



**BUREAU
VERITAS**

LAB REPORT

Report Number	(6724)272-0586		
Date of sampling	September 26, 2024		
Reporting Date	October 9, 2024		
Factory Company Name	AURO TEXTILES (A UNIT OF VARDHMAN TEXTILES LTD)		
Factory Address	SAI ROAD, BADDI, DISTT SOLAN HP-173205		
Discharge Type	Discharge Type Indirect Discharge without Pretreatment (Cat-I) and Zero Liquid Discharge (Cat-IV)		
Discharge Destination Name & Address	CETP (Cat-I) and Reuse/ Recycle (Cat-IV)		
Average total industrial wastewater generated	Equal or more than 15m ³ per day	Manufacturing Process Type	Textile
Onsite ETP / Pretreatment	Yes	Homogenization Tank & Holding Time	Yes
ZDHC Sampler ID	C74D106817597		
Sample Type & Description & Sampling Method	Untreated wastewater (Cat-I)	I001, Black color liquid, Grab sample at 14:10	
	Untreated wastewater (Cat-IV)	I002, Brown color liquid, Grab sample at 14:30	
	Treated wastewater	I003, Not Applicable	
	Sludge (Cat-IV)	I004, Brown solid, composite sample at 14:50	

Local Legal Data / Contractual agree by CETP Data

Local Legal Standard Name / Name of Contractual agree by CETP^[a]	Baddi Infrastructure CETP, Himachal
Standard Number	NA
Parameters (ZDHC WWG V2.1, Table 2 & 3) exceeded local legal standard / contractual agree by CETP standard	No exceeded
Discharge permit provided	No

Result Overview

Wastewater Overall Result (ZDHC WWG V2.1, Table 1)	Not detected		
Wastewater Overall Result (ZDHC WWG V2.1, Table 2 & 3)	Not applicable		
Sludge Disposal Pathway	B	Sludge Overall Result	Meet Sludge Disposal Pathway (sample & report)

Internal Description	
Sample reference number	(6724)272-0586
Date & time of the beginning of sampling	September 26, 2024 , 13:20
Date & time of the end of sampling	September 26, 2024 , 16:30
Sample received date	(28/09/2024)
Testing period	(28/09/2024) to (09/10/2024)
Arrival temperature at laboratory	6.2 °C
Comments	The results of this report shall not be used for any regulatory compliance purposes.

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 reviewed by



Asst Manager, Sustainability

Report approved by



Sumanta Kumar Swain, Manager

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Wastewater Result Summary - ZDHC MRSL Parameters

ZDHC MRSL Wastewater	Untreated (Cat-I)	Untreated (Cat-IV)	
	I001	I002	
1A) AP and APEOs: including all isomers	ND	ND	
1B) Anti-Microbials & Biocides	ND	ND	
1C) Chlorinated Parafins	ND	ND	
1D) Chlorobenzenes and Chlorotoluenes	ND	ND	
1E) Chlorophenols	ND	ND	
1F) DMFa	ND	ND	
1G) Dyes - Carcinogenic or Equivalent Concern	ND	ND	
1H) Dyes - Disperse (Sensitising)	ND	ND	
1I) Dyes - Navy Blue Colourant	ND	ND	
1J) Flame Retardants	ND	ND	
1K) Glycols / Glycol Ethers	ND	ND	
1L) Halogenated Solvents	ND	ND	
1M) Organotin Compounds	ND	ND	
1N) Other / Miscellaneous Chemicals	ND	ND	
1O) PFCs	ND	ND	
1P) Phthalates	ND	ND	
1Q) PAHs	ND	ND	
1R) Restricted Aromatic Amines	ND	ND	
1S) UV Absorbers	ND	ND	
1T) VOC	ND	ND	



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Wastewater Result Summary - ZDHC Heavy Metals Parameters

ZDHC Heavy Metals Wastewater	Untreated (Cat-I) I001	Untreated (Cat-IV) I002	Effluent I003
Antimony	NR	NR	NR
Chromium (VI)	ND	NR	NR
Barium	NR	NR	NR
Selenium	NR	NR	NR
Tin	NR	NR	NR
Arsenic	ND	NR	NR
Total Chromium	NR	NR	NR
Cobalt	NR	NR	NR
Cadmium	ND	NR	NR
Copper	NR	NR	NR
Lead	ND	NR	NR
Nickel	NR	NR	NR
Silver	NR	NR	NR
Zinc	NR	NR	NR
Mercury	ND	NR	NR



Wastewater Result Summary - ZDHC Conventional and Anions Parameters

ZDHC Conventional and Anions Wastewater	Effluent I003		
pH ^[f]	NR		
Temperature difference ^[f]	NR		
E.coli	NR		
Colour	NR		
Persistent foam ^[f]	NR		
Wastewater flowrate ^[f]	NR		
Ammonium-Nitrogen	NR		
AOX	NR		
Biochemical Oxygen Demand (BOD ₅)	NR		
Chemical Oxygen Demand (COD)	NR		
Dissolved Oxygen (DO) ^[f]	NR		
Oil & Grease	NR		
Total Phenols / Phenol Index	NR		
Total Chlorine ^[f]	NR		
Total Dissolved Solids (TDS)	NR		
Total Nitrogen	NR		
Total Phosphorus	NR		
Total Suspended Solids (TSS)	NR		
Chloride	NR		
Cyanide, total	NR		
Sulfate	NR		
Sulfide	NR		
Sulfite	NR		



Sludge Result Summary - ZDHC Sludge Parameters

Sludge Parameters	Sludge I004		
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		
AP and APEOs: including all isomers	ND		
Polycyclic Aromatic Hydrocarbons (PAHs)	ND		
Chlorotoluenes	ND		
Cyanide	ND		

Sludge flux and/or sludge flow data: NA

Note / Key:

- | | | | | | |
|-----------------|---|---|-----|---|---------------------------|
| ND | = | Not detected (less than reporting limit) | NA | = | Not applicable |
| D | = | Detected | - | = | Did not perform |
| MEET | = | Meet ZDHC Wastewater Guidelines Requirements | [f] | = | Parameter tested in field |
| NOT MEET | = | 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 - XXXXX | | | |
| * | = | See remark | | | |



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): ASTM D7742 ISO 18857-2

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated (Cat-I) I001	Untreated (Cat-IV) I002		
NPEO	9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0	5	ND	ND		µg/L
NP, mixed isomers	104-40-5, 11066-49-2, 25154-52-3, 84852-15-3	5	ND	ND		µg/L
OPEO	9002-93-1, 9036-19-5, 68987-90-6	5	ND	ND		µg/L
OP, mixed isomers	140-66-9, 1806-26-4, 27193-28-8	5	ND	ND		µg/L

1B) Anti-Microbials & Biocides

US EPA 8270 E Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS BS EN 12673-1999 an alternative method of solvent extraction and derivatization are included/ US EPA 8270 E Solvent extraction, followed by GC-MS ISO 14154:2005 An alternate method, without derivatization and determination by LCMS/LCMSMS is also possible

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated (Cat-I) I001	Untreated (Cat-IV) I002		
o-Phenylphenol (+salts)	90-43-7	100	ND	ND		µg/L
Triclosan	3380-34-5	100	ND	ND		µg/L
Permethrin	Multiple	500	ND	ND		µg/L

1C) Chlorinated Parafins

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

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated (Cat-I) I001	Untreated (Cat-IV) I002		
MCCPs (C14-C17)	85535-85-9	500	ND	ND		µg/L
SCCPs (C10-C13)	85535-84-8	25	ND	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 (Cat-I) I001	Untreated (Cat-IV) I002		
1,2-dichlorobenzene	95-50-1	0.2	ND	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	ND		µg/L



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 (Cat-I) I001	Untreated (Cat-IV) I002		
2-chlorophenol	95-57-8	0.5	ND	ND		µg/L
3-chlorophenol	108-43-0	0.5	ND	ND		µg/L
4-chlorophenol	106-48-9	0.5	ND	ND		µg/L
2,3-dichlorophenol	576-24-9	0.5	ND	ND		µg/L
2,4-dichlorophenol	120-83-2	0.5	ND	ND		µg/L
2,5-dichlorophenol	583-78-8	0.5	ND	ND		µg/L
2,6-dichlorophenol	87-65-0	0.5	ND	ND		µg/L
3,4-dichlorophenol	95-77-2	0.5	ND	ND		µg/L
3,5-dichlorophenol	591-35-5	0.5	ND	ND		µg/L
2,3,4-trichlorophenol	15950-66-0	0.5	ND	ND		µg/L
2,3,5-trichlorophenol	933-78-8	0.5	ND	ND		µg/L
2,3,6-trichlorophenol	933-75-5	0.5	ND	ND		µg/L
2,4,5-trichlorophenol	95-95-4	0.5	ND	ND		µg/L
2,4,6-trichlorophenol	88-06-2	0.5	ND	ND		µg/L
3,4,5-trichlorophenol	609-19-8	0.5	ND	ND		µg/L
2,3,5,6-tetrachlorophenol	935-95-5	0.5	ND	ND		µg/L
2,3,4,6-tetrachlorophenol	58-90-2	0.5	ND	ND		µg/L
2,3,4,5-tetrachlorophenol	4901-51-3	0.5	ND	ND		µg/L
Pentachlorophenol (PCP)	87-86-5	0.5	ND	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 (Cat-I) I001	Untreated (Cat-IV) I002		
Dimethyl formamide; N,N-dimethylformamide (DMFa) ^a	68-12-2	1000	ND	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 (Cat-I) I001	Untreated (Cat-IV) I002		
Basic violet 3 with >0.1% of Michler's Ketone	548-62-9	500	ND	ND		µg/L
C.I. Acid Red 26	3761-53-3	500	ND	ND		µg/L
C.I. Acid Violet 49	1694-09-3	500	ND	ND		µg/L
C.I. Basic Blue 26 (with Michler's Ketone >0/1%)	2580-56-5	500	ND	ND		µg/L
C.I. Basic Green 4 (Malachite Green Chloride)	569-64-2	500	ND	ND		µg/L



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

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated (Cat-I) I001	Untreated (Cat-IV) I002		
C.I. Basic Green 4 (Malachite Green Oxalate)	2437-29-8	500	ND	ND		µg/L
C.I. Basic Green 4 (Malachite Green)	10309-95-2	500	ND	ND		µg/L
C.I. Basic Red 9	569-61-9	500	ND	ND		µg/L
C.I. Basic Violet 14	632-99-5	500	ND	ND		µg/L
C.I. Direct Black 38	1937-37-7	500	ND	ND		µg/L
C.I. Direct Blue 6	2602-46-2	500	ND	ND		µg/L
C.I. Direct Red 28	573-58-0	500	ND	ND		µg/L
C.I. Disperse Blue 1	2475-45-8	500	ND	ND		µg/L
C.I. Disperse Blue 3	2475-46-9	500	ND	ND		µg/L
Disperse Orange 11	82-28-0	500	ND	ND		µg/L

1H) Dyes - Disperse (Sensitising)

Liquid extraction, LC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated (Cat-I) I001	Untreated (Cat-IV) I002		
Disperse Blue 102	12222-97-8	50	ND	ND		µg/L
Disperse Blue 106	12223-01-7	50	ND	ND		µg/L
Disperse Blue 124	61951-51-7	50	ND	ND		µg/L
Disperse Blue 26	3860-63-7	50	ND	ND		µg/L
Disperse Blue 35 (CAS 12222-75-2)	12222-75-2	50	ND	ND		µg/L
Disperse Blue 35 (CAS 56524-77-7)	56524-77-7	50	ND	ND		µg/L
Disperse Blue 7	3179-90-6	50	ND	ND		µg/L
Disperse Brown 1	23355-64-8	50	ND	ND		µg/L
Disperse Orange 1	2581-69-3	50	ND	ND		µg/L
Disperse Orange 3	730-40-5	50	ND	ND		µg/L
Disperse Orange 37/59/76	13301-61-6	50	ND	ND		µg/L
Disperse Red 1	2872-52-8	50	ND	ND		µg/L
Disperse Red 11	2872-48-2	50	ND	ND		µg/L
Disperse Red 17	3179-89-3	50	ND	ND		µg/L
Disperse Yellow 1	119-15-3	50	ND	ND		µg/L
Disperse Yellow 3	2832-40-8	50	ND	ND		µg/L
Disperse Yellow 39	12236-29-2	50	ND	ND		µg/L
Disperse Yellow 49	54824-37-2	50	ND	ND		µg/L
Disperse Yellow 9	6373-73-5	50	ND	ND		µg/L



1I) Dyes - Navy Blue Colourant

Liquid extraction, LC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated (Cat-I) I001	Untreated (Cat-IV) I002		
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	500	ND	ND		µg/L
Component 2: C46H-30CrN10O20S2 3Na	Not allocated	500	ND	ND		µg/L

1J) Flame Retardants

USEPA 8270E, ISO 22032, USEPA 527 and USEPA 8321B Dichloromethane extraction GC-MS or LC-MS(-MS) and Determined as total boron via ICP

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated (Cat-I) I001	Untreated (Cat-IV) I002		
2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	ND	ND		µg/L
Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9	25	ND	ND		µg/L
Decabromophenyl ether (DecaBDE)	1163-19-5	25	ND	ND		µg/L
Hexabromocyclodecane (HBCDD)	3194-55-6	25	ND	ND		µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	ND	ND		µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	ND	ND		µg/L
Polybromobiphenyls (PBB)	59536-65-1	25	ND	ND		µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	25	ND	ND		µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	ND	ND		µg/L
Tris(1-aziridinyl)phosphone oxide (TEPA)	545-55-1	25	ND	ND		µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	ND	ND		µg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	ND	ND		µg/L
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25	ND	ND		µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	25	ND	ND		µg/L
Dibromobiphenyls (DiBB)	Multiple	25	ND	ND		µg/L
Octabromobiphenyls (OctaBB)	Multiple	25	ND	ND		µg/L
Dibromopropylether	21850-44-2	25	ND	ND		µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	ND	ND		µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	ND	ND		µg/L
Monobromobiphenyls (MonoBB)	Multiple	25	ND	ND		µg/L



1J) Flame Retardants (continued)

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated (Cat-I) I001	Untreated (Cat-IV) I002		
Monobromodiphenylethers (MonoBDEs)	Multiple	25	ND	ND		µg/L
Nonabromobiphenyls (NonaBB)	Multiple	25	ND	ND		µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	ND	ND		µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	ND	ND		µg/L
Tribromophenylethers (TriBDEs)	Multiple	25	ND	ND		µg/L
Boric acid ^b	10043-35-3, 11113-50-1	100	ND	ND		µg/L
Diboron trioxide ^b	1303-86-2	100	ND	ND		µg/L
Disodium octaborate ^b	12008-41-2	100	ND	ND		µg/L
Disodium tetraborate anhydrous ^b	1303-96-4, 1330-43-4	100	ND	ND		µg/L
Tetraboron disodium heptaoxide, hydrate ^b	12267-73-1	100	ND	ND		µg/L

1K) Glycols / Glycol Ethers

USEPA 8270E Liquid extraction, LC-MS GC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated (Cat-I) I001	Untreated (Cat-IV) I002		
2-ethoxyethanol	110-80-5	50	ND	ND		µg/L
2-ethoxyethyl acetate	111-15-9	50	ND	ND		µg/L
2-methoxyethanol	109-86-4	50	ND	ND		µg/L
2-methoxyethylacetate	110-49-6	50	ND	ND		µg/L
2-methoxypropylacetate	70657-70-4	50	ND	ND		µg/L
Bis(2-methoxyethyl)-ether	111-96-6	50	ND	ND		µg/L
Ethylene glycol dimethyl ether	110-71-4	50	ND	ND		µg/L
Triethylene glycol dimethyl ether	112-49-2	50	ND	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 (Cat-I) I001	Untreated (Cat-IV) I002		
1,2-dichloroethane	107-06-2	1	ND	ND		µg/L
Methylene chloride	75-09-2	1	ND	ND		µg/L
Tetrachloroethylene	127-18-4	1	ND	ND		µg/L
Trichloroethylene	79-01-6	1	ND	ND		µg/L



1M) Organotin Compounds

ISO 17353 Derivatisation with NaB (C₂H₅)₄ GC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated (Cat-I) I001	Untreated (Cat-IV) I002		
Dipropyltin compounds (DPT)	Multiple	0.01	ND	ND		µg/L
Mono, di-, and tri-butyltin derivatives	Multiple	0.01	ND	ND		µg/L
Mono, di-, and tri-methyltin derivatives	Multiple	0.01	ND	ND		µg/L
Mono, di-, and tri-octyltin derivatives	Multiple	0.01	ND	ND		µg/L
Mono, di-, and tri-phenyltin derivatives	Multiple	0.01	ND	ND		µg/L
Tetrabutyltin compounds (TeBT)	Multiple	0.01	ND	ND		µg/L
Tripropyltin compounds (TPT)	Multiple	0.01	ND	ND		µg/L
Tetraoctyltin compounds (TeOT)	Multiple	0.01	ND	ND		µg/L
Tricyclohexyltin (TCyHT)	Multiple	0.01	ND	ND		µg/L
Tetraethyltin compounds (TeET)	Multiple	0.01	ND	ND		µg/L

1N) Other / Miscellaneous Chemicals

Liquid extraction, LC-MSMS/ 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 (Cat-I) I001	Untreated (Cat-IV) I002		
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500	ND	ND		µg/L
Bisphenol A	80-05-7	10	ND	ND		µg/L
Thiourea	62-56-6	50	ND	ND		µg/L
Quinoline	91-22-5	50	ND	ND		µg/L
Borate (Borate, zinc salt ^c)	12767-90-7	100	ND	ND		µg/L
Zinc salt (Borate, zinc salt ^c)		100	ND	ND		µg/L
Silica (used in sand blasting) ^d	14464-46-1	-	NA	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 (Cat-I) I001	Untreated (Cat-IV) I002		
Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA)	Multiple	0.01	ND	ND		µg/L
Perfluorooctanoic acid (PFOA) related substances	Multiple	1	ND	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 (Cat-I) I001	Untreated (Cat-IV) I002		
1,2-benzenedicarboxylic acid, di-C6-8 branched and linear alkyl esters, C7-rich (DIHP)	71888-89-6, 84777-06-0	10	ND	ND		µg/L
1,2-benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP)	68515-42-4, 68515-50-4	10	ND	ND		µg/L
Bis(2-methoxyethyl)phthalate (DMEP)	117-82-8	10	ND	ND		µg/L
Butyl benzyl phthalate (BBP)	85-68-7	10	ND	ND		µg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	ND	ND		µg/L
Di-iso-decyl phthalate (DIDP)	26761-40-0	10	ND	ND		µg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	ND	ND		µg/L
Di-iso-butyl phthalate (DIBP)	84-69-5	10	ND	ND		µg/L
Di-iso-nonyl phthalate (DINP)	28553-12-0	10	ND	ND		µg/L
Di-n-hexyl phthalate (DnHP)	84-75-3	10	ND	ND		µg/L
Di-n-octyl phthalate (DNOP)	117-84-0	10	ND	ND		µg/L
Di-n-pentylphthalates	131-18-0	10	ND	ND		µg/L
Di-n-propyl phthalate (DPRP)	131-16-8	10	ND	ND		µg/L
Di(ethylhexyl) phthalate (DEHP)	117-81-7	10	ND	ND		µg/L
Dibutyl phthalate (DBP)	84-74-2	10	ND	ND		µg/L
Diethyl phthalate (DEP)	84-66-2	10	ND	ND		µg/L
Diisopentylphthalates	605-50-5	10	ND	ND		µg/L
Dinonyl phthalate (DNP)	84-76-4	10	ND	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 (Cat-I) I001	Untreated (Cat-IV) I002		
Acenaphthene	83-32-9	1	ND	ND		µg/L
Acenaphthylene	208-96-8	1	ND	ND		µg/L
Anthracene	120-12-7	1	ND	ND		µg/L
Benzo[a]anthracene	56-55-3	1	ND	ND		µg/L
Benzo[a]pyrene (BaP)	50-32-8	1	ND	ND		µg/L
Benzo[b]fluoranthene	205-99-2	1	ND	ND		µg/L
Benzo[e]pyrene	192-97-2	1	ND	ND		µg/L
Benzo[ghi]perylene	191-24-2	1	ND	ND		µg/L
Benzo[j]fluoranthene	205-82-3	1	ND	ND		µg/L
Benzo[k]fluoranthene	207-08-9	1	ND	ND		µg/L
Chrysene	218-01-9	1	ND	ND		µg/L
Dibenz[a,h]anthracene	53-70-3	1	ND	ND		µg/L



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

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated (Cat-I) I001	Untreated (Cat-IV) I002		
Fluoranthene	206-44-0	1	ND	ND		µg/L
Fluorene	86-73-7	1	ND	ND		µg/L
Indeno[1,2,3-cd]pyrene	193-39-5	1	ND	ND		µg/L
Naphthalene	91-20-3	1	ND	ND		µg/L
Phenanthrene	85-01-8	1	ND	ND		µg/L
Pyrene	129-00-0	1	ND	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/MS/MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated (Cat-I) I001	Untreated (Cat-IV) I002		
2-naphthylamine	91-59-8	0.1	ND	ND		µg/L
2-naphthylammoniumacetate	553-00-4	0.1	ND	ND		µg/L
2,4-xylidine	95-68-1	0.1	ND	ND		µg/L
2,4,5-trimethylaniline	137-17-7	0.1	ND	ND		µg/L
2,4,5-trimethylaniline hydrochloride	21436-97-5	0.1	ND	ND		µg/L
2,6-xylidine	87-62-7	0.1	ND	ND		µg/L
3,3'-dichlorobenzidine	91-94-1	0.1	ND	ND		µg/L
3,3-dimethoxybenzidine	119-90-4	0.1	ND	ND		µg/L
3,3-dimethylbenzidine	119-93-7	0.1	ND	ND		µg/L
4-aminoazobenzene	60-09-3	0.1	ND	ND		µg/L
4-aminodiphenyl	92-67-1	0.1	ND	ND		µg/L
4-chloro-o-toluidine	95-69-2	0.1	ND	ND		µg/L
4-chloro-o-toluidinium chloride	3165-93-3	0.1	ND	ND		µg/L
4-chloroaniline	106-47-8	0.1	ND	ND		µg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	0.1	ND	ND		µg/L
4-methoxy-m-phenylenediamine	615-05-4	0.1	ND	ND		µg/L
4-methyl-m-phenylenediamine	95-80-7	0.1	ND	ND		µg/L
4,4-methylene-bis-(2-chloro-aniline)	101-14-4	0.1	ND	ND		µg/L
4,4-methylenedi-o-toluidine	838-88-0	0.1	ND	ND		µg/L
4,4-methylenedianiline	101-77-9	0.1	ND	ND		µg/L
4,4-oxydianiline	101-80-4	0.1	ND	ND		µg/L
4,4-thiodianiline	139-65-1	0.1	ND	ND		µg/L
5-nitro-o-toluidine	99-55-8	0.1	ND	ND		µg/L
6-methoxy-m-toluidine	120-71-8	0.1	ND	ND		µg/L
Benzidine	92-87-5	0.1	ND	ND		µg/L
o-aminoazotoluene	97-56-3	0.1	ND	ND		µg/L
o-anisidine	90-04-0	0.1	ND	ND		µg/L
o-toluidine	95-53-4	0.1	ND	ND		µg/L



1S) UV Absorbers

USEPA 8270 ISO 22032, USEPA 527 and USEPA 8321B. Dichloromethane extraction GC-MS or LC-MS(-MS)

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated (Cat-I) I001	Untreated (Cat-IV) I002		
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	100	ND	ND		µg/L
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	100	ND	ND		µg/L
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	100	ND	ND		µg/L
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	100	ND	ND		µg/L

1T) Volatile Organic Compounds (VOC)

ISO 11423-1 Headspace or Purge and trap GC-MS USEPA 8260D Add ISO 20595 Static headspace for determination of VOC in wastewater/ ISO 11423-1 Headspace or Purge and trap GC-MS EPA 8270 BS EN 12673-1999/ HJ 1067 or EPA 8260D or ISO 11423-1

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated (Cat-I) I001	Untreated (Cat-IV) I002		
Benzene	71-43-2	1	ND	ND		µg/L
m-cresol	108-39-4	1	ND	ND		µg/L
o-cresol	95-48-7	1	ND	ND		µg/L
p-cresol	106-44-5	1	ND	ND		µg/L
Xylene	1330-20-7	1	ND	ND		µg/L
Toluene ^a	108-88-3	1	ND	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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Report Number

(6724)272-0586

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

Test Parameters	Reporting limit & LOQ	Limit				Local Legal Standard / Contractual agree with CETP Standard	Result of Test Items			Unit
		Foundational	Progressive	Aspirational	Untreated (Cat-I)		Untreated (Cat-IV)	Untreated (Cat-I)		
						I001	I002	I003		
Antimony	0.01	0.1	0.05	0.01	-	NR	NR	NR	mg/L	
Chromium (VI)	0.001	0.05	0.005	0.001	-	ND	NR	NR	mg/L	
Barium	1	Sample & Report			-	NR	NR	NR	mg/L	
Selenium	1	Sample & Report			-	NR	NR	NR	mg/L	
Tin	1	Sample & Report			-	NR	NR	NR	mg/L	
Arsenic	0.005	0.05	0.01	0.005	-	ND	NR	NR	mg/L	
Total Chromium	0.05	0.2	0.1	0.05	-	NR	NR	NR	mg/L	
Cobalt	0.01	0.05	0.02	0.01	-	NR	NR	NR	mg/L	
Cadmium	0.01	0.1	0.05	0.01	-	ND	NR	NR	mg/L	
Copper	0.25	1	0.5	0.25	-	NR	NR	NR	mg/L	
Lead	0.01	0.1	0.05	0.01	-	ND	NR	NR	mg/L	
Nickel	0.05	0.2	0.1	0.05	-	NR	NR	NR	mg/L	
Silver	0.005	0.1	0.050	0.005	-	NR	NR	NR	mg/L	
Zinc	0.5	5	1	0.5	-	NR	NR	NR	mg/L	
Mercury	0.001	0.01	0.005	0.001	-	ND	NR	NR	mg/L	



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	I003	
pH ^[f]	With reference to ISO 10523	-	6-9	6-9	6-9	-	NR		-
Temperature difference ^[f]	USEPA 170.1	-	15	10	5	-	NR		Δ °C
E.coli	-	126	126	126	126	-	NR		MPN/100-ml
Colour (436 nm)	ISO 7887 (Method A and B)	2	7	5	2	-	NR		m ⁻¹
Colour (525 nm)		1	5	3	1	-	NR		m ⁻¹
Colour (620 nm)		1	3	2	1	-	NR		m ⁻¹
Persistent Foam ^[f]	-	-	No indication of Persistent Foam			-	NA		-
Wastewater Flowrate ^[f]	-	-	-	-	-	-	NR		m ³ /day
Ammonium-Nitrogen	APHA 4500-NH ₃ -D / 23rdEdn,	0.5	10	1	0.5	-	NR		mg/L
AOX	ISO 9562	0.1	3	0.5	0.1	-	NR		mg/L
BOD ₅	APHA 5210B	8	30	15	8	-	NR		mg/L
COD	APHA 5220D	40	150	80	40	-	NR		mg/L
DO ^[f]	ISO 5814	-	Sample & Report	Sample & Report	Sample & Report	-	NR		mg/L
Oil & Grease	APHA 5520-B 23rd Edn, 2017	0.5	10	2	0.5	-	NR		mg/L
Total Phenols / Phenol Index	APHA 5530-C ,23rdEdn, 2017	0.001	0.5	0.01	0.001	-	NR		mg/L
Total Chlorine ^[f]	ISO 7393-2	0.1	Sample & Report	Sample & Report	Sample & Report	-	NR		mg/L
TDS	APHA 2540C	5	Sample & Report	Sample & Report	Sample & Report	-	NR		mg/L
Total Nitrogen	APHA 4500-Norg -C / 23rdEdn,	5	20	10	5	-	NR		mg/L
Total Phosphorus	APHA 4500 P-J / 23rdEdn, 2017	0.1	3	0.5	0.1	-	NR		mg/L
TSS	APHA 2540D	5	50	15	5	-	NR		mg/L



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Report Number

(6724)272-0586

Wastewater Test Result - ZDHC Conventional & Anions

Wastewater - ZDHC Anions									
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		
Chloride	IS 3025 Part-32: 1988	-	Sample & Report	Sample & Report	Sample & Report	-	NR		mg/L
Cyanide, total	APHA 4500 CN – E ,23rd Edn, 2017	0.05	0.2	0.1	0.05	-	NR		mg/L
Sulfate	IS 3025 Part-24: Sec-1: 2022	-	Sample & Report	Sample & Report	Sample & Report	-	NR		mg/L
Sulfide	APHA 4500-S2-D / 23ndEdn,	0.01	0.5	0.05	0.01	-	NR		mg/L
Sulfite	APHA 4500-SO32 D, 23rd Edn, 2017	0.2	2	0.5	0.2	-	NR		mg/L



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

Test Parameters	Sludge Reporting limit & LOQ	Total Metals and Anions Threshold Values	Limit		Result of Test Items			Unit
					Sludge			
					I004			
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			6.2			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			469			mg/kg
Chromium (VI)	20	50			ND			mg/kg
Mercury	1	1			ND			mg/kg

Sludge (Leachate) - Metals

With reference to EPA 1311 and HJ/T 300 for leachate

Test Parameters	Reporting limit & LOQ	Leachate Limit	Limit		Result of Test Items			Unit
					Leachate			
					I004			
Antimony	0.6	-			NA			mg/L
Arsenic	0.5	-			NA			mg/L
Barium	35	-			NA			mg/L
Cadmium	0.15	-			NA			mg/L
Cobalt	80	-			NA			mg/L
Copper	10	-			NA			mg/L
Lead	0.5	-			NA			mg/L
Nickel	3.5	-			NA			mg/L
Selenium	0.5	-			NA			mg/L
Silver	5	-			NA			mg/L
Total Chromium	5	-			NA			mg/L
Zinc	50	-			NA			mg/L
Chromium (VI)	2.5	-			NA			mg/L
Mercury	0.05	-			NA			mg/L



Sludge - Conventional

Test Parameters	Test Method	Reporting limit & LOQ	Limit		Result of Test Items			Unit
			Sludge Reporting Limit	Limits for specific disposal pathway	Sludge I004			
pH	USEPA SW 9045D	-	-	6 - 9	7.6			-
% Solids	USEPA 160.3	-	-	-	48			%
Fecal Coliform	USEPA 1681	-	-	-	160.9			MPN/g
Paint Filter Test	No Standard	-	-	-	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): ASTM D7742 or ISO 18857-2

Test Parameters	CAS Number	Limit		Result of Test Items			Unit
		Sludge Reporting Limit & LOQ	Limits for specific disposal pathway	Sludge I004			
NPEO	9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0	0.4	-	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

US EPA 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	Limits for specific disposal pathway	Sludge I004			
Chlorotoluenes	Multiple	0.2	-	ND			mg/kg



Sludge - Polycyclic Aromatic Hydrocarbons (PAHs)

USEPA 3540 + USEPA 3650 + USEPA 8270

Test Parameters	CAS Number	Limit		Result of Test Items			Unit
		Reporting Limit & LOQ	Sludge Reporting Limit & LOQ	Sludge			
Acenaphthene	83-32-9	0.2	-	I004			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

USEPA 9013 + USEPA 9014

Test Parameters	Limit			Result of Test Items			Unit
	Reporting Limit & LOQ	Sludge Reporting Limit & LOQ	Limits for specific disposal pathway	Sludge			
Cyanide	20		-	I004			mg/kg
				ND			



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Report Number

(6724)272-0586

Appendix A - Discharge limit according to regulation

Not Applicable

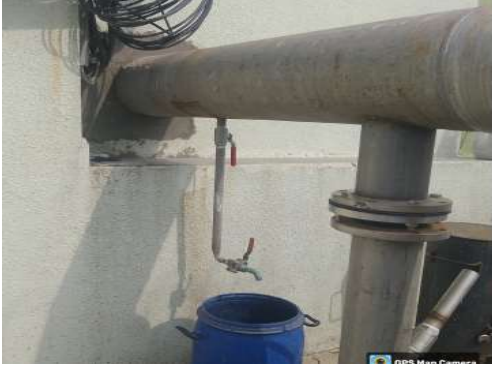


Appendix B - Photos of sampling points and samples (with relative time and date)

I001 - Untreated wastewater (Cat-I)

Sampling point

Date & time of photo (26/09/2024, 14:10)



Sampling point surrounding environment

Date & time of photo (26/09/2024, 14:11)



Labelled sample bottles

Date & time of photo (26/09/2024, 14:12)



Sample for phthalate test

Date & time of photo (26/09/2024, 14:12)



Sample packaging

Date & time of photo (26/09/2024, 16:24)





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

I002 - Untreated wastewater (Cat-IV)

Sampling point

Date & time of photo (26/09/2024, 14:30)



Sampling point surrounding environment

Date & time of photo (26/09/2024, 14:31)



Labelled sample bottles

Date & time of photo (26/09/2024, 14:32)



Sample for phthalate test

Date & time of photo (26/09/2024, 14:32)



Sample packaging

Date & time of photo (26/09/2024, 16:26)



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

1004 - Sludge (Cat-IV)

Sampling point

Date & time of photo (26/09/2024, 14:50)



Sampling point surrounding environment

Date & time of photo (26/09/2024, 14:51)



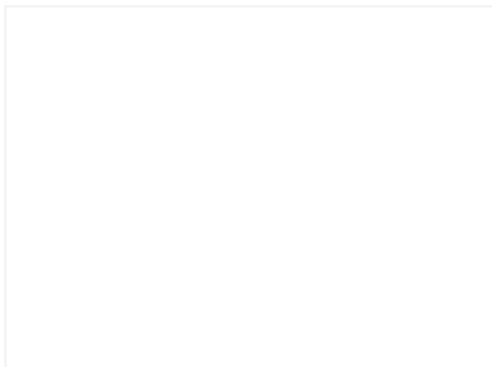
Labelled sample bottles

Date & time of photo (26/09/2024, 14:52)



Sample packaging

Date & time of photo (26/09/2024, 16:28)





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Report Number

(6724)272-0586

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

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

CPSD-AN-00613-DATA 04	
Issue Date:	
Version No.:	18
Business Line:	Analytical

(6724) - 2720506

Name and Address: MS. Jaha Anikadri Phone No: _____
Auro Textiles (A unit of Vardhman Textiles Ltd) Sui Road Baddi (HP)
 Identification: Zero discharge with sampling plan
 Sample Type: Composite Sample / Grab sample (Please delete as appropriate)
 Discharge mode: Direct discharge to environment (Specify destination: River, Sea, Stream...) OR indirect discharge to sewage treatment plant
 Date of collection: _____
 Factory Type: Dyeing / Printing / Washing / Finishing / Others (please specify): _____
 *Note: It would be selected more than one

Sampling Collection Information
 Sampling Location / Description: Category 1
 Sampling Device Description/ Owner: _____
 Sampling mode: Autosampler/ Manual

Sampler Information
 Sampler Name/ Email: Pankaj Sharma / pankaj2051930@gmail.com
 Sampler ZDHC Accredited no.: 34D10607597
 ZDHC Composite Sample Code: _____

Field Data for Wastewater

Arrival Time:	<u>1:20 pm</u>	Departure Time:	<u>4:30 pm</u>	<u>19.20 m³/h</u>
Field Parameters	pH: <u>7.06</u>	Temp: <u>30.5</u> °C	Color: <u>Black</u>	Flow rate: (volume/min)
Control No. of field equipment				
Factory with effluent treatment plant:	Yes		No	
Sample matrix:	Incoming water (if required)			
	<input checked="" type="checkbox"/> Wastewater before treatment			
	<input type="checkbox"/> Wastewater after treatment - water at discharge point			
Sampler container number				
ZDHC Wastewater Flow Device Dimensions				
Measurement (cm)	Meter	Pipe (O)	Flume (U)	Wier (V)
Diameter	NA			
Depth	NA	NA	NA	

ZDHC Wastewater Sampling Field Testing QA/QC

Parameter	Laboratory control sample (LCS) Known	LCS Measured	Accuracy %
pH			
Total Chlorine			

ZDHC Wastewater Sample Collection Field Test Measurements

Recording time	ID	Sampling Time (Hours)						Average (Report with lab data)
		0	1	2	3	4	5	
Temp (°C)	Wastewater Discharge	<u>30.5</u>						
	Receiving Water	<u>29.0</u>						
pH:		<u>7.06</u>						
Dissolved Oxygen (mg/L):								
Total Chlorine (mg/L):								
Persistent Foam (Yes/No):		<u>NO</u>						
Wastewater Flow meter (L/min):		<u>19.20</u>						
Alternate measured Flow	Depth (cm)							
	Velocity (cm/sec)							
Color (visual estimation):		<u>142</u>						
Volume collected, mL								
Total volume collected								

Remark: Total volume collected must be greater than total of sample size required



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Report Number

(6724)272-0586

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

	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)		CPSD-AN-00613-DATA 04
			Issue Date:
			Version No.: 18
			Business Line: Analytical

Analysis Required and Preservation Method				
Tests (ZDHC MRSL Parameters)	Test required (v)	Total of sample size	Preservation method (Store sample at 2-8°C)	
Combined test or Individual test (Remark 4)	1. Phthalate	✓	1000 mL total or 1000 mL each	
	2. Chlorobenzenes, Chlorotoluene & PAH	✓		
	3. SCCPs	✓		
	4. APS	✓		
5. APEOs	✓	100 mL	Amber Glass, washed with nitric acid, Without adding acid	
6. Chlorophenols & Cresols	✓	100 mL		
7. Flame retardant	✓	500 mL		
8. Dyes	✓	10 mL		
9. Glycol	✓	50 mL		
10. *Pesticides	✗	1000 mL		
11. *Nitrosamine	✗	10 mL		
12. Banned Azodyes	✓	2000 mL		
13. *Free primary aromatic amines	✓	500 mL		
14. Organotin Compounds	✓	500 mL		
15. UV absorbers	✓	100		
16. BPA	✓	2		
17. Preservatives	✓	52		
18. VOC & Halogenated Solvents (Remark 6)	✓	10 mL		Fill to full container without air gap; acidify to pH 2 with HCl
19. PFCs (Remark 6)	✓	2 mL		PE, washed with pesticide grade Acetone Without adding acid



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

	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	CPSD-AN-00613-DATA 04
		Issue Date:
		Version No.: 18
		Business Line: Analytical

General Data

Laboratory Sample Number: (6724) - 2720506

Client Name: _____

Field Contact Person: Ms. Ishu Agnihotri Phone No: _____

Project (Facility Name and Address): Auro textiles (A unit of Vandhman Textiles, Sai Road Badli (HP)

Sample Identification: Zero discharge with sampling plan

Sample Type: Composite Sample / Grab sample (Please delete as appropriate)

Discharge mode: Direct discharge to environment (Specify destination: River, Sea, Stream...) OR Indirect discharge to sewage treatment plant

Date of collection: _____

Factory Type: Dyeing / Printing / Washing / Finishing / Others (please specify): _____

*Note: It would be selected more than one

Sampling Collection Information

Sampling Location / Description: Category - 4

Sampling Device Description/ Owner: _____

Sampling mode: Autosampler/ Manual

Sampler Information

Sampler Name/ Email: Prakash Sharma / pandit2051998@gmail.com

Sampler ZDHC Accredited no.: _____

ZDHC Composite Sample Code: C24A06017599

Field Data for Wastewater

Arrival Time:	<u>1:20 PM</u>	Departure Time:	<u>4:30 PM</u>	<u>18.4 m³/h</u>
Field Parameters	pH: <u>7.37</u>	Temp: <u>20.0 °C</u>	Color: <u>Brown</u>	Flow rate: (volume/min)
Control No. of field equipment				
Factory with effluent treatment plant:	Yes		No	
Sample matrix:	Incoming water (if required)			
	<input checked="" type="checkbox"/> Wastewater before treatment			
	<input type="checkbox"/> Wastewater after treatment - water at discharge point			
Sampler container number				

ZDHC Wastewater Flow Device Dimensions				
Measurement (cm)	Meter	Pipe (O)	Flume (U)	Wier (V)
Diameter	NA			
Depth	NA	NA	NA	

ZDHC Wastewater Sampling Field Testing QA/QC			
Parameter	Laboratory control sample (LCS) Known	LCS Measured	Accuracy %
pH			
Total Chlorine			

ZDHC Wastewater Sample Collection Field Test Measurements									
Recording time	ID	0	1	2	3	4	5	6	Average (Report with lab data)
		Temp (°C):	Time: <u>2:30</u>						
	Wastewater Discharge	<u>20.0</u>							
	Receiving Water	<u>25.0</u>							
	pH:	<u>7.37</u>							
	Dissolved Oxygen (mg/L):								
	Total Chlorine (mg/L):								
	Persistent Foam (Yes/ No):	<u>NO</u>							
	Wastewater Flow meter (L/m ³):	<u>18.4</u>							
Alternate measured Flow	Depth (cm)								
	Velocity (cm/sec)								
	Color (visual estimation):	<u>Brown</u>							
	Volume collected, mL	<u>141</u>							
	Total volume collected								

Remark: Total volume collected must be greater than total of sample size required



**BUREAU
VERITAS**

Report Number

(6724)272-0586

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

FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	CPSD-AN-00613-DATA 04 Issue Date: _____ Version No.: 18 Business Line: Analytical
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Tests (ZDHC MRSL Parameters)		Test required (v)	Total of sample size	Type of container	Preservation method (Store sample at 2-8°C)	
Combined test or Individual test (Remark 4)	1. Phthalate	✓	1000 mL total or 1000 mL each	Amber Glass, washed with nitric acid,	Without adding acid	
	2. Chlorobenzenes, Chlorotoluene & PAH	✓				
	3. SCCPs	✓				
	4. APS	✓				
5. APEOs	✓	100 mL				
6. Chlorophenols & Cresols	✓	100 mL				
7. Flame retardant	✓	500 mL				
8. Dyes	✓	10 mL				
9. Glycol	✓	50 mL				
10. *Pesticides	✓	1000 mL				
11. *Nitrosamine	✓	10 mL				
12. Banned Azodyes	✓	2000 mL				
13. *Free primary aromatic amines	✓	500 mL				
14. Organotin Compounds	✓	500 mL				
15. UV absorbers	✓	100				
16. BPA	✓	2				
17. Preservatives	✓	52				
18. VOC & Halogenated Solvents (Remark 6)	✓	10 mL				Fill to full container without air gap; acidify to pH 2 with HCl
19. PFCs (Remark 6)	✓	2 mL	PE, washed with pesticide grade Acetone			Without adding acid



**BUREAU
VERITAS**

Report Number

(6724)272-0586

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

	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)		CPSD-AN-00613-DATA 04
	Issue Date:		
	Version No.: 18		
	Business Line: Analytical		

Field Data for Sludge

Arrival Time:	1:20 PM	Departure Time:	4:30 PM
Field Parameters	pH: 7.60	Temp: 30.1 °C	Flow rate (volume/time) / sludge flux (weight/time):
Control No. of field equipment			
Sampling Time (Hours)	0	1	2
Recording time	ID		
	Time	2:50	
pH:	7.60		
Temp (°C):	30.1		
Flow rate (volume/time) / sludge flux (weight/time)			
Volume collected, mL	610		
Total volume collected	Remark: Total volume collected must be greater than total of sample size required		

Analysis Required and Preservation Method

Factory with effluent treatment plant		Yes	No	
Sample matrix		Sludge in clarifier (sedimentation tank)		
Sampler container number				
Recording time				
Tests (MRSL Parameter)	Test required (v)	Total of sample size	Preservation method (Store sample at 2-8°C)	
Combined test or Individual test (Remark 3) 1. Phthalate 2. Chlorobenzenes, Chlorotoluene & PAHs 3. SCCPs 4. APS	<input checked="" type="checkbox"/>	10g total or 10g each	Amber Glass, washed with nitric acid Add 0.2 mL of 10% Na ₂ S ₂ O ₅ (0.008% WV) Acidify to -pH 2 with H ₂ SO ₄ . Add 0.02 mL of 10% Na ₂ S ₂ O ₅ (0.008% WV) Fill to full container without any air gap and acid add Fill to full bottle without any air gap. Acidify to -pH 2 with HCl Add 0.02 mL of 10% Na ₂ S ₂ O ₅ (0.008% WV)	
	5. APEOs	<input checked="" type="checkbox"/>		20 g
	6. Flame retardant			10 g
	7. Dyes			10 g
8. Glycols		100 g		
9. Pesticides		20g		
10. Banned Azodyes		20 g		
11. *Free primary aromatic amines		10 g		
12. Chlorophenols & Cresols		20 g		
13. Organotin Compounds		10 g		
14. VOC & Halogenated Solvents (Remark 5)		10 g		
15. PFCs (Remark 5)		10 g		PE, wash with pesticide grade acetone

Tests (Conventional Parameters)	Test required (v)	Total of sample size	Type of container	Preservation method (Store sample at 2-8°C)
16. Heavy Metals except Cr(VI) (Remark 5)	<input checked="" type="checkbox"/>	0.2 g	PE, wash with nitric acid	Acidify to -pH 2 with HNO ₃
17. Cr(VI)	<input checked="" type="checkbox"/>	2.5 g	Amber Glass, wash with nitric acid	Fill to full container without any air gap and acid add
18. Adsorbable organically bound halogens (AOX)		1 g		
19. Extractable organochlorides (EOX)		20 g		
20. Total organic carbon (TOC)		20 g		
21. Cyanide	<input checked="" type="checkbox"/>	50 g	Amber Glass, wash with pesticide grade acetone	Adjust pH to 12-13 with 50% NaOH
22. Faecal Coliform	<input checked="" type="checkbox"/>	20 g	PE, clean, sterile, non-reactive	Add 0.1 ml of 10% Na ₂ S ₂ O ₃ , keep in dark
23. % Solids	<input checked="" type="checkbox"/>	20 g	Amber Glass, wash with nitric acid	Acidify to -pH 2 with HNO ₃
24. Paint Filter Test	<input checked="" type="checkbox"/>	20 g		
25. Others				

END OF REPORT