

# TEST REPORT

**Technical Report:** (6822)090-0416 April 16, 2022

Date Received: March 30, 2022 Page 1 of 22

PU No. 6329

Production Unit Name: Paramount Textile Ltd.

Production Unit Address: Gilarchala, Sreepur, Gazipur, 1740, Bangladesh.

Project No.: SCM-2022 Client Reference No.: Not Applicable

Sample Method: I001) Raw Wastewater – 6 hours Time – weighted Composite

I002) Discharged Wastewater - 6 hours Time - weighted Composite

Sample Pick Up Date: March 30, 2022 Discharge Type: Direct Discharge

On-Site Effluent Treatment Plant
Yes

(ETP):

Wastewater Discharge to: Government Drain
Off-site ETP name (if applicable): Not Applicable
Off-site ETP address (if applicable): Not Applicable

Test Period: March 31, 2022 To April 13, 2022

Sample Description:

I001) Grey color liquid - Raw Wastewater

I002) Reddish color liquid - Discharged Wastewater

Bureau Veritas Consumer Products Services (BD) Ltd. Plot # 130, DEPZ Extension Area Ganakbari, Savar, Dhaka, Bangladesh Tel: 88-02-7701464-6, Fax: 88-02-7701463 E-mail: bvcps.bd@bd.bureauveritas.com website: cps.bureauveritas.com

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#### REMARK

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

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Technical enquiry-Chemical Mr. M. Nur Alam,

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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.

MD. RASHEDUL HAQUE MANAGER, RSL OPERATIONS

**BUREAU VERITAS**CONSUMER PRODUCTS SERVICES (BANGLADESH) LTD.

<sup>\*</sup> The sampling is agreed with client.



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# **Executive Summary**

1A) Conventional Parameters	I001	I002
Temperature		
TSS		
COD		
Total-N		
pH Value		
Color [m <sup>-1</sup> ] (436nm; 525nm; 620nm)		
BOD <sub>5</sub>		
Ammonium-N		
Total-P	N/A	
AOX		
Oil and Grease		
Phenol		
Coliform		
Foam		
ANIONS – Cyanide		
ANIONS - Sulfide		
ANIONS - Sulfite		
1B) Conventional Parameters –METALS		

# Note / Key:

- $\square$  Meet Foundational Limit / Meet discharge license criteria
- - Exceeding Foundational Limit / Exceeding discharge license criteria
- NR Not Requested / Not required
- N/A Not Applicable

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

# Note / Key:

- • − Detected
- o Not Detected
- NR Not Requested / Not required



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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 Procedure**

Total number of sample collected is based on the actual factory facilities and manufacturing processes. Two environment samples were sampled per factory, including I001) Raw Wastewater and I002) Discharged Wastewater.

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.

#### 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**

## 1A) Conventional Parameters

**Temperature** 

**Test Method**: Measurement by thermometer

Tested Item(s)	Result	Unit	Conclusion
1002	33.0 (Foundational)	deg. C	DATA

Note:

deg. C = degree Celsius (°C)

Foundational Limit: ▲15 / max. 35°C; Progressive Limit: ▲10 / max. 30°C; Aspirational Limit: ▲5 / max. 25°C

Total Suspended Solids (TSS)

Test Method : Reference to APHA 2540D, GB 11901, ISO 11923

Tested Item(s	Result	Unit	Conclusion
1002	24 (Foundational)	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** : Reference to APHA 5220B & EPA 410.3, HJ 828

Tested Item(s)	Result	Unit	Conclusion
I002	32 (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

# Total Nitrogen (Total-N)

**Test Method** : Reference to APHA 4500- N-C

Tested Item(s)	Result	Unit	Conclusion
I002	19.5 (Foundational)	mg/L	DATA

Note:

 $mg/L = milligram \ per \ liter$ 

Foundational Limit: 20 mg/L; Progressive Limit: 10 mg/L; Aspirational Limit: 5 mg/L



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#### pH Value

**Test Method**: Reference to EPA 150.2

-	Unit	Result	
Test Item(s)	-	I002	
Parameter	-	-	
Temp. of sample	deg. C	20.2	
pH value of sample	-	7.3 (Comply with ZDHC WWG requirements)	
Conclusion	-	DATA	

Note:

Temp. = Temperature

deg. C = degree Celsius (°C)

Limit: 6 - 9

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

**Test Method**: Reference to ISO 7887: 2011(E), B

Tested Item(s)	Result	Unit	Conclusion
I002	6.5; 4.8; 2.5 (Foundational)	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** : Reference to APHA 5210B (5 days)

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

Note:

 $mg/L = milligram \; per \; liter \;$ 

Foundational Limit: 30 mg/L; Progressive Limit: 15 mg/L; Aspirational Limit: 5 mg/L

# Ammonium Nitrogen

**Test Method**: Reference to APHA 4500-NH<sub>3</sub> – B & F 22<sup>nd</sup> Edition 2012

Ī	Tested Item(s)	Result	Unit	Conclusion
Ī	I002	0.54 (Progressive)	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



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#### Total Phosphorus (Total-P)

**Test Method**: Reference to APHA 22<sup>nd</sup> Edition -4500-P.E (2012)

Tested Item(s)	Result	Unit	Conclusion
I002	0.66 (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**: Reference to ISO 9562

Tested Item(s)	Result	Unit	Conclusion
I002	0.34 (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**: Reference to EPA 1664B, APHA-5520 B and F

Tested Item(s)	Result	Unit	Conclusion
I002	1.3 (Progressive)	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

#### Phenol

**Test Method** : Reference to APHA 5530 C

Tested Item(s)	Result	Unit	Conclusion
1003	0.002	ma/I	DATA
1002	(Progressive)	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**: Reference to ISO 9308-1: 2014

Tested Item(s)	Result	Unit	Conclusion
I002	289 (Foundational)	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;



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#### Persistent Foam

Test Method : Visual

Tested Item(s)	Result	Unit	Conclusion
I002	No Foam (Comply with ZDHC WWG requirements)	-	DATA

# ANIONS - Cyanide

**Test Method**: Reference to APHA 22<sup>nd</sup> Edition-4500-CN. C&E (2012), EPA 9010C, 9013 & 9014

Tested Item(s)	Result	Unit	Conclusion	
I002	ND (Aspirational)	mg/L	DATA	

Note:

mg/L = milligram per liter

ND = Not Detected

Foundational Limit: 0.2 mg/L; Progressive Limit: 0.1 mg/L; Aspirational Limit: 0.05 mg/L

# ANIONS - Sulfide

**Test Method**: Reference to APHA 4500-S<sup>2</sup>-D

Tested Item(s)	Result	Unit	Conclusion
I002	<0.1 (Foundational)	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

# ANIONS - Sulfite

**Test Method** : Reference to EPA 377.1, APHA 4500-SO<sub>3</sub><sup>2-</sup> (2012)

Tested Item(s)	Result	Unit	Conclusion
1002	1.0 (Foundational)	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 (mg/L)	I002 (mg/L)
Antimony(Sb)	. 🗸 /	
Foundational Limit: 0.1 mg/L;	ND	ND
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.01 mg/L	, ,	
Chromium( Cr ), total		
Foundational Limit: 0.2 mg/L;	0.013	0.022
Progressive Limit: 0.1 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.05 mg/L	, ,	
Cobalt( Co )		
Foundational Limit: 0.05 mg/L;	ND	ND
Progressive Limit: 0.02 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.01 mg/L	•	
Copper(Cu)		
Foundational Limit: 1 mg/L;	0.057	0.018
Progressive Limit: 0.5 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.25 mg/L		, , ,
Nickel (Ni)		
Foundational Limit:.0.2 mg/L;	0.002	ND
Progressive Limit: 0.1 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.05 mg/L	, 1	
Silver (Ag)		
Foundational Limit: 0.1 mg/L;	ND	ND
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.005 mg/L	, ,	, ,
Zinc(Zn)		
Foundational Limit: 5 mg/L;	0.028	0.074
Progressive Limit: 1 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.5 mg/L	, 1	
Arsenic (As)		
Foundational Limit: 0.05 mg/L;	ND	ND
Progressive Limit: 0.01 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.005 mg/L	, ,	
Cadmium( Cd )		
Foundational Limit: 0.1 mg/L;	ND	ND
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.01 mg/L	•	
Lead(Pb)		
Foundational Limit:0.1 mg/L;	0.011	ND
Progressive Limit: 0.05 mg/L;	(Progressive)	(Aspirational)
Aspirational Limit: 0.01 mg/L		, 1
Mercury (Hg)		
Foundational Limit: 0.01 mg/L;	ND	ND
Progressive Limit: 0.005 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit :0.001 mg/L		, ,
Chromium VI( CrVI )		
Foundational Limit: 0.05 mg/L;	ND	ND
Progressive Limit: 0.005 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.001 mg/L	, ,	



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# Others Priority Chemical Groups

	$I001 (\mu g/L)$	$I002 (\mu g/L)$
2A) APs and APEOs	ND	ND
2B) Chlorobenzenes and Chlorotoluenes	ND	ND
2C) Chlorophenols	ND	ND
2D) Azo Dyes	ND	ND
2E) Carcinogenic Dyes	ND	ND
2F) Disperse Dyes	ND	ND
2G) Flame Retardants	ND	ND
2H) Glycols	ND	ND
2I) Halogenated Solvents	ND	ND
2J) Organotin Compounds	ND	ND
2K) Perfluorinated and Polyfluorinated Chemicals	ND	ND
2L) Phthalates	ND	ND
2M) Poly Aromatic Hydrocarbons	ND	ND
2N) Volatile Organic Compounds	ND	ND

#### Remark:

- Test method, reporting limit and list of chemical are summarized in tables of Appendix B.
- ND = Not detected (Please refer to reporting limit shown in Appendix B.).
- ppm = part(s) per million; ppb = part(s) per billion.



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# **APPENDIX A - Photo of the Sample/ Sampling Location**

I001) Sampling Point (GPS Location: N 24° 25' 30"; E 90° 32' 30.12")



I001) Sampling Point Surrounding Environment (GPS Location: N 24° 25' 30"; E 90° 32' 30.12")



I001) All sampled bottles with label



I001) pH value



I001) Sample for Phthalate Testing



I001) Packaging





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I002) Sampling Point (GPS Location: N 24° 25' 30"; E 90° 32' 30.12")



I002) Sampling Point Surrounding Environment (GPS Location: N  $24^{\circ}$  25' 30"; E  $90^{\circ}$  32' 30.12")



I002) All sampled bottles with label



I002) pH value



I002) Sample for Phthalate Testing



I002) Packaging





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# APPENDIX B

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

Group	Substance (analytes)	CAS No.	Detection Limit (µg/L)	Testing method
	Octylphenol OP, mixed	Various (incl. 140-66-9,	407	NP/OP: ISO 18857-2
2A. Alkylphenol (AP)	isomers	1806-26-4, 27193-28-8)	5	(modified dichloromethane extraction) or ASTM D7065 (GC/MS or LC/MS(-MS)
	Nonylphenol NP	Various (incl. 104-40-5, 11066-49-2, 25154-52-3,		
and Alkylphenol Ethoxylates (APEOs):		84852-15-3)		
including all isomers	Octylphenol ethoxylates (OPEO)	Various (incl. 9002-93-1, 9036-19-5, 68987-90-6)		OPEO/NPEO (n>2): ISO 18254-1 OPEO/NPEO: ISO18857-2 or ASTM
	Nonylphenol ethoxylates (NPEO)	Various (inc. 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0)		D7065(LC/MS; GC/MS or LC/MSMS for n=1,2)
	Monochlorobenzene	108-90-7		
	1,2-Dichlorobenzene	95-50-1	1	
	1,3-Dichlorobenzene	541-73-1		USEPA 8260B,8270D. Dichloromethane
	1,4-Dichlorobenzene	106-46-7		
	1,2,3-Trichlorobenzene	87-61-6		
	1,2,4-Trichlorobenzene	120-82-1		
	1,3,5-Trichlorobenzene	108-70-3		
	1,2,3,4-Tetrachlorobenzene	634-66-2		
	1,2,3,5-Tetraclorobenzene	634-90-2		
	1,2,4,5-Tetrachlorobenzene	95-94-3		
	Pentachlorobenzene	608-93-5		
	Hexachlorobenzene	118-74-1		
	2-Chlorotoluene	95-49-8		
	3-Chlorotoluene	108-41-8		
2B. Chlorobenzenes	4-Chlorotoluene	106-43-4	0.2	
and Chlorotoluenes	2,3-Dichlorotoluene	32768-54-0	0.2	extraction followed by
	2,4-Dichlorotoluene	95-73-8		GC/MS
	2,5-Dichlorotoluene	19398-61-9		
	2,6-Dichlorotoluene	118-69-4		
	3,4-Dichlorotoluene	95-75-0		
	3,5-Dichlorotoluene	25186-47-4		
	2,3,4-Trichlorotoluene	7359-72-0		
	2,3,6-Trichlorotoluene	2077-46-5		
	2,4,5-Trichlorotoluene	6639-30-1		
	2,4,6-Trichlorotoluene	23749-65-7		
	3,4,5-Trichlorotoluene	21472-86-6		
	2,3,4,5-Tetrachlorotoluene	76057-12-0	4	
	2,3,5,6-Tetrachlorotoluene	29733-70-8	4	
	2,3,4,6-Tetrachlorotoluene	875-40-1	-	
	Pentachlorotoluene	877-11-2		**************************************
	Pentachlorophenol (PCP)	87-86-5	4	USEPA 8270 D
2C Chl	2,3,4,5-Tetrachlorophenol	4901-51-3	105	Solvent extraction,
2C. Chlorophenols	2,3,4,6-Tetrachlorophenol	58-90-2	0.5	derivatisation with
	2,3,5,6-Tetrachlorophenol	935-95-5	-	KOH, acetic anhydride
	2,4,6-Trichlorophenol	88-06-2		followed by GC/MS



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Group	Substance (analytes)	CAS No.	Detection Limit	Testing method
	2,3,5-Trichlorophenol	933-78-8	(μg/L)	
	2,4,5-Trichlorophenol	95-95-4		ISO 14154:2005
	3,4,5-Trichlorophenol	609-19-8		
	2,3,4-Trichlorophenol	15950-66-0		
	2,3,6-Trichlorophenol	933-75-5		
	2,3-Dichlorophenol	576-24-9		
	3,4-Dichlorophenol	95-77-2		
	2,4-Dichlorophenol	120-83-2		
	2,5-Dichlorophenol	583-78-8		
	2,6-Dichlorophenol	87-65-0		
	3,5-Dichlorophenol	591-35-5		
	2-Chlorophenol	95-57-8		
	3-Chlorophenol	108-43-0		
	4-Chlorophenol	106-48-9		
	4-Aminodiphenyl	92-67-1		
	Benzidine	92-87-5		
	4-Chloro-o-toluidine	95-69-2		
	2-Naphthylamine o-Aminoazotoluene	91-59-8 97-56-3		
	5-nitro-o-toluidine	99-55-8		
	4-Chloroaniline	106-47-8		
	4-Choroannine  4-Methoxy-m-	100-47-8		
	phenylenediamine	615-05-4		
	4,4'-methylenedianiline	101-77-9		
	3,3`-Dichlorobenzidine	91-94-1		
	3,3`-Dimethoxybenzidine	119-90-4		EN 14362-1
	3,3`-Dimethylbenzidine	119-93-7		EN 14362-3 Reduction step with Sodiumdithionite, solvent extraction,
2D. Dyes - Azo	4,4`-Methylene-di-o-toluidine	838-88-0		
(Forming Restricted	6-methoxy-m-toluidine (p-		0.1	
Amines)	Cresidine)	120-71-8		
	4,4`-Methylene-bis-(2-chloro-aniline)	101-14-4		GC/MS or LC/MS
	4,4`-Oxydianiline	101-80-4		
	4,4`-Thiodianiline	139-65-1		
	o-Toluidine	95-53-4		
	4-Methyl-m-			
	phenylenediamine	95-80-7		
	2,4,5-Trimethylaniline	137-17-7		
	o-Anisidine	90-04-0		
	4-Aminoazobenzene	60-09-3		
	2,4-Xylidine	95-68-1		
	2,6-Xylidine	87-62-7		
	C.I. Direct Black 38	1937-37-7		
	C.I. Direct Blue 6	2602-46-2		
	C.I. Acid Red 26	3761-53-3		
	C.I. Basic Red 9	569-61-9		
	C.I. Direct Red 28	573-58-0		
	C.I. Basic Violet 14	632-99-5		
2E. Dyes-	C.I. Disperse Blue 1	2475-45-8		Liquid Extraction
Carcionogenic or	C.I. Disperse Blue 3	2475-46-9	500	LC/MS
Equivalent Concern	C.I. Basic Blue 26 (with	2580-56-5		
	Michler's Ketone > 0.1%)			
	C.I. Basic Green 4 (malachite green chloride)	569-64-2		
	C.I. Basic Green 4 (malachite	2437-29-8		
	green oxalate)			
	C.I. Basic Green 4(malachite	10309-95-2		



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Group	Substance (analytes)	CAS No.	Detection Limit (µg/L)	Testing method
	green)			
	Disperse Orange 11	82-28-0		
	Disperse Yellow 1	119-15-3		
	Disperse Blue 102	12222-97-8		
	Disperse Blue 106	12223-01-7		
	Disperse Yellow 39	12236-29-2		
	Disperse Orange 37/59/76	13301-61-6		
	Disperse Brown 1	23355-64-8		
	Disperse Orange 1	2581-69-3		
	Disperse Yellow 3	2832-40-8		
2F. Dyes-disperse	Disperse Red 11	2872-48-2		Liquid Extraction
(sensitizing)	Disperse Red 1	2872-52-8	50	LC/MS
(sensitizing)	Disperse Red 17	3179-89-3		LC/WIS
	Disperse Blue 7	3179-90-6		
	Disperse Blue 26	3860-63-7		
	Disperse Yellow 49	54824-37-2		
	Disperse Blue 35	12222-75-2		
	Disperse Blue 124	61951-51-7		
	Disperse Yellow 9	6373-73-5		
	Disperse Orange 3	730-40-5		
	Disperse Blue 35	56524-77-7		
	Polybromobiphenyls (PBBs)	59536-65-1		USEPA 8270 ISO 22032, USEPA 527 and USEPA 8321B. Dichloromethane extraction GC/MS or
	Pentabromodiphenyl ether (PentaBDE)	32534-81-9		
	Octabromodiphenyl ether (OctaBDE)	32536-52-0		
	Decabromodiphenyl ether (DecaBDE)	1163-19-5		
	Tris(2,3-dibromopropyl) phosphate (TRIS/TDBPP)	126-72-7		
	Tetrabromobisphenol A (TBBPA)	79-94-7		
2G. Flame Retardants	Bis(2,3-dibromopropyl) phosphate (BIS/BDBPP)	5412-25-9	5	
20.1 mile recuirement	Hexabromocyclododecane (HBCDD)	3194-55-6		
	2,2-Bis(bromomethyl)-1,3- propanediol (BBMP)	3296-90-0		LC/MS(-MS)
	Tris(aziridinyl)- phosphineoxide (TEPA)	545-55-1		
	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8		
	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8		
	Short chain chlorinated paraffins (SCCPs) (C10-C13)	85535-84-8		
	Bis(2-methoxyethyl)-ether	111-96-6		
	2-ethoxyethanol	110-80-5		
	2-ethoxyethyl acetate	111-15-9		
	Ethylene glycol dimethyl ether	110-71-4		US EPA 8270 Liquid Extraction
2H. Glycols	2-methoxyethanol	109-86-4	50	LC/MS
	2-methoxyethylacetate	110-49-6		GC-MS
	2-methoxypropylacetate	70657-70-4		30 W
	Triethylene glycol dimethyl ether	112-49-2		
2I. Halogenated	1,2-Dichloroethane	107-06-2	1	USEPA 8260B



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Group	Substance (analytes)	CAS No.	Detection Limit (µg/L)	Testing method	
Solvents	Methylene Chloride	75-09-2		Headspace GC/MS or	
	Trichloroethylene	79-01-6		Purge-and-Trap-GC/MS	
	Tetrachloroethylene	127-18-4			
	Monobutyltin (MBT)	Multiple			
	Dibutyltin (DBT)	Multiple			
	Dioctyltin (DOT)	Multiple			
	Tributyltin (TBT)	Multiple			
	Triphenyltin (TPhT)	Multiple			
	Tricyclohexyltin (TCyT)	Multiple			
	Trioctyltin (TOT)	Multiple			
	Tripropyltin (TPT)	Multiple		ISO 17353	
2J. Organotin	Monooctyltin (MOT)	Multiple	0.01	Derivatisation with	
Compounds	Diphenyltin (DPhT)	Multiple	0.01	NaB(C2H5)	
	Tetrabutyltin (TeBT)	Multiple		GC/MS	
	Mono-, di- and tri-methyltin derivatives	Various			
	Mono-, di- and tri-butyltin derivatives	Various			
	Mono-, di- and tri-phenyltin derivatives	Various			
	Mono-, di- and tri-octyltin derivatives	Various			
	Perfluoro-n-octanoic acid (PFOA)	335-67-1		DIN 38407-42 (modified)	
	Perfluorobutanesulfonic acid (PFBS)	29420-49-3, 29420-43-3	0.01	Ionic PFC:	
2K. Perfluorinated and Polyfluorinated	Perfluorooctanesulfonic acid (PFOS)	355-46-4 ,432-50-7	0.01	Concentration or direct injection, LC/MS(-MS)	
Chemicals (PFCs)	Perfluoro-n-hexanoic acid (PFHxA)	307-24-4		Non-ionic PFC (FTOH derivatisation with acetic anhydride, followed by GC/MS	
	8:2 FTOH	678-39-7			
	6:2 FTOH	647-42-7	1		
	Butyl benzyl phthalate (BBP)	85-68-7			
	Dibutyl phthalate (DBP)	84-74-2			
	Di-2-ethylhexyl phthalate (DEHP)	117-81-7			
	Di-n-octyl phthalate (DNOP)	117-84-0			
	Di-iso-nonyl phthalate (DINP)	28553-12-0			
	Di-iso-decyl phthalate (DIDP)	26761-40-0			
	Diethyl phthalate (DEP)	84-66-2			
	Di-n-propyl phthalate (DPRP)	131-16-8			
	Di-iso-butyl phthalate (DIBP)	84-69-5		110 ED 1 0050D 100	
2L. Phthalates (including all other	Di-cyclohexyl phthalate (DCHP)	84-61-7	10	US EPA 8270D, ISO 18856	
esthers of phthalic acid)	Di-n-hexyl phthalate (DnHP)	84-75-3	- 10	Dichloromethane	
estricts of phinane acidy	Dinonyl phthalate (DNP)	84-76-4		extraction GC/MS	
	Di-iso-octyl phthalate (DIOP)	27554-26-3			
	Dimethoxyethyl phthalate (DMEP)	117-82-8			
	1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP)	68515-42-4			
	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6			
2M. Poly Aromatic	Benzo[a]pyrene (BaP)	50-32-8	1	US EPA 8270	
Hydrocarbons (PaHs)	Anthracene	120-12-7	1	DIN 38407-39	



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Group	Substance (analytes)	CAS No.			tion Lim	it	Testing method
, Group	·			$(\mu g/L)$	)		
	Pyrene	129-00-0					Solvent extraction
	Benzo[ghi]perylene	191-24-2		_			GC/MS
	Benzo[e]pyrene	192-97-2					
	Indeno[1,2,3-cd]pyrene	193-39-5					
	Benzo[j]fluoranthene	205-82-3		_			
	Benzo[b]fluoranthene	205-99-2					
	Fluoranthene	206-44-0		_			
	Benzo[k]fluoranthene	207-08-9					
	Acenaphthylene	208-96-8					
	Chrysene	218-01-9					
	Dibenz[a,h]anthracene Benzo[a]anthracene	53-70-3 56-55-3		_			
		83-32-9		_			
	Acenaphthene Phenanthrene	85-01-8		_			
	Fluorene	86-73-7					
	Naphthalene	91-20-3					
	Benzene	71-43-2					
	Xylene	1330-20-7					ISO 11423-1
2N. Volatile Organic	o-cresol	95-48-7		1			Headspace- or Purge-
Compound (VOCs)	p-cresol	106-44-5		1			and-Trap-GC/MS
	m-cresol	108-39-4					US EPA 8260
	III-cresor	108-39-4		Limite	(mg/L)	or	
Group	Parameter/substance	CAS No.			vise spec		Testing method
Gloup	r arameter/substance	CAS NO.		A	P	F	resting inethod
				<b>A</b> 5/	<b>▲</b> 10/	<b>▲</b> 15/	
	Temperature	_		max.	max.	max.	
				25°C	30°C	35°C	
	TSS	_		5	15	50	
	COD	_		40	80	150	
	Total-N	_		5	10	20	
	pН	_			6 - 9		
	Color [m-1] (436nm; 525nm;	_		2;1;1	5;3;2	7;5;3	Ammler the atom dond
	620nm)						Apply the standard methods that best apply
	BOD5	_		5	15	30	to the region (ISO, EU,
1A. Conventional	Ammonium-N	_		0.5	1	10	US, China), please refer
Parameters (sum	Total-P	_		0.1	0.5	3	to ZDHC Wastewater
parameters)	AoX	_		0.1	1	5	Guidelines for more
	Oil and Grease	_		0.5	2	10	details on the testing
	Phenol	_		0.001	0.01	0.5	method
	Coliform(bacteria/100ml)	_		25/100 100/100 400/100			
				ml ml ml No foam/ Dissipating/			
	Persistent Foam	_				aung/	
	ANIONS			Persiste	CIII		
	Cyanide( CN-)	Various (incl. 5	7-12-5)	0.05	0.1	0.2	
	Sulfide	_	, 12 0)	0.01	0.05	0.5	
	Sulfite	_		0.2	0.5	2	
			Detection	Ü.2	- 0.0		
C	D	CACN	Limit	Limits	(mg/L)		
Group	Parameter/substance	CAS No.	(mg/L)/				Testing method
			(ppm)	A	P	F	
	Cadmium( Cd )	7440-43-9	0.0001	0.01	0.05	0.1	Apply the standard
	Caumum (Cu)				0.05		
	Lead(Pb)	7439-92-1	0.001	0.01	0.03	0.1	methods that best apply
ID Come d'		7439-92-1 7439-97-6	0.001	0.01	0.005	0.1	methods that best apply to the region (ISO, EU,
1B. Conventional	Lead(Pb)		1				to the region (ISO, EU,
1B. Conventional Parameters - <b>METALS</b>	Lead( Pb ) Mercury (Hg)	7439-97-6	0.00005	0.001	0.005	0.01	
	Lead( Pb ) Mercury (Hg) Silver (Ag)	7439-97-6 7440-22-4	0.00005 0.001	0.001 0.005	0.005 0.05	0.01	to the region (ISO, EU, US, China), please refer



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Group	Substance (analytes)	CAS No.		Detect (µg/L)	ion Lim	it	Testing method
	Arsenic (As)	7440-38-2	0.001	0.005	0.01	0.05	method
	Copper( Cu )	7440-50-8	0.001	0.25	0.5	1	
	Zinc(Zn)	7440-66-6	0.001	0.5	1	5	
	Chromium( Cr ), total	7440-47-3	0.001	0.05	0.1	0.2	
	Chromium VI( CrVI )	18540-29-9	0.001	0.001	0.005	0.05	

A: Aspirational P: Progressive F: Foundational

#### 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

**Remark:** The report [(6822)090-0416] was sub-contracted to India (Testtex India Laboratories Pvt. Ltd) for Coliform & Total-N & AOX Tests.



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# **APPENDIX C – Onsite Field Data Record Sheet**

(10)		FIELD DATA	A RECORD MPOSITE /	ON ZERO D INDIVIDUAL	ISCHARGE L SAMPLIN	SAMPLE G)		Issue Dat Version N	Vo.: 16
					<del>,</del>				Line: Analytic
General Data			(	1000	120-				
Laboratory Sample N	URBHC:		(	682 r	10/0.	-041	6		
Client Nume:									_
Field Contact Person		Asad	12Laman	Richart	Phone No.	0176963	3006		_
Project (Facility Name	n and Address):	Paren	nount te	while LL	L. Span	C170963	2012		
Sampling Location / D	description:	Corlect	et ETP.	- Inlad	s, oites b	un, gazis	אטת		_
Sample Identification:			ge with sampling						_
Sample Typa:			Emple / Grab sem						_
Name of Sampler:					te as approprias	e)			
Xscharge mode.			asud Rar						
Date of collection:		20.03	p to environment (	specify destination	: River, Sea, Street	er) OR Indirect of	lacinarge to sawag	e Insulment plant	
Factory Type:		30.03							_
		Diena / Pub	Mg / Washing / F	Inistrato / Others	(nlease specify)	k			-
Field Data for Waster	and a	result if would	be selected more t	nan one					-
Arrival Time:	Name -	12.00							
Field Parameters		13.00	,	Departure Tin		18. 15		7	
ontrol No. of field equipment		рн: 10-4		Temp. 38	.3 ℃	Color: #1	rey	Fine rate :	(volume/min)
		+							
actory with affluent treatment plant.		-		Yes				No	
			Incoming water	(If required)					
Sample metric:									
			Wastewater of	er treatment – w	ater at discharge	point			
ampler container num	iber	12				T			
		1	2	3	4	5			
ecording time	ID						6	7	
containing mine	Yime	12.30	13.30	14.30	15.30	14.20			
:		10.6	10.2	10.5		16-30	17.30		
mp (°C):		38.3	38.6		10. 5	10.5	10.9		
for (visual estimation	à:	grey		32.7	39.0	38.8	37.6		
ow rate (volume/time)	m3/h	160	grey	grey	grey	3nty	Aucen		
dume collected, ml.		162412	150	110	129	132	115		
	- m-	12024	162×12	167×12	167412	167×12	167742		
bi volume collected	plume collabled		Remark: Total v	olume collected (	must be greater t	than total of same	do size required		
tal volume collocted									
	Preservation Method								
nalysis Required and	Preservation Method MRSL Parameters)	Test required	Total of						
stlysis Required and	MRSL Parameters)	(4)	Total of sample size	1	ype of contains	W.	Pre	servation meth	od
Teats (ZDHC)	NRSL Parameters)			1	ype of contains	W	Pre	servation meth	od
Tests (ZDHC I	1. Phthalate 2. Chitrobenzenes	(4)		1	ype of contains	ч	Pre	servation meth	lod
Teats (ZDHC :  Combined test or Inchvious test	1. Phrhaiata 2. Chiorobanzenas, Chiorobanzenas,	(4)	1000 mL total	7	ype of contains	er .	Pre	servation meth	od
Tests (ZDHC I	1. Prohainte 2. Chicrobenzenics, Chicrobenzenics 3. SCCPs	(4)	sample size	1	ype of contains	W.	Pre	servation meth	nod
Tests (ZDHC s  Combined test or Individual test (Remark 4)	1. Phrhaiata 2. Chiorobanzenas, Chiorobanzenas,	(4)	1000 mL total	7	ype of contains		Pre	servation meth	nod
Teats (ZDHC of Combined test or Individual test (Remark 4)	1. Prohainte 2. Chicrobenzenics, Chicrobenzenics 3. SCCPs	(4)	1000 mL total		ype of contains		Pre	servation meth	ned
Teats (ZDHC s  Combined test or Inchidual test (Remark 4)	1. Prohilete 2. Chitroberusenes, Chicrobolusee & PAH 3. SCOPs 4. APS	(1)	1000 mL total or 1000 mL each		Type of contains		Pre	servation meth	nod
Teata (20HC s  Certifined fest or Individual test (Remark 4)  PEOs  Endorpments 8 Cres	1. Prohilete 2. Chitroberusenes, Chicrobolusee & PAH 3. SCOPs 4. APS	(4)	1000 mL total or 1000 mL each		Type of contains		Pre	servation meth	nod
Alvala Required and Teata (ZDHC s Combined test or Individual test (Remark 4) PEOs PEOs Persophisnois 8 Cress lame retardant	1. Prohilete 2. Chitroberusenes, Chicrobolusee & PAH 3. SCOPs 4. APS	(1)	1000 mL total or 1000 mL each		Type of contains				
Teata (ZDHC s  Combined test or Individual test (Remark 4)  PEOs  Perophisance 8 Cress  Isame retardent	1. Prohilete 2. Chitroberusenes, Chicrobolusee & PAH 3. SCOPs 4. APS	(1)	1000 mL total or 1000 mL each		-		w	lithous adding acid	
Alvala Required and Teata (20HC s Combined test or Individual test (Remark 4) PEOs Phorophisnois 8 Cress Name retardant yes	1. Prohilete 2. Chitroberusenes, Chicrobolusee & PAH 3. SCOPs 4. APS	(1)	1000 mL total or 1000 mL each 1000 mL 500 mL 500 mL		Type of contains		w		
Alvala Required and Teata (ZDHC in Teata (ZDHC in Combined test or Individual test (Remark 4) PEOs Pricophienois 8 Cress International yes	1. Prohilete 2. Chitroberusenes, Chicrobolusee & PAH 3. SCOPs 4. APS	(1)	1000 mL total or 1000 mL each 1000 mL 500 mL		-		w	lithous adding acid	
Alvala Required and Teata (ZDHC in Teata (ZDHC in Combined test or Individual test (Remark 4) PEOs Pricophienois 8 Cress International yes	1. Prohilete 2. Chitroberusenes, Chicrobolusee & PAH 3. SCOPs 4. APS	(1)	1000 mL total or 1000 mL each 1000 mL 500 mL 500 mL		-		w	lithous adding acid	
Teata (ZDHC s Teata (ZDHC s Combined test or Individual test (Remark 4)  APEGs Propriencis 8 Criss Personal Personal Personal Personal	1. Prohilete 2. Chitroberusenes, Chicrobolusee & PAH 3. SCOPs 4. APS	E	1000 mL total or 1000 mL each 1000 mL ach 100 mL 500 mL 500 mL		-		w	lithous adding acid	
Teats (ZDHc s Teats (ZDHc s Combined test or Individual test (Remark 4)  APECs Chlorophenois 8 Cress Plama relandant Dyos Phazocides  **Nideosamine**	1. Prohilete 2. Chitroberusenes, Chicrobolusee & PAH 3. SCOPs 4. APS	(S)	1000 mL total or 1000 mL 100 mL 1000 mL		-		w	lithous adding acid	
Teats (ZDHC s  Combined test or Inchistrual test (Remark 4)  APEOs  Chlorophenois 8 Cras Flame retardent Dyes  Orycos  *Postoides  *Nicosamine  Bannad Azodyes	1. Pirthalate 2. Chitrobergene, Chiorotolusne & PAH 3. SCCPs 4. AP\$	2	1000 mL total or 1000 mL total or 100 mL 100 mL 500 mL 100 mL 100 mL 100 mL		-		w	lithous adding acid	
Teats (ZDHC s Teats (ZDHC s Combined test or Individual test (Remark 4)  APECs Chlorophenois 8 Cress Plama relandant Dyos Physicides  Nicossmine	1. Pirthalate 2. Chitrobergene, Chiorotolusne & PAH 3. SCCPs 4. AP\$	E	1000 mL total or 1000 mL 100 mL 1000 mL		-		w	lithous adding acid	
Teata (ZOHC s Teata (ZOHC s Combined test or Individual test (Remark 4)  APECs Chlorophenois 8 Cress Flame relandant byes Persocioes Wideosamine Bennad Azodyes	1. Pinhalate 2. Chitrobenzene, Chioretoluene & PAH 3. SCCPs 4. APS ots consenses	2	1000 mL total or 1000 mL each 1000 mL 500 mL		-		w	lithous adding acid	
Teata (ZDHc s Teata (ZDHc s Combined test or o	I. Pirchalate C. Chitrobenzenea, Chioretoluene & PAH S. SCCPs A.APS  d. amines c. amines	2	1000 mL total or 1000 mL each 100 mL 500 mL 1000 mL 500 mL		-	Nic ocid.	VV 500	ithou i adding mad re tarryle ut 2,8°C	
Teata (ZDHc s Teata (ZDHc s Combined test or o	I. Pirchalate C. Chitrobenzenea, Chioretoluene & PAH S. SCCPs A.APS  d. amines c. amines	2	1000 mL total or 1000 mL each 1000 mL 500 mL	Armer Ols	-	this acid.	W 5to	ithou i adding mad re tarryle ut 2,8°C	C S od 7 wh



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Tests (Conv Combined test		(COM	RECORD OF POSITE / IN	N ZERO DISCHARGE SAMPLE DIVIDUAL SAMPLING)	Issue Date: Version No.: 16
Combined test					Business Line: Analytical
	rentional Parameters)	Test required	Total of sample		
Individual test	17. Total suspened solids (TSS) 18. Total dissolved solids	(8)	size 2000 mL total or	Type of container	Preservation method
(Remark 4)	[(TDS)		2000 mL each	Antherope	Without adding acid
19. 5-day Blochemical	l Oxygen Demand (BOD5)		1000 mL	Amber Glass, washed with nitric acid.	Store sample at 2-8°C
20. Colour	- 09		100 mL	·	,1800
<ol> <li>Heavy Meters exce</li> </ol>	ept Cr(VI) & Total-P (Remark	~	9 mL	PE, washed with nutric acid	
22. Cyanide		~	500 mL	7	Addity to pH 2 with HNO <sub>3</sub> and store at 2-8°C  Adjust pH 12 with 50% NaOH, add 0.05 ml of 10%
23. Cr(VI)				Amber Glass, washed with posticide grade acetone	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , and store admple at 2.5°C.  Filter by 0.45µm filter in field, fill to full container
	County Consession		95 mL		without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer, Store sample at 2-8°C
24. Chemical oxygen d	demand (COD)		150 mL		Artig parible at 5-0.0
25. Phenois			500 mL	Amber Glass; washed with nitric acid	Acidity to pH 2 with H <sub>2</sub> SO <sub>4</sub>
26. Oil and Greese & T	Fotal Hydrocaroon		1000 mL	Į.	Store sample at 2-8°C
7. *Formaldehyde		×	25 mL		Fill to full container without air gap; acidity to pH 2 with
28. Sulfide (Remark 5)				PE, washed with pesticide	H <sub>2</sub> SO <sub>4</sub> and store sample at 2-8°C Fitt to full container without air gap; add 2 arops of 2M
			50 mL	grade Acetone;	zinc acetate, adjust pH to 9 with SM NaOH Store sample at 2-8°C
29. Total Coliform (Rem	nark 6)	_ I	125 mL	PE, clean, sterile,	Add 0.1 ml of 10% Na2,20 <sub>3</sub> ,keep in dark
0.E.coli (Remark 6)		*	125 mL	non-reactive	Store sample at 2-8°C
1. Persistent foam			N.A.	Foam higher than 45 cm (visus	all estimation): Yes / Ne
2. Sulfite			100 mL	Amber Chass, washed with pasticide grade acetone	Add ImL of 2.5% EDTA
3. Total-N			100 mL	- The second	Store sample at 2-8°C
4. Ammonium-N			500 mL		Acidify to pH 2 with H <sub>2</sub> SO <sub>4</sub> Store sample at 2-8°C
5. Adisorbable organic:	ally bound halogens (AOX)		100 mL	8 8	100000000000000000000000000000000000000
6. Acute aquatic loxicit uminus Bacteria; Fish I	tv:	$\top$	1000 mL	Amber Glass; washed with olinic acid;	Acidify to pH 2 with HNO <sub>3</sub> and atore at 2-8°C
7. Sulphate	16.		100 mL		Without adding acid
8. Chloride			100 mL	.55	Store sample at 2-5°C
9. Others:			Banks Mari		
bservation/ Remark:					
Remarks: Individual sampling cai The minimum samplin	ather industry. Parameter 1-9, 1	19-26, 28, 29, 3 2, 14-21, 23-26, 3 - 26, 28, 33-36	1-35 28, 30, 31, 33, 34		
Scope of synthetic lea Scope of MMCF: Free primary aromatic Refer to CPSD-AN-000 Refer to CPSD-AN-000	0570-MTHD for additional pretr	ose CPSD lest o ealment of sulfid	sapability inside T se if only disant/o	scope of ZDHC Guidline, they are tested upon re CD matrix can perform the combined test d sulfide is required to be tasted.	quest,
Scope of synthetic leas Scope of MMCF: Free primary aromatic Refer to CPSD-AN-CO Refer to CPSD-AN-CO Refer to CPSD-AN-CO	amine, pesticides, nitrosamine 20019-STIPO1, loactions with th 0570-MTHD for additional pretr 2613-MTHD for preparation of fi	ose CPSD lest o ealment of sulfid eld blank for spe	sapability inside T se if only disant/o	CD matrix can perform the complement to a	quest.
Scope of synthetic lea Scope of MMCF: Free primary aromatic Refer to CPSD-AN-000 Refer to CPSD-AN-000	amine, pesticides, nitrosamine  00019-STIPO1, loadions with th  0570-MTHD for additional pretr  0613-MTHD for preparation of fi	ose CPSD lest o ealment of sulfid eld blank for spe	sapability inside T se if only disant/o	CD matrix can perform the combined test. d suffide is required to be tested.	guest. 30: 03:22
Scope of synthetic leas Scope of MMCF: Free primary aromatic Refer to CPSD-AN-CO Refer to CPSD-AN-CO Refer to CPSD-AN-CO	amine, pesticides, nitrosamine 20019-STIPO1, loactions with th 0570-MTHD for additional pretr 2613-MTHD for preparation of fi	ose CPSD lest o ealment of sulfid eld blank for spe	sapability inside T se if only disant/o	CD matrix can perform the combined test. d suffide is required to be tested.	
Scope of synthetic lea Scope of MMCF: Free primary aromatic Refer to CPSD-AN-GO Refer to CPSD-AN-GO Refer to CPSD-AN-GO	amine, pesticides, nitrosamine  00019-STIPO1, loadions with th  0570-MTHD for additional pretr  0613-MTHD for preparation of fi	ose CPSD lest o ealment of sulfid eld blank for spe	sapability inside T se if only disant/o	CD matrix can perform the combined test. d suffide is required to be tested.	



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4760										
(3/8)	ME 18 110 - 18 1 1 1 1 1 1 1 1				nirennomen.			CPSD-AN-C	0613-DATA 0	1
(製)	, , FI	ELD DATA	RECORD O	N ZERO DIS	CHARGE S	SAMPLE		Issue Date:		
BERLINEY O		(COM	POSITE / IN	IDIVIDUAL	SAMPLING			Version No		
								Business L	ine: Analytical	
General Data			/	10000	21.0					
Laboratory Sample Nu	mbar:		(	682	U/ 070	0 -0	416			
Client Name;				<u> </u>			710		_	
Field Contact Person:		00-1		E-T					_	
Project (Facility Name	and Address	Passau	CHAM BO	fat atile Ud	Phone Not O	1 100-4	3 3725			
Sampling Location / De		OTO	awnt le	atthe Ltd	, Sreep	UR, GAZI	ρυπ.		_	
Sample Identification			Outlet						_	
			with sampling p						_	
Sample Type:		Composit Sar	rple / Grab samp	ole (Please delete	as appropriate)					
Name of Sampler:		Md Ma	sud Rani	Λ						
Discharge mode:		Direct disabergs	to anvironment (8	(#6ify destination;	Siver, See, Stream	) OR Indinat d	scharge to sewage	incatment plant	gout-dr	zain)
Date of collection:		30.03.2	.2							
Factory Type:		Dygirti/ Prints	g√Washing / Fi	nishing T Others (	please specify):				_	
			e selected more th						-	
Field Data for Wastern	ovier									
Arrival Time:		12.00		Departure Time		18.15		1		
Field Parameters	Field Parameters			Temp: 34	1_ 10	Color: Re	ddish	Flow rate :	(volume/min)	1
Control No. of field equi	ontrol No. of field equipment sclory with efficient incomment plant:					100			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1
Factory with effluent inc				Yes				<u></u>		1
			Incoming water					No		4
Sumple matrix:										1
	po sant.		Westewater be							
Sampler container num		24	Wastewater aft	er treatment – wa	ter al discharge	point				
peripier container rain	Dev	24		-						ĺ
		1	2	3	4	5	6	7	8	
Recording time	ID ,									
	Time	15.30	13.30	14.30	15.30	16.30	17.30			ĺ
pH:		7.4	7.5	7.2	7.1	6.9	7.0			
Temp (°C) :		34.2	34.4	31.3	32.4	32.6	33-3		1	
Color (visual estimation	ì	Reddish	Reddish	Reddish	Reddish	Reddish	Reddish .			
Flow rate (volume/time)	m3/h	140	134	137	125	105	120			
Valume callested, nl.		167724	167724		142×24	167724	147724		<b>+</b>	Į.
Total volume collected	mL	24048	Remark: Total v	rolume collected	nust be greater	han total of sam				
										ĺ
Analysis Required and										
Tests (ZBHC	MRSL Parameters)	Test required (v)	Total of sample size	, ,	ype of contains	ır	Preservation method			
	1. Phthalate	1.6	,				-			
Combined test	2. Chiorobororenes,		-							
or	Chlorotoluene & PAH	~	1000 mL total							
(Remark 4)	3. SCCPs	~	1000 mL each							
	4. APS	~		1					.	
5. APEQa		-		-						
S. APLOI		~	100 mL				l			
6. Chiarophenois & Cres	śols	~	100 mL						-	
7. Flame retardant		~	5CO mL							
								Althout edding as		
A. Dyes		-	10 mL	Amber Gr	ass, woohed with o	vitrie acid,	8	tore semple at 2-8	rG	
9. Glycol		~	50 mL							
10. 'Pesticides		*	1000 mL							
11. *Nimsamine		*	10 mL							
12. Sanned Azodyes		-	2000 mL	1						
13. *Free primary aroma	dic aminas								ĺ	
		×	500 mL							
14. Organotin Compount	ds	/	500 mL						ļ	
15, VOC & Halogensted	Solvents (Remark 8)	~	10 mL				Fill to full contains	rwithout air gag:	scidify to pi+ 2 with	
16. PFCa (Remark 6)			2 mL	PE.	washed with posts	cide	HCler	no stone sample at	3-9°C	
,	DATA SA BIEL BORRER BOTO	· ·	a ITE.		grade Acatona		Without adding soid Store sample of 2-8°C			



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3/3/2017 V 919 HAPPEN STATE		LD DATA (CON	RECORD OF	VZERO DISCHARGE SAMPLE DIVIDUAL SAMPLING)	CPSD-AN-00613-DATA 04 Issue Date: Version No.: 16		
					Business Line: Analytical		
Tests (Conv	rentional Parameters)	Test required	Total of sample				
Combined test	17. Total suspened solids	(v)	size	Type of container	Preservation method		
or Individual test (Remark 4)	(TSS) 15. Total dissolved solids (TDS)	~	2000 ml, total or 2000 ml, each	Will all and the control of the cont			
19, 5-day Biochemica	1 Oxygen Demand (8OD5)	1000 mL		Amber Glass, washed with nitric acid,	Without aciding acid Store sample at 2-8°C		
29. Colour		_	100 mL	*	8 P		
21. Heavy Metals exci	ept Cr(VI) & Total-P (Remark	~	9 mL PE, washed with nitric acid				
22. Cyanide	**************************************	~	500 mL	Amber Glass, washed with posticide grade acctone	Acidify to pH 2 with HNO <sub>3</sub> and store at 2-8°C  Adjust pH 12 with 50% NaOH, add 0,05 mi of 10%  Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , and store sample at 2-8°C		
23. Cr(Vi)	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1		95 mL	<del></del>	Filter by 0.45km filter in field, fill to full container		
24. Chemical oxygen o	demand (COD)				without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer. Store sample at 2-8°C		
25. Phenois	- V		150 mL Amber Glass: washed with nit		Actifity to pH 2 with H <sub>2</sub> SO <sub>4</sub>		
26. Dil and Grease &	Total Hydrocarbon			A STATE STATES, WESTER WITH CHITCHES	Store sample at 2-8°C		
27. *Formaldehyde		*	1000 mL		Finds & D		
		↑ 25 mL			Fill to full container without air gap; acidify to pH 2 with H <sub>2</sub> 8O <sub>4</sub> and store sample at 2-6°C		
28, Sulfide (Remark 5)		~	50 mL	PE, washed with pesticide grade Acetone:	Fill to full container without air gap; add 2 drops of 2M zinc scetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C		
29. Total Coliforn (Rei	mark 6)	125		PE, clean, sterile,	Add 0.1 ml of 10% Na2 <sub>s</sub> 2O <sub>a</sub> keep in dark		
30.E.coli (Remark 6)	/ VEYS	*	125 mL	non-reactive	Slove sample at 2-8°C		
31. Persistent foem		~	N.A.	Foam higher than 45 cm (visc	ual estimation): Yea / No		
32. Sulfite		_	100 mL	Amber Glass, washed with pesticide grade actions	Add 1mL of 2.5% EDTA Store sample at 2-8°C		
33. Total-N		v	100 mL		Acidify to pH 2 with H <sub>2</sub> SO <sub>4</sub>		
34. Ammonium-N	- 12- 200	~	500 mL	\$6	Store sample at 2-8°C		
5. Adsorbable organic	cally bound halogens (AOX)	~	100 mL	31	Acidity to pH 2 with HNO <sub>3</sub> and store at 2-8°C		
96. Acute aquatic toxic uminus Bacteria; Fish	ity: : Egg; Daphne; Alaga;	1	1000 mL	Amber Gless; washed with nitric acid;			
7 Sulphate		1-	100 mL		Without adding sold		
i8. Chloride			100 ml,	Store sample at 2-8°C			
9. Others:	**	-		***************************************			
Observation/ Remark:					4 4		
The minimum sampli Scope of ZDHC guid Scope of synthetic le Scope of MMCF, Free primary aromati Refer to CPSD-AN-G Refer to CPSD-AN-O	lotine: Parameter 1-9, 12, 14-17 partner industry: Parameter 1-9, Parameter 5, 15, 17, 19-21, id amine, pesticides, nitrosamin 500019-STIP01, loactions with t	, 19-26, 28, 29 12, 14-21, 23-2 23 - 26, 28, 33- e and formaids hose CPSD tes treatment of su	, 31-35 6, 28, 30, 31, 33, 3 36 hyde are not in the t capability inside lifide if only dissolv	escope of ZDHC Guidine, they are tested upon a TCD matrix can perform the combined test, ad sulfide is required to be tested.			
	md. Masud			39	VA/2014D. 4 8		
market diam	Tita Litator	LANCE		Date	30.13.22		
ecorded by:	Full appear						