



TEST REPORT

Technical Report (6721)190-0036 July 23, 2021

Date Received July 09, 2021 Page 1 of 23

Factory Company Name: VARDHMAN FABRICS (A UNIT OF VARDHMAN TEXTILES LTD)

Factory Address: REHTI ROAD, TEHSIL- BUDNI, DIST. SEHORE (MADHYA PRADESH)-466445
Project No.: /
Client Reference No.: /

Sampling Method: I001) Raw Wastewater (Color)– 6 hours Time – weighted Composite
I002) Raw Wastewater (Non- Color) – 6 hours Time – weighted Composite
I003) Discharged Wastewater – 6 hours Time – weighted Composite

Sample Pick Up Date: July 07, 2021
Wastewater Discharge to: Direct Discharge (80% RO (Recycled)/ 20% Gardening/ Irrigation)
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: AWB-53163
Permit Validation Date: 02/01/2021 to 31/03/2024

Parameters Exceeded Local Regulation: N/A
Legal compliance: N/A

Conventional Parameters Overall Category: Foundational Limit
Test Period: July 07, 2021 to July 23, 2021

Sample Description: I001) Dark Blue Color liquid – Raw Wastewater (Color)
I002) Transparent Color liquid – Raw Wastewater (Non- Color)
I003) Light Grey Color liquid – Discharged 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 -TC631221000094255P

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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	I003
Temperature	NR	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"/>	<input type="checkbox"/>
ANIONS - Sulfide	NR	NR	<input type="checkbox"/>
ANIONS - Sulfite	NR	NR	<input type="checkbox"/>
1B) Conventional Parameters – METALS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note / Key :

- ☐ – Meet Foundational Limit / Meet discharge license criteria/ Meet Reporting
- ☒ – Exceeding Foundational Limit / Exceeding discharge license criteria/Exceeding
- NR – Not Requested / Not required

ZDHC MRS� Substances	I001	I002	I003
2A) APs and APEOs	0	0	0
2B) Chlorobenzenes and Chlorotoluenes	0	0	0
2C) Chlorophenols	0	0	0
2D) Azo Dyes	0	0	0
2E) Carcinogenic Dyes	0	0	0
2F) Disperse Dyes	0	0	0
2G) Flame Retardants	0	0	0
2H) Glycols	0	0	0
2I) Halogenated Solvents	0	0	0
2J) Organotin Compounds	0	0	0
2K) Perfluorinated and Polyfluorinated	0	0	0
2L) Phthalates	0	0	0
2M) Poly Aromatic Hydrocarbons	0	0	0
2N) Volatile Organic Compounds	0	0	0



Note / Key :

- ● – Detected
- ○ – 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) Raw Wastewater (Color Raw wastewater) , 2) Discharged Wastewater (Non-Color Raw wastewater) and 3) 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
I003	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
I003	10 (Progressive)	mg/L	DATA

Note:

mg/L = milligram per liter

Foundational Limit: 50 mg/L; Progressive Limit: 15 mg/L; Aspirational Limit: 5 mg/L

Chemical Oxygen Demand (COD)

Test Method : APHA 5220D

Tested Item(s)	Result	Unit	Conclusion
I003	75 (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
I003	<1.0 (Aspirational)	mg/L	DATA

Note:



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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)	-	I003
Parameter	-	-
Temp. of sample	deg. C	34
pH value of sample		8.2 (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
I003	2.7;1.0;0.6 (Progressive)	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}

Biochemical Oxygen Demand (BOD₅)

Test Method : APHA 5210B

Tested Item(s)	Result	Unit	Conclusion
I003	15 (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
I003	<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
I003	<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
I003	0.76 (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
I003	< 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
I003	< 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
I003	8 (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
I003	No foam (Comply with ZDHC WWG requirements)	-	DATA

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

Tested Item(s)	Result	Unit	Conclusion
I003	< 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
I003	< 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)	I003 (µg/L)
Antimony(Sb) Foundational Limit: 100 ug/L; Progressive Limit: 50 ug/L; Aspirational Limit: 10 ug/L	2 (Aspirational)	2 (Aspirational)	8 (Aspirational)
Chromium(Cr), total Foundational Limit: 200 ug/L; Progressive Limit: 100 ug/L; Aspirational Limit: 50 ug/L	12 (Aspirational)	8 (Aspirational)	10 (Aspirational)
Cobalt(Co) Foundational Limit: 50 ug/L; Progressive Limit: 10 ug/L; Aspirational Limit: 5 ug/L	ND (Aspirational)	ND (Aspirational)	ND (Aspirational)
Copper(Cu) Foundational Limit: 2000 ug/L; Progressive Limit: 100 ug/L; Aspirational Limit: 50 ug/L	794 (Foundational)	60 (Progressive)	54 (Progressive)
Nickel(Ni) Foundational Limit: 200 ug/L; Progressive Limit: 20 ug/L; Aspirational Limit: 5 ug/L	7 (Progressive)	6 (Progressive)	8 (Progressive)
Silver(Ag) Foundational Limit: 100 ug/L; Progressive Limit: 10 ug/L; Aspirational Limit: 1 ug/L	ND (Aspirational)	ND (Aspirational)	ND (Aspirational)
Zinc(Zn) Foundational Limit: 5000 ug/L; Progressive Limit: 1000 ug/L; Aspirational Limit: 100 ug/L	35 (Aspirational)	52 (Aspirational)	64 (Aspirational)
Arsenic(As) Foundational Limit: 50 ug/L; Progressive Limit: 10 ug/L; Aspirational Limit: 5 ug/L	ND (Aspirational)	ND (Aspirational)	ND (Aspirational)
Cadmium(Cd) Foundational Limit: 100 ug/L; Progressive Limit: 5 ug/L; Aspirational Limit: 1 ug/L	0.10 (Aspirational)	ND (Aspirational)	0.16 (Aspirational)
Lead(Pb) Foundational Limit: 100 ug/L; Progressive Limit: 10 ug/L; Aspirational Limit: 5 ug/L	4 (Aspirational)	5 (Aspirational)	4 (Aspirational)
Mercury(Hg) Foundational Limit: 10 ug/L; Progressive Limit: 1 ug/L; Aspirational Limit: 0.5 ug/L	ND (Aspirational)	ND (Aspirational)	ND (Aspirational)



Heavy Metals	I001 (µg/L)	I002 (µg/L)	I003 (µg/L)
Chromium VI(CrVI) Foundational Limit: 50 ug/L; Progressive Limit: 5 ug/L; Aspirational Limit: 1 ug/L	ND (Aspirational)	ND (Aspirational)	ND (Aspirational)
Cyanide(CN-) Foundational Limit: 200 ug/L; Progressive Limit: 100 ug/L; Aspirational Limit: 50 ug/L	ND (Aspirational)	ND (Aspirational)	ND (Aspirational)

Others Priority Chemical Groups

	I001 (µg/L)	I002 (µg/L)	I003 (µg/L)
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 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

I001) Sampling Point



Sampling location as per GPS
(North 28.5999104, East 77.3193728)

I001) Sampling Point Surrounding Environment



Sampling location as per GPS
(North 28.5999104, East 77.3193728)

I001) pH Value



Sampling location as per GPS
(North 28.5999104, East 77.3193728)

I001) All sampled bottles with label



Sampling location as per GPS
(North 28.5999104, East 77.3193728)

I001) Sample for Phthalate Testing



Sampling location as per GPS

I001) Packaging



Sampling location as per GPS
(North 28.5999104, East 77.3193728)

(North 28.5999104, East 77.3193728)

I002) Sampling Point



Sampling location as per GPS
(North 28.5999104, East 77.3193728)

I002) Sampling Point Surrounding Environment



Sampling location as per GPS
(North 28.5999104, East 77.3193728)

I002) pH Value



Sampling location as per GPS
(North 28.5999104, East 77.3193728)

I002) All sampled bottles with label



Sampling location as per GPS
(North 28.5999104, East 77.3193728)

I002) Sample for Phthalate Testing



Sampling location as per GPS
(North 28.5999104, East 77.3193728)

I002) Packaging



Sampling location as per GPS
(North 28.5999104, East 77.3193728)

I003) Sampling Point



Sampling location as per GPS
(North 28.5999104, East 77.3193728)

I003) Sampling Point Surrounding Environment



Sampling location as per GPS
(North 28.5999104, East 77.3193728)

I003) pH Value



Sampling location as per GPS
(North 28.5999104, East 77.3193728)

I003) All sampled bottles with label



Sampling location as per GPS



(North 28.5999104, East 77.3193728)

I003) Sample for Phthalate Testing

Sampling location as per GPS
(North 28.5999104, East 77.3193728)

I003) Packaging

Sampling location as per GPS
(North 28.5999104, East 77.3193728)

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)
	Nonylphenol ethoxylates (NPEO)	Various (incl. 9016-45-9, 26027-38-3, 37205-87-1,	5	0.4	



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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)	
		68412-54-4, 127087-87-0)			APEO 1-18
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	
	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	

ULR -TC631221000094255P

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			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	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	
2E. Dyes-Carcinogenic or Equivalent Concern	o-Aminoazotoluene	97-56-3	0.1	0.2	Liquid Extraction LC/MS
	5-nitro-o-toluidine	99-55-8	0.1	0.2	
	C.I. Direct Black 38	1937-37-7	500	10	
	C.I. Direct Blue 6	2602-46-2	500	10	
	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	
2F. Dyes-disperse (sensitizing)	Disperse Orange 11	82-28-0	500	10	Liquid Extraction LC/MS
	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	

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			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	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-dichloro-isopropyl) 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	



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			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	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	
	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	



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			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	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 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	

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			Wastewater (ug/L)/(ppb)	Sludge (mg/kg)/(ppm)	
	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)

CPSC-AH-00013-DATA 98
Issue Date: _____
Version No.: 10
Business Unit: Analytical

Project Information:
Client Name: Bureau Veritas
Client Address: 10000 Boul. de l'Industrie
Project Name: CPSC-AH-00013-DATA 98
Sampling Location: RECHT Road
Sample Matrix: Water
Sample Type: Discharge
Name of Sample: Discharge
Discharge Code: 0710714
Date of Collection: 07/10/21
Factory Type: Printing / Washing

Field Data:
Arrival Time: 10:40 Departure Time: _____
Field Parameters: Temp 10 10 10 10 10 10 10
Closest No. of field equipment: _____
Facilities with effluent treatment plant: _____
Barrel number: _____
Sampling volume (L): _____
Recording time: _____
Temp (°C): _____
pH: _____
Flow rate (m³/min): _____
Volume collected (mL): _____
Total volume collected: _____

Analysis Requested and Preservation Method

Test	Test required	Test of sample size	Type of container	Preservation method
1. pH	✓	100 mL (min)		
2. Conductivity	✓	100 mL (min)		
3. SODs	✓	100 mL (min)		
4. APD	✓	100 mL		
5. AMGs	✓	100 mL		
6. Organics & Metals	✓	100 mL		
7. Heavy Metals	✓	100 mL		
8. Dyes	✓	10 mL		
9. Hardness	✓	100 mL		
10. Phosphates	✓	100 mL		
11. Nitrogen	✓	10 mL		
12. Barium Azide	✓	100 mL		
13. Free primary amine	✓	100 mL		
14. Organic Compounds	✓	100 mL		
15. VOC & Pesticides Solvents (Remark 1)	✓	10 mL		
16. BODs (Remark 1)	✓	10 mL		

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**FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE
(COMPOSITE / INDIVIDUAL SAMPLING)**

CPSD-AN-00613-DATA 04
Issue Date: _____
Version No.: 1.0
Registered Under: Analytical

Client Information
Laboratory Sample Number: (6721) 190-0036
Client Name: Bardhaman Bhabani
Field Contact Person: Mr. Guha
Project Name and Address: BKDI (H.P.)
Sampling Location / Description: Duff. J.B.
Sample Description: Direct discharge in an unlined, gravity fed irrigation canal. Area: 500m x 100m (approx) to be sampled between 100m and 200m from the discharge point.
Sample Type: Direct
Name of Sampler: H.P.
Discharge mode: Direct
Date of collection: 17/12/21
Period Type: Direct

Field Data for Measurements

Actual Time	Discharge Time	Temp	TC	Color	Flow rate	Concentration
11:10	12:10	10.8	10.6	10.5	10.4	10.8
10:55	10:50	10.6	10.5	10.4	10.3	10.8
10:40	10:35	10.5	10.4	10.3	10.2	10.8
10:25	10:20	10.4	10.3	10.2	10.1	10.8
10:10	10:05	10.3	10.2	10.1	10.0	10.8
10:00	09:55	10.2	10.1	10.0	9.9	10.8
09:50	09:45	10.1	10.0	9.9	9.8	10.8
09:40	09:35	10.0	9.9	9.8	9.7	10.8
09:30	09:25	9.9	9.8	9.7	9.6	10.8
09:20	09:15	9.8	9.7	9.6	9.5	10.8
09:10	09:05	9.7	9.6	9.5	9.4	10.8
09:00	08:55	9.6	9.5	9.4	9.3	10.8
08:50	08:45	9.5	9.4	9.3	9.2	10.8
08:40	08:35	9.4	9.3	9.2	9.1	10.8
08:30	08:25	9.3	9.2	9.1	9.0	10.8
08:20	08:15	9.2	9.1	9.0	8.9	10.8
08:10	08:05	9.1	9.0	8.9	8.8	10.8
08:00	07:55	9.0	8.9	8.8	8.7	10.8
07:50	07:45	8.9	8.8	8.7	8.6	10.8
07:40	07:35	8.8	8.7	8.6	8.5	10.8
07:30	07:25	8.7	8.6	8.5	8.4	10.8
07:20	07:15	8.6	8.5	8.4	8.3	10.8
07:10	07:05	8.5	8.4	8.3	8.2	10.8
07:00	06:55	8.4	8.3	8.2	8.1	10.8
06:50	06:45	8.3	8.2	8.1	8.0	10.8
06:40	06:35	8.2	8.1	8.0	7.9	10.8
06:30	06:25	8.1	8.0	7.9	7.8	10.8
06:20	06:15	8.0	7.9	7.8	7.7	10.8
06:10	06:05	7.9	7.8	7.7	7.6	10.8
06:00	05:55	7.8	7.7	7.6	7.5	10.8
05:50	05:45	7.7	7.6	7.5	7.4	10.8
05:40	05:35	7.6	7.5	7.4	7.3	10.8
05:30	05:25	7.5	7.4	7.3	7.2	10.8
05:20	05:15	7.4	7.3	7.2	7.1	10.8
05:10	05:05	7.3	7.2	7.1	7.0	10.8
05:00	04:55	7.2	7.1	7.0	6.9	10.8
04:50	04:45	7.1	7.0	6.9	6.8	10.8
04:40	04:35	7.0	6.9	6.8	6.7	10.8
04:30	04:25	6.9	6.8	6.7	6.6	10.8
04:20	04:15	6.8	6.7	6.6	6.5	10.8
04:10	04:05	6.7	6.6	6.5	6.4	10.8
04:00	03:55	6.6	6.5	6.4	6.3	10.8
03:50	03:45	6.5	6.4	6.3	6.2	10.8
03:40	03:35	6.4	6.3	6.2	6.1	10.8
03:30	03:25	6.3	6.2	6.1	6.0	10.8
03:20	03:15	6.2	6.1	6.0	5.9	10.8
03:10	03:05	6.1	6.0	5.9	5.8	10.8
03:00	02:55	6.0	5.9	5.8	5.7	10.8
02:50	02:45	5.9	5.8	5.7	5.6	10.8
02:40	02:35	5.8	5.7	5.6	5.5	10.8
02:30	02:25	5.7	5.6	5.5	5.4	10.8
02:20	02:15	5.6	5.5	5.4	5.3	10.8
02:10	02:05	5.5	5.4	5.3	5.2	10.8
02:00	01:55	5.4	5.3	5.2	5.1	10.8
01:50	01:45	5.3	5.2	5.1	5.0	10.8
01:40	01:35	5.2	5.1	5.0	4.9	10.8
01:30	01:25	5.1	5.0	4.9	4.8	10.8
01:20	01:15	5.0	4.9	4.8	4.7	10.8
01:10	01:05	4.9	4.8	4.7	4.6	10.8
01:00	00:55	4.8	4.7	4.6	4.5	10.8
00:50	00:45	4.7	4.6	4.5	4.4	10.8
00:40	00:35	4.6	4.5	4.4	4.3	10.8
00:30	00:25	4.5	4.4	4.3	4.2	10.8
00:20	00:15	4.4	4.3	4.2	4.1	10.8
00:10	00:05	4.3	4.2	4.1	4.0	10.8
00:00	23:55	4.2	4.1	4.0	3.9	10.8
23:50	23:45	4.1	4.0	3.9	3.8	10.8
23:40	23:35	4.0	3.9	3.8	3.7	10.8
23:30	23:25	3.9	3.8	3.7	3.6	10.8
23:20	23:15	3.8	3.7	3.6	3.5	10.8
23:10	23:05	3.7	3.6	3.5	3.4	10.8
23:00	22:55	3.6	3.5	3.4	3.3	10.8
22:50	22:45	3.5	3.4	3.3	3.2	10.8
22:40	22:35	3.4	3.3	3.2	3.1	10.8
22:30	22:25	3.3	3.2	3.1	3.0	10.8
22:20	22:15	3.2	3.1	3.0	2.9	10.8
22:10	22:05	3.1	3.0	2.9	2.8	10.8
22:00	21:55	3.0	2.9	2.8	2.7	10.8
21:50	21:45	2.9	2.8	2.7	2.6	10.8
21:40	21:35	2.8	2.7	2.6	2.5	10.8
21:30	21:25	2.7	2.6	2.5	2.4	10.8
21:20	21:15	2.6	2.5	2.4	2.3	10.8
21:10	21:05	2.5	2.4	2.3	2.2	10.8
21:00	20:55	2.4	2.3	2.2	2.1	10.8
20:50	20:45	2.3	2.2	2.1	2.0	10.8
20:40	20:35	2.2	2.1	2.0	1.9	10.8
20:30	20:25	2.1	2.0	1.9	1.8	10.8
20:20	20:15	2.0	1.9	1.8	1.7	10.8
20:10	20:05	1.9	1.8	1.7	1.6	10.8
20:00	19:55	1.8	1.7	1.6	1.5	10.8
19:50	19:45	1.7	1.6	1.5	1.4	10.8
19:40	19:35	1.6	1.5	1.4	1.3	10.8
19:30	19:25	1.5	1.4	1.3	1.2	10.8
19:20	19:15	1.4	1.3	1.2	1.1	10.8
19:10	19:05	1.3	1.2	1.1	1.0	10.8
19:00	18:55	1.2	1.1	1.0	0.9	10.8
18:50	18:45	1.1	1.0	0.9	0.8	10.8
18:40	18:35	1.0	0.9	0.8	0.7	10.8
18:30	18:25	0.9	0.8	0.7	0.6	10.8
18:20	18:15	0.8	0.7	0.6	0.5	10.8
18:10	18:05	0.7	0.6	0.5	0.4	10.8
18:00	17:55	0.6	0.5	0.4	0.3	10.8
17:50	17:45	0.5	0.4	0.3	0.2	10.8
17:40	17:35	0.4	0.3	0.2	0.1	10.8
17:30	17:25	0.3	0.2	0.1	0.0	10.8
17:20	17:15	0.2	0.1	0.0	0.0	10.8
17:10	17:05	0.1	0.0	0.0	0.0	10.8
17:00	16:55	0.0	0.0	0.0	0.0	10.8
16:50	16:45	0.0	0.0	0.0	0.0	10.8
16:40	16:35	0.0	0.0	0.0	0.0	10.8
16:30	16:25	0.0	0.0	0.0	0.0	10.8
16:20	16:15	0.0	0.0	0.0	0.0	10.8
16:10	16:05	0.0	0.0	0.0	0.0	10.8
16:00	15:55	0.0	0.0	0.0	0.0	10.8
15:50	15:45	0.0	0.0	0.0	0.0	10.8
15:40	15:35	0.0	0.0	0.0	0.0	10.8
15:30	15:25	0.0	0.0	0.0	0.0	10.8
15:20	15:15	0.0	0.0	0.0	0.0	10.8
15:10	15:05	0.0	0.0	0.0	0.0	10.8
15:00	14:55	0.0	0.0	0.0	0.0	10.8
14:50	14:45	0.0	0.0	0.0	0.0	10.8
14:40	14:35	0.0	0.0	0.0	0.0	10.8
14:30	14:25	0.0	0.0	0.0	0.0	10.8
14:20	14:15	0.0	0.0	0.0	0.0	10.8
14:10	14:05	0.0	0.0	0.0	0.0	10.8
14:00	13:55	0.0	0.0	0.0	0.0	10.8
13:50	13:45	0.0	0.0	0.0	0.0	10.8
13:40	13:35	0.0	0.0	0.0	0.0	10.8
13:30	13:25	0.0	0.0	0.0	0.0	10.8
13:20	13:15	0.0	0.0	0.0	0.0	10.8
13:10	13:05	0.0	0.0	0.0	0.0	10.8
13:00	12:55	0.0	0.0	0.0	0.0	10.8
12:50	12:45	0.0	0.0	0.0	0.0	10.8
12:40	12:35	0.0	0.0	0.0	0.0	10.8
12:30	12:25	0.0	0.0	0.0	0.0	10.8
12:20	12:15	0.0	0.0	0.0	0.0	10.8
12:10	12:05	0.0	0.0	0.0	0.0	10.8
12:00	11:55	0.0	0.0	0.0	0.0	10.8
11:50	11:45	0.0	0.0	0.0	0.0	10.8
11:40	11:35	0.0	0.0	0.0	0.0	10.8
11:30	11:25	0.0	0.0	0.0	0.0	10.8
11:20	11:15	0.0	0.0	0.0	0.0	10.8
11:10	11:05	0.0	0.0	0.0	0.0	10.8
11:00	10:55	0.0	0.0	0.0	0.0	10.8
10:50	10:45	0.0	0.0	0.0	0.0	10.8
10:40	10:35	0.0	0.0	0.0	0.0	10.8
10:30	10:25	0.0	0.0	0.0	0.0	10.8
10:20	10:15	0.0	0.0	0.0	0.0	10.8
10:10	10:05	0.0	0.0	0.0	0.0	10.8
10:00	09:55	0.0	0.0	0.0	0.0	10.8
09:50	09:45	0.0	0.0	0.0	0.0	10.8
09:40	09:35	0.0	0.0	0.0	0.0	10.8
09:30	09:25	0.0	0.0	0.0	0.0	10.8
09:20	09:15	0.0	0.0	0.0	0.0	10.8
09:10	09:05	0.0	0.0	0.0	0.0	10.8
09:00	08:55	0.0	0.0	0.0		



Technical Report:

(6721)190-0036

July 23, 2021

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BUREAU VERITAS		FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)		CP9D-RH-00613-DATA 04	
Identification		Issue Date:		Version No. / 10	
Laboratory Sample Number		Business Line: Analytical			
Client Name		(6721)190-0036			
Field Contact Person		Mr. Sankar			
Project Name, Name and Address		Buda (MP)			
Sampling Location - Generation		Zero discharge effluent point			
Sample Identification		Composite Sample / Grab Sample / Periodic Sample as appropriate			
Sample Type		Discharge Test			
Name of Sample		Discharge to environment (Direct Discharge / Run - off / Run - off / Discharge to sewerage treatment plant)			
Discharge Mode		7/27/21			
Date of Collection		Discharge / Pumping / Venting / Flushing / Others (please specify)			
Factory Type		None (it is not a printed word that is)			
Field Test for Parameters					
Arrival Time	10:40 AM	Departure Time			
Field Parameters	PH	Temp	°C	Date	Flow rate (m³/min)
Control No. of test equipment					
Factory with effluent treatment plant					
Sample matrix		Wastewater before treatment			
Sample container number		Wastewater after treatment - water for discharge point			
Sampling time	11:20	12:00	1:20	2:30	3:20
PH	8.2	8.0	8.9	7.6	7.7
Temp (°C)	24.0	26.0	28.0	34.0	34.0
Color (Pt-Co)	10	10	10	10	10
Flow rate (m³/min)	1.50	1.50	1.50	1.50	1.50
Volume collected (m³)	1500	1500	1500	1500	1500
Total volume collected	9.0				
Analysis Required and Preservation Method					
Tests (ZINC WADA Parameters)	Test required (Y/N)	Total or sample size	Age of container	Preservation method	
1. pH/acid	Y	100 mL			
2. Dissolved oxygen	Y	100 mL			
3. BOD5	Y	100 mL			
4. COD	Y	100 mL			
5. WBS	Y	100 mL			
6. Chlorides & Sulfates	Y	100 mL			
7. Fluoride	Y	100 mL			
8. Dye	Y	10 mL			
9. Sugar	Y	50 mL			
10. Phosphate	Y	100 mL			
11. Nitrate	Y	10 mL			
12. Nitrite	Y	100 mL			
13. Free chlorine residual	Y	100 mL			
14. Organic Compounds	Y	100 mL			
15. HCl & Hydrogen Sulfide (Parameter 5)	Y	10 mL			
16. HCl (Parameter 6)	Y	10 mL			

