



Factory Company Name:	AURO TEXTILES			Test Report:	(6723)079-0199
Factory Address:	INDUSTRIAL AREA , SAI ROAD , BADDI, HIMACHAL PRADESH, 173205, INDIA			Report Date:	March 29, 2023
Sampling Method & Description:	1001) Untreated wastewater (AT-I Processing)	Composite	Dark Purple color liquid		
	1002) Untreated wastewater (AT-II Printing)	Composite	Dark Blue color liquid		
	1003) Untreated wastewater (Yarn Dyeing)	Composite	Dark Maroon color liquid		
	1004) Untreated wastewater (Cat-IV)	Composite	Black color liquid		
	1005) Sludge (Concentrate)	Composite	Brown Solid		
Discharge Type:	<b>Indirect Discharge without Pretreatment (AT-I Processing, AT-II Printing &amp; Yarn Dyeing) &amp; Zero Liquid Discharge (Cat-IV)</b>				
On-site ETP / Pretreatment:	Yes				
Discharge Destination:	CETP (AT-I Processing, AT-II Printing & Yarn Dyeing) & ZLD (Cat-IV)				
Permit Validation Date:	Not applicable				
Conventional, Anions & Heavy Metals Overall Category:	Not applicable	ZDHC MRSL Parameters:	Not detected		
Sludge Parameters:	Meet ZDHC Threshold Value				
Sample Pick Up Date:	March 18, 2023	Sampler Certification Number:	C74D106817727		
Test Period:	March 20, 2023 to March 29, 2023				
Parameter(s) exceeded maximum holding time:	Not applicable				

**Remark**

The results of this report shall not be used for any regulatory compliance purposes.

Type of Process:	<b>Textile</b>	Average total industrial wastewater generated:	<b>Equal or more than 15m<sup>3</sup>/day</b>
Sludge Disposal Pathway:	Disposal Pathway B		
Type of Sludge:	Brown Solid		

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Report reviewed by:

Shubham Goyal, Sustainability Coordinator

Report approved by:

Sumanta Kumar Swain, Manager

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**Result Summary - ZDHC MRSL Wastewater Parameters**

Test Items	Untreated wastewater (AT-I Processing)	Untreated wastewater (AT-II Printina)	Untreated wastewater (Yarn Dyeina)	Untreated wastewater (Cat-IV)
1A) AP and APEOs	ND	ND	ND	ND
1B) Anti-Microbials & Biocides	ND	ND	ND	ND
1C) Chlorinated Parafins	ND	ND	ND	ND
1D) Chlorobenzenes and Chlorotoluenes	ND	ND	ND	ND
1E) Chlorophenols	ND	ND	ND	ND
1F) DMFa	NR	NR	NR	NR
1G) Dyes - Carcinogenic or Equivalent Concern	ND	ND	ND	ND
1H) Dyes - Disperse (Sensitising)	ND	ND	ND	ND
1I) Dyes - Navy Blue Colourant	ND	ND	ND	ND
1J) Flame Retardants	ND	ND	ND	ND
1K) Glycols / Glycol Ethers	ND	ND	ND	ND
1L) Halogenated Solvents	ND	ND	ND	ND
1M) Organotin Compounds	ND	ND	ND	ND
1N) Other / Miscellaneous Chemicals	ND	ND	ND	ND
1O) PFCs	ND	ND	ND	ND
1P) Phthalates	ND	ND	ND	ND
1Q) PAHs	ND	ND	ND	ND
1R) Restricted Aromatic Amines	ND	ND	ND	ND
1S) UV Absorbers	ND	ND	ND	ND
1T) VOC	ND	ND	ND	ND



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**Result Summary - ZDHC Heavy Metals, Conventional and Anions Wastewater Parameters**

Test Items	Untreated wastewater (AT-I Processing)	Untreated wastewater (AT-II Printing)	Untreated wastewater (Yarn Dyeing)	Untreated wastewater (Cat-IV)
Antimony	NR	NR	NR	NR
Chromium (VI)	ND	ND	ND	
Barium	NR	NR	NR	
Selenium	NR	NR	NR	
Tin	NR	NR	NR	
Arsenic	ND	ND	ND	
Total Chromium	NR	NR	NR	
Cobalt	NR	NR	NR	
Cadmium	ND	ND	ND	
Copper	NR	NR	NR	
Lead	ND	ND	ND	
Nickel	NR	NR	NR	
Silver	NR	NR	NR	
Zinc	NR	NR	NR	
Mercury	ND	ND	ND	
pH	NR	NR	NR	
Temperature difference				
E.coli				
Colour				
Persistent Foam				
Wastewater Flowrate				
Ammonium-Nitrogen				
AOX				
BOD <sub>5</sub>				
COD				
DO				
Oil & Grease				
Total Phenols / Phenol Index				
Total Chlorine				
TDS				
Total Nitrogen				
Total Phosphorus				
TSS				
Chloride				
Cyanide, total				
Sulfate				
Sulfide				
Sulfite				



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**Result Summary - ZDHC Sludge Parameters**

Test Items	Sludge (Cat-IV)	Leachate
Antimony	ND	NR
Arsenic	ND	NR
Barium	ND	NR
Cadmium	ND	NR
Cobalt	ND	NR
Copper	Refer to result	NR
Lead	Refer to result	NR
Nickel	ND	NR
Selenium	ND	NR
Silver	ND	NR
Total Chromium	Refer to result	NR
Zinc	ND	NR
Chromium (VI)	ND	NR
Mercury	ND	NR
Cyanide	ND	NR
pH	Refer to result	
% Solids	Refer to result	
Paint Filter Test	Refer to result	
Fecal Coliform	Refer to result	
AP and APEOs	ND	
PAHs	ND	
Chlorotoluenes	ND	

## Note / Key:

Meet	=	Meet Foundational Limit / Meet Discharge Permit
<b>Not Meet</b>	=	Exceed Foundational Limit / Exceed Discharge Permit
NR	=	Not requested / Not required
NA	=	Not applicable
<b>D</b>	=	Detected
ND	=	Not detected
Refer to result	=	Legal parameter(s) and/or parameter(s) requested by factory, please refer to test result



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**Test Result - ZDHC MRSL Parameters**

Test Parameters	Results of Test Items					Requirements [Textile]		
	I001	I002	I003	I004	I005	Wastewater	Sludge	Leachate <sup>#</sup>
	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/kg)	(µg/L)	(mg/kg)	(mg/L)
<b>1A) AP and APEOs: including all isomers</b>								
NPEO	ND	ND	ND	ND	ND	5	0.4 <sup>e</sup>	Please refer to leachate limits in the ZDHC Wastewater Guidelines
NP, mixed isomers	ND	ND	ND	ND	ND			
OPEO	ND	ND	ND	ND	ND			
OP, mixed isomers	ND	ND	ND	ND	ND			
<b>1B) Anti-Microbials &amp; Biocides</b>								
o-Phenylphenol (+salts)	ND	ND	ND	ND	NR	100	-	-
Triclosan	ND	ND	ND	ND		500	-	-
Permethrin	ND	ND	ND	ND				
<b>1C) Chlorinated Parafins</b>								
MCCPs (C14-C17)	ND	ND	ND	ND	NR	500	-	-
SCCPs (C10-C13)	ND	ND	ND	ND		25	-	-
<b>1D) Chlorobenzenes and Chlorotoluenes</b>								
1,2-dichlorobenzene	ND	ND	ND	ND	NR	0.2	-	-
Other isomers of mono-, di-, tri-, tetra-, penta- and hexa- chlorobenzene	ND	ND	ND	ND				
Other isomers of mono-, di-, tri-, tetra- and penta- chlorotoluene	ND	ND	ND	ND				
<b>1E) Chlorophenols</b>								
2-chlorophenol	ND	ND	ND	ND	NR	0.5	-	-
3-chlorophenol	ND	ND	ND	ND				
4-chlorophenol	ND	ND	ND	ND				
2,3-dichlorophenol	ND	ND	ND	ND				
2,4-dichlorophenol	ND	ND	ND	ND				
2,5-dichlorophenol	ND	ND	ND	ND				
2,6-dichlorophenol	ND	ND	ND	ND				
3,4-dichlorophenol	ND	ND	ND	ND				
3,5-dichlorophenol	ND	ND	ND	ND				
2,3,4-trichlorophenol	ND	ND	ND	ND				
2,3,5-trichlorophenol	ND	ND	ND	ND				
2,3,6-trichlorophenol	ND	ND	ND	ND				
2,4,5-trichlorophenol	ND	ND	ND	ND				
2,4,6-trichlorophenol	ND	ND	ND	ND				
3,4,5-trichlorophenol	ND	ND	ND	ND				
2,3,5,6-tetrachlorophenol	ND	ND	ND	ND				
2,3,4,6-tetrachlorophenol	ND	ND	ND	ND				
2,3,4,5-tetrachlorophenol	ND	ND	ND	ND				
Pentachlorophenol (PCP)	ND	ND	ND	ND				
<b>1F) N,N-di-methylformamide (DMFa)</b>								
Dimethyl formamide; N,N-dimethylformamide (DMFa) <sup>a</sup>	NR	NR	NR	NR	NR	1000	-	-

a = Report only for mock leather

e = Sludge parameter limit refers Table 4C and 4D in the ZDHC Wastewater Guidelines.



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**Test Result - ZDHC MRLS Parameters (continued)**

Test Parameters	Results of Test Items					Requirements [Textile]		
	I001 (µg/L)	I002 (µg/L)	I003 (µg/L)	I004 (mg/L)	I005 (mg/kg)	Wastewater (µg/L)	Sludg (mg/kg)	Leachate <sup>#</sup> (mg/L)
<b>1G) Dyes - Carcinogenic or Equivalent Concern</b>								
Basic violet 3 with >0.1% of Michler's Ketone	ND	ND	ND	ND	NR	500	-	-
C.I. Acid Red 26	ND	ND	ND	ND				
C.I. Acid Violet 49	ND	ND	ND	ND				
C.I. Basic Blue 26 (with Michler's Ketone >0/1%)	ND	ND	ND	ND				
C.I. Basic Green 4 (Malachite Green Chloride)	ND	ND	ND	ND				
C.I. Basic Green 4 (Malachite Green Oxalate)	ND	ND	ND	ND				
C.I. Basic Green 4 (Malachite Green)	ND	ND	ND	ND				
C.I. Basic Red 9	ND	ND	ND	ND				
C.I. Basic Violet 14	ND	ND	ND	ND				
C.I. Direct Black 38	ND	ND	ND	ND				
C.I. Direct Blue 6	ND	ND	ND	ND				
C.I. Direct Red 28	ND	ND	ND	ND				
C.I. Disperse Blue 1	ND	ND	ND	ND				
C.I. Disperse Blue 3	ND	ND	ND	ND				
Disperse Orange 11	ND	ND	ND	ND				
<b>1H) Dyes - Disperse (Allergenic)</b>								
Disperse Blue 102	ND	ND	ND	ND	NR	50	-	-
Disperse Blue 106	ND	ND	ND	ND				
Disperse Blue 124	ND	ND	ND	ND				
Disperse Blue 26	ND	ND	ND	ND				
Disperse Blue 35 (CAS 12222-75-2)	ND	ND	ND	ND				
Disperse Blue 35 (CAS 56524-77-7)	ND	ND	ND	ND				
Disperse Blue 7	ND	ND	ND	ND				
Disperse Brown 1	ND	ND	ND	ND				
Disperse Orange 1	ND	ND	ND	ND				
Disperse Orange 3	ND	ND	ND	ND				
Disperse Orange 37/59/76	ND	ND	ND	ND				
Disperse Red 1	ND	ND	ND	ND				
Disperse Red 11	ND	ND	ND	ND				
Disperse Red 17	ND	ND	ND	ND				
Disperse Yellow 1	ND	ND	ND	ND				
Disperse Yellow 3	ND	ND	ND	ND				
Disperse Yellow 39	ND	ND	ND	ND				
Disperse Yellow 49	ND	ND	ND	ND				
Disperse Yellow 9	ND	ND	ND	ND				
<b>1I) Dyes - Navy Blue Colourant</b>								
Component 1: C39H23Cl-CrN7O12S 2Na	ND	ND	ND	ND	NR	500	-	-
Component 2: C46H-30CrN10O20S2 3Na	ND	ND	ND	ND				



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**Test Result - ZDHC MRSL Parameters (continued)**

Test Parameters	Results of Test Items					Requirements [Textile]		
	I001	I002	I003	I004	I005	Wastewater	Sludge	Leachate <sup>#</sup>
	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/kg)	(µg/L)	(mg/kg)	(mg/L)
<b>1J) Flame Retardants</b>								
2,2-bis(bromomethyl)-1,3-propanediol (BBMF)	ND	ND	ND	ND	NR	25	-	-
Di(2,3-dibromopropyl) phosphate (BIS)	ND	ND	ND	ND				
Decabromophenyl ether (DecaBDE)	ND	ND	ND	ND				
Hexabromocyclodecane (HBCDD)	ND	ND	ND	ND				
Octabromodiphenyl ether (OctaBDE)	ND	ND	ND	ND				
Pentabromodiphenyl ether (PentaBDE)	ND	ND	ND	ND				
Polybromobiphenyls (PBB)	ND	ND	ND	ND				
Tetrabromobisphenol A (TBBPA)	ND	ND	ND	ND				
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	ND	ND	ND	ND				
Tris(1-aziridinyl)phosphone oxide (TEPA)	ND	ND	ND	ND				
Tris(1,3-dichloro-isopropyl) phosphate (TDCIP)	ND	ND	ND	ND				
Tris(2-chloroethyl) phosphate (TCEP)	ND	ND	ND	ND				
Tris(2,3-dibromopropyl) phosphate (TRIS)	ND	ND	ND	ND				
Decabromobiphenyl (DecaBB)	ND	ND	ND	ND				
Dibromobiphenyls (DiBB)	ND	ND	ND	ND				
Octabromobiphenyls (OctaBB)	ND	ND	ND	ND				
Dibromopropylether	ND	ND	ND	ND				
Heptabromodiphenyl ether (HeptaBDE)	ND	ND	ND	ND				
Hexabromodiphenyl ether (HexaBDE)	ND	ND	ND	ND				
Monobromobiphenyls (MonoBB)	ND	ND	ND	ND				
Monobromodiphenylethers (MonoBDEs)	ND	ND	ND	ND				
Nonabromobiphenyls (NonaBB)	ND	ND	ND	ND				
Nonabromodiphenyl ether (NonaBDE)	ND	ND	ND	ND				
Tetrabromodiphenyl ether (TetraBDE)	ND	ND	ND	ND				
Tribromophenylethers (TriBDEs)	ND	ND	ND	ND				
Boric acid <sup>b</sup>	ND	ND	ND	ND		100		
Diboron trioxide <sup>b</sup>	ND	ND	ND	ND				
Disodium octaborate <sup>b</sup>	ND	ND	ND	ND				
Disodium tetraborate anhydrous <sup>b</sup>	ND	ND	ND	ND				
Tetraboron disodium heptaoxide, hydrate <sup>b</sup>	ND	ND	ND	ND				
<b>1K) Glycols / Glycol Ethers</b>								
2-ethoxyethanol	ND	ND	ND	ND	NR	50	-	-
2-ethoxyethyl acetate	ND	ND	ND	ND				
2-methoxyethanol	ND	ND	ND	ND				
2-methoxyethylacetate	ND	ND	ND	ND				
2-methoxypropylacetate	ND	ND	ND	ND				
Bis(2-methoxyethyl)-ether	ND	ND	ND	ND				
Ethylene glycol dimethyl ether	ND	ND	ND	ND				
Triethylene glycol dimethyl ether	ND	ND	ND	ND				
<b>1L) Halogenated Solvents</b>								
1,2-dichloroethane	ND	ND	ND	ND	NR	1	-	-
Methylene chloride	ND	ND	ND	ND				
Tetrachloroethylene	ND	ND	ND	ND				
Trichloroethylene	ND	ND	ND	ND				

b = Limit refers to elemental boron, not the salt.



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**Test Result - ZDHC MRSL Parameters (continued)**

Test Parameters	Results of Test Items					Requirements [Textile]		
	I001	I002	I003	I004	I005	Wastewater	Sludge	Leachate <sup>#</sup>
	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/kg)	(µg/L)	(mg/kg)	(mg/L)
<b>1M) Organotin Compounds</b>								
Dipropyltin compounds (DPT)	ND	ND	ND	ND	NR	0.01	-	-
Mono, di-, and tri-butyltin derivatives	ND	ND	ND	ND				
Mono, di-, and tri-methyltin derivatives	ND	ND	ND	ND				
Mono, di-, and tri-octyltin derivatives	ND	ND	ND	ND				
Mono, di-, and tri-phenyltin derivatives	ND	ND	ND	ND				
Tetrabutyltin compounds (TeBT)	ND	ND	ND	ND				
Tripropyltin compounds (TPT)	ND	ND	ND	ND				
Tetraoctyltin compounds (TeOT)	ND	ND	ND	ND				
Tricyclohexyltin (TCyHT)	ND	ND	ND	ND				
Tetraethyltin compounds (TeET)	ND	ND	ND	ND				
<b>1N) Other / Miscellaneous Chemicals</b>								
AEEA [2-(2-aminoethylamino)ethanol]	ND	ND	ND	ND	NR	500	-	-
Bisphenol A	ND	ND	ND	ND		10		
Thiourea	ND	ND	ND	ND		50		
Quinoline	ND	ND	ND	ND		100		
Borate, zinc salt <sup>c</sup>	ND	ND	ND	ND		100		
Silica (used in sand blasting) <sup>d</sup>	NR	NR	NR	NR	Not a ZDHC wastewater p			
<b>1O) Perfluorinated and Polyfluorinated Chemicals (PFCs)</b>								
Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PEOA)	ND	ND	ND	ND	NR	0.01	-	-
Perfluorooctanoic acid (PFOA) related substances	ND	ND	ND	ND		1		
<b>1P) Phthalates - including all other esters of ortho-phthalic acid</b>								
1,2-benzenedicarboxylic acid, di-C6-8 branched and linear alkyl esters, C7-rich (DHP)	ND	ND	ND	ND	NR	10	-	-
1,2-benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNP)	ND	ND	ND	ND				
Bis(2-methoxyethyl)phthalate (DMEP)	ND	ND	ND	ND				
Butyl benzyl phthalate (BBP)	ND	ND	ND	ND				
Di-cyclohexyl phthalate (DCHP)	ND	ND	ND	ND				
Di-iso-decyl phthalate (DIDP)	ND	ND	ND	ND				
Di-iso-octyl phthalate (DIOP)	ND	ND	ND	ND				
Di-iso-butyl phthalate (DIBP)	ND	ND	ND	ND				
Di-iso-nonyl phthalate (DINP)	ND	ND	ND	ND				
Di-n-hexyl phthalate (DnHP)	ND	ND	ND	ND				
Di-n-octyl phthalate (DNOP)	ND	ND	ND	ND				
Di-n-pentylphthalates	ND	ND	ND	ND				
Di-n-propyl phthalate (DPRP)	ND	ND	ND	ND				
Di(ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND				
Dibutyl phthalate (DBP)	ND	ND	ND	ND				
Diethyl phthalate (DEP)	ND	ND	ND	ND				
Diisopentylphthalates	ND	ND	ND	ND				
Dinonyl phthalate (DNP)	ND	ND	ND	ND				

c = Limit refers to elemental boron and/or zinc, not the salt.

d = Not a ZDHC wastewater parameter, and not required to test this parameter as this is related to sand blasting





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**Test Result - ZDHC MRSL Parameters (continued)**

Test Parameters	Results of Test Items					Requirements [Textile]		
	I001	I002	I003	I004	I005	Wastewater	Sludge	Leachate <sup>#</sup>
	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/kg)	(µg/L)	(mg/kg)	(mg/L)
<b>1Q) Polycyclic Aromatic Hydrocarbons (PAHs)</b>								
Acenaphthene	ND	ND	ND	ND	ND	1	0.2 <sup>e</sup>	Please refer to leachate limits in the ZDHC Wastewater Guidelines
Acenaphthylene	ND	ND	ND	ND	ND			
Anthracene	ND	ND	ND	ND	ND			
Benzo[a]anthracene	ND	ND	ND	ND	ND			
Benzo[a]pyrene (BaP)	ND	ND	ND	ND	ND			
Benzo[b]fluoranthene	ND	ND	ND	ND	ND			
Benzo[e]pyrene	ND	ND	ND	ND	ND			
Benzo[ghi]perylene	ND	ND	ND	ND	ND			
Benzo[j]fluoranthene	ND	ND	ND	ND	ND			
Benzo[k]fluoranthene	ND	ND	ND	ND	ND			
Chrysene	ND	ND	ND	ND	ND			
Dibenz[a,h]anthracene	ND	ND	ND	ND	ND			
Fluoranthene	ND	ND	ND	ND	ND			
Fluorene	ND	ND	ND	ND	ND			
Indeno[1,2,3-cd]pyrene	ND	ND	ND	ND	ND			
Naphthalene	ND	ND	ND	ND	ND			
Phenanthrene	ND	ND	ND	ND	ND			
Pyrene	ND	ND	ND	ND	ND			
<b>1R) Restricted Aromatic Amines (Cleavable from Azo-colourants)</b>								
2-naphthylamine	ND	ND	ND	ND	NR	0.1	-	-
2-naphthylammoniumacetate	ND	ND	ND	ND				
2,4-xylidine	ND	ND	ND	ND				
2,4,5-trimethylaniline	ND	ND	ND	ND				
2,4,5-trimethylaniline hydrochloride	ND	ND	ND	ND				
2,6-xylidine	ND	ND	ND	ND				
3,3'-dichlorobenzidine	ND	ND	ND	ND				
3,3-dimethoxybenzidine	ND	ND	ND	ND				
3,3-dimethylbenzidine	ND	ND	ND	ND				
4-aminoazobenzene	ND	ND	ND	ND				
4-aminodiphenyl	ND	ND	ND	ND				
4-chloro-o-toluidine	ND	ND	ND	ND				
4-chloro-o-toluidinium chloride	ND	ND	ND	ND				
4-chloroaniline	ND	ND	ND	ND				
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	ND	ND	ND	ND				
4-methoxy-m-phenylenediamine	ND	ND	ND	ND				
4-methyl-m-phenylenediamine	ND	ND	ND	ND				
4,4-methylene-bis-(2-chloro-aniline)	ND	ND	ND	ND				
4,4-methylenedi-o-toluidine	ND	ND	ND	ND				
4,4-methylenedianiline	ND	ND	ND	ND				
4,4-oxydianiline	ND	ND	ND	ND				
4,4-thiodianiline	ND	ND	ND	ND				
5-nitro-o-toluidine	ND	ND	ND	ND				
6-methoxy-m-toluidine	ND	ND	ND	ND				
Benzidine	ND	ND	ND	ND				
o-aminoazotoluene	ND	ND	ND	ND				
o-anisidine	ND	ND	ND	ND				
o-toluidine	ND	ND	ND	ND				

e = Sludge parameter limit refers Table 4C and 4D in the ZDHC Wastewater Guidelines.



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**Test Result - ZDHC MRSL Parameters (continued)**

Test Parameters	Results of Test Items					Requirements [Textile]		
	I001	I002	I003	I004	I005	Wastewater	Sludge	Leachate <sup>#</sup>
	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/kg)	(µg/L)	(mg/kg)	(mg/L)
<b>1S) UV Absorbers</b>								
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	ND	ND	ND	ND	NR	100	-	-
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	ND	ND	ND	ND				
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	ND	ND	ND	ND				
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	ND	ND	ND	ND				
<b>1T) Volatile Organic Compounds (VOC)</b>								
Benzene	ND	ND	ND	ND	NR	1	-	-
m-cresol	ND	ND	ND	ND				
o-cresol	ND	ND	ND	ND				
p-cresol	ND	ND	ND	ND				
Xylene	ND	ND	ND	ND				
Toluene <sup>a</sup>	ND	ND	ND	ND				

a = Report only for mock leather



Test Report: (6723)079-0199

Report Date: March 29, 2023

**Test Result - ZDHC Heavy Metals Parameters**

Test Parameters	Unit			Results of Test Items				Requirements [Textile]				
	Wastewater	Sludge	Leachate	I001	I002	I003	I005	Wastewater			Sludge	
								Foundational	Progressive	Aspirational	Sludge Threshold Values	Leachate Limit#
<b>ZDHC Heavy Metals</b>												
Antimony	mg/L	mg/kg	mg/L	NR	NR	NR	ND	0.1	0.05	0.01	12	Please refer to leachate limits in the ZDHC Wastewater Guidelines
Chromium (VI)	mg/L	mg/kg	mg/L	ND	ND	ND	ND	0.05	0.005	0.001	50	
Barium	mg/L	mg/kg	mg/L	NR	NR	NR	ND	Sample & Report			700	
Selenium	mg/L	mg/kg	mg/L	NR	NR	NR	ND	Sample & Report			10	
Tin	mg/L	-	-	NR	NR	NR	ND	Sample & Report			-	
Arsenic	mg/L	mg/kg	mg/L	ND	ND	ND	ND	0.05	0.01	0.005	10	
Total Chromium	mg/L	mg/kg	mg/L	NR	NR	NR	53	0.2	0.1	0.05	100	
Cobalt	mg/L	mg/kg	mg/L	NR	NR	NR	ND	0.05	0.02	0.01	1600	
Cadmium	mg/L	mg/kg	mg/L	ND	ND	ND	ND	0.1	0.05	0.01	3	
Copper	mg/L	mg/kg	mg/L	NR	NR	NR	133	1	0.5	0.25	200	
Lead	mg/L	mg/kg	mg/L	ND	ND	ND	8.7	0.1	0.05	0.01	10	
Nickel	mg/L	mg/kg	mg/L	NR	NR	NR	ND	0.2	0.1	0.05	70	
Silver	mg/L	mg/kg	mg/L	NR	NR	NR	ND	0.1	0.05	0.005	100	
Zinc	mg/L	mg/kg	mg/L	NR	NR	NR	ND	5	1	0.5	1000	
Mercury	mg/L	mg/kg	mg/L	ND	ND	ND	ND	0.01	0.005	0.001	1	

#Limit refers to Table 4B to 4D in the ZDHC Wastewater Guidelines.



BUREAU VERITAS refer to leachate limits mentioned in the ZDHC Wastewater Guidelines.

Report Date: March 29, 2023

**Test Result - ZDHC Conventional and Anions Parameters**

Test Parameters	Unit			Results of Test Items				Requirements [Textile]					
	Wastewater	Sludge	Leachate	I001	I002 & I003	I004	I005	Wastewater			Sludge		
								Foundational	Progressive	Aspirational	Sludge Threshold Values	Leachate Limit#	
<b>ZDHC Conventional</b>													
pH <sup>e</sup>	pH						8.31	6 - 9					
Temparture difference	Δ °C							15	10	5			
E.coli	MPN/100-ml							126					
Colour (436 nm)	m <sup>-1</sup>							7	5	2			
Colour (525 nm)	m <sup>-1</sup>							5	3	1			
Colour (620 nm)	m <sup>-1</sup>							3	2	1			
Persistent Foam	-							No indication of Persistent Foam					
Wastewater Flowrate	m <sup>3</sup> /day							-					
Ammonium-Nitrogen	mg/L							10	1	0.5			
AOX	mg/L							3	0.5	0.1			
BOD <sub>5</sub>	mg/L							30	15	8			
COD	mg/L							150	80	40			
DO	mg/L							Sample & Report					
Oil & Grease	mg/L							10	2	0.5			
Total Phenols / Phenol Index	mg/L							0.5	0.01	0.001			
Total Chlorine	mg/L							Sample & Report					
TDS	mg/L							20	10	5			
Total Nitrogen	mg/L							3	0.5	0.1			
Total Phosphorus	mg/L							50	15	5			
TSS	mg/L												
% Solids <sup>e</sup>	-	%						33.9	-				
Paint Filter Test <sup>e</sup>	-	-						Pass	-				
Fecal Coliform <sup>e</sup>	-	-						180	-				
<b>ZDHC Anions</b>													
Chloride	mg/L	-	-					NR	Sample & Report				
Cyanide, total <sup>e</sup>	mg/L	mg/kg	-					ND	0.2	0.1	0.05		
Sulfate	mg/L								Sample & Report				
Sulfide	mg/L	-	-					NR	0.5	0.05	0.01		
Sulfite	mg/L								2	0.5	0.2		

e = Sludge parameter limit refers Table 4C and 4D in the ZDHC Wastewater Guidelines.

#Limit refers to Table 4B to 4D in the ZDHC Wastewater Guidelines.



Test Report: (6723)079-0199

Report Date: March 29, 2023

**Appendix A - Discharge limit according to regulation / contract limit with CETP**

NOT APPLICABLE



Test Report: (6723)079-0199

Report Date: March 29, 2023

**Appendix B - Sample Photos**

**I001) Sampling point**  
Lat 30.94483, Long 76.80425



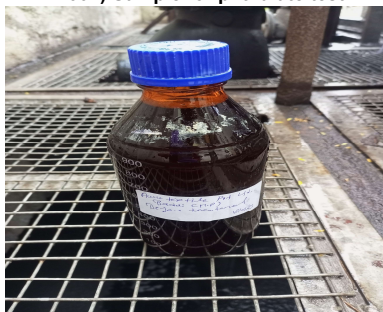
**I001) Sampling location surrounding**  
Lat 30.94483, Long 76.80425



**I001) Labelled sample bottles**



**I001) Sample for phthalate test**



**I001) Sample packaging**



**I002) Sampling point**  
Lat 30.94463, Long 76.80389



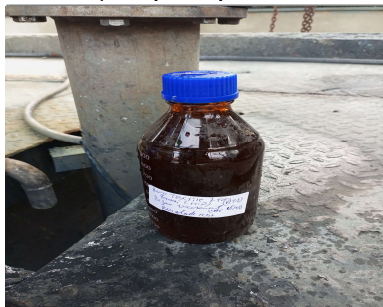
**I002) Sampling location surrounding**  
Lat 30.94463, Long 76.80389



**I002) Labelled sample bottles**



**I002) Sample for phthalate test**



**I002) Sample packaging**





**BUREAU VERITAS**  
**Appendix B - Sample Photos**

Test Report: (6723)079-0199

Report Date: March 29, 2023

**I003) Sampling point**  
Lat 30.94450, Long 76.80358



**I003) Sampling location surrounding**  
Lat 30.94450, Long 76.80358



**I003) Labelled sample bottles**



**I003) Sample for phthalate test**



**I003) Sample packaging**



**I004) Sampling point**  
Lat 30.94450, Long 76.80358



**I004) Sampling location surrounding**  
Lat 23.641985, Long 74.361087



**I004) Labelled sample bottles**



**I004) Sample for phthalate test**



**I004) Sample packaging**





Test Report: (6723)079-0199

Report Date: March 29, 2023

**Appendix B - Sample Photos (continued)**

**I005) Sampling point**

Lat 30.928498 Long 76.799863

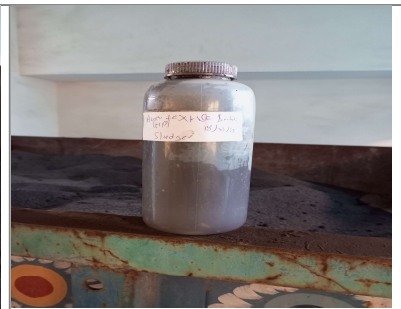


**I005) Sampling location surrounding**

Lat 30.928498 Long 76.799863



**I005) Labelled sample bottles**



**I005) Sample packaging**







Test Report: (6723)079-0199

Report Date: March 29, 2023

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

<b>FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)</b>		CPSD-AN-00613-DATA 04 Issue Date: _____ Version No.: 18 Business Line: Analytical																																																																																																													
<b>General Data</b> Laboratory Sample Number: Client Name: Field Contact Person: Project (Facility Name and Address): Sample Identification: Sample Type: Discharge mode: Date of collection: Facility Type:	(6723)- 0790199 Auro textile Himani Shrivastava Phone No: 8894723056 Sai Road Badli Dis. Selan (HR) Zero discharge with sampling plan <input checked="" type="checkbox"/> Composite Sample / Grab sample (Please delete as appropriate) <input type="checkbox"/> Direct discharge to environment (Specify destination: River, Sea, Stream, ...) OR Indirect discharge to sewage treatment plant 18/03/23 Dyeing / Printing / Washing / Finishing / Others (please specify): *Note: it would be selected more than one																																																																																																														
<b>Sampling Collection Information</b> Sampling Location / Description: Sampling Device Description/ Owner: Sampling mode: Sampler Information: Sampler Name/ Email: Sampler ZDHC Accredited no: ZDHC Composite Sample Code:	Inlet (Auro textile processing unit) AT-1 Autosampler/ Manual Vikran Singh (vs6518017@gmail.com) C74D106817727																																																																																																														
<b>Field Data for Wastewater</b>																																																																																																															
Arrival Time: Field Parameters: Control No. of field equipment: Factory with effluent treatment plant: Sample matrix: Sampler container number:	10:10 AM pH 6.88 Departure Time: Temp 30.5 °C Color: Dark Purple 23.71 Flow rate: (volume/min) Yes No <input checked="" type="checkbox"/> Incoming water (if required) Wastewater before treatment Wastewater after treatment - water at discharge point																																																																																																														
<b>ZDHC Wastewater Flow Device Dimensions</b>																																																																																																															
Measurement (cm) Diameter Depth	Meter NA NA	Pipe (O) NA NA																																																																																																													
<b>ZDHC Wastewater Sampling Field Testing QA/QC</b>																																																																																																															
Parameter pH Total Chlorine	Laboratory control sample (LCS) Known LCS Measured Accuracy %																																																																																																														
<b>ZDHC Wastewater Sample Collection Field Test Measurements</b>																																																																																																															
Sampling Time (Hours) Recording time: Temp (°C): pH: Dissolved Oxygen (mg/L): Total Chlorine (mg/L): Persistent Foam (Yes/No): Wastewater Flow meter (L/min): Alternate measured Flow: Color (visual estimation):	<table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>Average (Report with lab data)</th> </tr> </thead> <tbody> <tr> <td>ID</td> <td>10:30</td> <td>11:30</td> <td>12:30</td> <td>1:30</td> <td>2:30</td> <td>3:30</td> <td>4:30</td> </tr> <tr> <td>Time</td> <td>30.5</td> <td>30.4</td> <td>30.3</td> <td>30.2</td> <td>30.6</td> <td>30.7</td> <td>30.4</td> </tr> <tr> <td>Wastewater Discharge</td> <td>19.6</td> <td>19.7</td> <td>19.9</td> <td>19.4</td> <td>19.6</td> <td>19.7</td> <td>19.5</td> </tr> <tr> <td>Receiving Water</td> <td>6.86</td> <td>6.84</td> <td>6.89</td> <td>6.91</td> <td>6.99</td> <td>6.67</td> <td>6.86</td> </tr> <tr> <td>Dissolved Oxygen (mg/L)</td> <td>5.30</td> <td>5.31</td> <td>5.31</td> <td>5.31</td> <td>5.0</td> <td>5.91</td> <td>5.7</td> </tr> <tr> <td>Total Chlorine (mg/L)</td> <td>0.9</td> <td>1.1</td> <td>1.3</td> <td>1.2</td> <td>0.9</td> <td>0.8</td> <td>1.3</td> </tr> <tr> <td>Persistent Foam (Yes/No)</td> <td colspan="7" style="text-align: center;">No</td> </tr> <tr> <td>Wastewater Flow meter (L/min)</td> <td>23.71</td> <td>23.71</td> <td>23.81</td> <td>23.81</td> <td>23.91</td> <td>23.31</td> <td>23.11</td> </tr> <tr> <td>Alternate measured Flow</td> <td colspan="7"></td> </tr> <tr> <td>Depth (cm)</td> <td colspan="7"></td> </tr> <tr> <td>Velocity (cm/sec)</td> <td colspan="7"></td> </tr> <tr> <td>Color (visual estimation)</td> <td colspan="7" style="text-align: center;">Dark Purple</td> </tr> </tbody> </table>							0	1	2	3	4	5	6	Average (Report with lab data)	ID	10:30	11:30	12:30	1:30	2:30	3:30	4:30	Time	30.5	30.4	30.3	30.2	30.6	30.7	30.4	Wastewater Discharge	19.6	19.7	19.9	19.4	19.6	19.7	19.5	Receiving Water	6.86	6.84	6.89	6.91	6.99	6.67	6.86	Dissolved Oxygen (mg/L)	5.30	5.31	5.31	5.31	5.0	5.91	5.7	Total Chlorine (mg/L)	0.9	1.1	1.3	1.2	0.9	0.8	1.3	Persistent Foam (Yes/No)	No							Wastewater Flow meter (L/min)	23.71	23.71	23.81	23.81	23.91	23.31	23.11	Alternate measured Flow								Depth (cm)								Velocity (cm/sec)								Color (visual estimation)	Dark Purple						
0	1	2	3	4	5	6	Average (Report with lab data)																																																																																																								
ID	10:30	11:30	12:30	1:30	2:30	3:30	4:30																																																																																																								
Time	30.5	30.4	30.3	30.2	30.6	30.7	30.4																																																																																																								
Wastewater Discharge	19.6	19.7	19.9	19.4	19.6	19.7	19.5																																																																																																								
Receiving Water	6.86	6.84	6.89	6.91	6.99	6.67	6.86																																																																																																								
Dissolved Oxygen (mg/L)	5.30	5.31	5.31	5.31	5.0	5.91	5.7																																																																																																								
Total Chlorine (mg/L)	0.9	1.1	1.3	1.2	0.9	0.8	1.3																																																																																																								
Persistent Foam (Yes/No)	No																																																																																																														
Wastewater Flow meter (L/min)	23.71	23.71	23.81	23.81	23.91	23.31	23.11																																																																																																								
Alternate measured Flow																																																																																																															
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Velocity (cm/sec)																																																																																																															
Color (visual estimation)	Dark Purple																																																																																																														



Test Report: (6723)079-0199

Report Date: March 29, 2023

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

<b>FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)</b>		CPSD-AN-00613-DATA 04 Issue Date: _____ Version No.: 18 Business Line: Analytical							
<b>General Data</b>									
Laboratory Sample Number:	(6723)-0790199								
Client Name:	Auro Textile								
Field Contact Person:	Hirani Shah								
Project (Facility Name and Address):	Phone No:	8894723056							
Sample Identification:	Zero discharge with sampling plan								
Sample Type:	<input checked="" type="checkbox"/> 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:	18/03/23								
Factory Type:	Dyeing / Printing / Washing / Finishing / Others (Please specify):								
	*Note: It would be selected more than one								
<b>Sampling Collection Information</b>									
Sampling Location / Description:	Inlet (Printing) AT-2								
Sampling Device Description/ Owner:									
Sampling mode:	Autosampler/ Manual								
<b>Sampler Information</b>									
Sampler Name/ Email:	Vikash Singh (Vs 6518019 @ gmail.com)								
Sampler ZDHC Accredited no.:	C74D100817227								
ZDHC Composite Sample Code:									
<b>Field Data for Wastewater</b>									
Arrival Time:	10:10 Am	Departure Time:	5:10 pm						
Field Parameters:	pH: 7.40	Temp: 32.5 °C	Color: Dark blue						
Control No. of field equipment:		Flow rate:	26.13 l/min						
Factory with effluent treatment plant:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>								
Sample matrix:	<input checked="" type="checkbox"/> Incoming water (if required) <input checked="" type="checkbox"/> Wastewater before treatment <input type="checkbox"/> Wastewater after treatment - water at discharge point								
Sampler container number:									
<b>ZDHC Wastewater Flow Device Dimensions</b>									
Measurement (cm)	Meter	Pipe (O)	Flume (U)						
Diameter	NA		Wier (V)						
Depth	NA	NA	NA						
<b>ZDHC Wastewater Sampling Field Testing QA/QC</b>									
Parameter	Laboratory control sample (LCS) Known	LCS Measured	Accuracy %						
pH									
Total Chlorine									
<b>ZDHC Wastewater Sample Collection Field Test Measurements</b>									
Sampling Time (Hours)	0	1	2	3	4	5	6	Average (Report with lab data)	
Recording time	ID								
Temp (°C)	Time	10:35	11:25	12:15	1:05	2:05	2:55	4:05	
	Wastewater Discharge	21.5	22.7	22.8	22.6	22.7	22.3	22.7	
pH	Receiving Water	19.4	19.8	19.6	19.9	19.7	19.5	19.3	
		7.40	7.41	7.43	7.46	7.41	7.49	7.44	
Dissolved Oxygen (mg/L)		6.01	5.99	5.94	5.96	5.93	5.91	5.99	
Total Chlorine (mg/L)		1.9	1.1	1.3	1.2	1.6	1.7	1.8	
Persistent Foam (Yes/No):		No							
Wastewater Flow meter (L/min):		26.13	26.11	26.14	26.13	26.23	26.17	26.17	
Alternate measured Flow	Depth (cm)								
	Velocity (cm/sec)								
Color (visual estimation):		Dark blue							

CPSD-AN-00613-DATA 04-FIELD DATA RECORD ZDHC SAMPLING-V18



Test Report: (6723)079-0199  
 Report Date: March 29, 2023

**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: (6723)-0790199

Client Name: AWA Textile

Field Contact Person: Hirani Shinde

Project (Facility Name and Address): Shri Kaav Roadi Dh-Calen (F&P) Phone No: 8894723056

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: 18/03/23

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

\*Note: It would be selected more than one

---

**Sampling Collection Information**

Sampling Location / Description: Inlet (Warm Dyeing) - (AWA Dyeing)

Sampling Device Description/ Owner: \_\_\_\_\_

Sampling mode: Autosampler/ Manual

---

**Sampler Information**

Sampler Name/ Email: Vikram Singh (v56518019@gmail.com)

Sampler ZDHC Accredited no.: C74D106817727

ZDHC Composite Sample Code: \_\_\_\_\_

---

**Field Data for Wastewater**

Arrival Time: <u>10:10</u>	Departure Time: <u>5:10 PM</u>	Station: <u>26.37 m<sup>3</sup>/h</u>
Field Parameters: pH <u>7.60</u>	Temp: <u>23.2 °C</u>	Color: <u>Dark</u>
Control No. of field equipment: _____	Flow rate: <u>(volume/min)</u>	
Factory with effluent treatment plant: <u>Yes</u>		
Sample matrix: <u>W</u>	Incoming water (if required): _____	
	Wastewater before treatment: _____	
	Wastewater after treatment - water at discharge point: _____	

---

**ZDHC Wastewater Flow Device Dimensions**

Measurement (cm)	Meter	Pipe (O)	Flume (U)	Wier (V)
Diameter	NA	NA	NA	NA
Depth	NA	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		6
Temp (°C)	Wastewater Discharge	22.2	23.7	23.9	23.4	23.1	23.9	23.7	
	Receiving Water	19.9	19.4	19.6	19.7	19.8	19.4	19.2	
pH		7.6	7.7	7.67	7.63	7.61	7.64	7.67	
Dissolved Oxygen (mg/L)		6.30	5.91	4.99	4.98	4.97	6.01	6.31	
Total Chlorine (mg/L)		0.9	0.91	0.8	0.7	0.7	1.3	1.2	
Persistent Foam (Yes/No)				No					
Wastewater flow meter (L/min)		26.57	26.58	27.1	27.34	28.1	28.2	28.72	
Alternate measured Flow	Depth (cm)								
	Velocity (cm/sec)								
Color (visual estimation)				Dark	Medium				

---

CPSD-AN-00613-DATA 04-FIELD DATA RECORD ZDHC SAMPLING-V13



Test Report: (6723)079-0199

Report Date: March 29, 2023

**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						
<b>General Data</b>								
Laboratory Sample Number:	(6723) (0790199)							
Client Name:	Hawo textile							
Field Contact Person:	Himani shah							
Project (Facility Name and Address):	Shaj Road, Road, Dis - Salora (HI)							
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:	18/03/23							
Factory Type:	Dyeing / Printing / Washing / Finishing / Others (please specify):							
*Note: It would be selected more than one								
<b>Sampling Collection Information</b>								
Sampling Location / Description:	Inlet (Cat-4)							
Sampling Device Description/ Owner:								
Sampling mode:	Autosampler/ Manual							
<b>Sampler Information</b>								
Sampler Name/ Email:	Vikram Singh (VI 658019@gmail.com)							
Sampler ZDHC Accredited no.:	C79D106817727							
ZDHC Composite Sample Code:								
<b>Field Data for Wastewater</b>								
Arrival Time:	10:10	Departure Time:	5:10 PM					
Field Parameters:	pH: 7.13	Temp: 23.7 °C	Color: Black					
Control No. of field equipment:			Flow rate (volume/min): 31.32 m <sup>3</sup> /h					
Factory with effluent treatment plant:	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>					
Sample matrix:	Incoming water (if required)							
	Wastewater before treatment <input checked="" type="checkbox"/>							
	Wastewater after treatment - water at discharge point							
Sampler container number:								
<b>ZDHC Wastewater Flow Device Dimensions</b>								
Measurement (cm)	Meter	Pipe (O)	Flume (U)	Wier (V)				
Diameter	NA							
Depth	NA	NA	NA					
<b>ZDHC Wastewater Sampling Field Testing QA/ QC</b>								
Parameter	Laboratory control sample (LCS) Known	LCS Measured	Accuracy %					
pH								
Total Chlorine								
<b>ZDHC Wastewater Sample Collection Field Test Measurements</b>								
Sampling Time (Hours)	0	1	2	3	4	5	6	Average (Report with lab data)
Recording time	ID							
	Time	10:50	11:50	12:50	2:50	2:50	3:50	4:50
Temp (°C):	Wastewater Discharge	23.7	23.4	23.8	23.6	23.7	24.1	24.2
	Receiving Water	19.9	19.4	19.3	19.2	19.1	19.9	20.1
pH		7.13	7.16	7.17	7.14	7.11	7.19	7.21
Dissolved Oxygen (mg/L)		5.93	4.11	5.61	6.1	5.93	5.94	5.93
Total Chlorine (mg/L)		1.1	0.8	0.6	0.9	0.4	0.7	0.9
Persistent Foam (Yes/ No)								
Wastewater Flow meter (Laminar)	HA	31.32	31.37	31.11	31.42	31.46	31.41	31.11
Alternate measured Flow	Depth (cm)							
	Velocity (cm/sec)							
Color (visual estimation)				Black				



Test Report: (6723)079-0199

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

	<b>FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)</b>	CPSD-AN-00613-DATA 04 Issue Date: _____ Version No.: 18 Business Line: Analytical
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Field Data for Sludge								
Arrival Time:	10:10			Departure Time: 5:10 PM				
Field Parameters	pH: 8.31	Temp: 29.3 °C	Flow rate (volume/time) / sludge flux (weight/time)					
Control No. of field equipment	Golconda - Bistoun Solid							
Sampling Time (Hours)	0	1	2	3	4	5	6	Average (Report with lab data)
Recording time	ID	3:30						
	Time							
pH:	8.31							
Temp (°C):	29.3							
Flow rate (volume/time) / sludge flux (weight/time)								
Volume collected, mL	6 Kg							
Total volume collected	6 Kg	Remark: Total volume collected must be greater than total of sample size required						

Analysis Required and Preservation Method				
Factory with effluent treatment plant	Yes <input checked="" type="checkbox"/>		No	
Sample matrix	Sludge in clarifier (sedimentation tank)			
Sampler container number				
Recording time				
Tests (MRSL Parameter)	Test required (v)	Total of sample size	Type of container	Preservation method (Store sample at 2-8°C)
Combined test or Individual test (Remark 3)	1. Phthalate	10g total or 10g each	Amber Glass, washed with nitric acid	Add 0.2 mL of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (0.008% W/W)
	2. Chlorobenzenes, Chlorotoluene & PAHs			
	3. SCCPs			
	4. APS			
5. APEOs	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	Acidify to ~pH 2 with H <sub>2</sub> SO <sub>4</sub> , Add 0.02 mL of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (0.008% W/W)		
13. Organotin Compounds	10 g	Fill to full container without any air gap and acid add		
14. VOC & Halogenated Solvents (Remark 5)	10 g	Fill to full bottle without any air gap. Acidify to ~pH 2 with HCl		
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 <sub>3</sub>
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 organohalides (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



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**Appendix D - Test methods, reporting limits and CAS numbers**

Test Parameters	Unit		CAS No.	LOQ		Test methods
	Wastewater	Sludge		Wastewater	Sludge	
<b>1A) AP and APEOs: including all isomers</b>						
Nonylphenol ethoxylates (NPEO)	µg/L	mg/kg	9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0	5	0.4	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
Nonylphenol (NP), mixed isomers			104-40-5, 11066-49-2, 25154-52-3, 84852-15-3			
Octylphenol ethoxylates (OPEO)			9002-93-1, 9036-19-5, 68987-90-6			
Octylphenol (OP), mixed isomers			140-66-9, 1806-26-4, 27193-28-8			
<b>1B) Anti-Microbials &amp; Biocides</b>						
o-Phenylphenol (+salts)	µg/L	-	90-43-7	100	-	USEPA 8270E Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS BS EN 12673-1999
Triclosan			3380-34-5			
Permethrin			Multiple	500		
<b>1C) Chlorinated Paraffins</b>						
Medium-chain chlorinated paraffins (MCCPs) (C14-C17)	µg/L	-	85535-85-9	500	-	EPA 3510 and analyzed by ISO18219-2:2021 Method for MCCP with GC-MS(NCI) or LC-MS/MS
Short-chain chlorinated paraffins (SCCPs) (C10-C13)			85535-84-8	25		
<b>1D) Chlorobenzenes and Chlorotoluenes</b>						
1,2-dichlorobenzene	µg/L	-	95-50-1	0.2	-	USEPA 8260D, 8270E, Purge and Trap, Head Space, Dichloromethane extraction followed by GC-MS
Other isomers of mono-, di-, tri-, tetra-, penta-, and hexa-chlorobenzene			Multiple			
Other isomers of mono-, di-, tri-, tetra-, and penta- chlorotoluene		mg/kg				
<b>1E) Chlorophenols</b>						
2-chlorophenol	µg/L	-	95-57-8	0.5	-	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
3-chlorophenol			108-43-0			
4-chlorophenol			106-48-9			
2,3-dichlorophenol			576-24-9			
2,4-dichlorophenol			120-83-2			
2,5-dichlorophenol			583-78-8			
2,6-dichlorophenol			87-65-0			
3,4-dichlorophenol			95-77-2			
3,5-dichlorophenol			591-35-5			
2,3,4-trichlorophenol			15950-66-0			
2,3,5-trichlorophenol			933-78-8			
2,3,6-trichlorophenol			933-75-5			
2,4,5-trichlorophenol			95-95-4			
2,4,6-trichlorophenol			88-06-2			
3,4,5-trichlorophenol			609-19-8			
2,3,5,6-tetrachlorophenol			935-95-5			
2,3,4,6-tetrachlorophenol			58-90-2			
2,3,4,5-tetrachlorophenol			4901-51-3			
Pentachlorophenol (PCP)			87-86-5			
<b>1F) Dimethyl Formamide (DMFa)</b>						
Dimethyl formamide; N,N-dimethylformamide (DMFa) <sup>a</sup>	µg/L	-	68-12-2	1000	-	EPA 8015, EPA 8270E

a = Report only for mock leather



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**Appendix D - Test methods, reporting limits and CAS numbers (continued)**

Test Parameters	Unit		CAS No.	LOQ		Test methods
	Wastewater	Sludge		Wastewater	Sludge	
<b>1G) Dyes - Carcinogenic or Equivalent Concern</b>						
Basic Violet 3 with >0.1% of Michler's Ketone	µg/L	-	548-62-9	500	-	Liquid extraction, LC-MS
C.I. Acid Red 26			3761-53-3			
C.I. Acid Violet 49			1694-09-3			
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)			2580-56-5			
C.I. Basic Green 4 (Malachite Green Chloride)			569-64-2			
C.I. Basic Green 4 (Malachite Green Oxalate)			2437-29-8			
C.I. Basic Green 4 (Malachite Green)			10309-95-2			
C.I. Basic Red 9			569-61-9			
C.I. Basic Violet 14			632-99-5			
C.I. Direct Black 38			1937-37-7			
C.I. Direct Blue 6			2602-46-2			
C.I. Direct Red 28			573-58-0			
C.I. Disperse Blue 1			2475-45-8			
C.I. Disperse Blue 3			2475-46-9			
Disperse Orange 11			82-28-0			
<b>1H) Dyes - Disperse (Allergenic)</b>						
Disperse Blue 102	µg/L	-	12222-97-8	50	-	Liquid extraction, LC-MS
Disperse Blue 106			12223-01-7			
Disperse Blue 124			61951-51-7			
Disperse Blue 26			3860-63-7			
Disperse Blue 35			12222-75-2			
			56524-77-7			
Disperse Blue 7			3179-90-6			
Disperse Brown 1			23355-64-8			
Disperse Orange 1			2581-69-3			
Disperse Orange 3			730-40-5			
Disperse Orange 37/59/76			13301-61-6			
Disperse Red 1			2872-52-8			
Disperse Red 11			2872-48-2			
Disperse Red 17			3179-89-3			
Disperse Yellow 1			119-15-3			
Disperse Yellow 3			2832-40-8			
Disperse Yellow 39			12236-29-2			
Disperse Yellow 49			54824-37-2			
Disperse Yellow 9	6373-73-5					
<b>1I) Dyes - Navy Blue Colourant</b>						
Component 1: C39H23Cl-CrN7O12S 2Na	µg/L	-	118685-33-9	500	-	Liquid extraction, LC-MS
Component 2: C46H-30CrN10O20S2 3Na			Not Allocated			



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**Appendix D - Test methods, reporting limits and CAS numbers (continued)**

Test Parameters	Unit		CAS No.	LOQ		Test methods
	Wastewater	Sludge		Wastewater	Sludge	
<b>1J) Flame Retardants</b>						
2,2-bis(bromomethyl)- 1,3-propanediol (BBMP)			3296-90-0			
Bis(2,3-dibromopropyl) phosphate (BIS)			5412-25-9			
Decabromodiphenyl ether (DecaBDE)			1163-19-5			
Hexabromocyclododecane (HBCDD)			3194-55-6			
Octabromodiphenyl ether (OctaBDE)			32536-52-0			
Pentabromodiphenyl ether (PentaBDE)			32534-81-9			
Polybromobiphenyls (PBB)			59536-65-1			
Tetrabromobisphenol A (TBBPA)			79-94-7			
Tris-(2-chloro-1-methylethyl)phosphate (TCPP)			13674-84-5			
Tris(1-aziridinyl)phosphine oxide (TEPA)			545-55-1			
Tris(1,3-dichloroisopropyl)phosphate (TDCP)			13674-87-8			
Tris(2-chloroethyl)phosphate (TCEP)			115-96-8	25		USEPA 8270E, ISO 22032, USEPA 527 and USEPA 8321B Dichloromethane extraction GC-MS or LC-MS(-MS)
Tris(2,3,-dibromopropyl)-phosphate (TRIS)			126-72-7			
Decabromobiphenyl (DecaBB)	µg/L	-	13654-09-6		-	
Dibromobiphenyls (DiBB)			Multiple			
Octabromobiphenyls (OctaBB)			Multiple			
Dibromopropylether			21850-44-2			
Heptabromodiphenyl ether (HeptaBDE)			68928-80-3			
Hexabromodiphenyl ether (HexaBDE)			36483-60-0			
Monobromobiphenyls (MonoBB)			Multiple			
Monobromodiphenylethers (MonoBDEs)			Multiple			
Nonabromobiphenyls (NonaBB)			Multiple			
Nonabromodiphenyl ether (NonaBDE)			63936-56-1			
Tetrabromodiphenyl ether (TetraBDE)			40088-47-9			
Tribromodiphenylethers (TriBDEs)			Multiple			
Boric acid <sup>b</sup>			10043-35-3, 11113-50-1			
Diboron trioxide <sup>b</sup>			1303-86-2			
Disodium octaborate <sup>b</sup>			12008-41-2			
Disodium tetraborate anhydrous <sup>b</sup>			1303-96-4, 1330-43-4	100		Determined as total boron via ICP
Tetraboron disodium heptaoxide, hydrate <sup>b</sup>			12267-73-1			

b = Limit refer to elemental boron, not the salt.





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**Appendix D - Test methods, reporting limits and CAS numbers (continued)**

Test Parameters	Unit		CAS No.	LOQ		Test methods
	Wastewater	Sludge		Wastewater	Sludge	
<b>1K) Glycols / Glycol Ethers</b>						
2-ethoxyethanol	µg/L	-	110-80-5	50	-	USEPA 8270E Liquid extraction, LC-MS GC-MS
2-ethoxyethyl acetate			111-15-9			
2-methoxyethanol			109-86-4			
2-methoxyethylacetate			110-49-6			
2-methoxypropylacetate			70657-70-4			
Bis(2-methoxyethyl)-ether			111-96-6			
Ethylene glycol dimethyl ether			110-71-4			
Triethylene glycol dimethyl ether			112-49-2			
<b>1L) Halogenated Solvents</b>						
1,2-dichloroethane	µg/L	-	107-06-2	1	-	USEPA 8260D Headspace GC-MS or Purge and trap GC-MS
Methylene chloride			75-09-2			
Tetrachloroethylene			127-18-4			
Trichloroethylene			79-01-6			
<b>1M) Organotin Compounds</b>						
Dipropyltin compounds (DPT)	µg/L	-	Multiple	0.01	-	ISO 17353 Derivatisation with NaB (C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> GC-MS
Mono-, di- and tri-butyltin derivatives						
Mono-, di- and tri-methyltin derivatives						
Mono-, di- and tri-octyltin derivatives						
Mono-, di- and tri-phenyltin derivatives						
Tetrabutyltin compounds (TeBT)						
Tripropyltin Compounds (TPT)						
Tetraoctyltin compounds (TeOT)						
Tricyclohexyltin (TCyHT)						
Tetraethyltin Compounds (TeET)						
<b>1N) Other/Miscellaneous Chemicals</b>						
AEEA [2-(2-aminoethylamino)ethanol]	µg/L	-	111-41-1	500	-	Liquid extraction, LC-MSMS
Bisphenol A			80-05-7	10		
Thiourea			62-56-6	50		Liquid extraction, LC-MS
Quinoline			91-22-5	50		
Borate, zinc salt <sup>c</sup>			12767-90-7	100		Determine as total boron and total zinc via ICP
Silica (Used in sand blasting) <sup>d</sup>			14464-46-1	NA		Not a ZDHC Wastewater parameter
<b>1O) Perfluorinated and Polyfluorinated Chemicals (PFCs)</b>						
Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA)	µg/L	-	Multiple	0.01	-	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
Perfluorooctanoic acid (PFOA) related substances				1		

c = Limit refers to elemental boron and/or zinc, not the salt.

d = Not required to test this parameter as this is related to sand blasting



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**Appendix D - Test methods, reporting limits and CAS numbers (continued)**

Test Parameters	Unit		CAS No.	LOQ		Test methods
	Wastewater	Sludge		Wastewater	Sludge	
<b>1P) Phthalates - including all other esters of ortho-phthalic acid</b>						
1,2-benzenedicarboxylic acid, di-C6-8 branched and linear alkyl esters, C7-rich (DIHP)	µg/L	-	71888-89-6, 84777-06-0	10	-	USEPA 8270E, ISO 18856 Dichloromethane extraction GC-MS
1,2-benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP)			68515-42-4, 68515-50-4			
Bis(2-methoxyethyl)phthalate (DMEP)			117-82-8			
Butyl benzyl phthalate (BBP)			85-68-7			
Di-cyclohexyl phthalate (DCHP)			84-61-7			
Di-iso-decyl phthalate (DIDP)			26761-40-0			
Di-iso-octyl phthalate (DIOP)			27554-26-3			
Di-iso-butyl phthalate (DIBP)			84-69-5			
Di-iso-nonyl phthalate (DINP)			28553-12-0			
Di-n-hexyl phthalate (DnHP)			84-75-3			
Di-n-octyl phthalate (DNOP)			117-84-0			
Di-n-pentylphthalates			131-18-0			
Di-n-propyl phthalate (DPRP)			131-16-8			
Di(ethylhexyl) phthalate (DEHP)			117-81-7			
Dibutyl phthalate (DBP)			84-74-2			
Diethyl phthalate (DEP)			84-66-2			
Diisopentylphthalates			605-50-5			
Dinonyl phthalate (DNP)	84-76-4					
<b>1Q) Polycyclic Aromatic Hydrocarbons (PAHs)</b>						
Acenaphthene	µg/L	mg/kg	83-32-9	1	0.2	USEPA 8270E DIN 38407-39 Solvent extraction GC-MS
Acenaphthylene			208-96-8			
Anthracene			120-12-7			
Benzo[a]anthracene			56-55-3			
Benzo[a]pyrene (BaP)			50-32-8			
Benzo[b]fluoranthene			205-99-2			
Benzo[e]pyrene			192-97-2			
Benzo[ghi]perylene			191-24-2			
Benzo[j]fluoranthene			205-82-3			
Benzo[k]fluoranthene			207-08-9			
Chrysene			218-01-9			
Dibenz[a,h]anthracene			53-70-3			
Fluoranthene			206-44-0			
Fluorene			86-73-7			
Indeno[1,2,3-cd]pyrene			193-39-5			
Naphthalene			91-20-3			
Phenanthrene			85-01-8			
Pyrene			129-00-0			



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**Appendix D - Test methods, reporting limits and CAS numbers (continued)**

Test Parameters	Unit		CAS No.	LOQ		Test methods
	Wastewater	Sludge		Wastewater	Sludge	
<b>1R) Restricted Aromatic Amines (Cleavable from Azo-colourants)</b>						
2-naphthylamine	µg/L	-	91-59-8	0.1	-	Reduction step with sodium dithionite, solvent extraction EPA 8270
2-naphthylammoniumacetate			553-00-4			
2,4-xyliidine			95-68-1			
2,4,5-trimethylaniline			137-17-7			
2,4,5-trimethylaniline hydrochloride			21436-97-5			
2,6-xyliidine			87-62-7			
3,3'-dichlorobenzidine			91-94-1			
3,3-dimethoxybenzidine			119-90-4			
4-aminoazobenzene			60-09-3			
4-aminodiphenyl			92-67-1			
4-chloro-o-toluidine			95-69-2			
4-chloro-o-toluidinium chloride			3165-93-3			
4-chloroaniline			106-47-8			
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate			39156-41-7			
4-methoxy-m-phenylenediamine			615-05-4			
4-methyl-m-phenylenediamine			95-80-7			
4,4-methylene-bis-(2-chloro-aniline)			101-14-4			
4,4-methylenedi-o-toluidine			838-88-0			
4,4-methylenedianiline			101-77-9			
4,4-oxydianiline			101-80-4			
4,4-thiodianiline			139-65-1			
5-nitro-o-toluidine			99-55-8			
6-methoxy-m-toluidine			120-71-8			
Benzidine	92-87-5					
o-aminoazotoluene	97-56-3					
o-anisidine	90-04-0					
o-toluidine	95-53-4					
<b>1S) UV Absorbers</b>						
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	µg/L	-	36437-37-3	100	-	USEPA 8270 ISO 22032, USEPA 527 and USEPA 8321B. Dichloromethane extraction GC-MS or LC-MS(-MS)
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)			25973-55-1			
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)			3846-71-7			
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)			3864-99-1			
<b>1T) Volatile Organic Compounds (VOC)</b>						
Benzene	µg/L	-	71-43-2	1	-	ISO 11423-1 Headspace or Purge and trap GC-MS USEPA 8260D Add ISO 20595 Static headspace for determination of VOC in wastewater
m-cresol			108-39-4			
o-cresol			95-48-7			
p-cresol			106-44-5			
Xylene			1330-20-7			
Toluene <sup>a</sup>			108-88-3			
						ISO 11423-1 Headspace or Purge and trap GC-MS EPA 8270 BS EN 12673-1999
						ISO 11423-1 Headspace or Purge and trap GC-MS USEPA 8260D
						HJ 1067 or EPA 8260D or ISO 11423-1

a = Report only for mock leather



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**Appendix D - Test methods, reporting limits and CAS numbers (continued)**

Test Parameters	Unit		CAS No.	LOQ			Test methods
	Wastewater & Leachate	Sludge		Wastewater	Sludge	Leachate	
<b>Heavy Metals</b>							
Antimony	mg/L	mg/kg	7440-36-0	0.01	5	0.01	With reference to EPA 3015A, 6020A, 200.8, 6020B, 3051A and ISO 17294-2 and analyzed by ICP-MS With reference to EPA 1311 and HJ/T 300 for leachate
Chromium (VI)			18540-29-9	0.001	20	0.001	
Barium			7440-39-3	1	200	1	
Selenium			7782-49-2	1	5	1	
Tin			7440-31-5	1	-	1	
Arsenic			7440-38-2	0.005	5	0.005	
Total Chromium			7440-47-3	0.05	50	0.05	
Cobalt			7440-48-4	0.01	400	0.01	
Cadmium			7440-43-9	0.01	1	0.01	
Copper			7440-50-8	0.25	50	0.25	
Lead			7439-92-1	0.01	5	0.01	
Nickel			7440-02-0	0.05	20	0.05	
Silver			7440-22-4	0.005	50	0.005	
Zinc			7440-66-6	0.5	400	0.5	
Mercury			7439-97-6	0.001	1	0.001	
<b>Conventional</b>							
pH	pH	pH		6 - 9			With reference to ISO 10523, EPA 150.2, APHA 4500-H <sub>+</sub> , USEPA 170.1 or GB/T 13195
Temperature difference	°C			-			
E.coli	MPN/100-ml			126			
Colour	m <sup>-1</sup>			2;1;1			ISO 7887 (Method A and B)
Persistent Foam	-			-			-
Wastewater Flowrate	m <sup>3</sup> /day			-			-
Ammonium-Nitrogen	mg/L			0.5			ISO 11732, ISO 7150, USEPA 350.1, APHA 4500 NH <sub>3</sub> -N, HJ 535 or ISO 9002, EN ISO 9003, USEPA 1650, HJ.T 83-2001
AOX	mg/L			0.1			ISO 5815-1 & -2, EN1899-1, USEPA 405.1, APHA 5210B or HJ 505
Biochemical Oxygen Demand 5-days concentration (BOD <sub>5</sub> )	mg/L			8			ISO 6060, USEPA 410.4, APHA 5220D or GB/T 11914
Chemical Oxygen Demand (COD)	mg/L			40			ISO 5814, EPA 360.1 or HJ 506
Dissolved Oxygen (DO)	mg/L			-			ISO 9377-2, USEPA 1664 or HJ 637
Oil & Grease	mg/L			0.5			ISO 14402, APHA 5530B, C, D or HJ 503
Total Phenols / Phenol Index	mg/L			0.001			ISO 7393-2, EPA 330.5 or H
Total Chlorine	mg/L			0.1			APHA 2540C, GB/T 5750.
Total Dissolved Solids (TDS)	mg/L			5			ISO 5663, ISO 29411, USEPA 351.2, APHA 4500P-J, APHA 4500N-ISO 11885, ISO 6878, USEPA 365.4, APHA 4500P-J or GB/T 11893
Total Nitrogen	mg/L			5			ISO 11923, USEPA 160.2, APHA 2540D or GB/T 11901
Total Phosphorus	mg/L			0.1			USEPA 160.3
Total Suspended Solids (TSS)	mg/L			5			EPA 335-040 or EPA 9005B
% Solids	-	%			-		EPA 1681
Paint Filter Test	-	-			-		
Fecal Coliform	-	bacteria/100ml			-		



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**Appendix D - Test methods, reporting limits and CAS numbers (continued)**

Test Parameters	Unit		CAS No.	LOQ			Test methods
	Wastewater & Leachate	Sludge		Wastewater	Sludge	Leachate	
<b>Anions</b>							
Chloride	mg/L	-	-	-	-	-	ISO 10304-1, ISO 15923-1, USEPA 300, HJ 84-2016, IS 3025 (part 32)
Cyanide, total		mg/kg		0.05	20	-	ISO 6703-1 & 2, ISO 14403-1 & 2, USEPA 335.2, APAH 4500-CN or
Sulfate		-		-	-	-	ISO 10304-1, ISO 15923-1, USEPA 300, HJ 84-2016, IS 3025 (part 24)
Sulfide		-		0.01	-	-	ISO 10530, SM 4500-S2-D, E, G or I, GB/T 16489 or IS 3025 (part 29)
Sulfite		-		0.2	-	-	ISO 10304-3, SM 4500-SO32-C or HJ 84-2016

END OF REPORT