

# TEST REPORT

**Technical Report:** (6821)279-0203 October 19, 2021

Date Received: October 05, 2021 Page 1 of 21

Factory Company Name: Square Denims Ltd.

Factory Address: Olipur, Shayestaganj, Habiganj, 3301, Bangladesh.

Client Reference No.: Sel

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

I002) Treated Wastewater - 6 hours Time - weighted Composite

Sample Pick Up Date: October 05, 2021 Discharge Type: Direct Discharge

On-Site Effluent Treatment Plant

(ETP):

Yes

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

applicable):

Not Applicable

Test Period: October 06, 2021 To October 19, 2021

Sample Description:

I001) Black color liquid - Raw Wastewater I002) Brownish color liquid - Treated Wastewater

#### REMARK

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

General enquiry Mr. Sharan Roy, Mail: sharan.roy@bureauveritas.com

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Technical enquiry-Chemical Mr. M. Nur Alam, Mail: nur.alam@bureauveritas.com

This report shown the test result of the auxiliary chemical and/or raw material samples, which collected during particular factory audit. The results of this report shall not be used for any regulatory compliance purposes.

BUREAU VERITAS CONSUMER PRODUCTS SERVICES (BANGLADESH) LTD.

MD. RASHEDUL HAQUE MANAGER, RSL OPERATIONS

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 This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at http://www.bureauveritas.com/nom/aboutus/su/r-business/cps/about-us/lemps-conditions/ain intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the

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



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# **Executive Summary**

1A) Conventional Parameters	I001	1002
Temperature		
TSS		
COD		
Total-N		
pH Value		
Color [m <sup>-1</sup> ] (436nm; 525nm; 620nm)		
BOD <sub>5</sub>		
Ammonium-N		
Total-P	NR	
AOX		
Oil and Grease		
Phenol		
Coliform		
Persistent 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

ZDHC MRSL Substances	I001	I002
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, 1) Raw Wastewater and 2) Treated 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	35.3 (Treated Wastewater) 31.8 (receiving body)  ▲ 3.5 (Aspirational)	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 ALPA 2540D, GB 11901, ISO 11923

Tested Item(s)	Result	Unit	Conclusion
I002	10 (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 : Reference to ALPA 5220B & EPA 410.3, HJ 828

Tested Item(s)	Result	Unit	Conclusion
I002	35 (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	12.10 (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 ISO 10523, EPA 150.2 and APHA 4500-H<sup>+</sup>

-	Unit	Result	
Test Item(s)	-	I002	
Parameter	-	-	
Temp. of sample	deg. C	23.2	
pH value of sample	-	8.1 (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** : ISO 7887: 2011(E), B

Tested Item(s)	Result	Unit	Conclusion
I002	6.6; 3.7; 2.6 (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
I002	10 (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

Tested Item(s)	Result	Unit	Conclusion
I002	0.35 (Aspirational)	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	0.15 (Progressive)	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 IHM - TTI/A-98 (Based on ISO 9562)

Tested Item(s)	Result	Unit	Conclusion
I002	0.40 (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	1.2 (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** : APHA 5530 C

Tested Item(s)	Result	Unit	Conclusion
I002	<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** : Reference to ISO 9308-1: 2014

Tested Item(s)	Result	Unit	Conclusion
I002	128 (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:

 $mg/L = milligram \ per \ liter \qquad \qquad ND = Not \ Detected$ 

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	0.12 (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
I002	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;	0.002	0.003
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.01 mg/L		
Chromium( Cr ), total		
Foundational Limit: 0.2 mg/L;	0.041	0.013
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;	ND	0.008
Progressive Limit: 0.5 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.25 mg/L		
Nickel (Ni)		
Foundational Limit:.0.2 mg/L;	ND	ND
Progressive Limit: 0.1 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.05 mg/L		
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;	0.366	ND
Progressive Limit: 1 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.5 mg/L		
Arsenic (As)		
Foundational Limit: 0.05 mg/L;	0.002	0.002
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)	0.004	NE
Foundational Limit:0.1 mg/L;	0.004	ND
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.01 mg/L		
Mercury (Hg)	ND	NID
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 )	ND	NE
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 (μg/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.).
- All results are in ppb as unit.
- ppm = part(s) per million; ppb = part(s) per billion.
- NR Not Requested / Not required
- N/A Not Applicable



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

I001) Sampling Point (GPS Location: N 24° 22' 59.88"; E 91° 25' 0.12")



I001) Sampling Point Surrounding Environment (GPS Location: N 24° 22' 59.88"; E 91° 25' 0.12")



I001) All sampled bottles with label



I001) pH value



I001) Sample for Phthalate Testing



I001) Packaging





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

I002) Sampling Point (GPS Location: N 24° 22' 59.88"; E 91° 25' 0.12")



I002) Sampling Point Surrounding Environment (GPS Location: N 24° 22' 59.88"; E 91° 25' 0.12")



I002) All sampled bottles with label



I002) pH value



I002) Sample for Phthalate Testing



I002) Packaging





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# APPENDIX B

			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/( ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
	Nonylphenol NP, mixed isomers	Various (incl. 104-40-5, 11066-49-2, 25154-52-3, 84852-15-3)	5	0.4	NP/OP: ISO 18857-2 (modified dichloromethane
2A. Alkylphenol (AP) and	Octylphenol OP, mixed isomers	Various (incl. 140-66-9, 1806-26-4, 27193-28-8)	5	0.4	extraction) or ASTM D7065 (GC/MS or LC/MS(-MS)
Alkylphenol Ethoxylates (APEOs): including all isomers	Octylphenol ethoxylates (OPEO)	Various (incl. 9002-93-1, 9036-19-5, 68987-90-6)	5	0.4	OPEO/NPEO: ISO18857-2 or ASTM D7065(LC/MS; GC/MS
	Nonylphenol ethoxylates (NPEO)	Various (inc. 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0)	5	0.4	or LC/MSMS for n=1,2) APEO 1-18
	Monochlorobenzene	108-90-7	0.2	0.2	
	1,2-Dichlorobenzene	95-50-1	0.2	0.2	
	1,3-Dichlorobenzene	541-73-1	0.2	0.2	
	1.4-Dichlorobenzene	106-46-7	0.2	0.2	
	1,2,3-Trichlorobenzene	87-61-6	0.2	0.2	
	1,2,4-Trichlorobenzene	120-82-1	0.2	0.2	
	1,3,5-Trichlorobenzene	108-70-3	0.2	0.2	
	1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	0.2	
	1,2,3,5-Tetraclorobenzene	634-90-2	0.2	0.2	
	1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	0.2	
	Pentachlorobenzene	608-93-5	0.2	0.2	
	Hexachlorobenzene	118-74-1	0.2	0.2	
	2-Chlorotoluene	95-49-8	0.2	0.2	
	3-Chlorotoluene	108-41-8	0.2	0.2	USEPA 8260B,8270D.
2B. Chlorobenzenes	4-Chlorotoluene	106-43-4	0.2	0.2	Dichloromethane
and Chlorotoluenes	2,3-Dichlorotoluene	32768-54-0	0.2	0.2	extraction followed by
	2,4-Dichlorotoluene	95-73-8	0.2	0.2	GC/MS
	2,5-Dichlorotoluene	19398-61-9	0.2	0.2	
	2,6-Dichlorotoluene	118-69-4	0.2	0.2	
	3,4-Dichlorotoluene	95-75-0	0.2	0.2	
	3,5-Dichlorotoluene	25186-47-4	0.2	0.2	
	2,3,4-Trichlorotoluene	7359-72-0	0.2	0.2	
	2,3,6-Trichlorotoluene	2077-46-5	0.2	0.2	
	2,4,5-Trichlorotoluene	6639-30-1	0.2	0.2	
	2,4,6-Trichlorotoluene	23749-65-7	0.2	0.2	
	3,4,5-Trichlorotoluene	21472-86-6	0.2	0.2	
	2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	0.2	
	2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	0.2	
	2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	0.2	
	Pentachlorotoluene	877-11-2	0.2	0.2	
2C. Chlorophenols	2-Chlorophenol	95-57-8	0.5	0.05	USEPA 8270 D
20. Chrotophenois	3-Chlorophenol	108-43-0	0.5	0.05	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	0.05	derivatisation with
	2,3-Dichlorophenol	576-24-9	0.5	0.05	KOH, acetic anhydride
	2,4-Dichlorophenol	120-83-2	0.5	0.05	followed by GC/MS
	2,5-Dichlorophenol	583-78-8	0.5	0.05	
	2,6-Dichlorophenol	87-65-0	0.5	0.05	
	3,4-Dichlorophenol	95-77-2	0.5	0.05	
	3,5-Dichlorophenol	591-35-5	0.5	0.05	
	2,3,4-Trichlorophenol	15950-66-0	0.5	0.05	
	2,3,5-Trichlorophenol	933-78-8	0.5	0.05	
	2,3,6-Trichlorophenol	933-75-5	0.5	0.05	
	2,4,5-Trichlorophenol	95-95-4	0.5	0.05	
	2,4,6-Trichlorophenol	88-06-2	0.5	0.05	
	3,4,5-Trichlorophenol	609-19-8	0.5	0.05	
	2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	0.05	=
	2,3,4,6-Tetrachlorophenol	58-90-2	0.5	0.05	
	2,3,5,6-Tetrachlorophenol	935-95-5	0.5	0.05	
	Pentachlorophenol (PCP)	87-86-5	0.5	0.05	
	4,4`-Methylene-bis-(2-chloro-aniline)	101-14-4	0.1	0.2	
	4,4'-methylenedianiline	101-77-9	0.1	0.2	
	4,4`-Oxydianiline	101-80-4	0.1	0.2	
	4-Chloroaniline	106-47-8	0.1	0.2	
	3,3`-Dimethoxybenzidine	119-90-4	0.1	0.2	
	3,3`-Dimethylbenzidine	119-93-7	0.1	0.2	
	6-methoxy-m-toluidine (p-Cresidine)	120-71-8	0.1	0.2	
	2,4,5-Trimethylaniline	137-17-7	0.1	0.2	
	4,4`-Thiodianiline	139-65-1	0.1	0.2	
	4-Aminoazobenzene	60-09-3	0.1	0.2	
2D. Dyes - Azo	4-Methoxy-m- phenylenediamine	615-05-4	0.1	0.2	EN 14362. Reduction step with
(Forming Restricted Amines)	4,4`-Methylene-di-o-toluidine	838-88-0	0.1	0.2	Sodiumdithionite, solvent extraction,
,	2,6-Xylidine	87-62-7	0.1	0.2	GC/MS or LC/MS
	o-Anisidine	90-04-0	0.1	0.2	
	2-Naphthylamine	91-59-8	0.1	0.2	
	3,3`-Dichlorobenzidine	91-94-1	0.1	0.2	
	4-Aminodiphenyl	92-67-1	0.1	0.2	
	Benzidine	92-87-5	0.1	0.2	
	o-Toluidine	95-53-4	0.1	0.2	
	2,4-Xylidine	95-68-1	0.1	0.2	
	4-Chloro-o-toluidine	95-69-2	0.1	0.2	
	4-Methyl-m- phenylenediamine	95-80-7	0.1	0.2	
	o-Aminoazotoluene	97-56-3	0.1	0.2	1
	5-nitro-o-toluidine	99-55-8	0.1	0.2	†
	C.I. Direct Black 38	1937-37-7	500	10	
	C.I. Direct Blue 6	2602-46-2	500	10	1
2E. Dyes-	C.I. Acid Red 26	3761-53-3	500	10	†
Carcionogenic or	C.I. Basic Red 9	569-61-9	500	10	Liquid Extraction
Equivalent Concern	C.I. Direct Red 28	573-58-0	500	10	LC/MS
1	C.I. Basic Violet 14	632-99-5	500	10	†
	C.I. Disperse Blue 1	2475-45-8	500	10	



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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
	C.I. Disperse Blue 3	2475-46-9	500	10	
	C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	500	10	
	C.I. Basic Green 4 (malachite green chloride)	569-64-2	500	10	
	C.I. Basic Green 4	2437-29-8	500	10	
	(malachite green oxalate) C.I. Basic Green	10309-95-2	500	10	
	4(malachite green)			10	
	Disperse Orange 11	82-28-0	500	10	
	Disperse Yellow 1 Disperse Blue 102	119-15-3 12222-97-8	50	2	
	Disperse Blue 106	12223-01-7	50	2	
	Disperse Yellow 39	12236-29-2	50	2	
	Disperse Orange 37/59/76	13301-61-6	50	2	
	Disperse Brown 1	23355-64-8	50	2	
	Disperse Orange 1	2581-69-3	50	2	
	Disperse Yellow 3	2832-40-8	50	2	Liquid Extraction LC/MS
AE D II	Disperse Red 11	2872-48-2	50	2	
2F. Dyes-disperse	Disperse Red 1	2872-52-8	50	2	
(sensitizing)	Disperse Red 17	3179-89-3	50	2	
	Disperse Blue 7	3179-90-6	50	2	
	Disperse Blue 26	3860-63-7	50	2	
	Disperse Yellow 49	54824-37-2	50	2	
	Disperse Blue 35	12222-75-2	50	2	
	Disperse Blue 124	61951-51-7	50	2	
	Disperse Yellow 9	6373-73-5	50	2	
	Disperse Orange 3	730-40-5	50	2	
	Disperse Blue 35	56524-77-7	50	2	
	Tris(2-chloroethyl) 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	
26 5	Bis(2,3-dibromopropyl) phosphate (BIS/BDBPP)	5412-25-9	5	1	ISO 22032, USEPA527 and USEPA8321B.
2G. Flame Retardants	Tris(aziridinyl)- phosphineoxide (TEPA)	545-55-1	5	1	Dichloromethane extraction GC/MS or
	Polybromobiphenyls (PBBs)	59536-65-1	5	1	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	



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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		
	Short chain chlorinated paraffins (SCCPs) (C10-C13)	85535-84-8	5	1			
	Bis(2-methoxyethyl)-ether 2-ethoxyethanol 2-ethoxyethyl acetate	111-96-6 110-80-5 111-15-9	50 50 50	10 10 10			
All Clauses	Ethylene glycol dimethyl ether	110-71-4	50	10	US EPA 8270		
2H. Glycols	2-methoxyethylacetate	109-86-4 110-49-6	50 50	10 10	Liquid Extraction LC/MS		
	2-methoxypropylacetate Triethylene glycol dimethyl ether	70657-70-4 112-49-2	50	10			
2I. Halogenated	1,2-Dichloroethane Methylene Chloride	107-06-2 75-09-2	1 1	2 2	USEPA 8260B Headspace GC/MS or		
Solvents	Trichloroethylene Tetrachloroethylene Mono-, di- and tri-	79-01-6 127-18-4	1	2	Purgeand-Trap-GC/MS		
	methyltin derivatives  Mono-, di- and tri-butyltin	Multiple  Multiple	0.01	0.2	ISO 17353		
2J. Organotin Compounds	derivatives  Mono-, di- and tri-phenyltin derivatives	Multiple	0.01	0.2	Derivatisation with NaB(C2H5) GC/MS		
	Mono-, di- and tri-octyltin derivatives Perfluorooctanesulfonic	Multiple	0.01	0.2			
	acid (PFOS)  Perfluoro-n-octanoic acid	1763-23-1 335-67-1	0.01	0.10	DIN 38407-42 (modified) Ionic PFC:		
2K. Perfluorinated and Polyfluorinated	(PFOA) Perfluorobutanesulfonic acid (PFBS)	29420-49-3, 29420-43-3	0.01	0.10	Concentration or direct injection, LC/MS(-MS);		
Chemicals (PFCs)	Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	0.01	0.10	Non-ionic PFC (FTOH): derivatisation with acetic anhydride,		
	8:2 FTOH 6:2 FTOH	678-39-7 647-42-7	1	1	followed by GC/MS		
	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	10	2			
	Dimethoxyethyl phthalate (DMEP) Di-n-octyl phthalate	117-82-8	10	2			
	(DNOP)  Di-iso-decyl phthalate	117-84-0 26761-40-0	10	2			
2L. Phthalates (including all other	(DIDP) Di-iso-nonyl phthalate (DINP)	28553-12-0	10	2	US EPA 8270D, ISO 18856		
esthers of phthalic acid)	Di-n-hexyl phthalate (DnHP)	84-75-3	10	2	Dichloromethane extraction GC/MS		
	Dibutyl phthalate (DBP) Butyl benzyl phthalate	84-74-2 85-68-7	10 10	2 2			
	(BBP) Dinonyl phthalate (DNP) Diethyl phthalate (DEP)	84-76-4 84-66-2	10	2 2			
	Di-n-propyl phthalate (DPRP)	131-16-8	10	2			



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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
	Di-iso-butyl phthalate (DIBP)	84-69-5	10	2	
	Di-cyclohexyl phthalate (DCHP)	84-61-7	10	2	
	Di-iso-octyl phthalate (DIOP)	27554-26-3	10	2	
	1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP)	68515-42-4	10	2	
	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	10	2	
	Benzo[a]pyrene (BaP)	50-32-8	1	0.2	
	Anthracene	120-12-7	1	0.2	
	Pyrene	129-00-0	1	0.2	
	Benzo[ghi]perylene	191-24-2	1	0.2	
	Benzo[e]pyrene	192-97-2	1	0.2	
	Indeno[1,2,3-cd]pyrene	193-39-5	1	0.2	
	Benzo[j]fluoranthene	205-82-3	1	0.2	
2M Dales Anomatic	Benzo[b]fluoranthene	205-99-2	1	0.2	DIN 29407 20
2M. Poly Aromatic	Fluoranthene	206-44-0	1	0.2	DIN 38407-39 Solvent extraction GC/MS
Hydrocarbons (PaHs)	Benzo[k]fluoranthene	207-08-9	1	0.2	
(ганѕ)	Acenaphthylene	208-96-8	1	0.2	GC/MS
	Chrysene	218-01-9	1	0.2	
	Dibenz[a,h]anthracene	53-70-3	1	0.2	1
	Benzo[a]anthracene	56-55-3	1	0.2	1
	Acenaphthene	83-32-9	1	0.2	1
	Phenanthrene	85-01-8	1	0.2	-
	Fluorene	86-73-7	1	0.2	1
	Naphthalene	91-20-3	1	0.2	1
	Benzene	71-43-2	1	2	
2N. Volatile	Xylene	1330-20-7	1	2	ISO 11423-1
Organic Compound	o-cresol	95-48-7	1	2	Headspace- or Purge-
(VOCs)	p-cresol	106-44-5	1	2	and-Trap-GC/MS
( , , , , , , , , , , , , , , , , , , ,	m-cresol	108-39-4	1	2	
			1	-	
	Temperature	_	N/A	N/A	A
	TSS	_	N/A	N/A	Apply the standard methods that best apply
	COD	_	N/A	N/A	to the region (ISO, EU,
	Total-N	_	N/A	N/A	US, China), please refer
	pH	1_	N/A	N/A	to ZDHC Wastewater
	Color [m <sup>-1</sup> ] (436nm;				Guidelines for more
	525nm; 620nm)	_	N/A	N/A	details on the testing
1A. Conventional	BOD5	_	N/A	N/A	method and the levels
Parameters	Ammonium-N		N/A	N/A	(Foundational,
	Total-P	<del>-</del>	N/A	N/A	Progressive, and
	AoX	<del>-</del>	N/A	N/A	Aspirational).
	Oil and Grease	<del>-</del>	N/A	N/A	- 120pirumonum).
	Phenol	<b>-</b>	_		Cyanide: With
			N/A	N/A	reference to APHA
	Coliform(bacteria/100ml) Persistent Foam	_	N/A	N/A	4500 CN—B,C&E and
	reisistent foaiii	_	Not	Not	



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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
			visible	visible	followed by UV
	ANIONS	•			analysis
	Cyanide( CN-)	Various (incl. 57-12-5)	0.02	1	
	Sulfide		N/A	N/A	
	Sulfite	_	N/A	N/A	
			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (mg/L) / (ppm)	Sludge (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	please refer 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	2	testing method and the
METALS	Cadmium( Cd )	7440-43-9	0.0001	2	levels (Foundational, Progressive, and
	Chromium VI( CrVI )	18540-29-9	0.001	2	Aspirational).
	Lead( Pb )	7439-92-1	0.001	2	Aspirational).
	Mercury (Hg)	7439-97-6	0.00005	0.2	Cr(VI): Various Solvent extraction and derivatisation followed by UV analysis
3. Conventional Parameters	Dry mass (total solids)	_	N/A	N/A	US EPA 160.3 / 209A

#### 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 [(6821)279-0203] was sub-contracted to India (Testtex India Laboratories Pvt. Ltd) for Coliform, AOX & Total-N Tests.



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

		(COMPOSITE / INDIVIDUAL SAMPLING)							CPSD-AN-00613-DATA 04 Issue Date: Version No.: 15		
110110102.92				ls .					No.: 15 s Line: Analytica		
General Data		(1	0017 0-	10 0	200			The desired	s Line. Analytica		
Laboratory Sample	Number	6	84)21	19-0	203						
Client Name									<u> </u>		
Field Contact Person		Fmax	Kam	mul Trl	can Phone No. 6	51	08373 Faganj				
Project (Facility Nam	ne and Address).	Sauce	me Do	1.MV 17.	I I	017/191	08373				
Sampling Location /	Description	92010	t poin	1 mil	LTd,	Shayes	tagany.	Habig	anj.		
Sample Identification	1:		ge with sampling					0			
Sample Type					ite as appropriate						
Name of Sampler:		A			ite as appropriate	e)					
Discharge mode.				slam							
Date of collection .		0.5	10 environment (	Specify destination	River, Sea, Strea	m) OR Indirect	discharge to sewage	e treatment plant			
Factory Type			10.209								
		*Note: It was to	ing / Washing / F be selected more t	inishing / Others	(please specify)						
Field Data for Waste	ewater	would	we selected more t	han one							
Arrival Time:	Tomer	3:00	nm								
Field Parameters		pH	F 111	Departure Tim			opm				
Control No. of field eq	uinment	pri		Temp ;	°C	Color:		Flow rate :	(volume/min)		
Factory with effluent to	NATIONAL PROPERTY OF THE PROPE	1			- 11				1		
and amuent to	vauvent plant:	/	1	Yes			39	No			
Sample matrix		-	Incoming water				)/(	wa'f.			
sample matrix		/	Wastewater be	fore treatment							
Sampler container num			Wastewater aff	er treatment - w	ater at discharge	point					
container num	nder	12				Lancia de la companya					
	ID	1	2	3.	4	5	6	7	8		
Recording time	Time	3:30gm	4:30pm	r.50	(						
н	-	3.9 m	1			7:30pm	8:30pm	>			
emp (°C)			18.3	9.7	9.6	10.7	10,2				
olor (visual estimation	3)	94.1	45.2	43.4	39.1	90.6	40.2				
low rate (volume/time)	101	Black	Black	Black	Black	Black	Black				
folume collected, mL	p3/h	120	110	140	101	92	111				
otal volume collected		167X 12	167×12	167×12	167×12	167-X12	(67×12				
	Preservation Method		Remark: Total v	olume collected r	nust be greater th	han total of samp	ale size required				
		Test									
Tests (ZDHC	MRSL Parameters)	Test required (v)	Total of sample size	1	ype of container	,	Den	servation meth			
	1. Phthalate	/					-70	-c.vauon meth	100		
Combined test	2. Chlorobenzenes,	_									
or Individual test	Chlorotoluene & PAH		1000 mL total or								
(Remark 4)	3 SCCPs	~	1000 mL each								
	4. APS	/									
APEOs			100						- 1		
Chlorophenols & Cres	rele	~	100 mL								
	iois .		100 mL								
Flame retardant		~	500 mL								
Dyes		/	10 mL	Amb - C		W-00000	Will	hout adding acid			
Glycol				Amper Glas	ss_washed with nitr	nc acid,	atore	sample at 2-8*0			
*Pesticides			50 mL								
*Nitrosamine		×	1000 mL								
Banned Azodyes		K	10 mL								
	ir aminas		2000 mL								
		X	500 mL			+0.7					
*Free primary aromati		~	500 mL								
*Free primary aromati Organotin Compound			500000000000000000000000000000000000000								
*Free primary aromati		1	10 mL		shed with pesticide	Fili	to full container wit HCI and st	hout air gap; ace ore sample at 2-	dify to pH 2 with		



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(59)	FIE	LD DATA	RECORD ON	ZERO DISCHARGE SAMPLE	Issue Date:
IBAUTORESON		(COMI	POSITE / IN	DIVIDUAL SAMPLING)	Version No.: 15
ETABLES				,	Business Line: Analytica
Tests (Conve	ntional Parameters)	Test required (√)	Total of sample	Type of container	Preservation method
Combined test or	17 Total suspened solids (TSS)	+	2000 mL total		
Individual test (Remark 4)	18. Total dissolved solids (TDS)	a	2000 mL each	Amber Glass, washed with nitric acid,	Without adding acid
19. 5-day Biochemical (	Oxygen Demand (BOD5)		1000 mL	All Der Glass, washed with ninc acid,	Store sample at 2-8°C
20 Colour			100 mL		
21 Heavy Metals excep 6)	ot Cr(VI) & Total-P (Remark	~	9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO <sub>3</sub> and store at 2-8°C
22 Cyanide			500 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , and store sample at 2-8°C
23 Gr(VI)		/	95 mL		Filter by 0.45µm filter in field, fill to full container without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer. Store sample at 2-8°C.
24 Chemical oxygen de	emand (COD)		150 mL	1	
25 Phenats			500 mL	Amber Glass; washed with nitric acid	Acidify to pH 2 with H <sub>2</sub> SO <sub>4</sub> Store sample at 2-8°C
26. Oil and Grease & To	otal Hydrocarbon		1000 mL		Store sample at 210 C
27 *Formaldehyde			25 mL		Fill to full container without air gap; acidify to pH 2 wit H <sub>2</sub> SO <sub>4</sub> and store sample at 2-8°C
28 Sulfide (Remark 5)			50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap; add 2 drops of 2N zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C
29 Total Coliform (Rema	ark 6)		125 mL	PE, clean, sterile	
30 Faecal Coliform (Ren	mark 6)		125 mL	non-reactive	Add 0.1 ml of 10% Na2 <sub>5</sub> 2O <sub>3</sub> Store sample at 2-8°C
31 Persistent foam			N.A.	Foam higher than 45 cm (vise	val estimation): Yes / No
32 Sulfite			100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA Store sample at 2-8°C
33 Total-N			100 mL		Acidify to pH 2 with H <sub>2</sub> SO.
34 Ammonium-N			500 mL		Store sample at 2-8°C
35 Adsorbable organica	lly bound halogens (AOX)		100 mL		Acidify to pH 2 with HNO <sub>3</sub> and store at 2-8°C
36. Acute aquatic toxicity Luminus Bacteria, Fish E			1000 mL	Amber Glass; washed with nitric acid,	A0004-000-000-000-000-000-000-000-000-00
37 Sulphate			100 mL		Without adding acid Store sample at 2-8°C
38 Chloride			- 100 mL		Store sample at 2-0 G
39 Others					
Observation/ Remark					

- 2. The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.
- 3 Scope of ZDHC guideline: Parameter 1-9, 12, 14-17, 19-26, 28, 29, 31-35

Scope of synthetic leather industry: Parameter 1-9, 12, 14-21, 23-26, 28, 30, 31, 33, 34, 37, 38

Parameter 5, 15, 17, 19-21, 23 - 26, 28, 33-36

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

- 4. Refer to CPSD-AN-G00019-STIP01, loactions with those CPSD test capability inside TCD matrix can perform the combined test.
- 5 Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tosted.

Recorded by	Aniful Islam	Date: 05,106209
	Full name:	

Comment from factory Acknowledgement by factory

I hereby confirmed that Bureau Veritas has completed the stated sampling activity at captioned date, time and location. All sample(s) is/are collected in desinated

container(s) and without any observation in leakage. Sample(s) collected by Bureau Veritas is/are stored in portable freezer / fridge that is maintained in 1-6°C Signatory of Factory Representative.

Date 05 10 222



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(89)	F	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE						CPSD-AN-00613-D			1
(GHASISANA)		(COMPOSITE / INDIVIDUAL SAMPLING) Version N									
EXCERCEN								100	Line: Analytic	al	1
General Data Laburatory Sample N	umber	(684) 279-0202									1
Dent Name			/ 7	Z (				-			
iela Contact Person		Fnan	Kam	2.11.1	Phone No. /	117116	10027	7			
roject (Facility Name	and Address):	Sava	no Do	nime	Limita	1 66	10837	2	-0.		
ampling Location / C	Description	00	itlet	MARIC	- mile	4 / 50	1ayes 140	ant.	-		
ample Identification.			e with sampling p	lan					- 1 m		
ample Type		Composite Sa	mple / Grab samp	ole (Please delet	e as appropriate				-		
ame of Sampler				Islam					_		
ischarge mode		Direct discharge	to environment (S	pecify destination:	River, Sea. Stream	n) OR Indirect di	ischarge to sewage	treatment plant			
are of collection			10-20-								
actory Type			ng / Weshing / Fi		(please specify):						
		*Note: It would b	e selected more th	an one							
rrival Time:	water	2.00	0.00	l	957			1			
ield Parameters		3:00	P //	Departure Time		9:6	opm				
ontrol No. of field equ	uipment			Temp:	°C	Color		Flow rate :	(volume/mir	n)	
actory with effluent to			,	es			75	l l		-	
	The state of the s		Incoming water					No .	-	-	
mple matrix			Wastewater be							-	
					ater at discharge	point				-	
mpler container num	ber	24							-	-	
	ID	1	2	3	4	5	6	7	8		
cording time	Time	3:30 pm	4:30 pm	5: 30 pm	6:30pm	7.2000	0.340			1	
		8.0	7.8	7.8	7.9		8:30pm			4	
mp (°C)		36.2	35.8	35.5	35.3	34.8	8.0			-	
lor i visuai estimation	1)		bnounish	brownish			39.5 brownish		-		
w rate i volume/time.	m3(h	118	116	105	112	108	104		-	4	
lume collected, mL		167×24	,	167X24	167×24	167×29	167×29			-	
tal volume collected	ml	24,048			must be greater t					-	
alysis Required and	Preservation Method									_	
Tests (ZDHC	MRSL Parameters)	Test required (v)	Total of sample size	1	ype of containe	r	Pre	servation meth	nod		
	Phthalate	V								1	
Combined test	Chlorobenzenes     Chlorotoluene & PAH	~	1000 mL total								
Individual test (Remark 4)	3. SCCPs	~	or 1000 mL each								
	4. APS	~									
PEOs			400								
hiprophenois & Cre			100 mL								
	3913		100 mL								
lame retardant			500 mL				W	fithout adding acid			
)yes		~	10 mL .	Amber Gla	ass,washed with ni	tric acid,	Ste	re sample at 2-6°	c		
Siycol		~	50 mL								
'Pesticides		$\propto$	1000 mL								
*Nitrosamine		~	10 mL								
Banned Azodyes		~	2000 mL								
*Free primary aroma	tic amines	~	500 mL								
Organotin Compound	ds		500 mL								
VOC & Halogenated	Solvents (Remark 6)	~	10 mL			Ī	Fill to full container	without air gap, ac	cidify to pH 2 with		
STATE OF THE STATE			2 mL	PE, w	rashed with pestici		HCI and	store sample at a	2-8°C		
PFCs (Remark 6)					grade Acetone						

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	FIE	LD DATA F	RECORD OF	ZERO DISCHARGE SAMPLE	CPSD-AN-00613-DATA	04
MACHENDONIA		(COM	POSITE / IN	DIVIDUAL SAMPLING)	Version No.: 15	
		-	Г		Business Line: Analytic	cal
	ntional Parameters)	Test required (v)	Total of sample	Type of container	Preservation method	
Combined test or Individual test	17 Total suspened solids (TSS)	/	2000 mL total			
(Remark 4)	18. Total dissolved solids (TDS)	×	2000 mL each	Ambu Classical Ambu C	Without adding seid	
9 5-day Biochemical C	exygen Demand (BOD5)	/	1000 mL	Amber Glass, washed with nitric acid,	Store sample at 2-8°C	
20 Calour		\	100 mL			
1 Heavy Metals excep	t Cr(VI) & Total-P (Remark	~	9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO <sub>3</sub> and store at 2-8°C	-
2. Cyanide		~	500 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , and store sample at 2-8°C	
3 CriVii		~	95 mL		Filter by 0.45µm filter in field, fill to full container	-
4 Chemical oxygen de	mand (COD)	~	150 mL		without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer. Store sample at 2-8°C	
5 Phenois		~	500 mL	Amber Glass; washed with nitric acid	Acidify to pH 2 with H <sub>2</sub> SO <sub>4</sub>	
6. Oil and Grease & Fo	tal-Hydrocarbon-	~	1000 mL		Store sample at 2-8°C	
7. *Formaldehyde	3	×	25 mL		Fill to full container without air gap; acidify to pH 2 w	ith
8. Sulfide (Remark 5)		~	50 mL	PE, washed with pesticide	H <sub>2</sub> SO <sub>4</sub> and store sample at 2-8°C Fill to full container without air gap; add 2 drops of 2	м
9 Total Conform (Rema	irk 6)			grade Acetone;	zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C	
0 Faecai Coliform (Ren			125 mL	PE, clean, sterile, non-reactive	Add 0.1 ml of 10% Na2 <sub>5</sub> 2O <sub>3</sub>	
Persistent foam		×	125 mL		Store sample at 2-8°C	
2. Sulfite			N.A.	Foam higher than 45 cm (visus		
3 Total-N			100 mL	Amber Glass, washed with pesticide grade acetons	Add 1mL of 2.5% EDTA Store sample at 2-8°C	
4 Ammonium-N		~	100 mL		Acidify to pH 2 with H <sub>2</sub> SD <sub>4</sub>	
	ly bound halogens (AOX)	~	500 mL		Store sample at 2-6°C	1
G. Acute aquatic toxicity		,	100 mL	Amber Glass;washed with nitric acid,	Acidify to pH 2 with HNO <sub>3</sub> and store at 2-8°C	
uminus Bacteria, Fish E	gg: Daphne; Alage;		1000 mL	2, 2		
7 Sulphate 8 Chloride		-	100 mL		Without adding acid Store sample at 2-8°C	
9. Others		+	100 mL			
bservation/ Remark		1 1			The state of the s	
The minimum sampling Scope of ZDHC guidel Scope of MMCF Free primary aromatic Refer to CPSD-AN-000 Refer to CPSD-AN-000 Refer to CPSD-AN-000 Recorded by	ne Parameter 1-9 12, 14-17.  Parameter 5, 15, 17, 19-21.  primine, pesticides, nitrosamine, 019-STIPO1, loactions with the other of the other other of the other other of the other o	19-26, 28, 29, 3 2, 14-21, 23-26, 3 - 26, 28, 33-36 a and formaldehy nose CPSD test of realment of sulficield blank for spe-	11-35 28, 30, 31, 33, 3 de are not in the capability inside I de if only dissolve	scope of ZDHC Guidline, they are tested upon re CD matrix can perform the combined test. d sulfide is required to be tested.		
	Full name:					
omment from factory						
knowledgement by factor greby confirmed that Bu ntainer(s) and without ai matory of Factory Repre	reau Veritas has completed the observation in leakage. See essentative	ne stated sampling (e) (s) collected (g) (v) (v) (l) (l) (l) (l) (l) (l) (l) (l) (l) (l	by Bureau Verit	ioned date, time and location. All sample(s) is/are as is/are stored in portable freezer / fridge that is r Date	collected in desinated nantained in 1-8°C	