

Technical Report
Date Received

(8721)198-0210
July 17, 2021

August 03, 2021
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Factory Company Name: SNOW WHITE LAUNDERETTE
Factory Address: #185/A, 11TH MAIN, 3RD PHASE, PEENYA INDUSTRIAL ESTATE, BANGALORE – 560 058.
Project No.: /
Client Reference No.: /
Sampling Method: I001) Raw Wastewater – 6 hours - Time – weighted Composite
I002) Treated Wastewater – 6 hours - Time – weighted Composite
Sample Pick Up Date: July 16, 2021
Wastewater Discharge to: CETP
On-Site Effluent Treatment Plant (ETP): Yes
Discharge Type: Indirect Discharge
Off-site ETP name (if applicable): Bangalore Water Supply and Sewerage Board
Off-site ETP address (if applicable): 5th Floor, Cauvery Bhavan, K G Road, Bangalore-560009
Local Regulation: / AW-309527/918
Ordinance / requirements related to wastewater discharged are followed:
Permit Validation Date: 30/09/2023
Parameters Exceeded Local Regulation: N/A
Legal compliance: N/A
Conventional Parameters: Foundational
Overall Category:
Test Period: July 17, 2021 - July 28, 2021
Sample Description:
I001) Dark blue colour liquid – Raw Wastewater
I002) Clear liquid – Treated Wastewater
Parameters exceeded maximum holding time: N/A

Note: The reporting date delay due to awaited for additional information from customer.

Certificate No. TC-6092 (Pls Refer the website www.nabl-india.org to view the scope of accreditation)

Bureau Veritas Consumer Products Services (I) Pvt. Ltd.
AKR Tech Park, Ground floor,
C Block, Survey no 112,
BANGALORE
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REMARK

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

General enquiry and invoicing

Sunesh.nair@in.bureauveritas.com
080-40701621

Technical enquiry-Chemical

Sudalaimuthu.vs@in.bureauveritas.com
080-40701639

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.

* The sampling is agreed with client.

**BUREAU VERITAS CONSUMER PRODUCTS SERVICES (INDIA) PVT. LTD.
AUTHORIZED SIGNATORIES**

APPROVED BY :

P.Sugumar
Lab Manager - Analytical Services

PREPARED BY:

SJ/MK

(8721)198-0210

Executive Summary

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

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

Note / Key :

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

Objective

The environment samples were tested for below parameters.

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

Sampling Plan

Basically, two environment samples were sampled per factory, including 1) Raw wastewater and 2) Discharged waste water (treated waste water). Total number of sample collected will be depended on the actual factory facilities and manufacturing processes.

Method of sampling used is time-weighted composite grab samples (agreed with client.). Composite sampling shall be performed for no less than six hours, with no more than one hour between discrete samples. Each discrete sample shall be of equal volume. Wastewater and freshwater samples should, as much as possible, be collected simultaneously, during the time that PU is in normal operation. The sampling shall aim to analyse the snapshot of water quality characteristics of the operating PU. Under no circumstance shall samples be taken during times when the production process is not running or the wastewater is diluted due to heavy rainfall, etc.

Remark :

- Sampling procedure is with reference to below standards:
 - 1) South Australia EPA Guidelines (June 2007), Regulatory Monitoring and Testing Water and Wastewater Sampling.
 - 2) Australia EPA (Victoria) Guideline (June 2009), Sampling and Analysis of Waters, Wastewaters, Soils and Wastes.
 - 3) ISO 5667-3:2003, Water Quality - Sampling - Part 3: Guidance on the Preservation and Handling of Water Samples.
 - 4) ASTM D3976-92 (Reapproved 2010), Standard Practice for Preparation of Sediment Samples for Chemical Analysis.
- Field data records are attached in Appendix C.

TEST RESULT

1A) Conventional Parameters

Temperature

Test Method : Measurement by thermometer/ U. S. EPA170.1/ GB/T 13195

Tested Item(s)	Result	Unit	Conclusion
I002	28 (Progressive)	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 ISO 11923/ U. S. EPA 160.2/ APHA 2540D/ GB/T 11901

Tested Item(s)	Result	Unit	Conclusion
I002	0.9 (Aspirational)	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 ISO 6060/ U. S. EPA 410.4/ APHA 5220D/ GB/T 11914

Tested Item(s)	Result	Unit	Conclusion
I002	16 (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

TEST RESULT

Total Nitrogen (total-n):

Test Method : Reference to ISO 5663/ ISO 29441/ U. S. EPA 351.2/ APHA 4500P-J/ APHA 4500N-C / HJ 636/ GB 11891

Tested Item(s)	Result	Unit	Conclusion
I002	0.9 (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter

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

pH value:

Test Method : Reference to ISO 10523/ U. S. EPA 150.1/ GB/T 6920

-	Unit	Result
Test Item(s)	-	I002
Parameter	-	-
Temp. of sample	deg. C	28
pH value of sample	-	7.0 (Comply with ZDHC Waste Water Guideline)
Conclusion	-	DATA

Note:

Temp. = Temperature
Limit: 6 – 9

deg. C = degree Celsius (°C)

Color [m⁻¹] (436nm; 525nm; 620nm) :

Test Method : With reference to ISO 7887-B

Tested Item(s)	Result	Unit	Conclusion
I002	0.0; 0.0; 0.0 (Aspirational)	m ⁻¹	DATA

Note:

Foundational Limit: 7; 5; 3 m⁻¹; Progressive Limit: 5; 3; 2 m⁻¹; Aspirational Limit: 2; 1; 1 m⁻¹



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TEST RESULT

Biochemical Oxygen Demand (BOD₅)

Test Method : Reference to ISO 5815-1 & -2 (5 days)/ DIN EN 1899-1 (5 days)/ U. S. EPA 405.1 (5 days)/ APHA 5210B (5 days)/ HJ 505

Tested Item(s)	Result	Unit	Conclusion
I002	2 (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter

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

Ammonium Nitrogen

Test Method : Reference to ISO 11732/ ISO 7150/ U. S. EPA 350.1/ APHA 4500 NH₃-N/ HJ 535/ HJ 536

Tested Item(s)	Result	Unit	Conclusion
I002	0.9 (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

Total Phosphorus (Total-P)

Test Method : Reference to ISO 11885/ ISO 6878/ U. S. EPA 365.4/ APHA 4500P-J/ GB/T 11893

Tested Item(s)	Result	Unit	Conclusion
I002	0.04 (Aspirational)	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 Halogens (AOX)

Test Method : Reference to ISO 9562/ EN ISO 9563/ U. S. EPA 1650/ HJ/T 83-2001

Tested Item(s)	Result	Unit	Conclusion
I002	0.77 (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



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TEST RESULT

Oil and Grease

Test Method : Reference to ISO 9377-2/ U. S. EPA 1664/ HJ 637

Tested Item(s)	Result	Unit	Conclusion
I002	1.9 (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 ISO 14402/ APHA 5530B, C & D/ HJ 503

Tested Item(s)	Result	Unit	Conclusion
I002	0.009 (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/ U. S. EPA 9132/ GB/T 5750.12

Tested Item(s)	Result	Unit	Conclusion
I002	280 (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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TEST RESULT

Persistent Foam

Test Method : Visual

Tested Item(s)	Result	Unit	Conclusion
I002	No foam observed (Comply with ZDHC Waste Water Guideline)	-	DATA

ANIONS - Cyanide

Test Method : Reference to ISO 6703-1,2, ISO 14403-1,2, US EPA 335.2, APHA 4500-CN, HJ 484

Tested Item(s)	Result	Unit	Conclusion
I002	0.009 (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter

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

ANIONS - Sulfide

Test Method : Reference to ISO 10530/ APHA 4500 S²⁻-D/ GB/T 16489

Tested Item(s)	Result	Unit	Conclusion
I002	0.09 (Progressive)	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 ISO 10304-3/ U. S. EPA 377.1

Tested Item(s)	Result	Unit	Conclusion
I002	0.9 (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) <i>Discharge License Criteria: N/A</i>	0.004	ND
Chromium(Cr), total <i>Discharge License Criteria: N/A</i>	0.022	0.005
Cobalt(Co) <i>Discharge License Criteria: N/A</i>	0.007	0.002
Copper(Cu) <i>Discharge License Criteria: N/A</i>	0.036	0.046
Nickel (Ni) <i>Discharge License Criteria: N/A</i>	0.024	0.006
Silver (Ag) <i>Discharge License Criteria: N/A</i>	0.003	ND
Zinc(Zn) <i>Discharge License Criteria: N/A</i>	0.072	0.066
Arsenic (As) <i>Discharge License Criteria: N/A</i>	0.002	ND
Cadmium(Cd) <i>Discharge License Criteria: N/A</i>	ND	ND
Chromium VI(CrVI) <i>Discharge License Criteria: N/A</i>	ND	ND
Lead(Pb) <i>Discharge License Criteria: N/A</i>	0.002	0.002
Mercury (Hg) <i>Discharge License Criteria: N/A</i>	ND	ND

Others Priority Chemical Groups

	I001 (ug/L)	I002 (ug/L)
1B) Conventional Parameters - METALS	ND	ND
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.

APPENDIX-A - Photo of the Sample/ Sampling Location

I001) Sampling Point
13°01'27.9"N 77°31'38.8"E



I001) Sampling Point Surrounding Environment
13°01'27.9"N 77°31'38.8"E



I001) All sampled bottles with label



I001) pH value



I001) Sample for Phthalate Testing



I001) Packaging



I002) Sampling Point
13°01'27.8"N 77°31'38.6"E



I002) Sampling Point Surrounding Environment
13°01'27.8"N 77°31'38.6"E



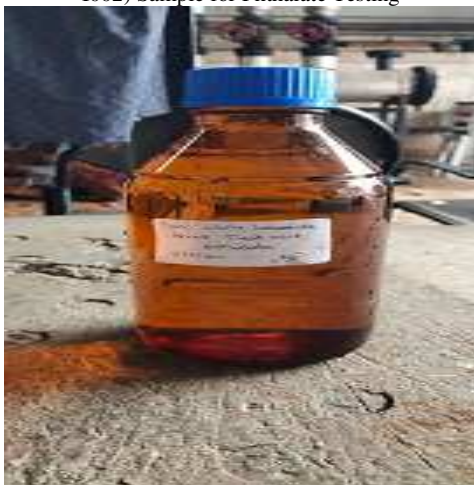
I002) All sampled bottles with label



I002) pH value



I002) Sample for Phthalate Testing



I002) Packaging



APPENDIX B

Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
2A. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	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 extraction) or ASTM D7065 (GC/MS or LC/MS(-MS))
	Octylphenol OP, mixed isomers	Various (incl. 140-66-9, 1806-26-4, 27193-28-8)	5	0.4	
	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 or LC/MSMS for n=1,2) APEO 1-18
	Nonylphenol ethoxylates (NPEO)	Various (inc. 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0)	5	0.4	
2B. Chlorobenzenes and Chlorotoluenes	Monochlorobenzene	108-90-7	0.2	0.2	USEPA 8260B, 8270D. Dichloromethane extraction followed by GC/MS
	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-Tetrachlorobenzene	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	
	4-Chlorotoluene	106-43-4	0.2	0.2	
	2,3-Dichlorotoluene	32768-54-0	0.2	0.2	
	2,4-Dichlorotoluene	95-73-8	0.2	0.2	
	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 Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC/MS
	3-Chlorophenol	108-43-0	0.5	0.05	
	4-Chlorophenol	106-48-9	0.5	0.05	
	2,3-Dichlorophenol	576-24-9	0.5	0.05	
	2,4-Dichlorophenol	120-83-2	0.5	0.05	
	2,5-Dichlorophenol	583-78-8	0.5	0.05	
	2,6-Dichlorophenol	87-65-0	0.5	0.05	

Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	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	
2D. Dyes - Azo (Forming Restricted Amines)	4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	0.1	0.2	EN 14362. Reduction step with Sodiumdithionite, solvent extraction, GC/MS or LC/MS
	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	
	4-Methoxy-m-phenylenediamine	615-05-4	0.1	0.2	
	4,4'-Methylene-di-o-toluidine	838-88-0	0.1	0.2	
	2,6-Xylidine	87-62-7	0.1	0.2	
	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	
	5-nitro-o-toluidine	99-55-8	0.1	0.2	
2E. Dyes- Carcinogenic or Equivalent Concern	C.I. Direct Black 38	1937-37-7	500	10	Liquid Extraction LC/MS
	C.I. Direct Blue 6	2602-46-2	500	10	
	C.I. Acid Red 26	3761-53-3	500	10	
	C.I. Basic Red 9	569-61-9	500	10	
	C.I. Direct Red 28	573-58-0	500	10	
	C.I. Basic Violet 14	632-99-5	500	10	
	C.I. Disperse Blue 1	2475-45-8	500	10	
	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 (malachite green oxalate)	2437-29-8	500	10	

Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
2F. Dyes-disperse (sensitizing)	C.I. Basic Green 4(malachite green)	10309-95-2	500	10	Liquid Extraction LC/MS
	Disperse Orange 11	82-28-0	500	10	
	Disperse Yellow 1	119-15-3	50	2	
	Disperse Blue 102	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	
	Disperse Red 11	2872-48-2	50	2	
	Disperse Red 1	2872-52-8	50	2	
	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	
2G. Flame Retardants	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	5	1	ISO 22032, USEPA527 and USEPA8321B. Dichloromethane extraction GC/MS or LC/MS(-MS)
	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	
	Tris(aziridinyl)-phosphineoxide (TEPA)	545-55-1	5	1	
	Polybromobiphenyls (PBBs)	59536-65-1	5	1	
	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-dichloroisopropyl) phosphate (TDCP)	13674-87-8	5	1	
	Short chain chlorinated paraffins (SCCPs) (C10-C13)	85535-84-8	5	1	
2H. Glycols	Bis(2-methoxyethyl)-ether	111-96-6	50	10	US EPA 8270 Liquid Extraction LC/MS
	2-ethoxyethanol	110-80-5	50	10	
	2-ethoxyethyl acetate	111-15-9	50	10	
	Ethylene glycol dimethyl ether	110-71-4	50	10	

Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	2-methoxyethanol	109-86-4	50	10	
	2-methoxyethylacetate	110-49-6	50	10	
	2-methoxypropylacetate	70657-70-4	50	10	
	Triethylene glycol dimethyl ether	112-49-2	50	10	
2I. Halogenated Solvents	1,2-Dichloroethane	107-06-2	1	2	USEPA 8260B Headspace GC/MS or Purgeand-Trap-GC/MS
	Methylene Chloride	75-09-2	1	2	
	Trichloroethylene	79-01-6	1	2	
	Tetrachloroethylene	127-18-4	1	2	
2J. Organotin Compounds	Mono-, di- and tri-methyltin derivatives	Multiple	0.01	0.2	ISO 17353 Derivatisation with NaB(C ₂ H ₅) GC/MS
	Mono-, di- and tri-butyltin derivatives	Multiple	0.01	0.2	
	Mono-, di- and tri-phenyltin derivatives	Multiple	0.01	0.2	
	Mono-, di- and tri-octyltin derivatives	Multiple	0.01	0.2	
	Monomethyltin	Multiple	0.01	0.2	
	Dimethyltin	Multiple	0.01	0.2	
	Trimethyltin	Multiple	0.01	0.2	
	Monobutyltin	Multiple	0.01	0.2	
	Dibutyltin	Multiple	0.01	0.2	
	Tributyltin	Multiple	0.01	0.2	
	Monophenyltin	Multiple	0.01	0.2	
	Diphenyltin	Multiple	0.01	0.2	
	Triphenyltin	Multiple	0.01	0.2	
	Monooctyltin	Multiple	0.01	0.2	
	Dioctyltin	Multiple	0.01	0.2	
	Trioctyltin	Multiple	0.01	0.2	
2K. Perfluorinated and Polyfluorinated Chemicals (PFCs)	Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.01	0.10	DIN 38407-42 (modified) Ionic PFC: Concentration or direct injection, LC/MS(-MS); Non-ionic PFC (FTOH): derivatisation with acetic anhydride, followed by GC/MS
	Perfluoro-n-octanoic acid (PFOA)	335-67-1	0.01	0.10	
	Perfluorobutanesulfonic acid (PFBS)	29420-49-3, 29420-43-3	0.01	0.10	
	Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	0.01	0.10	
	8:2 FTOH	678-39-7	1	1	
	6:2 FTOH	647-42-7	1	1	
2L. Phthalates (including all other esters of phthalic acid)	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	10	2	US EPA 8270D, ISO 18856 Dichloromethane extraction GC/MS
	Dimethoxyethyl phthalate (DMEP)	117-82-8	10	2	
	Di-n-octyl phthalate (DNOP)	117-84-0	10	2	
	Di-iso-decyl phthalate (DIDP)	26761-40-0	10	2	
	Di-iso-nonyl phthalate (DINP)	28553-12-0	10	2	
	Di-n-hexyl phthalate (DnHP)	84-75-3	10	2	
	Dibutyl phthalate (DBP)	84-74-2	10	2	
	Butyl benzyl phthalate (BBP)	85-68-7	10	2	
	Dinonyl phthalate (DNP)	84-76-4	10	2	

Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	Diethyl phthalate (DEP)	84-66-2	10	2	
	Di-n-propyl phthalate (DPRP)	131-16-8	10	2	
	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	
2M. Poly Aromatic Hydrocarbons (PaHs)	Benzo[a]pyrene (BaP)	50-32-8	1	0.2	DIN 38407-39 Solvent extraction GC/MS
	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	
	Benzo[b]fluoranthene	205-99-2	1	0.2	
	Fluoranthene	206-44-0	1	0.2	
	Benzo[k]fluoranthene	207-08-9	1	0.2	
	Acenaphthylene	208-96-8	1	0.2	
	Chrysene	218-01-9	1	0.2	
	Dibenz[a,h]anthracene	53-70-3	1	0.2	
	Benzo[a]anthracene	56-55-3	1	0.2	
	Acenaphthene	83-32-9	1	0.2	
	Phenanthrene	85-01-8	1	0.2	
	Fluorene	86-73-7	1	0.2	
	Naphthalene	91-20-3	1	0.2	
2N. Volatile Organic Compound (VOCs)	Benzene	71-43-2	1	2	ISO 11423-1 Headspace- or Purge-and-Trap-GC/MS
	Xylene	1330-20-7	1	2	
	o-cresol	95-48-7	1	2	
	p-cresol	106-44-5	1	2	
	m-cresol	108-39-4	1	2	
1A. Conventional Parameters	Temperature	—	N/A	N/A	Apply the standard methods that best apply to the region (ISO, EU, US, China), please refer to ZDHC Wastewater Guidelines for more details on the testing method and the levels (Foundational, Progressive, and Aspirational). Cyanide: With reference to APHA 4500 CN—B,C&E and
	TSS	—	N/A	N/A	
	COD	—	N/A	N/A	
	Total-N	—	N/A	N/A	
	pH	—	N/A	N/A	
	Color [m ⁻¹] (436nm; 525nm; 620nm)	—	N/A	N/A	
	BOD5	—	N/A	N/A	
	Ammonium-N	—	N/A	N/A	
	Total-P	—	N/A	N/A	
	AoX	—	N/A	N/A	
	Oil and Grease	—	N/A	N/A	
	Phenol	—	N/A	N/A	
	Coliform(bacteria/100ml)	—	N/A	N/A	
	Persistent Foam	—	Not	Not	



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Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
			visible	visible	followed by UV analysis
	ANIONS				
	Cyanide(CN-)	Various (incl. 57-12-5)	0.02	1	
	Sulfide	—	N/A	N/A	
	Sulfite	—	N/A	N/A	
Group	Substance (Testing parameter)	CAS No.	Report Limit		Name of the testing method
			Wastewater (mg/L) / (ppm)	Sludge (mg/kg) / (ppm)	
1B. Conventional Parameters - METALS	Antimony(Sb)	7440-36-0	0.001	N/A	Various Acid Digestion with ICP analysis
	Chromium(Cr), total	7440-47-3	0.001	N/A	
	Cobalt(Co)	7440-48-4	0.001	N/A	
	Copper(Cu)	7440-50-8	0.001	N/A	
	Nickel(Ni)	7440-02-0	0.001	N/A	
	Silver(Ag)	7440-22-4	0.001	N/A	please refer to ZDHC Wastewater Guidelines for more details on the testing method and the levels (Foundational, Progressive, and Aspirational).
	Zinc(Zn)	7440-66-6	0.001	N/A	
	Arsenic(As)	7440-38-2	0.001	2	
	Cadmium(Cd)	7440-43-9	0.0001	2	
	Chromium VI(CrVI)	18540-29-9	0.001	2	
	Lead(Pb)	7439-92-1	0.001	2	
	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



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APPENDIX C – Onsite Field Data Record Sheet

	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	CPSD-AN-00613-DATA 04
		Issue Date:
		Version No.: 13
		Business Line: Analytical

General Data

Laboratory Sample Number: C8721198-0210
 Client Name: _____
 Field Contact Person: Mr. Raghu Phone No: 7892009549
 Project (Facility Name and Address): Snow White Laundry (Geshwari Indr area, Bangalore)
 Sampling Location / Description: Before Treatment / Raw Waste Water
 Sample Identification: Zero discharge with sampling plan
 Sample Type: Composite Sample / Grab sample (Please delete as appropriate)
 Name of Sampler: Ajitha
 Discharge mode: Direct discharge to environment (Specify destination: River, Sea, Stream, ...) OR Indirect discharge to sewage treatment plant
 Date of collection: 16/07/2021
 Factory Type: Dyeing / Printing / Washing / Finishing / Others (please specify): _____
 *Note: It would be selected more than one

Field Data for Wastewater

Arrival Time:	10:40 AM	Departure Time:	4:30 PM
Field Parameters	pH: 7.3	Temp: 30 °C	Color: D.B.W.
Control No. of field equipment			
Factory with effluent treatment plant:	Yes		
Sample matrix:	Incoming water (if required)		
	Wastewater before treatment		
	Wastewater after treatment – water at discharge point		
Sampler container number			
	1	2	3
	4	5	6
	7	8	
Recording time	ID		
	Time		
pH:	11:00 AM 7.5	12:00 PM 7.3	1:00 PM 7.5
Temp (°C):	31°C	30°C	31°C
Color (visual estimation):	Dark Blue	Dark Blue	Dark Blue
Flow rate (volume/time)			
Volume collected, mL	1000 mL	1000 mL	1000 mL
Total volume collected	Remark: Total volume collected must be greater than total of sample size required		

Analysis Required and Preservation Method

Tests (ZDHC MRSL Parameters)	Test required (v)	Total of sample size	Type of container	Preservation method
Combined test or Individual test (Remark 4)	1. Phthalate	✓	Amber Glass washed with nitric acid, rinsed thoroughly with distilled water and dried before use	Without adding acid Store sample at 6°C
	2. Chlorobenzenes, Chlorotoluene & PAH	✓		
	3. SCCPs	✓		
	4. APS	✓		
5. APEOs	✓	100 mL		
6. Chlorophenols & Cresols	✓	100 mL		
7. Flame retardant	✓	500 mL		
8. Dyes	✓	10 mL		
9. Glycol	✓	50 mL		
10. *Pesticides	✗	1000 mL		
11. *Nitrosamine	✗	10 mL		
12. Banned Azodyes	✓	2000 mL	Amber Glass, washed with nitric acid	Acidity to pH 2 with HCl and store sample at 6°C Fill to full container without air gap; acidity to pH 2 with HCl and store sample at 6°C
13. *Free primary aromatic amines	✓	500 mL		
14. Organotin Compounds	✓	500 mL		
15. VOC & Halogenated Solvents (Remark 6)	✓	10 mL		
16. PFCs	✓	2 mL	PE, washed with pesticide grade Acetone	Without adding acid Store sample at 6°C



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FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)				CPSD-AN-00613-DATA 04	
				Issue Date:	
				Version No.: 13	
				Business Line: Analytical	
Tests (Conventional Parameters)	Test required (V)	Total of sample size	Type of container	Preservation method	
Combined test or Individual test (Remark 4)	17. Total suspended solids (TSS) 18. *Total dissolved solids (TDS)	2000 mL total or 2000 mL each	Amber Glass, washed with nitric acid, rinsed thoroughly with distilled water and dried before use	Without adding acid Store sample at 6°C	
19. 5-day Biochemical Oxygen Demand (BOD5)	X	1000 mL			
20. Heavy Metals except Cr(VI) & Total-P (Remark 6)	X	9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO ₃ and store at 6°C	
21. Cr(VI)	✓	95 mL	Amber Glass, washed with pesticide grade acetone	Filter by 0.45µm filter in field, fill to full container without air gap, adjust pH to 9.0-9.5 by adding ammonium buffer. Store sample at 6°C	
22. Cyanide	X	500 mL		Adjust pH 12 with 50% NaOH, add 0.05 mL of 10% Na ₂ S ₂ O ₃ and store sample at 6°C	
23. Chemical oxygen demand (COD)	X	150 mL	Amber Glass, washed with nitric acid	Acidify to pH 2 with H ₂ SO ₄ Store sample at 6°C	
24. Phenols	X	500 mL		Fill to full container without air gap, acidify to pH 2 with H ₂ SO ₄ and store sample at 6°C	
25. *Formaldehyde	X	25 mL	PE, washed with pesticide grade Acetone	Fill to full container without air gap, add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 6°C	
26. Sulfide (Remark 5)	X	50 mL	Amber Glass, washed with nitric acid	Add 0.05 mL of 10% Na ₂ S ₂ O ₃ , acidify to pH 2 with H ₂ SO ₄ . Store sample at 6°C	
27. Adsorbable organically bound halogens (AOX)	X	100 mL	PE, clean, sterile, non-reactive	Add 0.05 mL of 10% Na ₂ S ₂ O ₃ . Store sample at 6°C	
28. Total Coliform (Remark 6)	X	125 mL		Foam higher than 45 cm (visual estimation): Yes / No	
29. Persistent foam	X	N.A.			
30. Sulfite	X	100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA, 0.5g zinc acetate Store sample at 6°C	
31. Total-N	X	100 mL	Amber Glass with wide-mouth PTFE lid, washed with nitric acid	Acidify to pH 2 with H ₂ SO ₄ Store sample at 6°C	
32. Ammonium-N	X	500 mL			
33. Oil and Grease & Total Hydrocarbon	X	1000 mL	Amber Glass, washed with nitric acid	Acidify to pH 2 with HCl Store sample at 6°C	
34. Luminous Bacteria Toxicity	X	1000 mL			
35. Sulphate	X	100 mL	Amber Glass, washed with nitric acid, rinsed thoroughly with distilled water and dried before use	Without adding acid Store sample at 6°C	
36. Chloride	X	100 mL			
37. Color	X	100 mL			
38. Others:	X				
Observation/ Remark:					

***Remarks:**

- Individual sampling can be performed upon request
- The minimum sampling time for 2016 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.
- Scope of ZDHC guideline: Parameter 1, 2, 4-9, 12, 14-17, 19-24, 26-33
Scope of synthetic leather industry: Parameter 1, 2, 4-9, 12, 14-17, 19-33
Scope of MMCF: Parameter 4, 5, 15, 17, 19-21, 23, 24, 26, 27, 31-34, 37
Free primary aromatic amine, pesticides, nitrosamine and TDS are not in the scope of ZDHC Guideline, they are tested upon request.
- Refer to CPSD-AN-G00019-STIP01, loactions with those CPSD test capability inside TCD matrix can perform the combined test.
- Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.
- Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by:

Full name:

Date: 16/07/2021

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

Signature of Factory Representative:
sdf

Full Name:

Date: 16/7/21




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	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	CPSD-AN-00613-DATA 04
		Issue Date:
		Version No.: 13
		Business Line: Analytical

General Data

Laboratory Sample Number: (8721) 198-0210

Client Name: _____

Field Contact Person: Mr. Raghu Phone No: 7892 009549

Project (Facility Name and Address): Saurus White Laundry (Geshwarpur road Area, Bangalore)

Sampling Location / Description: Before Treatment water / Treated water

Sample Identification: Zero discharge with sampling plan

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

Name of Sampler: Ajith

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

Date of collection: 16/07/2021

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

*Note: It would be selected more than one

Field Data for Wastewater

Arrival Time:	<u>10:40 AM</u>		Departure Time:	<u>1:30 PM</u>	
Field Parameters	pH: <u>7.0</u>	Temp: <u>28</u> °C	Color: <u>colorless</u>	Flow rate: <u>✓</u> (volume/min)	
Control No. of field equipment					
Factory with effluent treatment plant:	Yes <input type="checkbox"/> No <input type="checkbox"/>				
Sample matrix:	Incoming water (If required)				
	Wastewater before treatment				
	Wastewater after treatment – water at discharge point				
Sampler container number	1	2	3	4	5
Recording time	ID	Time	11:05 AM	12:00 PM	1:05 PM
pH:	7.0	7.0	7.3	7.2	6.8
Temp (°C):	29	28	28	28	26
Color (visual estimation):	colorless	colorless	colorless	colorless	colorless
Flow rate (volume/time)					
Volume collected, mL	1000 mL	1000 mL	1000 mL	1000 mL	1000 mL
Total volume collected	Remark: Total volume collected must be greater than total of sample size required				

Analysis Required and Preservation Method

Tests (ZDHC MRSL Parameters)	Test required (v)	Total of sample size	Type of container	Preservation method
Combined test or Individual test (Remark 4)	1. Phthalate ✓	1000 mL total or 1000 mL each	Amber Glass, washed with nitric acid, rinsed thoroughly with distilled water and dried before use	Without adding acid Store sample at 6°C
	2. Chlorobenzenes, Chlorotoluene & PAH ✓			
	3. SCCPs ✓			
	4. APS ✓			
5. APEOs	✓	100 mL		
6. Chlorophenols & Cresols	✓	100 mL		
7. Flame retardant	✓	500 mL		
8. Dyes	✓	10 mL		
9. Glycol	✓	50 mL		
10. *Pesticides	✓	1000 mL		
11. *Nitrosamine	✓	10 mL		
12. Banned Azodyes	✓	2000 mL		
13. *Free primary aromatic amines	✓	500 mL		
14. Organotin Compounds	✓	500 mL		
15. VOC & Halogenated Solvents (Remark 6)	✓	10 mL		
16. PFCs	✓	2 mL		



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				Issue Date:	
				Version No.: 13	
				Business Line: Analytical	
Tests (Conventional Parameters)	Test required (V)	Total of sample size	Type of container	Preservation method	
Combined test or Individual test (Remark 4)	17. Total suspended solids (TSS)	2000 mL total or 2000 mL each	Amber Glass, washed with nitric acid, rinsed thoroughly with distilled water and dried before use	Without adding acid Store sample at 6°C	
	18. *Total dissolved solids (TDS)				
19. 5-day Biochemical Oxygen Demand (BOD5)	✓	1000 mL			
20. Heavy Metals except Cr(VI) & Total-P (Remark 6)	✓	9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO ₃ and store at 6°C	
21. Cr(VI)	✓	95 mL	Amber Glass, washed with pesticide grade acetone	Filter by 0.45µm filter in field, fill to full container without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer. Store sample at 6°C	
22. Cyanide	✓	500 mL		Adjust pH 12 with 50% NaOH; add 0.05 ml of 10% Na ₂ S ₂ O ₃ and store sample at 6°C	
23. Chemical oxygen demand (COD)	✓	150 mL	Amber Glass, washed with nitric acid	Acidify to pH 2 with H ₂ SO ₄ Store sample at 6°C	
24. Phenols	✓	500 mL			
25. *Formaldehyde	✓	25 mL		Fill to full container without air gap; acidify to pH 2 with H ₂ SO ₄ and store sample at 6°C	
26. Sulfide (Remark 5)	✓	50 mL	PE, washed with pesticide grade Acetone	Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 6°C	
27. Adsorbable organically bound halogens (AOX)	✓	100 mL	Amber Glass, washed with nitric acid	Add 0.05 ml of 10% Na ₂ S ₂ O ₃ , acidify to pH 2 with H ₂ SO ₄ . Store sample at 6°C	
28. Total Coliform (Remark 6)	✓	125 mL	PE, clean, sterile, non-reactive	Add 0.05 ml of 10% Na ₂ SO ₃ . Store sample at 6°C	
29. Persistent foam	✓	N.A.	Foam higher than 45 cm (visual estimation): Yes / No		
30. Sulfite	✓	100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA, 0.5g zinc acetate Store sample at 6°C	
31. Total-N	✓	100 mL	Amber Glass with wide-mouth PTFE lid washed with nitric acid;	Acidify to pH 2 with H ₂ SO ₄ Store sample at 6°C	
32. Ammonium-N	✓	500 mL			
33. Oil and Grease & Total Hydrocarbon	✓	1000 mL	Amber Glass, washed with nitric acid;	Acidify to pH 2 with HCl Store sample at 6°C	
34. Luminus Bacteria Toxicity	✓	1000 mL	Amber Glass, washed with nitric acid, rinsed thoroughly with distilled water and dried before use	Without adding acid Store sample at 6°C	
35. Sulphate	✓	100 mL			
36. Chloride	✓	100 mL			
37. Color	✓	100 mL			
38. Others:					
Observation/ Remark:					

***Remarks:**

- Individual sampling can be performed upon request
- The minimum sampling time for 2016 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.
- Scope of ZDHC guideline: Parameter 1, 2, 4-9, 12, 14-17, 19-24, 26-33
Scope of synthetic leather industry: Parameter 1, 2, 4-9, 12, 14-17, 19-33
Scope of MMCF: Parameter 4, 5, 15, 17, 19-21, 23, 24, 26, 27, 31-34, 37
Free primary aromatic amine, pesticides, nitrosamine and TDS are not in the scope of ZDHC Guideline, they are tested upon request.
- Refer to CPSD-AN-G00019-STIP01, locations with those CPSD test capability inside TCD matrix can perform the combined test.
- Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.
- Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by:

Full name:

Asif

Date:

16/08/2021

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

Signatory of Factory Representative:
sdfd

Full Name:

RAJHU. A. K

Date:

16/7/21



Technical Report:

(8721)198-0210

August 03, 2021

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APPENDIX D – Limitation Value of Legal Requirements

-END-