



TEST REPORT

Technical Report

(6722)099-0669-Revision-1

April 25, 2022

Date Received

April 09, 2022

Revision-1 Date: April 27, 2022

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Factory Company Name:

WINSOME TEXTILE INDUSTRIES LIMITED

Factory Address:

WINSOME TEXTILE INDUSTRIES LIMITED
INDUSTRIAL AREA, SAI ROAD, BADDI DISTRICT-SOLAN, HIMACHAL
PRADESH

Project No.:

/

Client Reference No.:

/

Sampling Method:

I001) Raw Wastewater (Dilute) – Time- weighted Composite
I001) Raw Wastewater (Concentrated) – Time- weighted Composite
I003) Sludge Sample – Grab (Concentrated)

Sample Pick Up Date:

April 08, 2022

Wastewater Discharge to:

CETP (Dilute) & ZLD (Concentrated)

On-Site Effluent Treatment

Plant (ETP):

No

Discharge Type:

Indirect discharge (Dilute) & ZLD (Concentrated)

Off-site ETP name (if
applicable):

CETP, UPLEEL, Baddi (Dilute)

Local Regulation: / Ordinance
requirements related to
wastewater discharged are
followed:

/

Permit Validation Date:

/

Parameters Exceeded Local
Regulation

N/A

Legal compliance:

N/A

Conventional Parameters

/

Overall Category:

Test Period:

April 09, 2022 to April 25, 2022

Sample Description:

I001) Light Violet liquid – Raw Wastewater (Dilute)
I002) Dark Violet liquid – Raw Wastewater (Concentrated)
I003) Brown solid – Sludge Sample(Concentrated)

Parameters exceeded holding
Time:

N/A

Sampler No:

8F146508857

"Pls. refer the website www.nabl-india.org to view our Scope of accredited Test"

Bureau Veritas Consumer Products Services (India)
Pvt. Ltd.,
C-19, Sec – 7 Noida (U.P.) 201301 PH: 4368283/205

ULR -TC631222100061414P

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Note : Revision in type error of cadmium results in I001 .

REMARK

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

PLEASE CONTACT:

FOR ANY TECHNICAL ISSUES: RAMESH KUMAR / SUMANTA KUMAR SWAIN

E. MAIL: ramesh.kumar@bureauveritas.com , sumanta.swain@bureauveritas.com

PHONE NO: 0120-4368206/264

FOR ANY GENERAL ISSUES: RAHUL SRIVASTAVA / CHHATISH KUMAR NATH

E. MAIL: rahul.srivastava@bureauveritas.com, chhatish.nath@bureauveritas.com

PHONE NO: 0120-4368205/283

FOR ANY INVOICING MATTER: MR. MARTIN SEBASTIAN

E. MAIL: martin.sebastian@bureauveritas.com **PHONE NO:** 0120-4368200

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.

SIGNATORIES

RAHUL SRIVASTAVA
(Manager – Analytical)



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1A) Conventional Parameters	I001	I002	I003
Temperature	NR	NR	NR
TSS			
COD			
Total-N			
pH Value			
Color [m ⁻¹] (436nm; 525nm; 620nm)			
BOD ₅			
Ammonium-N			
Total-P			
AOX			
Oil and Grease			
Phenol			
Coliform			
Persistent Foam			
ANIONS - Cyanide			□
ANIONS - Sulfide			NR
ANIONS - Sulfite			NR
1B) Conventional Parameters – METALS	Refer result	□	□

Note / Key :

□ – Meet Foundational Limit / Meet discharge license criteria/ Meet Reporting Limit

■ – Exceeding Foundational Limit / Exceeding discharge license criteria/Exceeding Reporting Limit

NR – Not Requested / Not required

ZDHC MRSL Substances	I001	I002	I003
2A) APs and APEOs	o	o	o
2B) Chlorobenzenes and Chlorotoluenes	o	o	o
2C) Chlorophenols	o	o	o
2D) Azo Dyes	o	o	o
2E) Carcinogenic Dyes	o	o	o
2F) Disperse Dyes	o	o	o
2G) Flame Retardants	o	o	o
2H) Glycols	o	o	o
2I) Halogenated Solvents	o	o	o

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2J) Organotin Compounds	o	o	o
2K) Perfluorinated and Polyfluorinated Chemicals	o	o	o
2L) Phthalates	o	o	o
2M) Poly Aromatic Hydrocarbons	o	o	o
2N) Volatile Organic Compounds	o	o	o

Note / Key :

- ● – Detected
- o – Not Detected
- 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, three environment samples were sampled per factory, including 1) Discharged Wastewater (Raw wastewater dilute) and 2) Discharged Wastewater (Raw wastewater concentrated) 3) Sludge (Concentrated). 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 :



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- 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

1B) Conventional Parameters – METALS

Dry mass (total solids)

Test Method : Reference to US EPA 160.3 /209A

Tested Item(s)	Result	Unit	Conclusion
I003	55	%	DATA

ANIONS - Cyanide

Test Method : Reference to USEPA 9014 : 2014

Tested Item(s)	Result	Unit	Conclusion
I003	<0.01	mg/kg	DATA

Heavy Metals	I001 (mg/L)
Antimony(Sb) <i>Discharge License Criteria : Not Applicable</i>	0.002
Chromium(Cr), total <i>Discharge License Criteria : Not Applicable</i>	0.005
Cobalt(Co) <i>Discharge License Criteria : Not Applicable</i>	ND
Copper(Cu) <i>Discharge License Criteria : Not Applicable</i>	ND
Nickel(Ni) <i>Discharge License Criteria : Not Applicable</i>	0.004



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Heavy Metals	I001 (mg/L)
Silver (Ag) <i>Discharge License Criteria : Not Applicable</i>	0.001
Zinc(Zn) <i>Discharge License Criteria : Not Applicable</i>	ND
Arsenic (As) <i>Discharge License Criteria : Not Applicable</i>	ND
Cadmium(Cd) <i>Discharge License Criteria : Not Applicable</i>	0.0004
Lead(Pb) <i>Discharge License Criteria : Not Applicable</i>	0.001
Mercury (Hg) <i>Discharge License Criteria : Not Applicable</i>	ND
Chromium VI(CrVI) <i>Discharge License Criteria : Not Applicable</i>	ND

Heavy Metals	I002 (mg/L)	I003 (mg/Kg)
Antimony(Sb) <i>Foundational Limit: 0.1 mg/L; Progressive Limit: 0.05 mg/L; Aspirational Limit: 0.01 mg/L</i>	ND (Aspirational)	NR
Chromium(Cr), total <i>Foundational Limit: 0.2 mg/L; Progressive Limit: 0.1 mg/L; Aspirational Limit: 0.05 mg/L</i>	0.022 (Aspirational)	NR
Cobalt(Co) <i>Foundational Limit: 0.05 mg/L; Progressive Limit: 0.02 mg/L; Aspirational Limit: 0.01 mg/L</i>	ND (Aspirational)	NR
Copper(Cu) <i>Foundational Limit: 1 mg/L; Progressive Limit: 0.5 mg/L; Aspirational Limit: 0.25 mg/L</i>	ND (Aspirational)	NR
Nickel (Ni) <i>Foundational Limit: 0.2 mg/L; Progressive Limit: 0.1 mg/L; Aspirational Limit: 0.05 mg/L</i>	0.007 (Aspirational)	NR



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Heavy Metals	I002 (mg/L)	I003 (mg/Kg)
Silver (Ag) <i>Foundational Limit: 0.1 mg/L; Progressive Limit: 0.05 mg/L; Aspirational Limit: 0.005 mg/L</i>	0.003 (Aspirational)	NR
Zinc(Zn) <i>Foundational Limit: 5 mg/L; Progressive Limit: 1 mg/L; Aspirational Limit: 0.5 mg/L</i>	0.032 (Aspirational)	NR
Arsenic (As) <i>Foundational Limit: 0.05 mg/L; Progressive Limit: 0.01 mg/L; Aspirational Limit: 0.005 mg/L</i>	0.001 (Aspirational)	ND
Cadmium(Cd) <i>Foundational Limit: 0.1 mg/L; Progressive Limit: 0.05 mg/L; Aspirational Limit: 0.01 mg/L</i>	0.00014 (Aspirational)	0.10
Lead(Pb) <i>Foundational Limit: 0.1 mg/L; Progressive Limit: 0.05 mg/L; Aspirational Limit: 0.01 mg/L</i>	0.001 (Aspirational)	1.7
Mercury (Hg) <i>Foundational Limit: 0.01 mg/L; Progressive Limit: 0.005 mg/L; Aspirational Limit :0.001 mg/L</i>	ND (Aspirational)	ND
Chromium VI(CrVI) <i>Foundational Limit: 0.05 mg/L; Progressive Limit: 0.005 mg/L; Aspirational Limit: 0.001 mg/L</i>	ND (Aspirational)	ND



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Others Priority Chemical Groups

	1001 (µg/L)	1002 (µg/L)	1003(mg/kg)
2A) APs and APEOs	ND	ND	ND
2B) Chlorobenzenes and Chlorotoluenes	ND	ND	ND
2C) Chlorophenols	ND	ND	ND
2D) Azo Dyes	ND	ND	ND
2E) Carcinogenic Dyes	ND	ND	ND
2F) Disperse Dyes	ND	ND	ND
2G) Flame Retardants	ND	ND	ND
2H) Glycols	ND	ND	ND
2I) Halogenated Solvents	ND	ND	ND
2J) Organotin Compounds	ND	ND	ND
2K) Perfluorinated and Polyfluorinated Chemicals	ND	ND	ND
2L) Phthalates	ND	ND	ND
2M) Poly Aromatic Hydrocarbons	ND	ND	ND
2N) Volatile Organic Compounds	ND	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



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APPENDIX A - Photo of the Sample/ Sampling Location

I001) Sampling Point



Sampling location as per GPS
(North 29.7551769, East75.5373487)

I001) Sampling Point Surrounding Environment



Sampling location as per GPS
(North 29.7551769, East75.5373487)

I001) pH Value



Sampling location as per GPS
(North 29.7551769, East75.5373487)

I001) All sampled bottles with label



Sampling location as per GPS
(North 29.7551769, East75.5373487)



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I001) Sample for Phthalate Testing



Sampling location as per GPS
(North 29.7551769, East75.5373487)

I001) Packaging



Sampling location as per GPS
(North 29.7551769, East75.5373487)

I002) Sampling Point



Sampling location as per GPS
(North 29.7551769, East75.5373487)

I002) Sampling Point Surrounding Environment



Sampling location as per GPS
(North 29.7551769, East75.5373487)

I002) pH Value



Sampling location as per GPS
(North 29.7551769, East75.5373487)

I002) All sampled bottles with label



Sampling location as per GPS
(North 29.7551769, East75.5373487)



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I002) Sample for Phthalate Testing



Sampling location as per GPS
(North 29.7551769, East75.5373487)

I002) Packaging



Sampling location as per GPS
(North 29.7551769, East75.5373487)

I003) Sampling Point



Sampling location as per GPS
(North 29.7551769, East75.5373487)

I003) Sampling Point Surrounding Environment



Sampling location as per GPS
(North 29.7551769, East75.5373487)

I003) All sampled bottles with label



Sampling location as per GPS
(North 29.7551769, East75.5373487)



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I003) Sample for Phthalate Testing  Sampling location as per GPS (North 29.7551769, East75.5373487)	I003) Packaging  Sampling location as per GPS (North 29.7551769, East75.5373487)
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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)) OPEO/NPEO: ISO18857-2 or ASTM D7065(LC/MS; GC/MS or LC/MSMS for n=1,2) APEO 1-18
	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	
	Nonylphenol ethoxylates (NPEO)	Various (incl. 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	

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			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	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	
2C. Chlorophenols	Pentachlorotoluene	877-11-2	0.2	0.2	USEPA 8270 D Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC/MS
	2-Chlorophenol	95-57-8	0.5	0.05	
	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	
	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	



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			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	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	
	C.I. Basic Green 4 (malachite green)	10309-95-2	500	10	
	Disperse Orange 11	82-28-0	500	10	
2F. Dyes-disperse (sensitizing)	Disperse Yellow 1	119-15-3	50	2	Liquid Extraction LC/MS
	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	



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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)	
	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	
	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	Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.01	0.10	DIN 38407-42 (modified)



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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)	
Chemicals (PFCs)	Perfluoro-n-octanoic acid (PFOA)	335-67-1	0.01	0.10	Ionic PFC: Concentration or direct injection, LC/MS(-MS); Non-ionic PFC (FTOH): derivatisation with acetic anhydride, followed by GC/MS
	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	
	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	



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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)	
2N. Volatile Organic Compound (VOCs)	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	
	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 followed by UV analysis
	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 visible	Not visible	
	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 please refer to ZDHC Wastewater Guidelines for more details on the testing method and the levels (Foundational, Progressive, and Aspirational).
	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	
	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



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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	
SECRETARIAT		Issue Date: _____ Version No.: 17 Business Line: ANALYSIS	
Secretariat/MH Laboratory / Sample Location: (6722)-0990669			
Plant Name: Wansame Textile Industries Limited			
Plant Contact Person: Mr. Sumit guj Phone No. 9887369816			
Project (Facility Name and Address): Wansame Textile Industries Limited, Panna			
Sampling Location / Description: Wansame Textile Industries Limited, Panna,			
Samples Identification: ZERO Discharge with sampling point			
Sample Type: Composite Sampling / Grab sample (Please state as appropriate)			
Name of Sampler: Anil Rana			
Discharge mode: Direct Discharge to waterbody (Specify waterbody from Box Street - Off indirect discharge to sewage treatment plant)			
Date of collection: 08/04/2022			
Factory Type: Dyeing / Finishing / Washing / Preserving / Others (please specify) dyeing			
Note if must be checked how far away			
Field Time for Waterbody			
Arrival Time		Departure Time	
11:00 AM		5:30 PM	
Rain Parameters			
pH	Time	Color	Turbidity (NTU)
Color No. of field equipment			
Factory with effluent treatment plant:		No	
Bacteria matrix		Inoculum water (Prepared)	
		Microbiological before treatment	
		Microbiological after treatment - water at discharge point	
Bacterial count number			
Holding time			
ID			
Time			
pH			
Temp (°C)			
Color (visual estimation)			
Flow rate (volume/time)			
Volume collected, mL			
Total volume collected			
Remarks: Total volume collected must be greater than total of samples required			
Analysis Required and Preservation Method			
Tests (EPA/MSL Parameter)		Test required (Y/N)	Total of sample size
Control test at Individual test (Param A)		1. Phenolate	✓
		2. Chlorophylls & Pchl	✓
		3. BODs	✓
		4. APG	✓
5. ARDs		✓	100 mL
6. Chlorophylls & Carotenoids		✓	100 mL
7. Heavy metals		✓	100 mL
8. Dyes		✓	10 mL
9. Glyoxal		✓	30 mL
10. Tricodan		✓	1000 mL
11. Nitrobenzene		✓	10 mL
12. Brominated Acetates		✓	2000 mL
13. Free primary amine/amines		✓	300 mL
14. Organic Compounds		✓	300 mL
15. UV absorbers		✓	100
16. BPA		✓	5
17. Preservatives		✓	52
18. VOC & Halogenated Solvents (Param G)		✓	10 mL
19. HCHO (Param E)		✓	2 mL
		APG needed with positive results addition	
		Preservation method	
		Acetic Acid added with ratio 1:1	
		Formic acid added with sample at 2.0°C	
		Phos-pho-sediment without or gas acidity to pH 2 with HCl and store sample at 2-6°C	
		Without adding acid	



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FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)										CPSD-AN-00613-DATA 04																																																																																	
										Issue Date:																																																																																	
										Version No.:	17																																																																																
										Business Line:	Analytical																																																																																
Sample Data for Analysis Sample Time: <u>11:20 AM</u> Discharge Time: <u>5:30 PM</u> Flow Parameter: <u>µM</u> Flow: <u>10</u> Flow rate (volume/time) (m³/sec) (m³/min) Control No. of test equipment: <u>Colour</u> <u>Brown</u> Recording time: <u>11:20</u> Time: <u>11:20</u> pH: <u>7.5</u> Temp (°C): <u>25</u> Flow rate (volume/time) (m³/sec) (m³/min): <u>10</u> Volume collected, mL: <u>200</u> Total volume collected: <u>200</u> <i>Remark: Total volume collected must be greater than that of sample size required</i>																																																																																											
Analysis Method and Test Equipment Primary with reference equipment used: <u>Yes</u> <u>No</u> Sample matrix: <u>Water</u> <u>Sludge</u> <u>Other (specify)</u> Sample container material: <u>Plastic</u> Recording time: <u>11:20 PM</u> <table border="1"> <thead> <tr> <th>Tests (MPL, Parameter)</th> <th>Test required</th> <th>Test performed</th> <th>Type of sampler</th> <th>Preservation method</th> </tr> </thead> <tbody> <tr> <td>1. pH value</td> <td>☒</td> <td>10 g</td> <td>10 g</td> <td></td> </tr> <tr> <td>2. Conductivity</td> <td>☒</td> <td>10 g</td> <td>10 g</td> <td></td> </tr> <tr> <td>3. Dissolved Oxygen (DO)</td> <td>☒</td> <td>10 g</td> <td>10 g</td> <td></td> </tr> <tr> <td>4. Ammonia Nitrogen (NH₄-N)</td> <td>☒</td> <td>10 g</td> <td>10 g</td> <td></td> </tr> <tr> <td>5. Nitrate Nitrogen (NO₃-N)</td> <td>☒</td> <td>10 g</td> <td>10 g</td> <td></td> </tr> <tr> <td>6. Nitrite Nitrogen (NO₂-N)</td> <td>☒</td> <td>10 g</td> <td>10 g</td> <td></td> </tr> <tr> <td>7. Total Nitrogen (TN)</td> <td>☒</td> <td>10 g</td> <td>10 g</td> <td></td> </tr> <tr> <td>8. Total Phosphorus (TP)</td> <td>☒</td> <td>10 g</td> <td>10 g</td> <td></td> </tr> <tr> <td>9. Ammonia Phosphorus (NH₄-P)</td> <td>☒</td> <td>10 g</td> <td>10 g</td> <td></td> </tr> <tr> <td>10. Orthophosphate (PO₄-P)</td> <td>☒</td> <td>10 g</td> <td>10 g</td> <td></td> </tr> <tr> <td>11. Silica (SiO₂)</td> <td>☒</td> <td>10 g</td> <td>10 g</td> <td></td> </tr> <tr> <td>12. Total Suspended Solids (TSS)</td> <td>☒</td> <td>10 g</td> <td>10 g</td> <td></td> </tr> <tr> <td>13. Volatile Suspended Solids (VSS)</td> <td>☒</td> <td>10 g</td> <td>10 g</td> <td></td> </tr> <tr> <td>14. Fixed Suspended Solids (FSS)</td> <td>☒</td> <td>10 g</td> <td>10 g</td> <td></td> </tr> <tr> <td>15. Total Solids (TS)</td> <td>☒</td> <td>10 g</td> <td>10 g</td> <td></td> </tr> </tbody> </table>												Tests (MPL, Parameter)	Test required	Test performed	Type of sampler	Preservation method	1. pH value	☒	10 g	10 g		2. Conductivity	☒	10 g	10 g		3. Dissolved Oxygen (DO)	☒	10 g	10 g		4. Ammonia Nitrogen (NH ₄ -N)	☒	10 g	10 g		5. Nitrate Nitrogen (NO ₃ -N)	☒	10 g	10 g		6. Nitrite Nitrogen (NO ₂ -N)	☒	10 g	10 g		7. Total Nitrogen (TN)	☒	10 g	10 g		8. Total Phosphorus (TP)	☒	10 g	10 g		9. Ammonia Phosphorus (NH ₄ -P)	☒	10 g	10 g		10. Orthophosphate (PO ₄ -P)	☒	10 g	10 g		11. Silica (SiO ₂)	☒	10 g	10 g		12. Total Suspended Solids (TSS)	☒	10 g	10 g		13. Volatile Suspended Solids (VSS)	☒	10 g	10 g		14. Fixed Suspended Solids (FSS)	☒	10 g	10 g		15. Total Solids (TS)	☒	10 g	10 g	
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Tests (Conventional Parameters) <table border="1"> <thead> <tr> <th>Test required</th> <th>Test performed</th> <th>Type of sampler</th> <th>Preservation method</th> </tr> </thead> <tbody> <tr> <td>16. Heavy Metals except (VVI) (Remark 1)</td> <td>☒</td> <td>10 g</td> <td>10 g</td> </tr> <tr> <td>17. Copper (Cu)</td> <td>☒</td> <td>10 g</td> <td>10 g</td> </tr> <tr> <td>18. Asbestos (asbestos, asbestos, asbestos)</td> <td>☒</td> <td>10 g</td> <td>10 g</td> </tr> <tr> <td>19. Asbestos (asbestos, asbestos, asbestos)</td> <td>☒</td> <td>10 g</td> <td>10 g</td> </tr> <tr> <td>20. Total organic carbon (TOC)</td> <td>☒</td> <td>10 g</td> <td>10 g</td> </tr> <tr> <td>21. Oxygen</td> <td>☒</td> <td>10 g</td> <td>10 g</td> </tr> <tr> <td>22. Total Solids</td> <td>☒</td> <td>10 g</td> <td>10 g</td> </tr> <tr> <td>23. % Solids</td> <td>☒</td> <td>10 g</td> <td>10 g</td> </tr> <tr> <td>24. Purity (Purity Test)</td> <td>☒</td> <td>10 g</td> <td>10 g</td> </tr> </tbody> </table>												Test required	Test performed	Type of sampler	Preservation method	16. Heavy Metals except (VVI) (Remark 1)	☒	10 g	10 g	17. Copper (Cu)	☒	10 g	10 g	18. Asbestos (asbestos, asbestos, asbestos)	☒	10 g	10 g	19. Asbestos (asbestos, asbestos, asbestos)	☒	10 g	10 g	20. Total organic carbon (TOC)	☒	10 g	10 g	21. Oxygen	☒	10 g	10 g	22. Total Solids	☒	10 g	10 g	23. % Solids	☒	10 g	10 g	24. Purity (Purity Test)	☒	10 g	10 g																																								
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		Issue Date:
		Version No.: 17
		Business Line: Analytical

1. Individual sampling can be performed upon request.
2. The minimum sampling time for 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, 2, 4, 5, 14-17, 21-24.
Scope of Leather Industry: Parameter 1-6, 10, 12-17.
Scope of MHC: Parameter 10, 13-20.
Free primary aromatic amine and pesticides are not in the scope of ZDHC Guideline, they are tested upon request.
4. Refer to CPSD-AN-000110-STEP01, locations with those CPSD test capability inside TCD matrix can perform the combined test.
5. Refer to CPSD-AN-000110-METHOD for preparation of feed base for specific parameters.



**BUREAU
VERITAS**

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APPENDIX D – Limitation Value of Legal Requirements

N/A