

TEST REPORT

Technical Report:	(6821)238-0295	September 08, 2021
Date Received:	August 25, 2021	Page 1 of 22
Factory Company Name: Factory Address: Project No.: Client Reference No.: Sampling Method:	Pioneer Denim Ltd. Horitola, Shahapur Bazar, Madhabpur, Habiganj, 3333, Banglada Not Applicable Not Applicable I001) Raw Wastewater – 6 hours Time – weighted Composite I002) Treated Wastewater – 6 hours Time – weighted Composite	
Sample Pick Up Date: Wastewater Discharge to:	August 25, 2021 Government Canal	
On-Site Effluent Treatment Plant (ETP):	Yes	
Discharge Type:	Direct Discharge	
Off-site ETP name (if applicable): Off-site ETP address (if applicable):	Not Applicable Not Applicable	
Local Regulation: / Ordinance / requirements related to wastewater discharged are followed:	Not Applicable	
Permit Validation Date:	Not Applicable	
Parameters Exceeded Local Regulation	Not Applicable	
Legal compliance:	Not Applicable	
Conventional Parameters Overall	Foundational	
Category: Test Period:	August 26, 2021 To September 08, 2021	
Sample Description:		
	1001) Blue color liquid - Raw Wastewater 1002) Brown color liquid – Treated Wastewater	
Parameters exceeded maximum holding time:	Not Applicable	
<u>REMARK</u>		
If there are questions or concerns of	on this report, please contact the following persons:	
General enquiry	Mr. Sharan Roy, Mail: sharan.roy@bureauveritas.c	com
Invoicing	Mr. Mahabubur Rahman, Mail: mahabubur.rahma	n@bureauveritas.com

Bureau Veritas Consumer Products Services (BD) Ltd. Plot # 130, DEPZ Extension Area Ganakbari, Savar, Dhaka, Bangladesh Tel: 88-02-7701464-6, Fax: 88-02-7701463 E-mail: bvcps.bd@bd.bureauveritas.com website: cps.bureauveritas.com

Technical enquiry-Chemical

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Mr. M. Nur Alam, Mail: nur.alam@bureauveritas.com



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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 (BANGLADESH) LTD.

MD. RASHEDUL HAQUE MANAGER, RSL OPERATION



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Executive Summary

1A) Conventional Parameters	I001	1002
Temperature		
TSS		
COD		
Total-N		
pH Value		
Color [m ⁻¹] (436nm; 525nm; 620nm)		
BOD ₅		
Ammonium-N		
Total-P	NR	
AOX		
Oil and Grease		
Phenol		
Coliform		
Persistent Foam		
ANIONS – Cyanide		
ANIONS - Sulfide		
ANIONS - Sulfite		
1B) Conventional Parameters –METALS		

Note / Key:

- D Meet Foundational Limit / Meet discharge License Criteria
- ■ Exceeding Foundational Limit / Exceeding discharge License Criteria
- NR Not Requested / Not required

ZDHC MRSL Substances	I001	1002
2A) APs and APEOs	0	0
2B) Chlorobenzenes and Chlorotoluenes	0	0
2C) Chlorophenols	0	0
2D) Azo Dyes	0	0
2E) Carcinogenic Dyes	0	0
2F) Disperse Dyes	0	0
2G) Flame Retardants	0	0
2H) Glycols	0	0
2I) Halogenated Solvents	0	0
2J) Organotin Compounds	0	0
2K) Perfluorinated and Polyfluorinated Chemicals	0	0
2L) Phthalates	0	0
2M) Poly Aromatic Hydrocarbons	0	0
2N) Volatile Organic Compounds	0	0

Note / Key :

- • Detected
- o Not Detected
- NR Not Requested / Not required
- N/A Not Applicable



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Objective

The environment samples were tested for below parameters.

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

Sampling 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 on-site photos are attached in Appendix A and field data records are attached in Appendix C.



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Test Result

1A) Conventional Parameters

Temperature

Test Method : Measurement by thermometer

Tested Item(s)	Result	Unit	Conclusion
1002	34.8 (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 : Reference to ALPA 2540D, GB 11901, ISO 11923

Tested Item(s)	Result	Unit	Conclusion
1002	22 (Foundational)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 50 mg/L; Progressive Limit: 15 mg/L; Aspirational Limit: 5 mg/L

Chemical Oxygen Demand (COD)

Test Method : Reference to ALPA 5220B & EPA 410.3, HJ 828

Tested Item(s)	Result	Unit	Conclusion
1002	33 (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 150 mg/L; Progressive Limit: 80 mg/L; Aspirational Limit: 40 mg/L

Total Nitrogen (Total-N)

Test Method : Reference to APHA 4500- N-C

Tested Item(s)	Result	Unit	Conclusion
1002	7.8 (Progressive)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 20 mg/L; Progressive Limit: 10 mg/L; Aspirational Limit: 5 mg/L



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<u>pH Value</u>

Test Method : Reference to ISO 10523, EPA 150.2 and APHA 4500-H⁺

-	Unit	Result	
Test Item(s)	-	I002	
Parameter	-	-	
Temp. of sample	deg. C	23.6	
pH value of sample	-	8.0 (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 : ISO 7887: 2011(E), B

Tested Item(s)	Result	Unit	Conclusion
1002	4.2; 1.8; 1.1 (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 : Reference to APHA 5210B (5 days)

Tested Item(s)	Result	Unit	Conclusion
I002	11 (Progressive)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 30 mg/L; Progressive Limit: 15 mg/L; Aspirational Limit: 5 mg/L

Ammonium Nitrogen

Test Method : Reference to APHA 4500-NH₃ – B & F 22^{nd} Edition 2012

Tested Item(s)	Result	Unit	Conclusion
I002	0.31 (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter

Foundational Limit: 10 mg/L; Progressive Limit: 1 mg/L; Aspirational Limit: 0.5 mg/L



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Total Phosphorus (Total-P)

Test Method : Reference to APHA 22nd Edition -4500-P.E (2012)

Tested Item(s)	Result	Unit	Conclusion
1002	0.85 (Foundational)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 3 mg/L; Progressive Limit: 0.5 mg/L; Aspirational Limit: 0.1 mg/L

Adsorbable Organic Halogen (AOX)

Test Method : Reference to IHM - TTI/A-98 (Based on ISO 9562)

Tested Item(s)	Result	Unit	Conclusion
1002	1.41 (Foundational)	mg/L	DATA

Note:

mg/L = milligram per liter

Foundational Limit: 5 mg/L; Progressive Limit: 1 mg/L; Aspirational Limit: 0.1 mg/L

Oil and Grease

Test Method : Reference to EPA 1664B, APHA-5520 B and F

Tested Item(s)	Result	Unit	Conclusion
1002	1.2 (Progressive)	mg/L	DATA

Note:

mg/L = milligram per liter

Foundational Limit: 10 mg/L; Progressive Limit: 2 mg/L; Aspirational Limit: 0.5 mg/L

Phenol

Test Method : APHA 5530 C

Tested Item(s)	Result	Unit	Conclusion
1002	<0.001 (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter

Foundational Limit: 0.5 mg/L; Progressive Limit: 0.01 mg/L; Aspirational Limit: 0.001 mg/L

Coliform

Test Method : Reference to ISO 9308-1: 2014

Tested Item(s)	Result	Unit	Conclusion
1002	16 (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;



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Persistent Foam

Test Method : Visual

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

ANIONS - Cyanide

Test Method : Reference to APHA 22nd Edition-4500-CN. C&E (2012), EPA 9010C, 9013 & 9014

Tested Item(s)	Result	Unit	Conclusion
1002	ND (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter ND = Not detected

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

ANIONS - Sulfide

Test Method : Reference to APHA 4500-S²⁻D

Tested Item(s)	Result	Unit	Conclusion
1002	<0.1 (Foundational)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 0.5 mg/L; Progressive Limit: 0.05 mg/L; Aspirational Limit: 0.01 mg/L

ANIONS - Sulfite

Test Method : Reference to EPA 377.1, APHA $4500-SO_3^{2-}(2012)$

Tested Item(s)	Result	Unit	Conclusion
1002	0.5 (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



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1B) Conventional Parameters - METALS

Heavy Metals	I001 (<i>mg/L</i>)	I002 (mg/L)
Antimony(Sb)	· · ·	
Foundational Limit: 0.1 mg/L;	0.004	ND
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.01 mg/L	· • ·	
Chromium(Cr), total		
Foundational Limit: 0.2 mg/L;	0.011	0.004
Progressive Limit: 0.1 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.05 mg/L		
Cobalt(Co)		
Foundational Limit:0.05 mg/L;	ND	ND
Progressive Limit: 0.02 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.01 mg/L		
Copper(Cu)		
Foundational Limit: 1 mg/L;	ND	ND
Progressive Limit: 0.5 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.25 mg/L		
Nickel (Ni)		
Foundational Limit:.0.2 mg/L;	0.007	ND
Progressive Limit: 0.1 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.05 mg/L	((F)
Silver (Ag)		
Foundational Limit: 0.1 mg/L;	ND	ND
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.005 mg/L	((
Zinc(Zn)		
Foundational Limit: 5 mg/L;	0.271	0.289
Progressive Limit: 1 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.5 mg/L	(10)-11010100)	(Tispirational)
Arsenic (As)		
Foundational Limit: 0.05 mg/L;	0.002	0.003
Progressive Limit: 0.01 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.005 mg/L	(10)-11010100)	(Tispirational)
Cadmium(Cd)		
Foundational Limit: 0.1 mg/L;	ND	ND
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.01 mg/L	(10)-11010100)	(Tispitational)
Chromium VI(CrVI)		
Foundational Limit: 0.05 mg/L;	ND	ND
Progressive Limit: 0.005 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.001 mg/L	(isprenoini)	(representational)
Lead(Pb)		
Foundational Limit:0.1 mg/L;	0.002	0.001
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.01 mg/L	(rispiratolial)	(rispirational)
Mercury (Hg)		
Foundational Limit: 0.01 mg/L;	ND	ND
Progressive Limit: 0.005 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit :0.001 mg/L	(Aspiratolial)	(Aspirational)
Aspirational Linu .0.001 mg/L		



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Others Priority Chemical Groups

	I001 ($\mu g/L$)	I002 ($\mu g/L$)
2A) APs and APEOs	ND	ND
2B) Chlorobenzenes and Chlorotoluenes	ND	ND
2C) Chlorophenols	ND	ND
2D) Azo Dyes	ND	ND
2E) Carcinogenic Dyes	ND	ND
2F) Disperse Dyes	ND	ND
2G) Flame Retardants	ND	ND
2H) Glycols	ND	ND
2I) Halogenated Solvents	ND	ND
2J) Organotin Compounds	ND	ND
2K) Perfluorinated and Polyfluorinated Chemicals	ND	ND
2L) Phthalates	ND	ND
2M) Poly Aromatic Hydrocarbons	ND	ND
2N) Volatile Organic Compounds	ND	ND

Remark :

- Test method, reporting limit and list of chemical are summarized in tables of Appendix B.
- ND = Not detected (Please refer to reporting limit shown in Appendix B.).
- All results are in ppb as unit.
- ppm = part(s) per million; ppb = part(s) per billion.



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APPENDIX A - Photo of the Sample/ Sampling Location





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APPENDIX A - Photo of the Sample/ Sampling Location

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APPENDIX B

			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
	Nonylphenol NP, mixed isomers	Various (incl. 104-40-5, 11066-49-2, 25154-52-3, 84852-15-3)	5	0.4	NP/OP: ISO 18857-2 (modified dichloromethane
2A. Alkylphenol (AP) and	Octylphenol OP, mixed isomers	Various (incl. 140-66-9, 1806-26-4, 27193-28-8)	5	0.4	extraction) or ASTM D7065 (GC/MS or LC/MS(-MS)
Alkylphenol Ethoxylates (APEOs): including all isomers	Octylphenol ethoxylates (OPEO)	Various (incl. 9002-93-1, 9036-19-5, 68987-90-6)	5	0.4	OPEO/NPEO: ISO18857-2 or ASTM D7065(LC/MS; GC/MS
	Nonylphenol ethoxylates (NPEO)	Various (inc. 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0)	5	0.4	or LC/MSMS for n=1,2) APEO 1-18
	Monochlorobenzene	108-90-7	0.2	0.2	
	1,2-Dichlorobenzene	95-50-1	0.2	0.2	
	1.3-Dichlorobenzene	541-73-1	0.2	0.2	
	1,4-Dichlorobenzene	106-46-7	0.2	0.2	
	1,2,3-Trichlorobenzene	87-61-6	0.2	0.2	
	1,2,4-Trichlorobenzene	120-82-1	0.2	0.2	
	1,3,5-Trichlorobenzene	108-70-3	0.2	0.2	
	1.2.3.4-Tetrachlorobenzene	634-66-2	0.2	0.2	
	1,2,3,5-Tetraclorobenzene	634-90-2	0.2	0.2	
	1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	0.2	
	Pentachlorobenzene	608-93-5	0.2	0.2	
	Hexachlorobenzene	118-74-1	0.2	0.2	
	2-Chlorotoluene	95-49-8	0.2	0.2	
	3-Chlorotoluene	108-41-8	0.2	0.2	USEPA 8260B,8270D.
2B. Chlorobenzenes	4-Chlorotoluene	106-43-4	0.2	0.2	Dichloromethane
and Chlorotoluenes	2,3-Dichlorotoluene	32768-54-0	0.2	0.2	extraction followed by
	2,4-Dichlorotoluene	95-73-8	0.2	0.2	GC/MS
	2,5-Dichlorotoluene	19398-61-9	0.2	0.2	
	2,6-Dichlorotoluene	118-69-4	0.2	0.2	
	3.4-Dichlorotoluene	95-75-0	0.2	0.2	
	3.5-Dichlorotoluene	25186-47-4	0.2	0.2	
	2,3,4-Trichlorotoluene	7359-72-0	0.2	0.2	
	2,3,6-Trichlorotoluene	2077-46-5	0.2	0.2	
	2,4,5-Trichlorotoluene	6639-30-1	0.2	0.2	
	2,4,6-Trichlorotoluene	23749-65-7	0.2	0.2	
	3,4,5-Trichlorotoluene	21472-86-6	0.2	0.2	
	2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	0.2	
	2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	0.2	
	2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	0.2	
	Pentachlorotoluene	877-11-2	0.2	0.2	
	2-Chlorophenol	95-57-8	0.2	0.05	USEPA 8270 D
2C. Chlorophenols	3-Chlorophenol	108-43-0	0.5	0.05	Solvent extraction,
	4-Chlorophenol	106-48-9	0.5	0.05	derivatisation with
	· Shiorophenoi	100 10 /	0.0	0.05	

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			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/(Sludge (mg/kg) /(ppm)	Name of the testing method
	2,3-Dichlorophenol	576-24-9	ppb) 0.5	0.05	KOH, acetic anhydride
	2,4-Dichlorophenol	120-83-2	0.5	0.05	followed by GC/MS
	2,5-Dichlorophenol	583-78-8	0.5	0.05	followed by Germis
	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	1
	2,3,4,6-Tetrachlorophenol	58-90-2	0.5	0.05	1
	2,3,5,6-Tetrachlorophenol	935-95-5	0.5	0.05	
	Pentachlorophenol (PCP)	87-86-5	0.5	0.05	
	4,4`-Methylene-bis-(2- chloro-aniline)	101-14-4	0.1	0.2	
	4,4'-methylenedianiline	101-77-9	0.1	0.2	
	4,4°-Oxydianiline	101-80-4	0.1	0.2	
	4-Chloroaniline	106-47-8	0.1	0.2	
	3,3°-Dimethoxybenzidine	119-90-4	0.1	0.2	
	3,3°-Dimethylbenzidine	119-93-7	0.1	0.2	
	6-methoxy-m-toluidine (p- Cresidine)	120-71-8	0.1	0.2	
	2,4,5-Trimethylaniline	137-17-7	0.1	0.2	
	4,4°-Thiodianiline	139-65-1	0.1	0.2	
	4-Aminoazobenzene	60-09-3	0.1	0.2	
	4-Methoxy-m-			0.2	EN 14362.
2D. Dyes - Azo	phenylenediamine	615-05-4	0.1	0.2	Reduction step with
(Forming Restricted Amines)	4,4`-Methylene-di-o- toluidine	838-88-0	0.1	0.2	Sodiumdithionite, solvent extraction.
	2,6-Xylidine	87-62-7	0.1	0.2	GC/MS or LC/MS
	o-Anisidine	90-04-0	0.1	0.2	
	2-Naphthylamine	91-59-8	0.1	0.2	1
	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	
	C.I. Direct Black 38	1937-37-7	500	10	
	C.I. Direct Blue 6	2602-46-2	500	10	1
			500	10	1
2E. Dyes-	C.I. Acid Red 26	3761-53-3	500	10	1
	C.I. Acid Red 26 C.I. Basic Red 9	3761-53-3 569-61-9			Liquid Extraction
Carcionogenic or	C.I. Basic Red 9	569-61-9	500	10	Liquid Extraction LC/MS
	C.I. Basic Red 9 C.I. Direct Red 28	569-61-9 573-58-0			
Carcionogenic or	C.I. Basic Red 9	569-61-9	500 500	10 10	

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			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
	C.I. 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	
	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	1
	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	
2F. Dyes-disperse	•				Liquid Extraction
(sensitizing)	Disperse Red 1	2872-52-8	50	2	LC/MS
	Disperse Red 17	3179-89-3	50	2	
	Disperse Blue 7	3179-90-6	50	2	
	Disperse Blue 26	3860-63-7	50	2	
	Disperse Yellow 49	54824-37-2	50	2	
	Disperse Blue 35	12222-75-2	50	2	
	Disperse Blue 124	61951-51-7	50	2	
	Disperse Yellow 9	6373-73-5	50	2	
	Disperse Orange 3	730-40-5	50	2	
	Disperse Blue 35	56524-77-7	50	2	
	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	5	1	
	Decabromodiphenyl ether (DecaBDE)	1163-19-5	5	1	
	Tris(2,3-dibromopropyl) phosphate (TRIS/TDBPP)	126-72-7	5	1	
	Pentabromodiphenyl ether (PentaBDE)	32534-81-9	5	1	
	Octabromodiphenyl ether (OctaBDE)	32536-52-0	5	1	
	Bis(2,3-dibromopropyl) phosphate (BIS/BDBPP)	5412-25-9	5	1	ISO 22032, USEPA527
2G. Flame Retardants	Tris(aziridinyl)- phosphineoxide (TEPA)	545-55-1	5	1	and USEPA8321B. Dichloromethane
	Polybromobiphenyls (PBBs)	59536-65-1	5	1	extraction GC/MS or LC/MS(-MS)
	Tetrabromobisphenol A (TBBPA)	79-94-7	5	1	
	Hexabromocyclododecane (HBCDD)	3194-55-6	5	1	
	2,2-Bis(bromomethyl)-1,3- propanediol (BBMP)	3296-90-0	5	1	
	Tris(1,3-dichloro- isopropyl) phosphate (TDCP)	13674-87-8	5	1	
	Short chain chlorinated	85535-84-8	5	1	

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Report Limit Wastew Name of the testing CAS No. Sludge (mg/kg) (ug/L)/(paraffins (SCCPs) (C10-C13) Bis(2-methoxyethyl)-ether 111-96-6 50 10 2-ethoxyethanol 110-80-5 50 10 2-ethoxyethyl acetate 111-15-9 50 10 Ethylene glycol dimethyl 110-71-4 50 10 US EPA 8270 ether Liquid Extraction 2H. Glycols 2-methoxyethanol 109-86-4 50 10 LC/MS 2-methoxyethylacetate 110-49-6 50 10 2-methoxypropylacetate 70657-70-4 50 10 Triethylene glycol dimethyl 50 10 112-49-2 ether 107-06-2 2 1,2-Dichloroethane 1 USEPA 8260B 2I. Halogenated Methylene Chloride 75-09-2 2 1 Headspace GC/MS or Solvents Trichloroethylene 79-01-6 1 2 Purgeand-Trap-GC/MS 2 Tetrachloroethylene 127-18-4 1 Mono-, di- and tri-0.01 0.2 Multiple methyltin derivatives Mono-, di- and tri-butyltin Multiple 0.01 0.2 ISO 17353 2J. Organotin derivatives Derivatisation with Compounds Mono-, di- and tri-phenyltin Multiple 0.2 NaB(C2H5) GC/MS 0.01 derivatives Mono-, di- and tri-octyltin Multiple 0.01 0.2 derivatives Perfluorooctanesulfonic 1763-23-1 0.01 0.10 DIN 38407-42 acid (PFOS) (modified) Perfluoro-n-octanoic acid 0.01 0.10 335-67-1 Ionic PFC: (PFOA) 2K. Perfluorinated Concentration or direct Perfluorobutanesulfonic and Polyfluorinated 29420-49-3, 29420-43-3 0.01 0.10 injection, LC/MS(-MS); acid (PFBS) Chemicals (PFCs) Non-ionic PFC Perfluoro-n-hexanoic acid (FTOH): derivatisation 307-24-4 0.01 0.10 (PFHxA) with acetic anhydride, 8:2 FTOH 678-39-7 1 1 followed by GC/MS 6:2 FTOH 647-42-7 1 1 Di-2-ethylhexyl phthalate 2 117-81-7 10 (DEHP) Dimethoxyethyl phthalate 10 2 117-82-8 (DMEP) Di-n-octyl phthalate 2 117-84-0 10 (DNOP) Di-iso-decyl phthalate 2 10 26761-40-0 (DIDP) 2L. Phthalates Di-iso-nonyl phthalate US EPA 8270D, ISO 28553-12-0 10 2 (DINP) (including all other 18856 esthers of phthalic Di-n-hexyl phthalate Dichloromethane 2 84-75-3 10 (DnHP) acid) extraction GC/MS Dibutyl phthalate (DBP) 84-74-2 10 2 Butyl benzyl phthalate 2 85-68-7 10 (BBP) Dinonyl phthalate (DNP) 84-76-4 10 2 Diethyl phthalate (DEP) 84-66-2 10 2 Di-n-propyl phthalate 131-16-8 10 2 (DPRP) Di-iso-butyl phthalate 84-69-5 10 2

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GroupSubstance (Testing parameter)CAS No.Waslew are (mg/L) (mg/L				Repor	t Limit	
Di-cyclohexyl phthalate (DCHP) B4-61-7 10 2 Di-iso-octyl phthalate (DOP) 27554-26-3 10 2 1, 2-benzenedicarboxylic acid, di-C7-11-branched and linearlikyl esters (DHNUP) 68515-42-4 10 2 1, 2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DHP) 68515-42-4 10 2 Benzo[a]pyrene (BaP) 50-32-8 1 0.2 Pyrene 129-00.0 1 0.2 Pyrene 129-00.0 1 0.2 Benzo[a]pyrene (BaP) 50-32-8 1 0.2 Pyrene 129-00.0 1 0.2 Benzo[a]pyrene 192-37-2 1 0.2 Benzo[a]pyrene 192-37-2 1 0.2 Benzo[b]fluoranthene 205-99-2 1 0.2 Benzo[b]fluoranthene 205-99-2 1 0.2 Picoranthene 205-99-2 1 0.2 Benzo[b]fluoranthene 205-99-2 1 0.2 Picoranthene 85-01-8 1 0.2	Group	· · · · · · · · · · · · · · · · · · ·	CAS No.	ater (ug/L)/((mg/kg)	E C
(DiOP) 2150+20-5 10 2 1.2-benzenedicarboxylic acid, di-C7-11-branched and inearalkyl esters (DHNUP) 68515-42-4 10 2 1.2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DHP) 68515-42-4 10 2 1.2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DHP) 71888-89-6 10 2 Benzo[alpyrene (BaP) 50-32-8 1 0.2 Anthracene 120-12-7 1 0.2 Benzo[alpyrene (BaP) 50-32-8 1 0.2 Benzo[alpyrene (BaP) 50-32-8 1 0.2 Benzo[alpyrene (BaP) 10-22 1 0.2 Benzo[b]fluoranthene 205-99-2 1 0.2 Solvent extraction GC/MS Picoranthene 205-99-2 1 0.2 Solvent extraction GC/MS Solvent extraction GC/MS Accomphthylene 208-96-8 1 0.2 Encol[h]unanthene 53-70-3 1 0.2 Dibenz(a,h]authracene 55-53 1 0.2 Encol[h]unanthene 91-20-3 1 0.2 Phenamthrene 85-30-18 1 0.2 <td< td=""><td></td><td>Di-cyclohexyl phthalate (DCHP)</td><td>84-61-7</td><td>10</td><td>2</td><td></td></td<>		Di-cyclohexyl phthalate (DCHP)	84-61-7	10	2	
24. Poly Aromatic (PaHs) 1.2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl seters (DHNUP) 68515-42-4 10 2 1.2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DHP) 71888-89-6 10 2 Benzo[a]prene (BaP) 50-32-8 1 0.2 Anthracene 120-12-7 1 0.2 Pyrene 129-00-0 1 0.2 Benzo[a]prene (BaP) 50-32-8 1 0.2 Benzo[a]prene (192-97-2 1 0.2 Benzo[a]prene (192-97-2 1 0.2 Benzo[b]fluoranthene 205-59-2 1 0.2 Benzo[c]b[fluoranthene 205-59-2 1 0.2 Picoranbene 206-40-0 1 0.2 Benzo[a]puthene 208-96-8 1 0.2 Piloenalthracene 56-55-3 1 0.2 Presend 71-43-2 1 0.2 Phenanthracene 85-01-8 1 0.2 Presol 106-44-5 1 2 Yelne 1330			27554-26-3	10	2	
acid, di-C6-8-branched alkyl esters, C7-rich (DHP) 71888-89-6 10 2 BenzolaJpyrene (BaP) 50-32-8 1 0.2 Ambracene 120-12.7 1 0.2 BenzolaJpyrene (BaP) 120-12.7 1 0.2 BenzolaJpyrene 192-97-2 1 0.2 BenzolaJilperylene 192-97-2 1 0.2 BenzolaJilporylene 193-39-5 1 0.2 BenzolbJiluoranthene 205-92-2 1 0.2 BenzolbJiluoranthene 205-92-2 1 0.2 BenzolbJiluoranthene 206-44-0 1 0.2 BenzolbJiluoranthene 207-89-9 1 0.2 Chrysene 218-01-9 1 0.2 BenzolaJhutracene 55-75-3 1 0.2 Dibenz[a,h]anthracene 56-55-3 1 0.2 Picenanthrene 85-01-8 1 0.2 Picenaphthylene 203-07 1 2 Notatile Sylene 1330-20-7 1<		1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP)	68515-42-4	10	2	
Anthracene 120-12-7 1 0.2 Pyrene 129-00-0 1 0.2 Benzo[gh]perylene 191-24-2 1 0.2 Benzo[gh]perylene 192-97-2 1 0.2 Indeno[1,2,3-cd]pyrene 193-39-5 1 0.2 Benzo[gh]fuoranthene 205-92-2 1 0.2 Hydrocarbons Fluoranthene 205-92-2 1 0.2 Fluoranthene 206-44-0 1 0.2 Chrysene 218-01-9 1 0.2 Chrysene 218-01-9 1 0.2 Dibenz[a,h]anthracene 53-70-3 1 0.2 Benzola]anthracene 53-70-3 1 0.2 Phenanthrene 83-32-9 1 0.2 Phenanthrene 85-01-8 1 0.2 Phenanthrene 85-01-8 1 0.2 Phenanthrene 813-02-07 1 2 Roynthalene 91-20-3 1 0.2 NVolatile		acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	10	2	
Pyrene 129-00-0 1 0.2 Benzo[ghi]perylene 191-24-2 1 0.2 Benzo[c]pyrene 192-97-2 1 0.2 Indeno[1,2,3-cd]pyrene 193-95-5 1 0.2 Benzo[jfluoranthene 205-92-2 1 0.2 Benzo[b]fluoranthene 205-92-2 1 0.2 Fluoranthene 206-44-0 1 0.2 Benzo[k]fluoranthene 207-85-9 1 0.2 Chrysene 218-01-9 1 0.2 Dibenz[a,h]anthracene 56-55-3 1 0.2 Dibenz[a,h]anthracene 56-57-3 1 0.2 Phenanthrene 85-01-8 1 0.2 Phenanthrene 85-01-8 1 0.2 Phenanthrene 85-01-8 1 0.2 Naphthalene 91-20-3 1 0.2 Organic Compound Vylene 1330-20-7 1 2 NA N/A N/A N/A Mply the standard methods that				1		
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2M. Poly Aromatic Hydrocarbons (PaHs)Benzo[e]pyrene192-97-210.2Benzo[b]fluoranthene205-82-310.2Benzo[b]fluoranthene205-99-210.2Fluoranthene205-99-210.2Fluoranthene207-08-910.2Acenaphthylene208-96-810.2Chrysene218-01-910.2Dibenz[a,h]anthracene53-70-310.2Benzo[a]anthracene53-70-310.2Benzo[a]anthracene83-32-910.2Phenanthrene85-01-810.2Fluorene86-73-710.2Phenanthrene91-20-310.2Presene71-43-212YolcsYene130-20-712Peresol106-44-512Morensol108-39-412P-cresol106-44-512m-cresol108-39-412Total-N-N/AN/ATotal-N-N/AN/ATotal-N-N/AN/AIA. ConventionalBOD5-N/AN/AIA. ConventionalBOD5-N/AN/AIA. ConventionalBOD5-N/AN/AIA. ConventionalBOD5-N/AN/AIA. ConventionalBOD5-N/AN/AIA. ConventionalFourtherenN/AN/AN/A <td rowspan="3"></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>				-		
2M. Poly Aromatic Hydrocarbons (PaHs)Indeno[1,2,3-cd]pyrene193-39-510.2Benzo[j]fluoranthene205-82-310.2Benzo[b]fluoranthene205-99-210.2Benzo[b]fluoranthene206-44-010.2Benzo[k]fluoranthene207-08-910.2Acenaphthylene208-96-810.2Dibenz[a,h]anthracene53-70-310.2Benzo[a]anthracene56-55-310.2Acenaphthene83-32-910.2Phenanthrene85-01-810.2Fluorene86-73-710.2Maphthalene91-20-310.2Presene71-43-212Volatile0-cresol95-48-712Organic Compound106-34-512(VOCs)p-cresol106-34-512Temperature-N/AN/AN/ATotal-N-N/AN/AN/AQDD-N/AN/AN/AIA. ConventionalBOD5-N/AN/AIA. ConventionalBOD5-N/AN/AIA. ConventionalBOD5-N/AN/AIA. ConventionalGOD-N/AN/AIA. ConventionalGOD-N/AN/AIA. ConventionalGOD-N/AN/AIA. ConventionalGOD-N/AN/AIA. ConventionalGOD<				1		
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $				1		
2M. Poly Aromatic Hydrocarbons (PaHs) Fluoranthene 206-44-0 1 0.2 DiN 38407-39 Solvent extraction GC/MS (PaHs) Benzo[k]fluoranthene 207-08-9 1 0.2 Solvent extraction GC/MS (PaHs) Chrysene 218-01-9 1 0.2 Solvent extraction GC/MS Dibenz[a,h]anthracene 53-70-3 1 0.2 Solvent extraction GC/MS Benzo[a]anthracene 56-55-3 1 0.2 Phenanthrene 85-01-8 1 0.2 Phorene 86-73-7 1 0.2 Phenanthrene 91-20-3 1 0.2 Phorene 71-43-2 1 2 VOdzile o-cresol 95-48-7 1 2 Organic Compound (VOCs) p-cresol 106-44-5 1 2 m-cresol 106-44-5 1 2 and-Trap-GC/MS m-cresol 106-44-5 1 2 and-Trap-GC/MS m-cresol 106-44-5 1 2 US, China), please refer COD - N/A N/A V/A wethod			205-82-3	1	0.2	
Hydrocarbons (PaHs) Hudralitelie 200 -44-0 1 0.2 Solvent extraction GC/MS Benzo[k]fluoranthene 207 -08-9 1 0.2 Acenaphthylene 208 -96-8 1 0.2 Chrysene 218 -01-9 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 Phenanthrene 86 -73-7 1 0.2 Fluorene 86 -73-7 1 0.2 Phenanthrene 91 -20-3 1 0.2 Solvent extraction 92 -48-7 1 2 Volatile Xylene 1330 -20-7 1 2 Organic Compound o-cresol 95 -48-7 1 2 m-cresol 106 -44-5 1 2 and-Trap-GC/MS m-cresol 108 -39-4 1 2 and-Trap-GC/MS m-cresol 108 -39-4 1 2 2 Mathat best apply to the region (ISO, EU, US, China), please refer	2M Poly Aromatic			1		DIN 28407 20
		Fluoranthene	206-44-0	1	0.2	
Accenaphthylene 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 Sylene 1330-20-7 1 2 Organic Compound (VOCs) 0-cresol 95-48-7 1 2 P-cresol 106-44-5 1 2 14eadspace- or Purge- and-Trap-GC/MS m-cresol 108-39-4 1 2 104-37 TSS - N/A N/A Apply the standard methods that best apply to the region (ISO, EU, US, China), please refer COD - N/A N/A 104-30-4 104-30-4 PH - N/A N/A N/A Schina), please refer 104-30-4 <		Benzo[k]fluoranthene	207-08-9	1	0.2	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	(1 a115)	Acenaphthylene	208-96-8	1	0.2	UC/WIS
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		Chrysene	218-01-9	1	0.2	
Acenaphtene $83-32-9$ 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 ZN. Volatile Sylene $1330-20-7$ 1 2 o-cresol $95-48-7$ 1 2 Headspace- or Purge- and-Trap-GC/MS p-cresol $106-44-5$ 1 2 and-Trap-GC/MS m-cresol $108-39-4$ 1 2 and-Trap-GC/MS COD $-$ N/A N/A methods that best apply to the region (ISO, EU, US, China), please refer Color $[m^{-1}](436nm;$ $-$ N/A N/A V/A PH $-$ N/A N/A to the region (ISO, EU, US, China), please refer Color $[m^{-1}](436nm;$ $-$ N/A N/A details on the testing BOD5 $-$ N/A N/A Getails on the testing method and the levels <		Dibenz[a,h]anthracene	53-70-3	1	0.2	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		Benzo[a]anthracene	56-55-3	1	0.2	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Acenaphthene	83-32-9	1	0.2	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		Phenanthrene	85-01-8	1	0.2	
Benzene $71-43-2$ 1 2 2N. Volatile Xylene 1330-20-7 1 2 ISO 11423-1 Organic Compound (VOCs) $o-cresol$ 95-48-7 1 2 Headspace- or Purge- and-Trap-GC/MS $p-cresol$ 106-44-5 1 2 and-Trap-GC/MS m-cresol 108-39-4 1 2 Temperature - N/A N/A Apply the standard methods that best apply to the region (ISO, EU, US, China), please refer COD - N/A N/A US, China), please refer pH - N/A N/A to ZDHC Wastewater Color [m ⁻¹] (436nm; 525nm; 620nm) - N/A N/A M/A BOD5 - N/A N/A method and the levels Ammonium-N - N/A N/A (Foundational,		Fluorene	86-73-7	1	0.2	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Naphthalene	91-20-3	1	0.2	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Benzene	71-43-2	1	2	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	2N. Volatile	Xylene	1330-20-7	1	2	ISO 11423-1
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Organic Compound	o-cresol	95-48-7	1	2	Headspace- or Purge-
Temperature - N/A N/A Apply the standard methods that best apply to the region (ISO, EU, US, China), please refer Total-N - N/A N/A US, China), please refer pH - N/A N/A US, China), please refer Color [m ⁻¹] (436nm; 525nm; 620nm) - N/A N/A N/A BOD5 - N/A N/A method and the levels Ammonium-N - N/A N/A (Foundational,	(VOCs)	p-cresol	106-44-5	1	2	and-Trap-GC/MS
TSS - N/A N/A Image: New Status and Statu		m-cresol	108-39-4	1	2	
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 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 1A. Conventional Darameter BOD5 - N/A N/A		Temperature	-	N/A	N/A	Apply the standard
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 IA. Conventional Deparemeter BOD5 - N/A N/A Ammonium-N - N/A N/A (Foundational, Coundational, Coundational)			_	N/A	N/A	
Total-N - N/A N/A US, China), please refer pH - N/A N/A US, China), please refer Color [m ⁻¹] (436nm; 525nm; 620nm) - N/A N/A Guidelines for more details on the testing method and the levels IA. Conventional Darameter BOD5 - N/A N/A MA		COD	-			
pH - N/A N/A to ZDHC Wastewater Color [m ⁻¹] (436nm; 525nm; 620nm) - N/A N/A Guidelines for more details on the testing method and the levels 1A. Conventional Darameter BOD5 - N/A N/A method and the levels Ammonium-N - N/A N/A (Foundational,		Total-N				
IA. Conventional Deraumtor; Color [m ⁻¹] (436nm; 525nm; 620nm) - N/A N/A Guidelines for more details on the testing method and the levels IA. Conventional Deraumtor; BOD5 - N/A N/A Guidelines for more details on the testing method and the levels		pH	-		N/A	
1A. ConventionalBOD5N/AN/Amethod and the levelsAmmonium-NN/AN/A(Foundational,			-	N/A	N/A	
Ammonium-N – N/A N/A (Foundational,	14.0	BOD5	-	N/A	N/A	
		Ammonium-N	-			
	Parameters	Total-P	-	N/A	N/A	Progressive, and
AoX – N/A N/A Aspirational).			-			
Oil and Grease – N/A N/A			-			
Phenol – N/A N/A Cyanide: With		Phenol	-			
Coliform(bacteria/100ml) – N/A N/A reference to APHA			_			
Persistent Foam - Not visible visible followed by UV		· · · · · · · · · · · · · · · · · · ·		Not	Not	
ANIONS analysis		ANIONS	l	VISIOIC	VISIOIC	

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Report Limit Wastew Sludge (mg/kg) (ug/L)/(ppb) Cyanide(CN-) Various (incl. 57-12-5) 0.02 1 Sulfide N/A N/A -Sulfite N/A N/A Report Limit Wastew Sludge Name of the testing CAS No. ater (mg/L) (mg/kg) / (ppm) method 7440-36-0 Antimony(Sb) 0.001 N/A Various Acid Digestion with Chromium(Cr), total 7440-47-3 0.001 N/A ICP analysis Cobalt(Co) 7440-48-4 0.001 N/A 7440-50-8 0.001 N/A Copper(Cu) 7440-02-0 please refer to ZDHC Nickel (Ni) 0.001 N/A Wastewater Guidelines 7440-22-4 Silver (Ag) 0.001 N/A for more details on the Zinc(Zn) 7440-66-6 0.001 N/A 1B. Conventional testing method and the 2 2 Arsenic (As) 7440-38-2 0.001 Parameters levels (Foundational. METALS Cadmium(Cd) 7440-43-9 0.0001Progressive, and 2 Chromium VI(CrVI) 18540-29-9 0.001 Aspirational). 7439-92-1 2 Lead(Pb) 0.001 Cr(VI): Various Solvent extraction and Mercury (Hg) 7439-97-6 0.00005 0.2 derivatisation followed by UV analysis 3. Conventional US EPA 160.3 / Dry mass (total solids) _ N/A N/A **Parameters** 209A

Note / Key :

ppm = part(s) per million; ppb = part(s) per billion U. S. EPA = United States Environmental Protection Agency APHA = American Public Health Association

Remark: The report [(6821)238-0295] was sub-contracted to India (Testtex India Laboratories Pvt. Ltd) for Coliform, Total-N & AOX Tests.



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CPSD-AN-00613-DATA 04 Issue Date: Version No.: 15					AMPLE		CHARGE AMPLIN							
ie: Analytical	Business Line: Ar											10000000000000000000000000000000000000		
	(contract no										*	Jenoral Data		
	(6821) 278-0295											nber	appratory Sample Not	
													Stept Name	
	MD. Ishak Chewdhwzy Phone No. 01899-222930												Field Contact Person	
	Pioneetz Denim United.											and Address)	Project (Facility Name a	
	E.T.P= Falet										scription:	Sempling Location / De		
	Zero discharge with sampling plan Controlistic Sample / Grob sample (Please deliste as appropriate) M.D. Asad Lasseu n												Semple Identification.	
													Sample Type	
													Name of Sampler	
	t	atment plant	ge tre	inge to sewage	t disch) OR Indirect d	stream	River, Sea, Str		to environment (Sp	and the second se		Discharge mode.	
and the second second			-		1.0000				21	25.08			Date of collection.	
	-						nifu')	niease snerij	hing / Others I	g / Washing / Fin		Fectory Type		
				THE NUMBER	-			practice officers		selected more that				
												alor	i Ligid Data for Wastew	
) Pm	30	810		e e	Departure Time	m .	3:00 P		Arrival Time	
(volume/min)	-	flow rate	F	Le,				6 °C	Temp: 45.	2	pH: 10 . (Fraid Paramitters	
	-		-		-5.17.		-		12	14	10 8	pment	Control Na. of field equipment	
	Yes No						Y	-		Factory with efficient tre				
	-	-						-					Construction of the second	
	Vasiewater before treatment									Sample matrix				
	-		-		treatment - water at discharge point									
	-	-		12	-	12	an An b	12	12	12	12	ber	Sampler container num	
8	-	7		6		5		4	3	2	1			
									-			ID	Recording time	
			n.	8:25 Pm	Pm	07:25P	Pm	06:251	S:25Pm	4:25 Pm	3:25Pm	Time	recording time	
				10.9		09.9		10.9	11.9	11.6	10.6	2016 - 20	514	
				50.1	1	48.4)	42-9	46.2	150	45.6		Fenne (°C)	
				Blue.		BLILE	2.	Blue	Blue	Blue.	Blue)	Color (visual estimation	
				22.9		120.0	3	99.8	09.4	100-8	107.2		now rate (volume/time)	
			2	12×162	2	12×162	62	12×16	127/67	128147	12×167		/alume collected, mL	
			ed	size required	sample	han total of san	eater th	must be grea	lume collected	Remark, Total v	1202.9		fotal volume collected	
						-					-	Preservation Method	analysis Required and	
od	Preservation method					Type of container			Total of sample size	Test required (v)	MRSL Parametors)	Tests (ZDHC		
											12	1. Phthalate		
										1000 mL total	2	2 Chlorobenzenes,	Combined test	
								or 1000 mL each	1	Chlorotoluene & PAH 3 SCCPs	dr Individual test			
-										. and site chest	1		(Remark 4)	
											1	4. APS		
a					-					100 mL			APEOs	
										100 mL	V	alos	E Chlorophenols & Cre	
										500 mL	V		Flame retardant	
d d	acid 2-8°C	ilhout adding a re sample at 2-	Vilhout addin Amber Glass, washed with nitric acid, Store sample a				10 mL	K		B Dyes				
										50 mL	V	-	i Glycol	
										1000 mL	X		0 *Pesticides	
										10 mL	X		1 "Niliosamine	
										2000 mL	I		2 Banned Azodyes	
										500 mL	X	alic amines	13. 'Free primary aroma	
										500 mL	5	lds	4. Organotin Compour	
cidify to pH 2 with 2-8°C	ip; aci	without air gap.	siner v	to full contain	F					10 mL	1	Solvents (Remark 6)	5 VOC & Halogenated	
2-8°C		store sample :	and I	HCI.										

APPENDIX C – Onsite Field Data Record Sheet

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	FIE			ZERO DISCHARGE SAMPLE	Issue Date:			
		(COMF	POSITE / INE	DIVIDUAL SAMPLING)	Version No.: 15			
0141403				Business Line: Analytical				
Tests (Conven	tional Parameters}	Test required	Total of sample size	Type of container	Preservation method			
ombined test or	17 Total suspened solids (TSS)	Y	2000 mL total					
ndividual test (Remark 4)	18. Total ¹ dissolved solids (TDS)	X	2000 mL each	Amber Glass, washed with nitric acid,	Without adding acid Store sample at 2-8°C			
	oxygen Demand (BOD5)	X	1000 mL					
olout		×	100 mL					
eavy Metals excep	t Cr(VI) & Total-P (Remark	5	9 mL	PE, washed with nitric acid	Acidly to pH 2 with HNO, and store at 2-8 $^\circ\text{C}$			
yanide		~	500 mL	Amber Glass, washed with pesticide grade acotone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% Na ₂ S ₂ O ₃ , and store sample at 2.5°C Filter by 0.45µm filter in field, fill to full container			
·(VI)		~	95 mL		without air gap; adjust pH to 9,0-9.5 by adding ammonium buffer. Store sample at 2-8°C			
hemical oxygen de	mand (COD)	1	150 mL					
renois			500 ml.	Amber Glass, washed with nitric acid	Acidity to pH 2 with H ₂ SO ₄ Store sample at 2-6°C			
il and Grease & Te	atal' Hydrocarbon		1000 mL					
ormaldehyde			25 mL		Fill to full container without air gap; acidify to pH 2 with HgSOs and store sample at 2-8°C			
ulide (Romark 5)			50 mL	PE, washed with pesticide grade Acetone:	Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C .			
otal Cohform (Rem	aric 6)		125 mL	PE, clean, sterile,	Add 0.1 ml of 10% Na2s2O3			
aecal Coliform (Re	mark 6)		125 mL	non-reactive	Store sample at 2-8°C			
ersislent foam			N.A.	Foam higher than 45 cm (visi				
ulfite			100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA Store sample at 2-5°C			
Total-N			100 mL		Acidity to $pH 2$ with H_2SO_4			
Ammonium-N			500 mL		Store sample at 2-8°C			
Adsorbable organically bound halogens (AOX)			100 mL		Acidity to pH 2 with HNO3 and store at 2-5°C			
cute aquatic toxici tus Bactoris, Fish	ly Egg; Daphne, Alage.		1000 mL	Amber Glass, washed with nitric acid;				
ulphate			100 mL		Without adding acid Store sample at 2-8*C			
nlaride -			100 mL					
thers		l						
rvation/ Remark								
e minimum samplia ope of ZDHC guid ope of synthetic le ope of MMCF se primary aromati fer to CPSD-AN-G fer to CPSD-AN-0	alme: Parameter 1-9, 12, 14-1 ather industry: Parameter 1-9 Parameter 5, 15, 17, 19-21 camine, pesticides, nitrosami 00019-ST(P01, loactions with	Ine is 6 hours w 17, 19-26, 28, 25 12, 14-21, 23-2 , 23 - 26, 28, 33 Ine and formald those CPSD to retreatment of si of field blank for	9, 31-35 26, 28, 30, 31, 33 -36 ahyde are not in 1 st capability insid ulfide if only disso apacific parameti	he scope of ZDHC Guidline, they are tested upon e TCD matrix can perform the combined test lived sulfide is required to be tested. are.				
and the set for the set	- MD·A:	5000 HO	san.					
ment from factory								
	Bureau Ventas has complete	Sample(s) colle	ected by Bureau V	aptioned date, time and location. All sample(s) is/ eritas is/are stored in portable freezer / tridge that Date That Chow Hurry				



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.(j) 2014		FIELD DATA R (COMP	ECORD ON OSITE / INI		CPSD-AN-00613-DATA 04 Issue Date: Version No.: 15 Business Line: Analytical									
General Data Laboratory Sample Nu	mbar		/	682	173.	8-0	295							
Cient Name.	inder	-		¢ ,	1 6 /	-								
Field Contact Person.		MD. J. h	works Telan	Lehonsdh	(Pibase No	01244	212 41	30	-					
Project (Fácility Name	and Address)	MD. Istronk Ishak enerschungene No 07844-222 430 Pioneen Denim Umited (Horiteta, Shappus Baros, Nahl												
Sampling Location / D		ELP	Pioneen Penim united (Horitola, Shahpus Baras, Mahl 67.P = Outlet											
Sample Identification			Zero discharge with sampling plan											
Semple Type.		Composite Sample / Grab sample (Piease delete as appropriate)												
Name of Sampler		MD . Asad hosaun .												
Discharge mode		Direct discharge to environment (Specify destination, River, Sea, Stream) OR Indirect discharge to sewage treatment plant												
Date of collection			Direct discharge to environment (Specify destination, River, See, Biteam) OR Indirect discharge to sewage treatment plant $25.08.02$.)											
Fectory Type		-1	Mary A. Creater M.	ishing / Others (niesta snacifu):	6.000	1 Chit		1					
			selected more th		presse specify).				-2					
Field Data for Waster	valer							10	0					
Field Data for Wastewater Annval Time		3:00	Pm	Departure Time		8:3	0 Pm	INO	Form					
Field Parameters		. pH: 7.0		Temp .	°C			Flow rate :	(volume/nim)					
Control No. of field equ	apment													
Factory with effluent to	eatment plant	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Y	es.			N	0						
			Incoming water	(If required)										
Sample matrix			Wastewater bei	and the second s	The second									
		~		er treatment - wa	ter at discharon	paint								
Sampler container nun	nber	9.9	22	29	24	24	29	1						
		1	2	3	4	5	6	7	8					
Recording time	ID													
	Time	3:20Pm	2 · 28Pn	5:25 Bm			18:20Pm							
pH		7.9	1.6	710	7.8	7.0	X.8							
(°C) ame		35.1	39.6	39.8	34.9	35-0	39.2							
Color (visual estimation		Brown	Brown	Brown	Brown	Brain	Brown							
Flow rate (volume/time)	96.0	90.9	80.9	98	98.9	99.9							
Volume collected, mL		297167	24×167	24×14	29×167	29×167	24×14	ļ						
Total volume collected		24098	Remark: Total v	olume collected	must be greater	than total of sam	ple size required							
Analysis Required an	d Preservation Method					-	-							
Tests (ZDHC	MRSL Parameters)	Test required (√)	Total of sample size	1	Type of contain	or	Preservation method							
-	1. Phihalate	10	2.10											
Combined test or	2. Chlorobenzenes, Chlorotoluene & PAH	200	1000 mL total											
(Remark 4)	3 SCCPs	100	or 1000 mL each											
a survey of the set	4 APS	1												
	14 MP 3	~												
i APEOs		1	100 mL											
Chlorophenols & Cre	nsols		100 mL						-					
Flame relardant		1	500 mL											
8 Dyes		1.0	10 mL	- Amber G	lass washed with	nillic acid		Vithout adding ac ore sample at 2-f						
				Annual G	and a standard with	menu and,								
9. Gtycol			50 mL											
0 'Pesticides		X	1000 mL											
1 Nilrosamine		X	10 mL				0.2.3							
12. Banned Azodyes		1	2000 mi.											
13. *Free primary arom		X	500 mL			42								
14 Organiotin Compour	nds	1	500 mL	-										
5 VOC & Halogenate	d Solvents (Remark 6)	~	10 mL				Fill to full container	r without air gap;	acidify to pH 2 with					
6 PFCs (Remark 6)		~	2 mL	PE,	washed with pest	loide	HCI and store sample at 2-8°C Without adding acid							
			< mil.		grade Acetone		Without adding acid Store sample at 2-8°C							

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	FI	ELD DATA F (COMI	RECORD ON POSITE / IN	VZERO DISCHARGE SAMPLE DIVIDUAL SAMPLING)	CPSD-AN-00613-C Issue Date: Version No.: 15	DATA 04
-11					Business Line: An	alytical
Tests (Conve	ntional Parameters)	Test required	Total of sample size	Type of container	Preservation method	
Combined test or	17. Total suspened solids (TSS)	10	2000 ml. total			
Individual test (Remark 4)	16 Total dissolved solids (TDS)	X	or 2000 mL each			
	Oxygen Demand (BOD5)	N		Amber Glass, washed with nitric acid,	Without adding acid Store sample at 2-8°C	
20 Colour	70	1	1000 mL		Sure sample at 2-6-C	
1 Heavy Metals excer	ot Cr(VI) & Total-P (Remark		100 mL			
2 Cyanide			9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO3 and store at 2	5-8°C
			500 mL	Amber Glass, washed with posticide grade acctone	Adjust pH 12 with 50% NeOH, add 0.05 mt Na ₂ S ₂ O ₃ , and store sample at 2-8°C	of 10%
3 Cr(VI)		~	95 mL		Filter by 0.45µm filter in field, fill to full con without air gap; adjust pH to 9.0-9.5 by a	
4 Chemical oxygen de	mand (COD)		150 mL		ammonium buffer. Store sample at 2-8	dding I'C
9 Phenois		~	500 mL	Amber Glass; washed with nitric acid	Addity to pH 2 with H ₂ SO ₄	
5. Oil and Grease & To	tal Hydrocarbon	-	1000 mL		Store sample at 2-8°C	
7 'Formaldehyde		×	25 mL		Fill to full container without air gap; acidily to p	H 2 with
8 Sulfide (Remark 5)		~	50 ml	PE, washed with pesticide	Fill to full container without air gap, add 2 dros	os of 2M
i Total Coliform (Rema	rela El			grade Acotone;	zinc acetate, adjust pH to 9 with 6M Nac Store sample at 2-8°C	рн
	and the second second second		125 mL	PE, clean, stenle,	Add 0.1 ml of 10% Na2 ₅ 2O ₃	
C Faecal Coliform (Ren	18rx 6)	X	125 mL	non-reactive	Store sample at 2-6°C	
Persistent foam		-	N.A.	Foam higher than 45 cm (visua	el estimation): Yes / No	
2 Sullite		5	100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA	
3 Total-N		~	100 mL		Sfore sample at 2-8°C	
4 Ammonium-N		5	500 mL		Acidify to pH 2 with H ₂ SO, Store sample at 2-8°C	-
	sorbable organically bound halogens (AOX)		100 mL		Acidify to pH 2 with HNO3 and store at 2-8	10
 Acute aquatic toxicity iminus Bacteria. Fish Ep 	gg: Daphne, Alage;	1000 mL	1000 mL	Amber Glass (washed with nitric acid,	12-0 - 12-0 - 12-0	
Suiphate			100 mL		Without adding acid	
Chloride			100 mL		Store sample at 2-5°C	
Others						
servation/ Remark						
The minimum sampling the Scope of 2DHC guideline Scope of XDHC guideline Scope of MMCG: P. P. Free primary aromatic ar Gafer to CPSD-AN-0005 Sofer to CPSD-AN-0051 Sofer to CPSD-AN-0051 Free	er industry: Parameter 1-9, 1 Parameter 5, 15, 17, 19-21, 2 mine, posticides, nitrosamine 219-STIP01, loactions with th	2, 14-21, 23-25, 2 3 - 25, 28, 33-35 and formaldehyd ose CPSD test or eatment of sulfide eld blank for spec	e are not in the s ipability inside T(e if only dissolved ific parameters.	cope of ZDHC Guidline, they are tested upon rea 20 matrix can perform the combined test. I sulfide is required to be tested		
nment from factory						
ineviet/aemant by factory reby confirmed that Bure ininer(s) and without any initory of Factory Representation of Factory Representation	eau Veritas has completed th r observation in leakage. San entalive:	Name MJ	- Ishal	ned date, time and location. All sample(s) is/are c is/are stored in portable freezer / fridge that is m Date: _2 < Cho w Juny J	vollected in desinated aintainet in 14°C 3. J. 21	

APPENDIX D – Limitation Value of Legal Requirements

Not Applicable

<u>END</u>