cultected	must be greater	than total of sa	riple size require.		
Tests (MRSL Parameters)	Test required (v)	Total of sample size		Type of contains			Preservation met	tiod
1. Phthalate	V	500 mL				1		
2. Brominated and chlorinated Flame	1		-					
retardant	٧	1000 mL						
 Chlorobenzenes, Chlorotoluene & Polynuclear aromatic hydrocarbons (PAHs) 	1	1000 mL				A ald But a set	Acidity to ~pH 2 with HCl and store sample	
4. Chlorophenols & Cresols	1	100 mL		lass, wash with e-add 6.5 mL of		Accord to apr	4°C	nure sample at
5. SCCPs	· ·	1000 mL	1 "	HCI				
6. Flame relandant	V	900 IIIL	1					
7. APS	V	1000mL						
Chiorinated solvent / Volatile organic compounds (VOCs)	₹	10 mL					iner without air g	
9. Organotin Compounds	4	500 mL				E WHAT P	J. Mile Store Sdil	
10. Dyes	V	10 mL						
11. Glysel	4	69 mL					Without adding a Store sample at 4	
12. *Pesticides		1000 mL		Mass, wash with r		1	owne sample at 4	
13. *Nitrosamine		10 mL		istillated water a dry before use				
14. Banded Azodyes	٧.	2000 mL		ary before use		Adjust to old	6-8 with acetic a	uid and NaΩH
15. *Free primary aromatic amines		500mL				riajuai to pri	Store sample at 4	rC
1R APECs	٦	100ml					o pH 7 with HCl a	
17. PFCs	٧	1 mL	PE	, wash with pesti	cide	Adjust to	pH 6-8 with HCI Store sample at 4	and NaOH
18. FTAs and FTOHs	V	1 mL	160	grade Acetone;		1	Without adding a	cd



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FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (INDIVIDUAL SAMPLING)

CPSD-AN-00613-DATA 04 Issue Date: November 20, 2

Version No.: 9

Business Line: Analytic

Tests (Conventional Parameters)	Test required (v)	Total of sample size	Type of container	Preservation method
19. Heavy Metals except Cr(VI)	٧	9 mL	PE, wash with nitric acid, pre-add 6.5mL of 2M HNO3	Acidify to pH 2 with HNO3 and store at 4oC
20. CrVI	4	95 mL	Amber Glass, wash with pesticide grade acetone	Fill to full bottle without air gap nor acid add and store sample at 4°C "Check pH initially. If pH <7 or pH >9, adjust pH to 8.0 – 8.5. Otherwise, no pH adjustment is required.
21. Cyanide	4	500 mL		Adjust pH 12 with 50% NaOH and store sample at 4°C
22. Chemical oxygen demand (COD)		100 mL	Amber Glass wash with nitric acid; Pre-add 6.5 mL of 2M H2SO4	Fill to full bottle without any air gap; acidify to ~pH 2 with H2SO4 Store sample at 4°C
23. Total suspened solids (TSS)		500 mL	Amber Glass wash with nitric acid.	
24. 5-day Biochemical Oxygen Demand (BOD5)		1000 mL	rinee thoroughly with distillated water and	Without adding acid Store sample at 4°C
25. Total dissolved solids (TDS)		500 mL	dry before use	
26. Adsorbable organically bound halogens (AOX)		100 mL	Amber Glass, wash with nitric acid, pre-add 6.5mL of 2M HNO3	Fill to full bottle without any air gap; acidify to ~pH 2 with HNO3 Store sample at 4°C

_	_			7
н	em	an	KS.	

1.2016 ZDCH guideline test parameters can be allowed to perform individual sampling upon request

2. The minimum sampling time for 2016 ZDCH guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.

3. Free primary aromatic amine, pesticides and nitrosamine are not in the scope of ZDCH Guidline 2016, they are tested upon request.

Recorded by Carening (Pro).	Date: 4131 2 2
Full name:	91
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 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 1-4°C

Signatory of Factory Representative:



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								-	
FIELD DATA RECORD ON ZE					SAMPLE		Issue Date:	November 20, 201	
WEREYASI	(COMPOSITE SAMPLING)						Version No.: Business Line:	Anulation	
General Data							business Line.	Arielyocal	
Laboratory Cample Number									
Client Name	Artcolor srl								
Field Contact Person	Guido Nesti								
Project (Facility Name and Address)									
Sampling Location / Description		Via Bologna 288, Cantagalo 59025 Preto							
Sample Identification		raw waste waters (before treatment)							
Sample Type		Zero discharge with sampling plan							
lame of Sampler		Composite sample Caterina Celai 8F146509949							
Discharge mode	Direct discharge	e to environment	(Specify destination	tion: River, Sea.	Stream)	OR Indirect disc	harge to sewage trea	itment plant	
Date of collection	41231								
Factory Type	Dyeing/ Printing	/ Washing/ Finish	ning/ Other (plea	se specify)					
	"Note: It would	be selected more	than one						
ield Data for wastewater	200-1012-0013-00		20000000						
unival Time:					Departure Time				
actory with effluent treatment plant		Y	65				No		
		Incoming water							
Sample matrix	×		one treatment						
angre more.	-	Wastewater bef							
	_	Wastewater after	r treatment - wa	ater at discharge	point				
ield Parameters	1	2	3	4	5	6	7	8	
Recording time	10.30	11, 30	-12,30	13,50	16,30	15:30			
H1:	663	6.65	6,41	6,5%	613	603			
			-	39.	221	2000			
'emp (°C) :	23,6	28.5	0.85	23,0	23.0	43			
	10'	1							
Color :	Reduiss	Keuluisa.	Kastocsa	Reserve	Light	Will.			
The many that the second	Reddish Francours	Keuluisa Tunnarara		Resects.	Vedd of	rear so			
ample container number			Kastocsa			C			
sample container number	160	(60)	Molocyt Power	Con Col	redución magneti	(60			
Sample container number faiume collected, ml. Total volume collected	160 40L	(60)	Molocyt Power	Con Col	Ventage T	(60	. 1		
sample container number falume collected, mil. fotal valume collected unallysis Required and Preservation	160 40L	(60)	Kaslacy4 To Nove. 160 olume collected	ر در میں اور	Verilia of som	(GD)			
Sample container number //diume collected, mi Fotel volume collected Analysis Required and Preservation	160 40L	(600 Remark: Total v	Kaslacy4 To Nove. 160 olume collected	Con Col	Verilia of som	(GD)	Preservation method		
Sample container number folume collected, mil. fotel volume collected finallysis Required and Preservation feets (MRSL Parameters)	162 40L n Method Test required (V)	Remark: Total v	Kaslacy4 To Nove. 160 olume collected	ر در میں اور	Verilia of sem	(GD)			
Sample container number folume collected, mit. Total volume collected knallysis Required and Preservation Tests (MRSL Parameters)	Transpersion 1 60 Land Method	Remark: Total v	Kaslacy4 To Nove. 160 olume collected	ر در میں اور	Verilia of sem	(GD)			
Sample container number foliume collected, mil. Fotal volume collected Anallysis Required and Preservation Fests (MRSL Parameters)	162 40L n Method Test required (V)	Remark: Total v	Kaslacy4 To Nove. 160 olume collected	ر در میں اور	Verilia of sem	(GD)			
Sample container number /folume collected, mi. Fotel volume collected Analysis Required and Preservation Fests (MRSL Parameters) 1. Phthalate 2. Brominated and chlorinated Flame	162 40L n Method Test required (V)	Remark: Total v	Kaslacy4 To Nove. 160 olume collected	ر در میں اور	Verilia of sem	(GD)			
Sample container number frolume collected, mil. fotal volume collected inallysis Required and Preservation feets (MRSL Parameters) Phthalate Brominated and chlorinated Flame etardami Chlorobenzenes, Chlorotoluene &	1 60 L n Method Test required (y)	Remark: Total v Total of sample size 500 mL	Kaslacy4 To Nove. 160 olume collected	ر در میں اور	Verilia of sem	(GD)			
Sample container number /colume collected, mil. Fotal volume collected Analysis Required and Preservation Fests (MRSL Parameters) I. Phthalate E. Brominated and chlorinated Flame etlandam C. Chlorobenzenes, Chlorotoluene & Polynuclear aromatic hydrocarbons	Test required (V)	Remark: Total or Total of sample size 500 mL	Kaslacy4 To Nove. 160 olume collected	ر در میں اور	Verilia of sem	(GD)			
Sample container number robume collected, mil. Total volume collected thatlysis Required and Preservation (rests (MRSL Parameters) . Phthalate . Brominated and chlorinated Flame standan! . Chlorobenzenes, Chlorotoluene & olynuclear aromatic hydrocarbons PAHs)	Test required (v)	Remark: Total or Total of sample size 500 mL 1000 mL	Moslocy & Pro Name . 160 olume collected	must be greater	Venture of the service of the total of service of the service of t	(GD)			
Sample container number Yolume collected, mil. Total volume collected Analysis Required and Preservation Teats (MRSL Parameters) I. Phthalate P. Brominated and chlorinated Flame ettardant Chlorobenzenes, Chlorotoluene & Tolynudear aromatic hydrocarbons PAHs)	1 60 L n Method Test required (y)	Remark: Total v Total of sample size 500 mL	Koolocy & France. 160 Amber G	must be greater Type of containe	Vendor of a Vendor of Service of	(GD)	Preservation method		
Sample container number relume collected, mit. Total volume collected Analysis Required and Preservation Tests (MRSL Parameters) I. Phthalatie P. Brominated and chlorinated Flame etacidant I. Chlorobenzenes, Chlorotoluene & Tolynuclear aromatic hydrocarbons PAHs) II. Chlorophenois & Cresols	1 60 L O L Method Test required (v)	Remark: Total v Total of sample size 500 mL 1000 mL	Koolocy & France. 160 Amber G	must be greater Type of contains	Vendor of a Vendor of Service of	(GD)	Preservation method		
Sample container number relume collected, mit. Total volume collected Analysis Required and Preservation Tests (MRSL Parameters) I. Phthalatie P. Brominated and chlorinated Flame etacidant I. Chlorobenzenes, Chlorotoluene & Tolynuclear aromatic hydrocarbons PAHs) II. Chlorophenois & Cresols	Test required (v)	Remark: Total or Total of sample size 500 mL 1000 mL	Koolocy & France. 160 Amber G	must be greater Type of containe	Vendor of a Vendor of Service of	(GD)	Preservation method		
Sample container number frolume collected, mil. Fotal volume collected Inallysis Required and Preservation Fests (MRSL Parameters) Phthalaite Brominated and chlorinated Flame stardami Chlorobenzenes, Chlorotoluene & obynuclear aromatic hydrocarbons PAHs) Chlorophenois & Cresols SCCPs	Transperial 1 60 1 0 L Nethod Test required V	Remark: Total v Remark: Total v Total of sample size 500 mL 1000 mL 1000 mL	Koolocy & France. 160 Amber G	must be greater Type of containe	Vendor of a Vendor of Service of	(GD)	Preservation method		
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sample container number relume collected, mil. otal volume collected inallysis Required and Preservation rests (MRSL Parameters) Phthalake Brominated and chlorinated Flame stardant Chicrobenzenes, Chlorotokuene & roynuclear aromatic hydrocarbons PArts) Chlorophenois & Cresols SCCPs Flame retardant	1 60 L O L Method Test required (V)	Remark: Total v Total of sample size 500 mL 1000 mL 1000 mL 1000 mL	Koolocy & France. 160 Amber G	must be greater Type of containe	Vendor of a Vendor of Service of	(GD)	Preservation method		
sample container number relume collected, mil. otal volume collected inallysis Required and Preservation rests (MRSL Parameters) Phthalake Brominated and chlorinated Flame stardant Chicrobenzenes, Chlorotokuene & roynuclear aromatic hydrocarbons PArts) Chlorophenois & Cresols SCCPs Flame retardant	Transperial 1 60 1 0 L Nethod Test required V	Remark: Total v Remark: Total v Total of sample size 500 mL 1000 mL 1000 mL	Koolocy & France. 160 Amber G	must be greater Type of containe	Vendor of a Vendor of Service of	(GD)	Preservation method		
ample container number rélume collected, mil. otal volume collected nallysis Required and Preservation ests (MRSL Parameters) Phthalaise Brominated and chlorinated Flame stardant Chlorobenzenes, Chlorotokuene & olynuclear aromatic hydrocarbons PArtis) Chlorophenois & Cresols SCCPs Flame retardant APS Chlorinated solvent / Volsilie organ	1 60 L of Method Test required V	Remark: Total v Total of sample size 500 mL 1000 mL 1000 mL 1000 mL 1000 mL	Koolocy & France. 160 Amber G	must be greater Type of containe	Vendor of a Vendor of Service of	Acidify to ~pH	Preservation method 2 with HCl and store	sample at 4°C	
sample container number relume collected, mil. cotal volume collected inallysis Required and Preservation rests (MRSL Parameters) Phthalaise Brominated and chlorinated Flame stardant Chicrobenzenes, Chlorotokuene & colynuclear aromatic hydrocarbons PArts) Chlorophenois & Cresols SCCPs Flame retardant APS Chlorinated solvent / Volsilie organ	Transperial 1 60 1 0 L Northod Test required V V V	Remark: Total v Total of sample size 500 mL 1000 mL 1000 mL 1000 mL	Koolocy & France. 160 Amber G	must be greater Type of containe	Vendor of a Vendor of Service of	Acidify to ~pH	Preservation method	sample at 4°C	
sample container number rehume collected, mit. otel volume collected analysis Required and Preservation rests (MRSL Parameters) . Phthalate . Brominated and chlorinated Flame standari . Chlorobenzenes, Chlorotoluene & olynuclear aromasic hydrocarbons PAHs) . Chlorophenois & Cresols . SCCPs . Flame retardant . APS . Chlorinated solvent / Volatile organ ompounds (VCCs)	1 60 L of Method Test required V	Remark: Total v Total of sample size 500 mL 1000 mL 1000 mL 1000 mL 1000 mL	Koolocy & France. 160 Amber G	must be greater Type of containe	Vendor of a Vendor of Service of	Acidify to ~pH	Preservation method 2 with HCl and store	sample at 4°C	
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Sample container number //dume collected, mil. Fotal volume collected Analysis Required and Preservation Fests (MRSL Parameters) 1. Phthalate 2. Brominated and chlorinated Flame etacdant 3. Chlorobenzenes, Chlorotoluene & Polynuclear aromatic hydrocarbons PAHs) 4. Chlorophenois & Cresols 5. SCCPs 5. Flame retardant 7. APS 9. Chlorinated solvent / Volatile organ compounds (VOCs) 9. Organotin Compounds	Transpersion 1 60 1 60 1 60 1 60 1 60 1 60 1 60 1 6	Remark: Total v Total of sample size 500 mL 1000 mL 1000 mL 1000 mL 1000 mL	Koolocy & France. 160 Amber G	must be greater Type of containe	Vendor of a Vendor of Service of	Acidify to ~pH	Preservation method 2 with HCl and store	sample at 4°C	
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Color: Sample container number //diume collected, mil. Fotal volume collected Analysis Required and Preservation Fests (MRSL Parameters) 1. Phthalate 2. Brominated and chlorinated Flame etardant 3. Chlorobenzenes, Chlorotoluene & Polynuclear aromatic hydrocarbons PAHs) 4. Chlorophenois & Cresols 5. SCCPs 5. Flame retardant 7. APS 8. Chlorinated solvent / Volatile organizampounds (VOCs) 9. Organotin Compounds 10. Dyes 11. Glycol	Transporting to the second of	Remark: Total or Remark: Total or Total of sample size 500 mL 1000 mL 1000 mL 1000 mL 1000 mL 1000 mL	Koolocy & France. 160 Amber G	must be greater Type of containe	Vendor of a Vendor of Service of	Acidify to ~pH	Preservation method 2 with HCl and store iner without air gap; Cl and store sample. Without adding acid	sample at 4°C	
Sample container number //diume collected, mil. Fotal volume collected Analysis Required and Preservation Fests (MRSL Parameters) 1. Phthalate 2. Brominated and chlorinated Flame estactant 5. Chlorobenzenes, Chlorotoluene & PAHs) 6. Chlorophenois & Cresols 6. SCCPs 6. Flame retardant 7. APS 8. Chlorinated solvent / Volatile organi compounds (VOCs) 9. Organotin Compounds 10. Dyes	Transperial 1 60 1 0 L In Method Test required V V V V V V V V V V V V V	C Remark: Total v Remark: Total v Total of sample size 500 mL 1000 mL 10	Moslocy & Production 160 column collected	must be greater Type of containe	then total of sem	Acidify to ~pH	Preservation method 2 with HCl and store iner without air gap; a	sample at 4°C	



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13. *Nitrosamine		10 mL	distrilated water and dry before use		
14. Banded Azodyes	4	2000 mL		Adjust to pH 6-8 with acetic acid and N	NaOH
15. *Free primary aromatic amines		500mL		Store sample at 4°C	Nation 1
16. APEOs	4	100mL		Adjust to pH 7 with HCl and NaCl Store sample at 4°C	н
17. PFCs	٧	1 mL	PE, wash with pesticide	Adjust to pH 6-8 with HICI and Nac Store sample at 4°C	ж
18. FTAs and FTOHs	4	1 mL	grade Acetone;	Without adding acid Store sample at 4°C	
Tests (Conventional Parameters)	Test required	Total of sample	Type of container	Preservation method	
19. Heavy Metals except Cr(VI)	(40)	9 mL	PE, wash with nitric acid, pre-add 6.5mL of 2M	Acidify to pH 2 with HNO3 and store at	t 4oC
20. CrVI	V	95 mL	HNOS	Fill to full bottle without air gap nor acid add sample at 4°C "Check pH initially. If pH <7 or pH >9, adj.	and ston
21. Cyanide	4	500 mL	Amber Glass, wash with pesticide grade acetone	8.0 – 8.5. Otherwise, no pH adjustment is Adjust pH 12 with 50% NaOH and store s 4°C	required.
22. Chemical oxygen demand (COD)		100 mL	Amber Glass;wash with nitric acid; Pre-add 6.5 ml. of 2M H2SO4	Fill to full bottle without any air gap; acidify with H2SO4 Store sample at 4°C	to ~pH 2
23. Total suspened solids (TSS)		500 mL			
24. 5-day Biochemical Oxygen Demand (BOD5)		1000 mL	Amber Glass, wash with nitric acid, ninse thoroughly with distillated waster and dry before use	Without adding acid Store sample at 4°C	
25. Total dissolved solids (TDS)		500 mL	-,		
26. Adsorbable organically bound halogens (AOX)		100 mL	Amber Glass, wash with nitric acid, pre-add 6.5mL of 2M HNO3	Fill to full bottle without any air gap; acidity with HNO3 Store sample at 4°C	to ~pH 2
Free primary aromatic amine, pesticide			more than one hour between discrete samples. S cope of ZDCH Guidline 2016, they are tested up		st.
Comment from factory					
Recorded by: Caller M (1	ellyi		Date:	4/3/24	
Acknowledgement by factory	s completed the	e stated sampling	activity at captioned date, time and location. All si	ample/s) is/are collected in desinated	
			y Bureau Veritas is/are stored in portable freezer		
Signatory of Factory Representative:	QUUO F	ANCHILLACO	Date:	04/03/22	
	FUNDA		22.	. /	
1	1		e		
Field Data for Sludge					
Field Parameters	pH:		Temp: °C Color:		
Control No. of field equipment					
Analysis Required and Preservation Me	thod				
Factory with effluent treatment plant		Y	es	No	
			r (sedimentation tank)		



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APPENDIX D - Limitation Value of Legal Requirements

Tabella dei valori limiti di emissione in fognatura (estratta da Tabella dell'Allegato 1 della delibera del C.d.A. della G.I.D.A. SpA del 18/04/2001)

Numero parametro	Parametro	Unità di misura	Scarico in rete fognaria
2	PH	_	4,5 - 9,5 (il valore istantaneo non deve essere minore di 4)
	Temperatura	°C	
	Colore		
8	Odore		
	materiali grossolani		assenti
	Solidi sospesi totali	mg/L	≤ 1200
	BOD ₁ (come O ₂)	mg/L	≤ 600
	COD (come O ₂)	mg/L	≤ 3000
	Alluminio	mg/L	≤ 2,0
0	Arsenico	mg/L	€ 0,5
1	Bario	mg/L	
2	Boro	mg/L	≤4
3	Cadmio	mg/L	≤ 0.02
4	Cromo totale	mg/L	≤4
5	Cromo VI	mg/L	≤ 0,20
6	Ferro	mg/L	≤4
7	Manganese	mg/L	£4
8	Mercurio	mg/L	≤ 0,005
9	Nichel	mg/L	≤4
0	Piombo	mg/L	≤ 0,3
1	Rame	mg/L	£ 1,0
2	Selenio	mg/L	≤ 0,03
3	Stagno	mg/L	
4	Zinco	mg/L	≤ 2,0
5	Cianuri totali (come CN)	mg/L	≤ 1,0
6	Cloro attivo libero	mg/L	≤ 5,0
7	Solfuri (come S)	mg/L	≤ 60
8	Solfiti (come SO ₃)	mg/L	s 60
9	Solfati (come SO ₄)	mg/L	≤ 3000
0	Cloruri	mg/L	≤ 5000
1	Fluoruri	mg/L	£ 12
2	Fosforo totale (come P)	mg/L	≤ 20
3	Azoto ammoniacale (come NH ₄)	mg/L	≤ 100
4	Azoto nitroso (come N)	mg/L	s 1,2
5	Azoto nitrico (come N)	mg/L	s 45
6	Grassi e olii animali/vegetali	mg/L	≤ 150
7	Idrocarburi totali	mg/L	≤ 200
8	Fenoli	mg/L	s1
9	Aldeidi	mg/L	6.2
0	Solventi organici aromatici	mg/L	≤ 0,4
1	Solventi organici azotati	mg/L	≤ 0,2
2	Tensioattivi totali	mg/L	≤ 300
3	Pesticidi fosforati	mg/L	≤ 0,10
4	Pesticidi totali (esclusi i fosforati) tra cui:	mg/L	≤ 0,05
5	aldrin	mg/L	≤ 0,01
6	dieldrin	mg/L	≤ 0,01
7	endrin	mg/L	≤ 0,002
8	sodrin	mg/L	s 0,002
19	Solventi clorurati	mg/L	s 2