



TEST REPORT

Technical Report (6721)155-0205 June 16, 2021

Date Received June 04, 2021 Page 1 of 21

Factory Company Name: SHAHI EXPORTS (A UNIT OF SARLA FABRICS)

Factory Address: 30/2, LONI ROAD, MOHAN NAGAR-201007, GHAZIABAD (U.P)

Project No.: /

Client Reference No.: /

Sampling Method: I001) Raw Wastewater – Time- weighted Composite
I002) Discharged Wastewater – Time- weighted Composite

Sample Pick Up Date: June 03, 2021

Wastewater Discharge to: Direct Discharge

On-Site Effluent Treatment Plant (ETP): YES

Discharge Type: Direct Discharge

Off-site ETP name (if applicable): /

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: Exceed Foundational Limit

Test Period: June 04, 2021 to June 16, 2021

Sample Description:

I001) Bluish liquid – Raw Wastewater

I002) Colorless liquid – Discharged After treatment Wastewater

Parameters exceeded holding Time: N/A

“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 -TC631221000073740P

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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

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

* The sampling is agreed with client.

BUREAU VERITAS CONSUMER PRODUCTS SERVICES (INDIA) PVT. LTD.

SIGNATORIES

RAHUL SRIVASTAVA
(Manager – Analytical)



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"/>	<input type="checkbox"/>
ANIONS - Sulfide	NR	<input type="checkbox"/>
ANIONS - Sulfite	NR	<input type="checkbox"/>
1B) Conventional Parameters – METALS	■	<input type="checkbox"/>

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
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
- 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) Discharged Wastewater (Raw wastewater) and 2) Discharged Wastewater (Treated wastewater). Total number of sample collected will be depended on the actual factory facilities and manufacturing processes.

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

Remark :

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



Test Result

1A) Conventional Parameters

Temperature

Test Method : Measurement by thermometer

Tested Item(s)	Result	Unit	Conclusion
I002	34 (Foundational)	deg. C	DATA

Note:

deg. C = degree Celsius (°C)

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

Total Suspended Solids (TSS)

Test Method : APHA 2540D

Tested Item(s)	Result	Unit	Conclusion
I002	9 (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 : APHA 5220D

Tested Item(s)	Result	Unit	Conclusion
I002	56 (Progressive)	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 : APHA 4500-Norg-B

Tested Item(s)	Result	Unit	Conclusion
I002	1.12 (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

-	Unit	Result
Test Item(s)	-	I002
Parameter	-	-
Temp. of sample	deg. C	34
pH value of sample		7.5 (Comply with ZDHC WWG requirements)
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	0.9;0.7;0.7 (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⁻¹Biochemical Oxygen Demand (BOD₅)**Test Method** : APHA 5210B

Tested Item(s)	Result	Unit	Conclusion
I002	12 (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

Ammonia Nitrogen**Test Method** : APHA 4500 NH₃-C

Tested Item(s)	Result	Unit	Conclusion
I002	< 1.0 (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

Total Phosphorus (Total-P)**Test Method** : APHA 4500P-D

Tested Item(s)	Result	Unit	Conclusion
I002	<0.05 (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 Halogen (AOX)**Test Method** : Reference to ISO 9562

Tested Item(s)	Result	Unit	Conclusion
I002	0.61 (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 ISO 9377-2/ APHA 5520-B

Tested Item(s)	Result	Unit	Conclusion
I002	< 2.0 (Aspirational)	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	< 0.01 (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

Tested Item(s)	Result	Unit	Conclusion
I002	Absent (Aspirational)	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

Foam**Test Method** : Visual

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

ANIONS - Sulfide**Test Method** : APHA 4500 S²⁻-F

Tested Item(s)	Result	Unit	Conclusion
I002	< 2.0	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/ APHA 4500 SO₃²⁻-B

Tested Item(s)	Result	Unit	Conclusion
I002	< 2.0 (Progressive)	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



1B) Conventional Parameters – METALS

Heavy Metals	I001 (µg/L)	I002 (µg/L)
Antimony(Sb) <i>Foundational Limit: 100 ug/L; Progressive Limit: 50 ug/L; Aspirational Limit: 10 ug/L</i>	ND (Aspirational)	ND (Aspirational)
Chromium(Cr), total <i>Foundational Limit: 200 ug/L; Progressive Limit: 100 ug/L; Aspirational Limit: 50 ug/L</i>	1124 (Exceed Foundational Limit)	ND (Aspirational)
Cobalt(Co) <i>Foundational Limit: 50 ug/L; Progressive Limit: 10 ug/L; Aspirational Limit: 5 ug/L</i>	ND (Aspirational)	ND (Aspirational)
Copper(Cu) <i>Foundational Limit: 2000 ug/L; Progressive Limit: 100 ug/L; Aspirational Limit: 50 ug/L</i>	797 (Progressive)	ND (Aspirational)
Nickel(Ni) <i>Foundational Limit: 200 ug/L; Progressive Limit: 20 ug/L; Aspirational Limit: 5 ug/L</i>	190 (Progressive)	ND (Aspirational)
Silver(Ag) <i>Foundational Limit: 100 ug/L; Progressive Limit: 10 ug/L; Aspirational Limit: 1 ug/L</i>	ND (Aspirational)	ND (Aspirational)
Zinc(Zn) <i>Foundational Limit: 5000 ug/L; Progressive Limit: 1000 ug/L; Aspirational Limit: 100 ug/L</i>	639 (Progressive)	ND (Aspirational)
Arsenic(As) <i>Foundational Limit: 50 ug/L; Progressive Limit: 10 ug/L; Aspirational Limit: 5 ug/L</i>	2 (Aspirational)	2 (Aspirational)
Cadmium(Cd) <i>Foundational Limit: 100 ug/L; Progressive Limit: 5 ug/L; Aspirational Limit: 1 ug/L</i>	ND (Aspirational)	ND (Aspirational)
Lead(Pb) <i>Foundational Limit: 100 ug/L; Progressive Limit: 10 ug/L; Aspirational Limit: 5 ug/L</i>	7 (Progressive)	ND (Aspirational)
Mercury(Hg) <i>Foundational Limit: 10 ug/L; Progressive Limit: 1 ug/L; Aspirational Limit: 0.5 ug/L</i>	ND (Aspirational)	ND (Aspirational)
Chromium VI(CrVI) <i>Foundational Limit: 50 ug/L; Progressive Limit: 5 ug/L; Aspirational Limit: 1 ug/L</i>	ND (Aspirational)	ND (Aspirational)
Cyanide(CN-) <i>Foundational Limit: 200 ug/L; Progressive Limit: 100 ug/L; Aspirational Limit: 50 ug/L</i>	ND (Aspirational)	ND (Aspirational)

Others Priority Chemical Groups

	I001 (µg/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 A.
- ND = Not detected (Please refer to reporting limit shown in Appendix A.).
- All results are in ppb as unit.
- ppm = part(s) per million; ppb = part(s) per billion.
- NR – Not Requested / Not required

APPENDIX A - Photo of the Sample/ Sampling Location

<p>I001) Sampling Point</p>  <p>Sampling location as per GPS (North 28.6430668, East77.2890102)</p>	<p>I001) Sampling Point Surrounding Environment</p>  <p>Sampling location as per GPS (North 28.6430668, East77.2890102)</p>
<p>I001) pH Value</p>  <p>Sampling location as per GPS (North 28.6430668, East77.2890102)</p>	<p>I001) All sampled bottles with label</p>  <p>Sampling location as per GPS (North 28.6430668, East77.2890102)</p>
<p>I001) Sample for Phthalate Testing</p>  <p>Sampling location as per GPS (North 28.6430668, East77.2890102)</p>	<p>I001) Packaging</p>  <p>Sampling location as per GPS (North 28.6430668, East77.2890102)</p>

I002) Sampling Point



Sampling location as per GPS
(North 28.6430668, East77.2890102)

I002) Sampling Point Surrounding Environment



Sampling location as per GPS
(North 28.6430668, East77.2890102)

I002) pH Value



Sampling location as per GPS
(North 28.6430668, East77.2890102)

I002) All sampled bottles with label



Sampling location as per GPS
(North 28.6430668, East77.2890102)

I002) Sample for Phthalate Testing



Sampling location as per GPS
(North 28.6430668, East77.2890102)

I002) Packaging



Sampling location as per GPS
(North 28.6430668, East77.2890102)



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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	
	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	
	3,4-Dichlorophenol	95-77-2	0.5	0.05	



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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)	
	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	
	C.I. Basic Green 4 (malachite green)	10309-95-2	500	10	
	Disperse Orange 11	82-28-0	500	10	
	Disperse Yellow 1	119-15-3	50	2	
2F. Dyes-disperse	Disperse Yellow 1	119-15-3	50	2	Liquid Extraction



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			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
(sensitizing)	Disperse Blue 102	12222-97-8	50	2	LC/MS
	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	
	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	

ULR -TC631221000073740P

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	Tetrachloroethylene	127-18-4	1	2	
2J. Organotin Compounds	Mono-, di- and trimethyltin 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	
	Diocetyl tin	Multiple	0.01	0.2	
	Triocetyl tin	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	
	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	68515-42-4	10	2	



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			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	(DHNUP)				
	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	
1A. Conventional Parameters	m-cresol	108-39-4	1	2	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
	Temperature	—	N/A	N/A	
	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	
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			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
	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	



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			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	Silver (Ag)	7440-22-4	0.001	N/A	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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FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)		CPQD-KV-00013 DATA 08	
		Issue Date:	
		Version No.:	03
		Business Line:	Analytical
General Data			
Laboratory Sample Number: (6721)-155-0205			
Client Name: Shanta Kud			
Field Contact Name: Mohan Kumar (42B)			
Project (Facility Name and Address): Mohan Kumar			
Sampling Location / Description: Zero discharge unit sampling site			
Sample Identification: Composite Sample: Bulk Sample (Please indicate as appropriate)			
Name of Sample: Shanta Kud			
Discharge mode: Zero discharge to environment (Specify location: Pond, Sea, Stream) / Off industrial discharge to sewage treatment plant			
Date of collection: 07/07/21			
Factory Type: Other (Specify:) (Other: general facility)			
Take 10 ml for each test (Note:)			
Field Data for the Sample			
As Is / Time	11:00	Equivalent Time	
Field Parameters	pH: 7.5	Temp: °C	Date: / /
Count to 100 of test equipment			
Factory with effluent treatment plant	Yes		No
Sample matrix:	Incoming water: (If treated)		
	Manufacture waste effluent		
	Household effluent: water at discharge point		
Sample container / volume			
Recording time	11:30	11:30	11:30
pH	7.5	7.5	7.5
Temp (°C)	28	28	28
Scale (check calibration)	11	11	11
Flow rate (liters/min)	200	200	200
Volume collected (mL)	200	200	200
Total volume collected	1416	Note: Total volume collected must be greater than total of sample size returned	
Analysis Required and Preservation Method			
Tests (IPEC MRL Parameters)	Test required (Y/N)	Total of sample size	Preservation method
1. Petrolene	✓	100 mL, 100 mL	Refrigerated at 4°C
2. Chloroform, Dichloromethane, & Toluene	✓	100 mL, 100 mL	
3. Aqueous	✓	100 mL	
4. Aqueous	✓	100 mL	
5. Aqueous	✓	100 mL	
6. Aqueous	✓	100 mL	
7. Aqueous	✓	100 mL	
8. Aqueous	✓	100 mL	
9. Aqueous	✓	100 mL	
10. Aqueous	✓	100 mL	
11. Aqueous	✓	100 mL	
12. Aqueous	✓	100 mL	
13. Aqueous	✓	100 mL	
14. Aqueous	✓	100 mL	
15. Aqueous	✓	100 mL	
16. Aqueous	✓	100 mL	
17. Aqueous	✓	100 mL	
18. Aqueous	✓	100 mL	
19. Aqueous	✓	100 mL	
20. Aqueous	✓	100 mL	
21. Aqueous	✓	100 mL	
22. Aqueous	✓	100 mL	
23. Aqueous	✓	100 mL	
24. Aqueous	✓	100 mL	
25. Aqueous	✓	100 mL	
26. Aqueous	✓	100 mL	
27. Aqueous	✓	100 mL	
28. Aqueous	✓	100 mL	
29. Aqueous	✓	100 mL	
30. Aqueous	✓	100 mL	
31. Aqueous	✓	100 mL	
32. Aqueous	✓	100 mL	
33. Aqueous	✓	100 mL	
34. Aqueous	✓	100 mL	
35. Aqueous	✓	100 mL	
36. Aqueous	✓	100 mL	
37. Aqueous	✓	100 mL	
38. Aqueous	✓	100 mL	
39. Aqueous	✓	100 mL	
40. Aqueous	✓	100 mL	
41. Aqueous	✓	100 mL	
42. Aqueous	✓	100 mL	
43. Aqueous	✓	100 mL	
44. Aqueous	✓	100 mL	
45. Aqueous	✓	100 mL	
46. Aqueous	✓	100 mL	
47. Aqueous	✓	100 mL	
48. Aqueous	✓	100 mL	
49. Aqueous	✓	100 mL	
50. Aqueous	✓	100 mL	
51. Aqueous	✓	100 mL	
52. Aqueous	✓	100 mL	
53. Aqueous	✓	100 mL	
54. Aqueous	✓	100 mL	
55. Aqueous	✓	100 mL	
56. Aqueous	✓	100 mL	
57. Aqueous	✓	100 mL	
58. Aqueous	✓	100 mL	
59. Aqueous	✓	100 mL	
60. Aqueous	✓	100 mL	
61. Aqueous	✓	100 mL	
62. Aqueous	✓	100 mL	
63. Aqueous	✓	100 mL	
64. Aqueous	✓	100 mL	
65. Aqueous	✓	100 mL	
66. Aqueous	✓	100 mL	
67. Aqueous	✓	100 mL	
68. Aqueous	✓	100 mL	
69. Aqueous	✓	100 mL	
70. Aqueous	✓	100 mL	
71. Aqueous	✓	100 mL	
72. Aqueous	✓	100 mL	
73. Aqueous	✓	100 mL	
74. Aqueous	✓	100 mL	
75. Aqueous	✓	100 mL	
76. Aqueous	✓	100 mL	
77. Aqueous	✓	100 mL	
78. Aqueous	✓	100 mL	
79. Aqueous	✓	100 mL	
80. Aqueous	✓	100 mL	
81. Aqueous	✓	100 mL	
82. Aqueous	✓	100 mL	
83. Aqueous	✓	100 mL	
84. Aqueous	✓	100 mL	
85. Aqueous	✓	100 mL	
86. Aqueous	✓	100 mL	
87. Aqueous	✓	100 mL	
88. Aqueous	✓	100 mL	
89. Aqueous	✓	100 mL	
90. Aqueous	✓	100 mL	
91. Aqueous	✓	100 mL	
92. Aqueous	✓	100 mL	
93. Aqueous	✓	100 mL	
94. Aqueous	✓	100 mL	
95. Aqueous	✓	100 mL	
96. Aqueous	✓	100 mL	
97. Aqueous	✓	100 mL	
98. Aqueous	✓	100 mL	
99. Aqueous	✓	100 mL	
100. Aqueous	✓	100 mL	

