



# LAB REPORT

<b>Report Number</b>	(6824)281-0274		
<b>Date of sampling</b>	October 06, 2024		
<b>Reporting Date</b>	October 20, 2024		
<b>Factory Company Name</b>	Pioneer Denim Limited		
<b>Factory Address</b>	Horitola, Shahpur Bazar, Madhabpur, Habiganj, Sylhet, 3333, Bangladesh.		
<b>Discharge Type</b>	Direct Discharge		
<b>Discharge Destination Name &amp; Address</b>	Government Canal		
<b>Average total industrial wastewater generated</b>	Equal or more than 15m <sup>3</sup> per day	<b>Manufacturing Process Type</b>	Textile
<b>Onsite ETP / Pretreatment</b>	Yes	<b>Homogenization Tank &amp; Holding Time</b>	Yes (untreated), >12 hours
<b>ZDHC Sampler ID</b>	C74D106817431		
<b>Sample Type &amp; Description &amp; Sampling Method</b>	Untreated wastewater I001, black liquid, grab sample at 11:57		
	Effluent I002, lt. brown liquid, grab sample at 12:07		
	Sludge I003, black solid, composite sample at 12:16		

<b>Local Legal Data / Contractual agree by CETP Data</b>	
<b>Local Legal Standard Name / Name of Contractual agree by CETP<sup>[a]</sup></b>	Environmental Conservation Rules' 2023 (Bangladesh)
<b>Standard Number</b>	S. R. O Number.: 53/Law/2023
<b>Parameters (ZDHC WWG V2.1, Table 2 &amp; 3) exceeded local legal standard / contractual agree by CETP standard</b>	No exceeded
<b>Discharge permit provided</b>	Yes

<b>Result Overview</b>			
<b>Wastewater Overall Result (ZDHC WWG V2.1, Table 1)</b>	Not detected		
<b>Wastewater Overall Result (ZDHC WWG V2.1, Table 2 &amp; 3)</b>	Foundational		
<b>Sludge Disposal Pathway</b>	C	<b>Sludge Overall Result</b>	Meet Sludge Disposal Pathway



Internal Description	
Sample reference number	(6824)281-0274
Date & time of the beginning of sampling	October 06, 2024 , 11:40
Date & time of the end of sampling	October 06, 2024 , 13:40
Sample received date	October 06, 2024
Testing period	October 06, 2024 to October 20, 2024
Arrival temperature at laboratory	6 °C
Comments	Samples received within holding time and temperature.

The results of this report shall not be used for any regulatory compliance purposes. The sampling is agreed with client. If there are questions or concerns on this report, please contact the following persons:

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**Report approved by**

**MD. RASHEDUL HAQUE**  
DEPUTY SR. MANAGER, RSL OPERATIONS

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



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**Wastewater Result Summary - ZDHC MRSL Parameters**

ZDHC MRSL Wastewater	Untreated I001		
1A) AP and APEOs: including all isomers	ND		
1B) Anti-Microbials & Biocides	ND		
1C) Chlorinated Parafins	ND		
1D) Chlorobenzenes and Chlorotoluenes	ND		
1E) Chlorophenols	ND		
1F) DMFa	ND		
1G) Dyes - Carcinogenic or Equivalent Concern	ND		
1H) Dyes - Disperse (Sensitising)	ND		
1I) Dyes - Navy Blue Colourant	ND		
1J) Flame Retardants	ND		
1K) Glycols / Glycol Ethers	ND		
1L) Halogenated Solvents	ND		
1M) Organotin Compounds	ND		
1N) Other / Miscellaneous Chemicals	ND		
1O) PFCs	ND		
1P) Phthalates	ND		
1Q) PAHs	ND		
1R) Restricted Aromatic Amines	ND		
1S) UV Absorbers	ND		
1T) VOC	ND		



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**Wastewater Result Summary - ZDHC Heavy Metals Parameters**

ZDHC Heavy Metals Wastewater	Effluent I002		
Antimony	MEET		
Chromium (VI)	MEET		
Barium	DATA		
Selenium	DATA		
Tin	DATA		
Arsenic	MEET		
Total Chromium	MEET		
Cobalt	MEET		
Cadmium	MEET		
Copper	MEET		
Lead	MEET		
Nickel	MEET		
Silver	MEET		
Zinc	MEET		
Mercury	MEET		



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**Wastewater Result Summary - ZDHC Conventional and Anions Parameters**

ZDHC Conventional and Anions Wastewater	Effluent I002		
pH <sup>[1]</sup>	MEET		
Temperature difference <sup>[1]</sup>	MEET		
E.coli	MEET (S)		
Colour	MEET		
Persistent foam <sup>[1]</sup>	MEET		
Wastewater flowrate <sup>[1]</sup>	DATA		
Ammonium-Nitrogen	MEET		
AOX	MEET		
Biochemical Oxygen Demand (BOD <sub>5</sub> )	MEET		
Chemical Oxygen Demand (COD)	MEET		
Dissolved Oxygen (DO) <sup>[1]</sup>	DATA		
Oil & Grease	MEET		
Total Phenols / Phenol Index	MEET		
Total Chlorine <sup>[1]</sup>	DATA		
Total Dissolved Solids (TDS)	DATA		
Total Nitrogen	MEET		
Total Phosphorus	MEET		
Total Suspended Solids (TSS)	MEET		
Chloride	DATA		
Cyanide, total	MEET		
Sulfate	DATA		
Sulfide	MEET		
Sulfite	MEET		



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**Sludge Result Summary - ZDHC Sludge Parameters**

Sludge Parameters	Sludge I003		
Antimony	MEET		
Arsenic	MEET		
Barium	MEET		
Cadmium	MEET		
Cobalt	MEET		
Copper	MEET		
Lead	MEET		
Nickel	MEET		
Selenium	MEET		
Silver	MEET		
Total Chromium	MEET		
Zinc	MEET		
Chromium (VI)	MEET		
Mercury	MEET		
pH	MEET		
% Solids	DATA		
Paint Filter Test	DATA		
Fecal Coliform	DATA (S)		
AP and APEOs: including all isomers	DATA		
Polycyclic Aromatic Hydrocarbons (PAHs)	DATA		
Chlorotoluenes	DATA		
Cyanide	MEET		

Sludge flux and/or sludge flow data: NA

Note / Key:

- |                 |   |   |     |   |                           |
|-----------------|---|---|-----|---|---------------------------|
| ND              | = | Not detected (less than reporting limit)  | NA  | = | Not applicable            |
| <b>D</b>        | = | Detected  | -   | = | Did not perform           |
| MEET            | = | Meet ZDHC Wastewater Guidelines Requirements  | [f] | = | Parameter tested in field |
| <b>NOT MEET</b> | = | Not Meet ZDHC Wastewater Guidelines Requirements  |     |   |                           |
| DATA            | = | Report only, refer data   |     |   |                           |
| (T)             | = | Handling temperature exceeded   |     |   |                           |
| @               | = | Maximum holding time exceeded   |     |   |                           |
| [a]             | = | The local legal standard name and number are referenced to discharge permit (or contractual agree by CETP) that provided by company |     |   |                           |
| (S)             | = | Analysis was subcontracted for testing - Testtex India Laboratories Pvt. Ltd.   |     |   |                           |
| *               | = | See remark  |     |   |                           |



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**Wastewater Test Result - ZDHC MRSL**

**1A) AP and APEOs: including all isomers**

NP/OP: ISO 18857-2 (modified dichloromethane extraction) or ASTM D7065 (GC-MS or LC-MS(-MS)), OPEO/NPEO (n>2): ISO 18857-2

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
NPEO	9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0	5	ND			µg/L
NP, mixed isomers	104-40-5, 11066-49-2, 25154-52-3, 84852-15-3	5	ND			µg/L
OPEO	9002-93-1, 9036-19-5, 68987-90-6	5	ND			µg/L
OP, mixed isomers	140-66-9, 1806-26-4, 27193-28-8	5	ND			µg/L

**1B) Anti-Microbials & Biocides**

USEPA 8270E Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS BS EN 12673-1999 (o-Phenylphenol & Triclosan) and USEPA 8270E Solvent extraction followed by GC-MS or ISO 14154:2005 (Permethrin)

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
o-Phenylphenol (+salts)	90-43-7	100	ND			µg/L
Triclosan	3380-34-5	100	ND			µg/L
Permethrin	Multiple	500	ND			µg/L

**1C) Chlorinated Parafins**

EPA 3510 and analyzed by ISO18219-2:2021 Method for MCCP with GC-MS(NCI) or LC-MS/MS for MCCP & EPA 3510 and analyzed by ISO18219-1:2021, ISO 12010:2019 Methods for SCCP with GC-MS(NCI)

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
MCCPs (C14-C17)	85535-85-9	500	ND			µg/L
SCCPs (C10-C13)	85535-84-8	25	ND			µg/L

**1D) Chlorobenzenes and Chlorotoluenes**

USEPA 8260D, 8270E, Purge and Trap, Head Space, Dichloromethane extraction followed by GC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
1,2-dichlorobenzene	95-50-1	0.2	ND			µg/L
Other isomers of mono-, di-, tri-, tetra-, penta-, and hexa-chlorobenzene and mono-, di-, tri-, tetra-, and penta- chlorotoluene	Multiple	0.2	ND			µg/L



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### 1E) Chlorophenols

USEPA 8270E Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS, BS EN 12673-1999 the procedure of solvent extraction and derivatization are included

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
2-chlorophenol	95-57-8	0.5	ND			µg/L
3-chlorophenol	108-43-0	0.5	ND			µg/L
4-chlorophenol	106-48-9	0.5	ND			µg/L
2,3-dichlorophenol	576-24-9	0.5	ND			µg/L
2,4-dichlorophenol	120-83-2	0.5	ND			µg/L
2,5-dichlorophenol	583-78-8	0.5	ND			µg/L
2,6-dichlorophenol	87-65-0	0.5	ND			µg/L
3,4-dichlorophenol	95-77-2	0.5	ND			µg/L
3,5-dichlorophenol	591-35-5	0.5	ND			µg/L
2,3,4-trichlorophenol	15950-66-0	0.5	ND			µg/L
2,3,5-trichlorophenol	933-78-8	0.5	ND			µg/L
2,3,6-trichlorophenol	933-75-5	0.5	ND			µg/L
2,4,5-trichlorophenol	95-95-4	0.5	ND			µg/L
2,4,6-trichlorophenol	88-06-2	0.5	ND			µg/L
3,4,5-trichlorophenol	609-19-8	0.5	ND			µg/L
2,3,5,6-tetrachlorophenol	935-95-5	0.5	ND			µg/L
2,3,4,6-tetrachlorophenol	58-90-2	0.5	ND			µg/L
2,3,4,5-tetrachlorophenol	4901-51-3	0.5	ND			µg/L
Pentachlorophenol (PCP)	87-86-5	0.5	ND			µg/L

### 1F) N,N-di-methylformamide (DMFa)

EPA 8015, EPA 8270E

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Dimethyl formamide; N,N-dimethylformamide (DMFa) <sup>a</sup>	68-12-2	1000	ND			µg/L

### 1G) Dyes - Carcinogenic or Equivalent Concern

Liquid extraction, LC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Basic violet 3 with >0.1% of Michler's Ketone	548-62-9	500	ND			µg/L
C.I. Acid Red 26	3761-53-3	500	ND			µg/L
C.I. Acid Violet 49	1694-09-3	500	ND			µg/L
C.I. Basic Blue 26 (with Michler's Ketone >0/1%)	2580-56-5	500	ND			µg/L
C.I. Basic Green 4 (Malachite Green Chloride)	569-64-2	500	ND			µg/L





**1G) Dyes - Carcinogenic or Equivalent Concern (continued)**

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
C.I. Basic Green 4 (Malachite Green Oxalate)	2437-29-8	500	ND			µg/L
C.I. Basic Green 4 (Malachite Green)	10309-95-2	500	ND			µg/L
C.I. Basic Red 9	569-61-9	500	ND			µg/L
C.I. Basic Violet 14	632-99-5	500	ND			µg/L
C.I. Direct Black 38	1937-37-7	500	ND			µg/L
C.I. Direct Blue 6	2602-46-2	500	ND			µg/L
C.I. Direct Red 28	573-58-0	500	ND			µg/L
C.I. Disperse Blue 1	2475-45-8	500	ND			µg/L
C.I. Disperse Blue 3	2475-46-9	500	ND			µg/L
Disperse Orange 11	82-28-0	500	ND			µg/L

**1H) Dyes - Disperse (Sensitising)**

Liquid extraction, LC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Disperse Blue 102	12222-97-8	50	ND			µg/L
Disperse Blue 106	12223-01-7	50	ND			µg/L
Disperse Blue 124	61951-51-7	50	ND			µg/L
Disperse Blue 26	3860-63-7	50	ND			µg/L
Disperse Blue 35 (CAS 12222-75-2)	12222-75-2	50	ND			µg/L
Disperse Blue 35 (CAS 56524-77-7)	56524-77-7	50	ND			µg/L
Disperse Blue 7	3179-90-6	50	ND			µg/L
Disperse Brown 1	23355-64-8	50	ND			µg/L
Disperse Orange 1	2581-69-3	50	ND			µg/L
Disperse Orange 3	730-40-5	50	ND			µg/L
Disperse Orange 37/59/76	13301-61-6	50	ND			µg/L
Disperse Red 1	2872-52-8	50	ND			µg/L
Disperse Red 11	2872-48-2	50	ND			µg/L
Disperse Red 17	3179-89-3	50	ND			µg/L
Disperse Yellow 1	119-15-3	50	ND			µg/L
Disperse Yellow 3	2832-40-8	50	ND			µg/L
Disperse Yellow 39	12236-29-2	50	ND			µg/L
Disperse Yellow 49	54824-37-2	50	ND			µg/L
Disperse Yellow 9	6373-73-5	50	ND			µg/L



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**1I) Dyes - Navy Blue Colourant**

Liquid extraction, LC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	500	ND			µg/L
Component 2: C46H-30CrN10O20S2 3Na	Not allocated	500	ND			µg/L

**1J) Flame Retardants**

ISO 22032, USEPA 527 and USEPA 8321B Dichloromethane extraction GC-MS or LC-MS & Determined as total boron via ICP

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	ND			µg/L
Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9	25	ND			µg/L
Decabromophenyl ether (DecaBDE)	1163-19-5	25	ND			µg/L
Hexabromocyclodecane (HBCDD)	3194-55-6	25	ND			µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	ND			µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	ND			µg/L
Polybromobiphenyls (PBB)	59536-65-1	25	ND			µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	25	ND			µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	ND			µg/L
Tris(1-aziridinyl)phosphone oxide (TEPA)	545-55-1	25	ND			µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	ND			µg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	ND			µg/L
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25	ND			µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	25	ND			µg/L
Dibromobiphenyls (DiBB)	Multiple	25	ND			µg/L
Octabromobiphenyls (OctaBB)	Multiple	25	ND			µg/L
Dibromopropylether	21850-44-2	25	ND			µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	ND			µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	ND			µg/L
Monobromobiphenyls (MonoBB)	Multiple	25	ND			µg/L



**1J) Flame Retardants (continued)**

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Monobromodiphenylethers (MonoBDEs)	Multiple	25	ND			µg/L
Nonabromobiphenyls (NonaBB)	Multiple	25	ND			µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	ND			µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	ND			µg/L
Tribromophenylethers (TriBDEs)	Multiple	25	ND			µg/L
Boric acid <sup>b</sup>	10043-35-3, 11113-50-1	100	ND			µg/L
Diboron trioxide <sup>b</sup>	1303-86-2	100	ND			µg/L
Disodium octaborate <sup>b</sup>	12008-41-2	100	ND			µg/L
Disodium tetraborate anhydrous <sup>b</sup>	1303-96-4, 1330-43-4	100	ND			µg/L
Tetraboron disodium heptaoxide, hydrate <sup>b</sup>	12267-73-1	100	ND			µg/L

**1K) Glycols / Glycol Ethers**

USEPA 8270E Liquid extraction, GC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
2-ethoxyethanol	110-80-5	50	ND			µg/L
2-ethoxyethyl acetate	111-15-9	50	ND			µg/L
2-methoxyethanol	109-86-4	50	ND			µg/L
2-methoxyethylacetate	110-49-6	50	ND			µg/L
2-methoxypropylacetate	70657-70-4	50	ND			µg/L
Bis(2-methoxyethyl)-ether	111-96-6	50	ND			µg/L
Ethylene glycol dimethyl ether	110-71-4	50	ND			µg/L
Triethylene glycol dimethyl ether	112-49-2	50	ND			µg/L

**1L) Halogenated Solvents**

USEPA 8260D Headspace GC-MS or Purge and trap GC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
1,2-dichloroethane	107-06-2	1	ND			µg/L
Methylene chloride	75-09-2	1	ND			µg/L
Tetrachloroethylene	127-18-4	1	ND			µg/L
Trichloroethylene	79-01-6	1	ND			µg/L



**1M) Organotin Compounds**

ISO 17353 Derivatisation with NaB (C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> GC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Dipropyltin compounds (DPT)	Multiple	0.01	ND			µg/L
Mono, di-, and tri-butyltin derivatives	Multiple	0.01	ND			µg/L
Mono, di-, and tri-methyltin derivatives	Multiple	0.01	ND			µg/L
Mono, di-, and tri-octyltin derivatives	Multiple	0.01	ND			µg/L
Mono, di-, and tri-phenyltin derivatives	Multiple	0.01	ND			µg/L
Tetrabutyltin compounds (TeBT)	Multiple	0.01	ND			µg/L
Tripropyltin compounds (TPT)	Multiple	0.01	ND			µg/L
Tetraoctyltin compounds (TeOT)	Multiple	0.01	ND			µg/L
Tricyclohexyltin (TCyHT)	Multiple	0.01	ND			µg/L
Tetraethyltin compounds (TeET)	Multiple	0.01	ND			µg/L

**1N) Other / Miscellaneous Chemicals**

Liquid extraction, LC-MS; Determine as total boron and total zinc via ICP

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500	ND			µg/L
Bisphenol A	80-05-7	10	ND			µg/L
Thiourea	62-56-6	50	ND			µg/L
Quinoline	91-22-5	50	ND			µg/L
Borate (Borate, zinc salt <sup>c</sup> )	12767-90-7	100	ND			µg/L
Zinc salt (Borate, zinc salt <sup>c</sup> )		100	ND			µg/L
Silica (used in sand blasting) <sup>d</sup>	14464-46-1	-	NA			µg/L

**1O) Perfluorinated and Polyfluorinated Chemicals (PFCs)**

PFCs: EPA 537:2020; FTOH: BS EN 12673-1999, EPA 8270; PFCs: LC-MSMS

FTOH: GC-MS Derivatisation with acetic anhydride followed by GC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA)	Multiple	0.01	ND			µg/L
Perfluorooctanoic acid (PFOA) related substances	Multiple	1	ND			µg/L



**1P) Phthalates - including all other esters of ortho-phthalic acid**

USEPA 8270E, ISO 18856 Dichloromethane extraction GC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
1,2-benzenedicarboxylic acid, di-C6-8 branched and linear alkyl esters, C7-rich (DIHP)	71888-89-6, 84777-06-0	10	ND			µg/L
1,2-benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP)	68515-42-4, 68515-50-4	10	ND			µg/L
Bis(2-methoxyethyl)phthalate (DMEP)	117-82-8	10	ND			µg/L
Butyl benzyl phthalate (BBP)	85-68-7	10	ND			µg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	ND			µg/L
Di-iso-decyl phthalate (DIDP)	26761-40-0	10	ND			µg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	ND			µg/L
Di-iso-butyl phthalate (DIBP)	84-69-5	10	ND			µg/L
Di-iso-nonyl phthalate (DINP)	28553-12-0	10	ND			µg/L
Di-n-hexyl phthalate (DnHP)	84-75-3	10	ND			µg/L
Di-n-octyl phthalate (DNOP)	117-84-0	10	ND			µg/L
Di-n-pentylphthalates	131-18-0	10	ND			µg/L
Di-n-propyl phthalate (DPRP)	131-16-8	10	ND			µg/L
Di(ethylhexyl) phthalate (DEHP)	117-81-7	10	ND			µg/L
Dibutyl phthalate (DBP)	84-74-2	10	ND			µg/L
Diethyl phthalate (DEP)	84-66-2	10	ND			µg/L
Diisopentylphthalates	605-50-5	10	ND			µg/L
Dinonyl phthalate (DNP)	84-76-4	10	ND			µg/L

**1Q) Polycyclic Aromatic Hydrocarbons (PAHs)**

USEPA 8270E DIN 38407-39 Solvent extraction GC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Acenaphthene	83-32-9	1	ND			µg/L
Acenaphthylene	208-96-8	1	ND			µg/L
Anthracene	120-12-7	1	ND			µg/L
Benzo[a]anthracene	56-55-3	1	ND			µg/L
Benzo[a]pyrene (BaP)	50-32-8	1	ND			µg/L
Benzo[b]fluoranthene	205-99-2	1	ND			µg/L
Benzo[e]pyrene	192-97-2	1	ND			µg/L
Benzo[ghi]perylene	191-24-2	1	ND			µg/L
Benzo[j]fluoranthene	205-82-3	1	ND			µg/L
Benzo[k]fluoranthene	207-08-9	1	ND			µg/L
Chrysene	218-01-9	1	ND			µg/L
Dibenz[a,h]anthracene	53-70-3	1	ND			µg/L



**1Q) Polycyclic Aromatic Hydrocarbons (PAHs) (continued)**

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Fluoranthene	206-44-0	1	ND			µg/L
Fluorene	86-73-7	1	ND			µg/L
Indeno[1,2,3-cd]pyrene	193-39-5	1	ND			µg/L
Naphthalene	91-20-3	1	ND			µg/L
Phenanthrene	85-01-8	1	ND			µg/L
Pyrene	129-00-0	1	ND			µg/L

**1R) Restricted Aromatic Amines (Cleavable from Azo-colourants)**

Reduction step with sodium dithionite, solvent extraction EPA 8270 & Reduction step with sodium dithionite, solvent extraction EPA 8270E and ISO 14362-1 GC/MS and LC/DAD

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
2-naphthylamine	91-59-8	0.1	ND			µg/L
2-naphthylammoniumacetate	553-00-4	0.1	ND			µg/L
2,4-xylidine	95-68-1	0.1	ND			µg/L
2,4,5-trimethylaniline	137-17-7	0.1	ND			µg/L
2,4,5-trimethylaniline hydrochloride	21436-97-5	0.1	ND			µg/L
2,6-xylidine	87-62-7	0.1	ND			µg/L
3,3'-dichlorobenzidine	91-94-1	0.1	ND			µg/L
3,3-dimethoxybenzidine	119-90-4	0.1	ND			µg/L
3,3-dimethylbenzidine	119-93-7	0.1	ND			µg/L
4-aminoazobenzene	60-09-3	0.1	ND			µg/L
4-aminodiphenyl	92-67-1	0.1	ND			µg/L
4-chloro-o-toluidine	95-69-2	0.1	ND			µg/L
4-chloro-o-toluidinium chloride	3165-93-3	0.1	ND			µg/L
4-chloroaniline	106-47-8	0.1	ND			µg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisoole sulphate	39156-41-7	0.1	ND			µg/L
4-methoxy-m-phenylenediamine	615-05-4	0.1	ND			µg/L
4-methyl-m-phenylenediamine	95-80-7	0.1	ND			µg/L
4,4-methylene-bis-(2-chloro-aniline)	101-14-4	0.1	ND			µg/L
4,4-methylenedi-o-toluidine	838-88-0	0.1	ND			µg/L
4,4-methylenedianiline	101-77-9	0.1	ND			µg/L
4,4-oxydianiline	101-80-4	0.1	ND			µg/L
4,4-thiodianiline	139-65-1	0.1	ND			µg/L
5-nitro-o-toluidine	99-55-8	0.1	ND			µg/L
6-methoxy-m-toluidine	120-71-8	0.1	ND			µg/L
Benzidine	92-87-5	0.1	ND			µg/L
o-aminoazotoluene	97-56-3	0.1	ND			µg/L
o-anisidine	90-04-0	0.1	ND			µg/L
o-toluidine	95-53-4	0.1	ND			µg/L



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**1S) UV Absorbers**

USEPA 8270 ISO 22032, USEPA 527 and USEPA 8321B.  
Dichloromethane extraction GC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	100	ND			µg/L
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	100	ND			µg/L
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	100	ND			µg/L
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	100	ND			µg/L

**1T) Volatile Organic Compounds (VOC)**

ISO 11423-1 Headspace or Purge and trap GC-MS USEPA 8260D Static headspace for determination of VOC in wastewater; ISO 11423-1 Headspace or Purge and trap GC-MS EPA 8270; ISO 11423-1 Headspace or Purge and trap GC-MS USEPA 8260D & EPA 8260D or ISO 11423-1

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Benzene	71-43-2	1	ND			µg/L
m-cresol	108-39-4	1	ND			µg/L
o-cresol	95-48-7	1	ND			µg/L
p-cresol	106-44-5	1	ND			µg/L
Xylene	1330-20-7	1	ND			µg/L
Toluene <sup>a</sup>	108-88-3	1	ND			µg/L

Note / Key:

- a = Sample and report only for mock leather.
- b = Limit refers to elemental boron, not the salt.
- c = Limit refers to total boron and total zinc individually, not the salt. Total boron and total zinc values should be less than 100 µg/L to be conformant. When total boron is >100 µg/L and total zinc are <100 µg/L (or vice versa) the sample is still conformant.
- d = Not required to test this parameter as this related to sand blasting.



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**Wastewater Test Result - ZDHC Heavy Metals**

**Wastewater - ZDHC Heavy Metals**

With reference to EPA 3015A, 6020A, 200.8, 6020B, 3051A and ISO 17294-2 and analyzed by ICP-MS and ISO 18412 / USEPA 218.6 for Chromium (VI)

Test Parameters	Reporting limit & LOQ	Limit				Local Legal Standard / Contractual agree with CETP Standard	Result of Test Items			Unit
		Foundational	Progressive	Aspirational	Effluent					
Antimony	0.01	0.1	0.05	0.01	--	ND			mg/L	
Chromium (VI)	0.001	0.05	0.005	0.001	--	ND			mg/L	
Barium	1	Sample & Report			--	ND			mg/L	
Selenium	1	Sample & Report			--	ND			mg/L	
Tin	1	Sample & Report			--	ND			mg/L	
Arsenic	0.005	0.05	0.01	0.005	--	ND			mg/L	
Total Chromium	0.05	0.2	0.1	0.05	0.5	ND			mg/L	
Cobalt	0.01	0.05	0.02	0.01	0.5	ND			mg/L	
Cadmium	0.01	0.1	0.05	0.01	0.02	ND			mg/L	
Copper	0.25	1	0.5	0.25	--	ND			mg/L	
Lead	0.01	0.1	0.05	0.01	0.1	ND			mg/L	
Nickel	0.05	0.2	0.1	0.05	1	ND			mg/L	
Silver	0.005	0.1	0.050	0.005	--	ND			mg/L	
Zinc	0.5	5	1	0.5	--	ND			mg/L	
Mercury	0.001	0.01	0.005	0.001	--	ND			mg/L	





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**Wastewater Test Result - ZDHC Conventional & Anions**

Wastewater - ZDHC Conventional									
Test Parameters	Test Method	Reporting limit & LOQ	Limit				Result of Test Items		Unit
			Foundational	Progressive	Aspirational	Local Legal Standard / Contractual agree with CERP Standard	Effluent	I002	
pH <sup>[f]</sup>	ISO 10523, EPA 150.2 & APHA 4500-H+	-	6-9	6-9	6-9	6-9	7.4		-
Temperature difference <sup>[f]</sup>	USEPA 170.1 or GB/T 13195	-	15	10	5	≤5	2.2		Δ °C
E.coli	APHA 9221 B,F	126	126	126	126	--	58		MPN/100-ml
Colour (436 nm)	ISO 7887: 2011(E), B	2	7	5	2	--	4		m <sup>-1</sup>
Colour (525 nm)		1	5	3	1	--	1.9		m <sup>-1</sup>
Colour (620 nm)		1	3	2	1	--	1.1		m <sup>-1</sup>
Persistent Foam <sup>[f]</sup>	Visual	-	No indication of Persistent Foam			--	Absent		-
Wastewater Flowrate <sup>[f]</sup>	-	-	-	-	-	--	3912		m <sup>3</sup> /day
Ammonium-Nitrogen	APHA-4500-NH <sub>3</sub> B&F	0.5	10	1	0.5	--	ND		mg/L
AOX	EN ISO 9562 (Mod.)	0.1	3	0.5	0.1	--	0.19		mg/L
BOD <sub>5</sub>	APHA 5210B & HJ 505 (5 days)	8	30	15	8	30	13.8		mg/L
COD	APHA 5220 D	40	150	80	40	200	49		mg/L
DO <sup>[f]</sup>	Hach manual for LDO & In-house	-	Sample & Report	Sample & Report	Sample & Report	--	6.16		mg/L
Oil & Grease	EPA 1664B & APHA 5520 B and F	0.5	10	2	0.5	10	1.8		mg/L
Total Phenols / Phenol Index	APHA 5530 C	0.001	0.5	0.01	0.001	1	0.001		mg/L
Total Chlorine <sup>[f]</sup>	ISO 7393-2, EPA 330.5 or HJ 586	0.1	Sample & Report	Sample & Report	Sample & Report	--	ND		mg/L
TDS	APHA 2540C	5	Sample & Report	Sample & Report	Sample & Report	2100	2016		mg/L
Total Nitrogen	DIN EN ISO 11905-1 (Mod.)	5	20	10	5	--	7.9		mg/L
Total Phosphorus	APHA 4500-P; E	0.1	3	0.5	0.1	--	0.16		mg/L
TSS	APHA 2540D, GB 11901, ISO 11923	5	50	15	5	100	5		mg/L



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**Wastewater Test Result - ZDHC Conventional & Anions**

Wastewater - ZDHC Anions										
Test Parameters	Test Method	Reporting limit & LOQ	Limit				Local Legal Standard / Contractual agree with CETP Standard	Result of Test Items		Unit
			Foundational	Progressive	Aspirational	Effluent		I002		
Chloride	APHA 4500-Cl	1	Sample & Report	Sample & Report	Sample & Report	--	149.95		mg/L	
Cyanide, total	APHA-4500-CN, C&E, EPA 9010C, 9013 & 9014	0.05	0.2	0.1	0.05	--	ND		mg/L	
Sulfate	APHA 4500-SO4-E	3	Sample & Report	Sample & Report	Sample & Report	--	21.64		mg/L	
Sulfide	APHA 4500-S2-D	0.01	0.5	0.05	0.01	2	0.1		mg/L	
Sulfite	EPA 377.1 & APHA 4500-SO3 2-B	0.2	2	0.5	0.2	--	1		mg/L	



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**Sludge Test Result - Metals & Conventional and Anions & MRSL**

**Sludge - Metals**

With reference to EPA 3015A, 6020A, 200.8, 6020B, 3051A and ISO 17294-2 and analyzed by ICP-MS and ISO 18412 / USEPA 218.6 for Chromium (VI)

Test Parameters	Sludge Reporting limit & LOQ	Total Metals and Anions Threshold Values	Limit		Result of Test Items			Unit
					Sludge			
					<b>I003</b>			
Antimony	5	12			ND			mg/kg
Arsenic	5	10			ND			mg/kg
Barium	200	700			ND			mg/kg
Cadmium	1	3			ND			mg/kg
Cobalt	400	1600			ND			mg/kg
Copper	50	200			ND			mg/kg
Lead	5	10			ND			mg/kg
Nickel	20	70			ND			mg/kg
Selenium	5	10			ND			mg/kg
Silver	50	100			ND			mg/kg
Total Chromium	50	100			ND			mg/kg
Zinc	400	1000			ND			mg/kg
Chromium (VI)	20	50			ND			mg/kg
Mercury	1	1			ND			mg/kg

**Sludge (Leachate) - Metals**

With reference to EPA 1311 for leachate

Test Parameters	Reporting limit & LOQ	Leachate Limit	Limit		Result of Test Items			Unit
					Leachate			
Antimony	0.6	15			NA			mg/L
Arsenic	0.5	5			NA			mg/L
Barium	35	100			NA			mg/L
Cadmium	0.15	1			NA			mg/L
Cobalt	80	80			NA			mg/L
Copper	10	25			NA			mg/L
Lead	0.5	5			NA			mg/L
Nickel	3.5	20			NA			mg/L
Selenium	0.5	1			NA			mg/L
Silver	5	5			NA			mg/L
Total Chromium	5	15			NA			mg/L
Zinc	50	250			NA			mg/L
Chromium (VI)	2.5	5			NA			mg/L
Mercury	0.05	0.2			NA			mg/L



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**Sludge - Conventional**

Test Parameters	Test Method	Reporting limit & LOQ	Limit		Result of Test Items			Unit
			Sludge Reporting Limit	Sludge disposal pathway	Sludge I003			
pH	EPA SW 9045D	-	-	5-11	6.9			-
% Solids	EPA 160.3, HJ613 at 105 degree C	-	-		57.21			%
Fecal Coliform	APHA 9221. A, E	-	-	Sample and Report Only	220			MPN/100 ml
Paint Filter Test	EPA 9095B	-	-		Pass			-

**Sludge - AP and APEOs: including all isomers**

NP/OP: ISO 18857-2 (modified dichloromethane extraction) or ASTM D7065 (GC-MS or LC-MS(-MS)). OPEO/NPEO (n>2): ISO 18857-2

Test Parameters	CAS Number	Limit		Result of Test Items			Unit
		Sludge Reporting Limit & LOQ	Sludge disposal pathway	Sludge I003			
NPEO	9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0	0.4	Sample and Report Only	ND			mg/kg
NP, mixed isomers	104-40-5, 11066-49-2, 25154-52-3, 84852-15-3			ND			mg/kg
OPEO	9002-93-1, 9036-19-5, 68987-90-6			ND			mg/kg
OP, mixed isomers	140-66-9, 1806-26-4, 27193-28-8			ND			mg/kg

**Sludge - Chlorotoluenes**

USEPA 8260D, 8270E, Purge and Trap, Head Space, Dichloromethane extraction followed by GC-MS

Test Parameters	CAS Number	Limit		Result of Test Items			Unit
		Sludge Reporting Limit & LOQ	Sludge disposal pathway	Sludge I003			
Chlorotoluenes	Multiple	0.2	Sample and Report Only	ND			mg/kg



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**Sludge - Polycyclic Aromatic Hydrocarbons (PAHs)**

USEPA 8270E DIN 38407-39 Solvent extraction GC-MS

Test Parameters	CAS Number	Limit			Result of Test Items			Unit
		Reporting Limit & LOQ	Sludge Reporting pathway	Limits for specific disposal pathway	Sludge I003			
Acenaphthene	83-32-9	0.2	Sample and Report Only		ND		mg/kg	
Acenaphthylene	208-96-8				ND		mg/kg	
Anthracene	120-12-7				ND		mg/kg	
Benzo[a]anthracene	56-55-3				ND		mg/kg	
Benzo[a]pyrene (BaP)	50-32-8				ND		mg/kg	
Benzo[b]fluoranthene	205-99-2				ND		mg/kg	
Benzo[e]pyrene	192-97-2				ND		mg/kg	
Benzo[ghi]perylene	191-24-2				ND		mg/kg	
Benzo[j]fluoranthene	205-82-3				ND		mg/kg	
Benzo[k]fluoranthene	207-08-9				ND		mg/kg	
Chrysene	218-01-9				ND		mg/kg	
Dibenz[a,h]anthracene	53-70-3				ND		mg/kg	
Fluoranthene	206-44-0				ND		mg/kg	
Fluorene	86-73-7				ND		mg/kg	
Indeno[1,2,3-cd]pyrene	193-39-5				ND		mg/kg	
Naphthalene	91-20-3				ND		mg/kg	
Phenanthrene	85-01-8				ND		mg/kg	
Pyrene	129-00-0	ND		mg/kg				

**Sludge - Anions**

APHA-4500-CN. C&E, EPA 9010C, 9013 & 9014

Test Parameters	Limit			Result of Test Items			Unit
	Reporting Limit & LOQ	Sludge Reporting pathway	Limits for specific disposal pathway	Sludge I003			
Cyanide	20	100		ND		mg/kg	



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### **Appendix A - Discharge limit according to regulation**

[Environmental Conservation Rules' 2023 (Bangladesh): For Dyeing / Washing and Printing [Schedule 5 (2)]:

Sl No.	Test Parameters	unit	Limitation Value of Legal Requirements (ECR)
1	Temperature	°C	≤5
2	TSS	mg/L	100
3	COD	mg/L	200
4	pH	Range	6-9
5	Color	Pt-Co	150
6	BOD5	mg/L	30
7	Oil and Grease	mg/L	10
8	Phenol / Phenol Index	mg/L	1
9	Sulfide	mg/L	2
10	Total Dissolved Solids	mg/L	2100
11	Chromium, total	mg/L	0.5
12	Cobalt	mg/L	0.5
13	Nickel	mg/L	1
14	Cadmium	mg/L	0.02
15	Lead	mg/L	0.1



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**Appendix B - Photos of sampling points and samples (with relative time and date)**

**I001 - Untreated wastewater**

Sampling point  
06/10/2024



Sampling point surrounding environment  
06/10/2024



Labelled sample bottles  
06/10/2024



Sample for phthalate test  
06/10/2024



Sample packaging  
06/10/2024





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**Appendix B - Photos of sampling points and samples (with relative time and date) (continued)**

**I002 - Effluent**

Sampling point  
06/10/2024



Sampling point surrounding environment  
06/10/2024



Labelled sample bottles  
06/10/2024



pH measurement  
06/10/2024



Sample packaging  
06/10/2024







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**Appendix B - Photos of sampling points and samples (with relative time and date) (continued)**

**I003 - Sludge**

Sampling point  
06/10/2024



Sampling point surrounding environment  
06/10/2024



Labelled sample bottles  
06/10/2024



Sample packaging  
06/10/2024





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**Appendix C - On-site Field Data Record Sheet**

<p style="text-align: center;"><b>ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration</b></p>	CPSD-AN-00613-DATA 07
	Issue Date: February 20, 2024
	Version No.: 1
	Business Line: Analytical

Attach the completed field data form in the test report.

Facility Information		
Date of Sampling:	06.10.2024	
Sample Number (ZDHC Composite Sample Code):		
Facility Name:	Pioneer Denim Limited.	
Facility Address:	Horitola, Shahpur Bazar, Madhabpur, Habiganj.	
Facility Type (tick all applicable):	<input checked="" type="checkbox"/> Dyeing and Finishing <input type="checkbox"/> Fabric Mill <input checked="" type="checkbox"/> Laundry, Washing and Finishing <input type="checkbox"/> Natural Leather processing <input type="checkbox"/> Printing <input type="checkbox"/> Synthetic Leather processing <input type="checkbox"/> Other (please specify)	
Discharge Type (tick applicable):	<input checked="" type="checkbox"/> Direct discharge <input type="checkbox"/> with pre-treatment <input type="checkbox"/> Indirect discharge <input type="checkbox"/> without pre-treatment <input type="checkbox"/> Zero liquid discharge (ZLD) <input type="checkbox"/> with own ETP	Other Notes:
Discharge Description:	<input type="checkbox"/> Discharge to environment (e.g. river, stream, sea etc.) <input type="checkbox"/> Other (please specify) <input type="checkbox"/> Sewage treatment plant                      * gout canal	
Discharge Volume:	<input checked="" type="checkbox"/> ≤ 15m <sup>3</sup> per day <input type="checkbox"/> < 15m <sup>3</sup> per day	

Sample Type and Details	
Sample Type	Sample Details
<input type="checkbox"/> Incoming Water	
<input type="checkbox"/> Untreated WW	<input type="checkbox"/> with equalisation tank (EQT) present Hydraulic Retention Time (HRT) (Hours): <u>20 Hours</u> <small>= volume of tank (m<sup>3</sup>) / flow rate (m<sup>3</sup>/h) if HRT &gt; 12 h, grab sampling from EQT is allowed.</small>
<input checked="" type="checkbox"/> Effluent	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> Indirect <small>Enter sampling time(s) in page 2 and take field test measurements.</small> <small>Enter sampling time(s) in page 2. No field test measurements required except on client's request.</small> <input type="checkbox"/> Facility has WWTP <input type="checkbox"/> Plant is in operating condition <input type="checkbox"/> with equalisation tank (EQT) present Hydraulic Retention Time (HRT) (Hours): <small>= volume of tank (m<sup>3</sup>) / flow rate (m<sup>3</sup>/h) if HRT &gt; 12 h, grab sampling from EQT is allowed.</small>
<input type="checkbox"/> Sludge	Disposal Pathway (The pathway must be defined by the facility. If the facility cannot provide information, pathway "F" shall be assumed.) <input type="checkbox"/> A >1000°C offsite incineration <input checked="" type="checkbox"/> B Landfill with significant control Building products processed >1000°C <input type="checkbox"/> C Landfill with no control <input type="checkbox"/> D Landfill with limited control <input type="checkbox"/> E Incineration/ Building products processed <1000°C <input type="checkbox"/> F Landfill with no control <input type="checkbox"/> G Land application Sludge flux (weight/time) if applicable:

ZDHC Wastewater Sampling - Facility Confirmation			
The wastewater samples have been collected under the facilities' normal production scale and wastewater flow rate. The sampler listed below was on-site and collected the samples. Sampling protocol for wastewater and sludge samples are in accordance with ZDHC SAP including appendix E. In no circumstances shall samples be taken during times when the production process is not running or the wastewater is diluted, for example due to heavy rainfall.			
Facility Confirmation		Sampler Information	
Facility Name:	Pioneer Denim Ltd	Sampler's Name/ Email:	Md. Masud Rana
Facility Representative Name:	Md. Hafizul Islam	Sampler's ZDHC Accredited No.:	C74D106817431
Facility Representative Signature and Stamp:		Sampler's Signature:	
Date:	06.10.2024	Date:	06.10.2024



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**Appendix C - On-site Field Data Record Sheet (continued)**

<b>ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration</b>	CPSD-AN-00613-DATA 07 Issue Date: _____ Version No.: 1 Business Line: Analytical
---	---

ZDHC Wastewater Flow Device Dimensions									
Measurement (cm)	Meter	Pipe (O)	Flume (U)	Wier (V)					
Diameter	--								
Depth	--	--	--	--					
ZDHC Wastewater Sampling Field Testing QA/ QC									
Parameter	Lab Control Sample (LCS) Known	Lab Control Sample (LCS) Measured	Accuracy (%)						
pH	4.0	4.02	100.50%						
Total Chlorine	0.50	0.48	96%						
ZDHC Wastewater Sample Collection Field Test Measurements									
<b>Incoming Sample Point</b>		<input type="radio"/> Composite Sample <input type="radio"/> Grab Sample		Start Time:		Stop Time:			
Sampling Locations:		GPS coordinates:		Lat.: N / S		Long.: E / W			
Sampling Mode:		<input type="radio"/> Manual <input type="radio"/> Autosampler - Sampling Device Description/ Owner:							
Sampling Time (Hours)		0	1	2	3	4	5	6	Average
Recording time of discrete sample									--
Colour (visual estimation):									
<b>Untreated Sample Point</b>		<input type="radio"/> Composite Sample <input checked="" type="radio"/> Grab Sample		Start Time: 11:40		Stop Time: 13:40			
Sampling Locations:		GPS coordinates:		Lat.: N / S 24.223736		Long.: E / W 91.360092			
Sampling Mode:		<input checked="" type="radio"/> Manual <input type="radio"/> Autosampler - Sampling Device Description/ Owner:							
Sampling Time (Hours)		0	1	2	3	4	5	6	Average
Recording time of discrete sample		11:57							--
Colour (visual estimation):		Black							
<b>Effluent Sample Point</b>		<input type="radio"/> Composite Sample <input checked="" type="radio"/> Grab Sample		Start Time: 11:40		Stop Time: 13:40			
Sampling Locations:		GPS coordinates:		Lat.: N / S 24.222921		Long.: E / W 91.359712			
Sampling Mode:		<input checked="" type="radio"/> Manual <input type="radio"/> Autosampler - Sampling Device Description/ Owner:							
Sampling Time (Hours)		0	1	2	3	4	5	6	Average
Recording time of discrete sample		12:07							--
Temperature (°C):	WW Discharge	33.6							
	Receiving Water	31.4							
pH:		7.4							
Dissolved Oxygen (mg/L):		6.16							
Total Chlorine (mg/L):		0.65							
Persistent Foam (Yes/ No):	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Wastewater Flow Meter (L/min):	m <sup>3</sup> /h	163							
Alternate Measured Flow:	Depth (cm)								
	Velocity (cm/sec)	/							
Colour (visual estimation):		Light Brown							
Volume collected (L):		24x1							
Total volume collected (L):		24	Collect 3.33-litres each hour for a total minimum volume of 20-litres						
<b>Sludge Sample Point</b>		<input checked="" type="radio"/> Composite Sample		Start Time: 11:40		Stop Time: 13:40			
Sampling Locations:		GPS coordinates:		Lat.: N / S 24.222921		Long.: E / W 91.359712			
Sampling Mode:		<input checked="" type="radio"/> Manual <input type="radio"/> Autosampler - Sampling Device Description/ Owner:							
Sampling Time (Hours)		0	1	2	3	4	5	6	Average
Recording time of discrete sample		12:16							--
Colour (visual estimation):		Black (Solid)							

END OF REPORT