



Factory Company Name:

RMP FAB SOURCING PVT LIMITED

Factory Address:

PLOT NO. 288-289, SECTOR-58, FARIDABAD, HARYANA, 121004, INDIA

Sampling Method & Description:

1001) Untreated wastewater	Composite	Light Blue color liquid
1002) Effluent	Composite	Transparent liquid
1003) Sludge	Composite	Dark Brown color solid
1004) Leachate	-	Not tested

Discharge Type:

Direct Discharge

On-site ETP / Pretreatment:

Yes

Discharge Destination:

Discharged in Sewer

Permit Validation Date:

30/09/2024

Conventional, Anions & Heavy Metals Overall Category:

Foundational

ZDHC MRSL Parameters:

Not detected

Sludge Parameters:

Meet ZDHC Threshold Value

Sample Pick Up Date:

March 16, 2023

Sampler Certification Number: C74D106820006

Test Period:

March 17, 2023 to March 25, 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:

Textile

Average total industrial

Equal or more than 15m³/day

Sludge Disposal Pathway:

Disposal Pathway B

wastewater generated:

Type of Sludge:

Dark Brown Solid

General enquiry and invoicing:

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Report reviewed by:

Shubham Goyal, Sustainability Coordinator

Report approved by:

Sumanta Kumar Swain, Manager

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Bureau Veritas Consumer Products Services (India) Pvt. Ltd, Inc.

(C-19, Sec – 7 Noida (U.P.) 201301)

(4368283/205)

Website: cps.bureauveritas.com



Test Report: (6723)076-0126

Report Date: March 25, 2023

Result Summary - ZDHC MRSL Wastewater Parameters

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



Test Report: (6723)076-0126

Report Date: March 25, 2023

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

Test Items	Untreated wastewater	Effluent
Antimony	NR	Meet
Chromium (VI)		Meet
Barium		Refer to result
Selenium		Refer to result
Tin		Refer to result
Arsenic		Meet
Total Chromium		Meet
Cobalt		Meet
Cadmium		Meet
Copper		Meet
Lead		Meet
Nickel		Meet
Silver		Meet
Zinc		Meet
Mercury		Meet
pH		Meet
Temperature difference		Meet
E.coli		Meet
Colour		Meet
Persistent Foam		Meet
Wastewater Flowrate		Refer to result
Ammonium-Nitrogen		Meet
AOX		Meet
BOD ₅		Meet
COD		Meet
DO		Refer to result
Oil & Grease		Meet
Total Phenols / Phenol Index		Meet
Total Chlorine		Refer to result
TDS		Refer to result
Total Nitrogen		Meet
Total Phosphorus		Meet
TSS		Meet
Chloride	Refer to result	
Cyanide, total	Meet	
Sulfate	Refer to result	
Sulfide	Meet	
Sulfite	Meet	



Test Report: (6723)076-0126

Report Date: March 25, 2023

Result Summary - ZDHC Sludge Parameters

Test Items	Sludge	Leachate
Antimony	ND	NR
Arsenic	ND	NR
Barium	ND	NR
Cadmium	ND	NR
Cobalt	ND	NR
Copper	ND	NR
Lead	ND	NR
Nickel	ND	NR
Selenium	ND	NR
Silver	ND	NR
Total Chromium	ND	NR
Zinc	ND	NR
Chromium (VI)	ND	NR
Mercury	ND	NR
Cyanide	Refer to result	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
Not Meet	=	Exceed Foundational Limit / Exceed Discharge Permit
NR	=	Not requested / Not required
NA	=	Not applicable
D	=	Detected
ND	=	Not detected
Refer to result	=	Legal parameter(s) and/or parameter(s) requested by factory, please refer to test result



Test Report: (6723)076-0126

Report Date: March 25, 2023

Test Result - ZDHC MRSL Parameters

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



Test Report: (6723)076-0126

Report Date: March 25, 2023

Test Result - ZDHC MRSL Parameters (continued)

Test Parameters	Results of Test Items				Requirements [Textile]		
	I001 (µg/L)	I002 (µg/L)	I003 (mg/kg)	I004 (mg/L)	Wastewater (µg/L)	Sludge (mg/kg)	Leachate [#] (mg/L)
1G) Dyes - Carcinogenic or Equivalent Concern							
Basic violet 3 with >0.1% of Michler's Ketone	ND						
C.I. Acid Red 26	ND						
C.I. Acid Violet 49	ND						
C.I. Basic Blue 26 (with Michler's Ketone >0/1%)	ND						
C.I. Basic Green 4 (Malachite Green Chloride)	ND						
C.I. Basic Green 4 (Malachite Green Oxalate)	ND						
C.I. Basic Green 4 (Malachite Green)	ND						
C.I. Basic Red 9	ND	NR	NR	NR	500	-	-
C.I. Basic Violet 14	ND						
C.I. Direct Black 38	ND						
C.I. Direct Blue 6	ND						
C.I. Direct Red 28	ND						
C.I. Disperse Blue 1	ND						
C.I. Disperse Blue 3	ND						
Disperse Orange 11	ND						
1H) Dyes - Disperse (Allergenic)							
Disperse Blue 102	ND						
Disperse Blue 106	ND						
Disperse Blue 124	ND						
Disperse Blue 26	ND						
Disperse Blue 35 (CAS 12222-75-2)	ND						
Disperse Blue 35 (CAS 56524-77-7)	ND						
Disperse Blue 7	ND						
Disperse Brown 1	ND						
Disperse Orange 1	ND						
Disperse Orange 3	ND	NR	NR	NR	50	-	-
Disperse Orange 37/59/76	ND						
Disperse Red 1	ND						
Disperse Red 11	ND						
Disperse Red 17	ND						
Disperse Yellow 1	ND						
Disperse Yellow 3	ND						
Disperse Yellow 39	ND						
Disperse Yellow 49	ND						
Disperse Yellow 9	ND						
1I) Dyes - Navy Blue Colourant							
Component 1: C ₃₉ H ₂₃ Cl-CrN ₇ O ₁₂ S ₂ Na	ND						
Component 2: C ₄₆ H-30CrN ₁₀ O ₂₀ S ₂ 3Na	ND	NR	NR	NR	500	-	-



Test Report: (6723)076-0126

Report Date: March 25, 2023

Test Result - ZDHC MRSL Parameters (continued)

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

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



Test Report: (6723)076-0126

Report Date: March 25, 2023

Test Result - ZDHC MRSL Parameters (continued)

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



Test Report: (6723)076-0126

Report Date: March 25, 2023

Test Result - ZDHC MRSL Parameters (continued)

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

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



Test Report: (6723)076-0126

Report Date: March 25, 2023

Test Result - ZDHC MRSL Parameters (continued)

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

a = Report only for mock leather



Test Report: (6723)076-0126

Report Date: March 25, 2023

Test Result - ZDHC Heavy Metals Parameters

Test Parameters	Unit			Results of Test Items				Requirements [Textile]				
	Wastewater	Sludge	Leachate	I001	I002	I003	I004	Wastewater			Sludge	
								Foundational	Progressive	Aspirational	Sludge Threshold Values	Leachate Limit#
ZDHC Heavy Metals												
Antimony	mg/L	mg/kg	mg/L	NR	ND	ND	NR	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	NR	0.05	0.005	0.001	50	
Barium	mg/L	mg/kg	mg/L		ND	ND	NR	Sample & Report			700	
Selenium	mg/L	mg/kg	mg/L		ND	ND	NR	Sample & Report			10	
Tin	mg/L	-	-		ND	ND	NR	Sample & Report			-	
Arsenic	mg/L	mg/kg	mg/L		ND	ND	NR	0.05	0.01	0.005	10	
Total Chromium	mg/L	mg/kg	mg/L		ND	76	NR	0.2	0.1	0.05	100	
Cobalt	mg/L	mg/kg	mg/L		ND	ND	NR	0.05	0.02	0.01	1600	
Cadmium	mg/L	mg/kg	mg/L		ND	ND	NR	0.1	0.05	0.01	3	
Copper	mg/L	mg/kg	mg/L		ND	ND	NR	1	0.5	0.25	200	
Lead	mg/L	mg/kg	mg/L		ND	ND	NR	0.1	0.05	0.01	10	
Nickel	mg/L	mg/kg	mg/L		ND	24	NR	0.2	0.1	0.05	70	
Silver	mg/L	mg/kg	mg/L		ND	ND	NR	0.1	0.05	0.005	100	
Zinc	mg/L	mg/kg	mg/L		ND	ND	NR	5	1	0.5	1000	
Mercury	mg/L	mg/kg	mg/L		ND	ND	NR	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 25, 2023

Test Result - ZDHC Conventional and Anions Parameters

Test Parameters	Unit			Results of Test Items				Requirements [Textile]						
	Wastewater	Sludge	Leachate	I001	I002	I003	I004	Wastewater			Sludge			
								Foundational	Progressive	Aspirational	Sludge Threshold Values	Leachate Limit#		
ZDHC Conventional														
pH ^e	pH	-	-	-	8.55	9.05	-	-	-	6 - 9			-	-
Temparture difference	Δ °C	-	-	-	2.6	-	-	-	-	15	10	5	-	-
E.coli	MPN/100-ml	-	-	-	ND	-	-	-	-	126			-	-
Colour (436 nm)	m ⁻¹	-	-	-	0.5	-	-	-	-	7	5	2	-	-
Colour (525 nm)	m ⁻¹	-	-	-	0.3	-	-	-	-	5	3	1	-	-
Colour (620 nm)	m ⁻¹	-	-	-	0.3	-	-	-	-	3	2	1	-	-
Persistent Foam	-	-	-	-	Absent	-	-	-	-	No indication of Persistent Foam			-	-
Wastewater Flowrate	m ³ /hour	-	-	-	20	-	-	-	-	-			-	-
Ammonium-Nitrogen	mg/L	-	-	-	ND	-	-	-	-	10	1	0.5	-	-
AOX	mg/L	-	-	-	0.85	-	-	-	-	3	0.5	0.1	-	-
BOD ₅	mg/L	-	-	-	28	NR	-	-	-	30	15	8	-	-
COD	mg/L	-	-	-	129	NR	NR	-	-	150	80	40	-	-
DO	mg/L	-	-	-	7.3	-	-	-	-	Sample & Report			-	-
Oil & Grease	mg/L	-	-	-	ND	-	-	-	-	10	2	0.5	-	-
Total Phenols / Phenol Index	mg/L	-	-	-	0.42	-	-	-	-	0.5	0.01	0.001	-	-
Total Chlorine	mg/L	-	-	-	0.6	-	-	-	-	Sample & Report			-	-
TDS	mg/L	-	-	-	1298	-	-	-	-	-			-	-
Total Nitrogen	mg/L	-	-	-	ND	-	-	-	-	20	10	5	-	-
Total Phosphorus	mg/L	-	-	-	ND	-	-	-	-	3	0.5	0.1	-	-
TSS	mg/L	-	-	-	23.63	-	-	-	-	50	15	5	-	-
% Solids ^e	-	%	-	-	-	41.63	-	-	-	-			-	-
Paint Filter Test ^e	-	-	-	-	NR	Pass	-	-	-	-			-	-
Fecal Coliform ^e	-	-	-	-	-	0.93	-	-	-	-			-	-
ZDHC Anions														
Chloride	mg/L	-	-	-	699.7	NR	-	-	-	Sample & Report			-	-
Cyanide, total ^e	mg/L	mg/kg	-	-	ND	ND	-	-	-	0.2	0.1	0.05	-	-
Sulfate	mg/L	-	-	NR	461.38	-	NR	-	-	Sample & Report			-	-
Sulfide	mg/L	-	-	-	ND	NR	-	-	-	0.5	0.5	0.01	-	-
Sulfite	mg/L	-	-	-	ND	-	-	-	-	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)076-0126

Report Date: March 25, 2023

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

HARYANA STATE POLLUTION CONTROL BOARD
 Regional Office, Ballabhgarh, Sec.16-A, Opp. Hewo Apartment, Faridabad Ph 0129-2225314 Email:- hspcbr@b@gmail.com E-mail: hspcb@hry.nic.in

No. HSPCB/Consent/ : 313101721FDBBCT013214954 Dated: 08/07/2021

To: M/s RMP FAB SOURCING PVT LTD PLOT NO. 288-289, SECTOR-58, FARIDABAD

Subject: Grant of consent to operate to M/s RMP FAB SOURCING PVT LTD. Please refer to your application no. 13214954 received on dated 2021-06-22 in regional office Ballabhgarh. With reference to your above application for consent to operate, M/s RMP FAB SOURCING PVT LTD is here by granted consent as per following specifications/terms and conditions.

Consent Under	BOTH
Period of consent	01/10/2021 to 30/09/2024
Industry Type	Yarn / Textile processing involving any effluent/emission generating processes including bleaching, dyeing, printing and colouring.
Category	RED
Investment(In Lakh)	4769.4196
Total Land Area(Sq meter)	16187.0
Total Building Area(Sq meter)	12140.0
Quantity of effluent	
1. Trade	1250.0 KL/Day
2. Domestic	35.0 KL/Day
Number of outlets	2.0
Mode of discharge	
1. Domestic	sewer
2. Trade	650 KLD recycled and 600 KLD discharged in sewer
Domestic Effluent Parameters	
1. BOD	30 mg/l
2. COD	250 mg/l
3. TSS	100 mg/l
4. OG	10 mg/l
5. Ammonical nitrogen	30 mg/l
Trade Effluent Parameters	
1. BOD	50 mg/l
2. COD	250 mg/l
3. TSS	100 mg/l

4. total chrome	3 mg/l
5. sulphide	2 mg/l
6. phenolic compound	1 mg/l
7. TDS	2100 mg/l
8. SAR	23 ml
9. Ammonical nitrogen	50 mg/l
Number of stacks	2
Height of stack	
1. Stack attached to Boiler 8 Ton and Thermopack 25 lac KCL	30 mtr
2. Stack attached to Boiler 6 Ton and Thermopack 15 lac KCL	30 mtr
3. Boiler 8 Ton(gas) and Thermopack 25 lac KCL(gas) standby and Boiler 7 Ton (LPG) standby	30 mtr
Key parameters	
1. SPM	800 ug/m3
Product Details	
1. Dyeing and printing of fabric	150000 Metric Tonne/day
Capacity of boiler	
1. Boiler (Coal fired)	8 Ton/hr
2. Boiler (Coal fired)	8 Ton/hr
3. Thermopack (Coal fired)	2500000 Kcalores/hr fired
4. Thermopack (Coal fired)	1500000 Kcalores/hr fired
5. Boiler standby gas fired	8 Ton/hr
6. Thermopack standby gas fired	2500000 Kcalores/hr gas fired
Boiler standby gas fired	2 Ton/hr
Type of Furnace	
1. na	0.0
Type of Fuel	
1. Coal	21.4 Ton/day
2. Gas	2000 KG/day
Raw Material Details	
common salt	500 Kg/Day
dyes and chemicals	125 Kg/Day
caustic	55 Kg/Day
glauver salt	10 Kg/Day

lype	55 Kg/Day
acid	0.5 Kilo Liters/Day

Regional Officer, Ballabhgarh
 Haryana State Pollution Control Board

Terms and conditions:

- The applicants shall maintain good house keeping both within factory and in the premises. All hose pipelines valves, storage tanks etc. shall be leak proof. In plant allowable pollutants levels, if specified by State Board should be met strictly.
- The applicant/company shall comply with and carry out directive/orders issued by the Board in this consent order at all subsequent times without negligence of his/ its part. The applicant/company shall be liable for such legal action against him/ as per provision of the law/in case of violation of any order/directives. Issued at any time and or non compliance of the terms and conditions of his consent order.
- The applicant shall make an application for grant of consent at least 90 days before the date of expiry of this consent.
- Necessary fee as prescribed for obtaining renewal consent shall be paid by the applicant alongwith the consent application.
- If due to any technological improvement or otherwise this Board is of opinion that all or any of the conditions referred to above required variation (including the change of any control equipment either in whole or in part) this Board shall after giving the applicant an opportunity of being heard vary all or such condition and there upon the applicant shall be bound to comply with the conditions so varied.
- The industry shall provide adequate arrangement for fighting the accidental leakages, discharge of any pollutants gas/liquids from the vessels, mechanical equipment etc. which are likely to cause environment pollution.
- The industry shall comply noise pollution (Regulation and control) Rules, 2000.
- The industry shall comply all the direction/Rules/Instructions as may be issued by the MOEF/CPCB/HSPCB from time to time.
- The industry shall ensure that various characteristics of the effluents remain within the tolerance limits as specified in EPA Standard and as amended from time to time and at no time the concentration of any characteristic should exceed these limits for discharge.
- The industry would immediately submit the revised application to the Board in the event of any change in the raw material in process, mode of treatment/discharge of effluent. In case of change of process at any stage during the consent period, the industry shall submit fresh consent application alongwith the consent to operate fee, if found due, which may be on any account and that shall be paid by the industry and the industry would immediately submit the consent application to the Board in the event of any change during the year in the raw material, quantity, quality of the effluent, mode of discharge, treatment facilities etc.
- The officer/official of the Board shall reserve the right to access for the inspection of the industry in connection with the various process and the treatment facilities. The consent to operate is subject to review by the Board at any time.
- Permissible limits for any pollutants mentioned in the consent to operate order should not exceed the concentration permitted in the effluent by the Board.

- The industry shall pay the balance fee, in case it is found due from the industry at any time later on.
- If the industry fails to adhere to any of the conditions of this consent to operate order, the consent to operate so granted shall automatically lapse.
- If the industry is closed temporarily at its own, they shall inform the Board and obtain permission before restart of the unit.
- The industry shall comply all the Directions/ Rules/Instructions issued from time to time by the Board.

Specific Conditions :

- The unit will submit the analysis reports from all sources as applicable, before 30th June every year and will keep all parameters within in standards prescribed under Environment (Protection) Rules, 1986.
- The unit will submit the Annual Report under HWM Rules by 30th June and Environment Statement by 30th September every year.
- Unit will submit fresh balance sheet/ CA certificate regarding capital investment cost of the unit on land, building, plant and machinery without depreciation and will also deposit balance consent fee if any found due as per latest balance sheet/ CA certificate, by 30th September every year.
- Unit will apply for renewal of consent/Authorization at least 90 days before expiry date of the consent/Authorization.
- The hazardous waste generated by the unit will be disposed off only through Authorized TSDF/recyclers/ Refiners of hazardous waste.
- Unit will apply for authorization under HWM Rules immediately and will submit request for sample collection after stabilization of STP/ETP within 3 months if applicable.
- If, in future at any stage requirement/need of balance fees arises unit will be liable to pay the same, failing which the CTO/Authorization so granted will be revoked automatically.
- The unit will comply with the Directions dated 27-11-2020 issued by CPCB regarding to allow only those new industrial units in NCR-Delhi, which are using cleaner fuels, namely, natural gas (PNG-CNG), liquefied petroleum gas, bio-gas, propane, butane etc.
- Unit will liable to pay environmental compensation at any stage imposed by the Board.
- Unit will installed only PNG fired dg sets, if required.

Dinesh Kumar
 Regional Officer, Ballabhgarh
 Haryana State Pollution Control Board



Test Report: (6723)076-0126

Report Date: March 25, 2023

Appendix B - Sample Photos

I001) Sampling point

Lat 28.31507, Long 77.299986



I001) Sampling location surrounding

Lat 28.31507, Long 77.299986



I001) Labelled sample bottles



I001) Sample for phthalate test

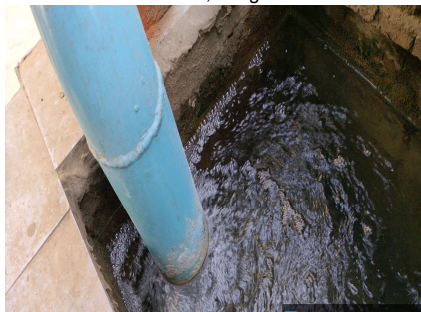


I001) Sample packaging



I002) Sampling point

Lat 28.315092, Long 77.300006



I002) Sampling location surrounding

Lat 28.315092, Long 77.300006



I002) Labelled sample bottles



I002) pH measurement



I002) Sample packaging





Test Report: (6723)076-0126

Report Date: March 25, 2023

Appendix B - Sample Photos (continued)

I003) Sampling point

Lat 28.315248, Long 77.300042



I003) Sampling location surrounding

Lat 28.315248, Long 77.300042



I003) Labelled sample bottles



I003) Sample packaging





Test Report: (6723)076-0126
 Report Date: March 25, 2023

Appendix C - On-site Field Data Record Sheet

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

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

(6723) 076-0126

Contact Person: RMP Fat Sourcing Pvt Ltd.
Project (Facility Name and Address): Abhishek Kumar, Phone No: 8949280624
Sample Identification: RMP Fat Sourcing Pvt Ltd. Hat No. - 288-289, Sector 58 Faridabad Haryana Pin-121604 (Sector)
Sample Type: Zero discharge with sampling plan
Discharge mode: Composite Sample / Grab Sample (Please delete as appropriate)
Date of collection: Direct discharge to environment (Specify destination: River, Sea, Stream...) OR Indirect discharge to sewage treatment plant
Factory Type: Printing / Washing / Finishing / Others (please specify) _____
 *Note: It would be selected more than one

Sampling Collection Information
Sampling Location / Description: ETP Inlet
Sampling Device Description/ Owner: _____
Sampling mode: Autosampler/ Manual

Sampler Information
Sampler Num/ Email: Kapil Rana / kapilrana.brc@gmail.com
Sampler ZDHC Accredited no: C74D10680-0006
ZDHC Composite Sample Code: _____

Field Data for Wastewater

Arrival Time	11:15 AM	Departure Time	5:30 PM
Field Parameters	pH: 9.04	Temp: 29.6 °C	Color: Light Blue
Control No. of field equipment		Flow rate: 39 (volume/min)	
Factory with effluent treatment plant:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Sample matrix:	Incoming water (if required) <input type="checkbox"/>		
	Wastewater before treatment <input checked="" type="checkbox"/>		
Sampler container number	Wastewater after treatment - water at discharge point <input type="checkbox"/>		

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	6		
Temp (°C)	Time	11:30	12:30	01:30	02:30	03:30	04:30	05:30		
	Wastewater Discharge	29.0	29.1	29.5	29.2	29.4	29.2	29.1		
pH	Receiving Water	2.10	2.17	2.15	2.19	2.15	2.14	2.12		
		9.14	9.10	9.15	9.13	9.12	9.14	9.14		
Dissolved Oxygen (mg/L)		7.2	7.3	7.4	7.2	7.3	7.4	7.3		
Total Chlorine (mg/L)		0.8	0.7	0.7	0.6	0.7	0.8	0.7		
Persistent Foam (Yes/No)		NO								
Wastewater Flow meter (L/min)		38.5	38.9	39.5	39.0	39.0	39.2	39.7		
Alternate measured Flow	Depth (cm)									
	Velocity (cm/sec)									
Color (visual estimation)		Light Blue								



Test Report: (6723)076-0126

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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						
Volume collected, mL	150	150	150	150	150	150	150	150
Total volume collected	10.5 Ltr							
Remark: Total volume collected must be greater than total of sample size required								

Analysis Required and Preservation Method				
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	✓	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		
19. PFCs (Remark 6)	✓	2 mL		PE, washed with pesticide grade Acetone



Test Report: (6723)076-0126
 Report Date: March 25, 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:								
Client Name:								
Field Contact Person:								
Project (Facility Name and Address):								
Sample Identification:								
Sample Type:								
Discharge mode:								
Date of collection:								
Factory Type:								
RMP Fab Sourcing Pvt Ltd, Abhishek Kumar Phone No 894928 0624 RMP Fab Sourcing Pvt Ltd, Plot No. - 288-289 Sector 58 Landarad Haryana Pin - 121001 (India)								
Zero discharge with sampling plan Composite Sample / Grab sample (Please delete as appropriate) <input checked="" type="checkbox"/> Direct discharge to environment (Specify destination: River, Sea, Stream, ...) OR Indirect discharge to sewage treatment plant								
Direct discharge to environment (Specify destination: River, Sea, Stream, ...) OR Indirect discharge to sewage treatment plant								
Factory Type: <u>Dyeing / Printing / Washing / Finishing / Others (please specify):</u>								
*Note: It would be selected more than one								
Sampling Collection Information								
Sampling Location / Description:								
Sampling Device Description/ Owner:								
Sampling mode:								
ETP Outlet Autosampler/ Manual								
Sampler Information								
Sampler Name/ Email:								
Sampler ZDHC Accredited no.:								
ZDHC Composite Sample Code:								
Kapil Rana / kapil.rana_bsc@gmail.com 8740106820906								
Field Data for Wastewater								
Arrival Time:	11:15 AM	Departure Time:	05:30 P.M					
Field Parameters:	pH: 8.56	Temp: 25.6 °C	Color: Colourless					
Control No. of field equipment:		Flow rate: 20 (volume/min)						
Factory with effluent treatment plant:	Yes		No					
Sample matrix:	Incoming water (if required) Wastewater before treatment <input checked="" type="checkbox"/> Wastewater after treatment - water at discharge point							
Sampler container number:								
ZDHC Wastewater Flow Device Dimensions								
Measurement (cm)	Meter	Pipe (O)	Flume (U)					
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								
Sampling Time (Hours)	0	1	2	3	4	5	6	Average (Report with lab data)
Recording time	ID							
Temp (°C):	Time	11:28	12:28	01:28	02:28	03:28	04:28	05:28
	Wastewater Discharge	25.6	25.4	25.2	25.6	25.4	25.1	25.2
	Receiving Water	23.0	23.1	23.2	23.4	23.2	23.3	23.4
pH:		8.55	8.58	8.52	8.53	8.52	8.54	8.55
Dissolved Oxygen (mg/L):		7.4	7.3	7.4	7.5	7.3	7.4	7.3
Total Chlorine (mg/L):		0.6	0.5	0.6	0.7	0.5	0.6	0.7
Persistent Foam (Yes/No):				NO				
Wastewater Flow meter (L/min):		20.8	20.2	20.1	20.3	20.8	20.5	20.1
Alternate measured Flow	Depth (cm)							
	Velocity (cm/sec)							
Color (visual estimation):		Colourless						



Test Report: (6723)076-0126
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Appendix C - On-site Field Data Record Sheet (continued)

Tests (Conventional 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)	20. Total suspended solids (TSS)	✓	2000 mL total or 2000 mL each	Amber Glass, washed with nitric acid.	Without adding acid	
	21. Total dissolved solids (TDS)	✓				
	22. 5-day Biochemical Oxygen Demand (BOD5)	✓	1000 mL			
	23. Colour	✓	100 mL			
	24. Heavy Metals except Cr(VI) & Total-P (Remark 6)	✓	9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO ₃	
	25. Cyanide	✓	500 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% Na ₂ S ₂ O ₃	
	26. Cr(VI)	✓	95 mL	Amber Glass, washed with nitric acid	Filter by 0.45µm filter in field, fill to full container without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer	
	27. Chemical oxygen demand (COD)	✓	150 mL		Acidify to pH 2 with H ₂ SO ₄	
	28. Phenols	✓	500 mL			
	29. Oil and Grease & Total Hydrocarbon	✓	1000 mL			
	30. *Formaldehyde	✓	25 mL		Fill to full container without air gap; acidify to pH 2 with H ₂ SO ₄	
	31. Sulfide (Remark 5)	✓	50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH	
	32. E.coli (Remark 6)	✓	125 mL	PE, clean, sterile, non-reactive	Add 0.1 ml of 10% Na ₂ S ₂ O ₃ , keep in dark	
	33. Sulfite	✓	100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA	
	34. Total-N	✓	100 mL	Amber Glass, washed with nitric acid;	Acidify to pH 2 with H ₂ SO ₄	
	35. Ammonium-N	✓	500 mL		Acidify to pH 2 with HNO ₃	
	36. Adsorbable organically bound halogens (AOX)	✓	100 mL		Without adding acid	
	37. Acute aquatic toxicity: Luminus Bacteria, Fish Egg, Daphne, Algae;	✓	1000 mL			
	38. Sulphate	✓	100 mL			
	39. Chloride	✓	100 mL			
	40. Others.	✓				

- *Remarks:
- Individual sampling can be performed upon request
 - The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.
 - Scope of ZDHC guideline: Parameter 1-9, 12, 14-29, 31-36, 38, 39
 Scope of synthetic leather industry: Parameter 1-9, 12, 14-24, 26-29, 31, 32, 34, 35, 38, 39
 Scope of MMCF: Parameter 5, 18, 20, 22-24, 26-29, 31, 34-37
 Free primary aromatic amine, pesticides, nitrosamine and formaldehyde are not in the scope of ZDHC Guideline, they are tested upon request.
 - Refer to CPSD-AN-G00019-STIP01, locations with those CPSD test capability inside TCD matrix can perform the combined test.
 - Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.
 - Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by: Kapil Rama Date: 16/03/2023
 Full Name: _____

Comment from factory: _____

Acknowledgement by factory
 I hereby confirmed that Bureau Veritas has completed the stated sampling activity at captioned date, time and location. All sample(s) is/are collected in designated container(s) and without any observation in leakage. Sample(s) collected by Bureau Veritas is/are stored in portable freezer / fridge that is maintained in 1-6°C

For RMP Fab Sourcing Pvt. Ltd. Abhishek Kumar Date: 16/03/2023
 Signatory of Factory: _____ Full Name: _____

Authorised Signatory



Test Report: (6723)076-0126
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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:		11:15 AM			Departure Time:		05:30 PM				
Field Parameters		pH:	9.05			Temp:	26.4 °C				
Control No. of field equipment		Flow rate (volume/time) / sludge flux (weight/time)									
Sampling Time (Hours)		0	1	2	3	4	5	6	Average (Report with lab data)		
Recording time		ID									
		Time	04:10 PM								
pH		9.05									
Temp (°C)		26.4									
Flow rate (volume/time) / sludge flux (weight/time)											
Volume collected, mL											
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"/>									
Sample matrix		Sludge in clarifier (sedimentation tank)					No				
Sampler container number											
Recording time		04:10 PM									
Tests (MRSL Parameter)		Test required (✓)	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 ₂ S ₂ O ₃ (0.008% WV)			
	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		20 g									
10. Banned Azodyes		20 g									
11. *Free primary aromatic amines		10 g									
12. Chlorophenols & Cresols		20 g	PE, wash with pesticide grade acetone								
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					Add 0.02 mL of 10% Na ₂ S ₂ O ₃ (0.008% WV)				
Tests (Conventional Parameters)		Test required (✓)	Total of sample size	Type of container				Preservation method (Store sample at 2-8°C)			
16. Heavy Metals except Cr(VI) (Remark 5)		✓	0.2 g	PE, wash with nitric acid				Acidify to -pH 2 with HNO ₃			
17. Cr(VI)		✓	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		✓	50 g	Amber Glass, wash with pesticide grade acetone				Adjust pH to 12-13 with 50% NaOH			

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



Test Report: (6723)076-0126

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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	
1A) AP and APEOs: including all isomers						
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			
1B) Anti-Microbials & Biocides						
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		
1C) Chlorinated Paraffins						
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		
1D) Chlorobenzenes and Chlorotoluenes						
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				
1E) Chlorophenols						
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			
1F) Dimethyl Formamide (DMFa)						
Dimethyl formamide; N,N-dimethylformamide (DMFa) ^a	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	
1G) Dyes - Carcinogenic or Equivalent Concern						
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			
1H) Dyes - Disperse (Allergenic)						
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					
1I) Dyes - Navy Blue Colourant						
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	
1J) Flame Retardants						
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			
Hexabromocyclodecane (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-dichloro-isopropyl)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 ^b			10043-35-3, 11113-50-1			
Diboron trioxide ^b			1303-86-2			
Disodium octaborate ^b			12008-41-2			
Disodium tetraborate anhydrous ^b			1303-96-4, 1330-43-4	100		Determined as total boron via ICP
Tetraboron disodium heptaoxide, hydrate ^b			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		
1K) Glycols / Glycol Ethers							
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				
1L) Halogenated Solvents							
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				
1M) Organotin Compounds							
Dipropyltin compounds (DPT)	µg/L	-	Multiple	0.01	-	ISO 17353 Derivatisation with NaB (C2H5)4 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)							
1N) Other/Miscellaneous Chemicals							
AEEA [2-(2-aminoethylamino)ethanol]	µg/L	-	111-41-1	500	-	Liquid extraction, LC-MSMS	
Bisphenol A			80-05-7	10		Liquid extraction, LC-MS	
Thiourea			62-56-6	50			
Quinoline			91-22-5	50			
Borate, zinc salt ^c			12767-90-7	100			Determine as total boron and total zinc via ICP
Silica (Used in sand blasting) ^d			14464-46-1	NA			Not a ZDHC Wastewater parameter
1O) Perfluorinated and Polyfluorinated Chemicals (PFCs)							
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	
1P) Phthalates - including all other esters of ortho-phthalic acid						
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					
1Q) Polycyclic Aromatic Hydrocarbons (PAHs)						
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	
1R) Restricted Aromatic Amines (Cleavable from Azo-colourants)						
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					
1S) UV Absorbers						
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			
1T) Volatile Organic Compounds (VOC)						
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 ^a			108-88-3			
						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	
Heavy Metals							
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	
Conventional							
pH	pH	pH		6 - 9			With reference to ISO 10523, EPA 150.2, APHA 4500-H+
Temperature difference	°C			-			USEPA 170.1 or GB/T 13195
E.coli	MPN/100-ml			126			-
Colour	m ⁻¹			2;1;1			ISO 7887 (Method A and B)
Persistent Foam	-			-			-
Wastewater Flowrate	m ³ /day			-			-
Ammonium-Nitrogen	mg/L			0.5			ISO 11732, ISO 7150, USEPA 350.1, APHA 4500 NH ³ -N, HJ 535 or HJ 536
AOX	mg/L			0.1			ISO 9562, EN ISO 9563, USEPA 1650, HJ.T 83-2001
Biochemical Oxygen Demand 5-days concentration (BOD ₅)	mg/L			8			ISO 5815-1 & -2, EN1899-1, USEPA 405.1, APHA 5210B or HJ 505
Chemical Oxygen Demand (COD)	mg/L			40			ISO 6060, USEPA 410.4, APHA 5220D or GB/T 11914
Dissolved Oxygen (DO)	mg/L			-			ISO 5814, EPA 360.1 or HJ 506
Oil & Grease	mg/L			0.5			ISO 9377-2, USEPA 1664 or HJ 637
Total Phenols / Phenol Index	mg/L			0.001			ISO 14402, APHA 5530B, C, D or HJ 503
Total Chlorine	mg/L			0.1			ISO 7393-2, EPA 330.5 or HJ 586
Total Dissolved Solids (TDS)	mg/L			5			APHA 2540C, GB/T 5750.4
Total Nitrogen	mg/L			5			ISO 5663, ISO 29411, USEPA 351.2, APHA 4500P-J, APHA 4500N-C/ HJ 636 or GB 11891
Total Phosphorus	mg/L			0.1			ISO 11885, ISO 6878, USEPA 365.4, APHA 4500P-J or GB/T 11893
Total Suspended Solids (TSS)	mg/L			5			ISO 11923, USEPA 160.2, APHA 2540D or GB/T 11901
% Solids	-	%			-		USEPA 160.3
Paint Filter Test	-	-			-		EPA SW-846 or EPA 9095B
Fecal Coliform	-	bacteria/100ml			-		EPA 1681



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Test Parameters	Unit		CAS No.	LOQ			Test methods
	Wastewater & Leachate	Sludge		Wastewater	Sludge	Leachate	
Anions							
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 HJ 484
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