

Date of sampling	03/09/2024
Reporting Date	10/09/2024

Audit ID	180087	Audit firm	INTERTEK - INDIA
Company name	R.S.PRINTFAB PRIVATE LIMITED		
Contact person	Mr. Deepak		
Type of tax - tax ID no	GSTIN - 09AACCL6901C1ZT		
Address	C-6,7,8/1,11, SITE C, SURAJPUR, GREATER NOIDA - GAUTAM BUDHH NAGAR - 201306 - UTTAR PRADESH		
Region state province	UTTAR PRADESH		
Town city / village	GAUTAM BUDHH NAGAR		
Zip/Post code	201306		
Country	INDIA		

Type of wastewater discharge				
Type of wastewater discharge:	Direct Discharge			
On-site effluent treatment plant (ETP):	YES			
Pre - treatment:	YES			
	Preliminary	Primary	Secondary/Biological	Tertiary
	<input checked="" type="checkbox"/> Screening/ Sieving/Grit Remover	<input checked="" type="checkbox"/> Coagulation/Flocculation	<input checked="" type="checkbox"/> Activated sludge process Aerobic reactor	<input checked="" type="checkbox"/> Absorption with activated carbon
	<input checked="" type="checkbox"/> Homogenization tank	<input type="checkbox"/> Dissolved air flotation (DAF)	<input type="checkbox"/> Biological Biofilm reactor (MBBR, SAF, RBC...)	<input type="checkbox"/> High rate filtration
	<input checked="" type="checkbox"/> pH correction	<input checked="" type="checkbox"/> Sedimentation tanks or Settler/Clarifier	<input type="checkbox"/> BSequencing batch reactor (SBR)	<input type="checkbox"/> Advanced oxidation techniques (Ozone, Fenton reaction, photo catalytic degradation...)
<input type="checkbox"/> Other	<input type="checkbox"/> Other	<input type="checkbox"/> Other	<input type="checkbox"/> Other	
<input type="checkbox"/> None				
Description of discharge:	After Treatment Discharge to Sewer			
[If direct discharge] ambient temperature of receiving water body (°C):	27.8			
Average total industrial wastewater generated (m3/day):	360			

Sludge Disposal Pathway	B
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Sampler accreditation certification number (ZDHC):		C74D106819557	
Sample description	Simple	Composite	Comments
(1) Untreated wastewater (BT)		[Voilet, composite sample at 10:00 ,11:00, 12:00, 01:00, 02:00, 03:00, 04:00] [Sampling location: Latitude 28.51, Longitude 77.50]	
(2) Effluent (AT)		[Lt. Yellow, composite sample at 10:05 ,11:05, 12:05, 01:05, 02:05, 03:05, 04:05] [Sampling location: Latitude 28.51, Longitude 77.50]	pH-7.4, Flow rate- 360 m3/day, Dissolved oxygen-7, Total chlorine-ND, Persistent foam-Absent, Temperature difference- 1.4 °C

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(3) Sludge	[Brown, Grab Sample at 03:30] [Sampling location: Latitude 28.51, Longitude 77.50]		[pH -9.86]
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Local Legal Data	
Local Legal Standard name [a]	UTTAR PRADESH POLLUTION CONTROL BOARD
Local legal standard no. [a]:	167844/U PPCB/GreaterNoida(U PPCBRO)/CTO/both/GREATER NOIDA/2022
Parameters (ZDHC WWSG V2.1, Table 2-3) exceeded local regulation:	No exceeded
Discharge permit provided:	Yes

Internal description – Intertek Lab Issuing Final Test Report	
Sampling laboratory	Intertek India Private Ltd.
Testing laboratory	Intertek India Private Ltd.
Date received sample	03/09/2024
Date and time of the beginning of sampling	03/09/2024, 10:00 AM
Date and time of the end of sampling	03/09/2024, 04:05 PM
Testing period	04/09/2024 to 10/09/2024
Reporting date	10/09/2024
Arrival Temperature at Lab	5.9°C
Internal codification number	DELC24009778
Reference sample number	DELC24009778
Comments	Sample received in good condition



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Summary of test results		
Wastewater/ MRSL - Test items	Testing period	Sample 1 (untreated)
Alkylphenols (APs) & Alkylphenol ethoxylates (APEOs)	04/09/2024 to 10/09/2024	ND
Anti - Microbials & Biocides	04/09/2024 to 10/09/2024	ND
Chlorinated parafins	04/09/2024 to 10/09/2024	ND
Chlorobenzenes and Chlorotoluenes	04/09/2024 to 10/09/2024	ND
Chlorophenols	04/09/2024 to 10/09/2024	ND
Dimethyl Formamide (DMFa) (*)	04/09/2024 to 10/09/2024	ND
Dyes – Carcinogenic or Equivalent Concern	04/09/2024 to 10/09/2024	ND
Dyes – Disperse (Allergenic)	04/09/2024 to 10/09/2024	ND
Dyes-Navy Blue Colourant	04/09/2024 to 10/09/2024	ND
Flame retardants	04/09/2024 to 10/09/2024	ND
Glycols	04/09/2024 to 10/09/2024	ND
Halogenated solvents	04/09/2024 to 10/09/2024	ND
Organotin compounds	04/09/2024 to 10/09/2024	ND
Other/Miscellaneous Chemicals (^)	04/09/2024 to 10/09/2024	ND
Perfluorinated chemicals (PFCs)	04/09/2024 to 10/09/2024	ND
Phthalates	04/09/2024 to 10/09/2024	ND
Polycyclic aromatic hydrocarbons (PAHs)	04/09/2024 to 10/09/2024	ND
Restricted Aromatic Amines (Cleavable from Azo- colourants) Azo dyes	04/09/2024 to 10/09/2024	ND
UV Absorbers	04/09/2024 to 10/09/2024	ND
Volatile organic compounds (VOCs)	04/09/2024 to 10/09/2024	ND



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Wastewater / Heavy metals - Test items	Testing period	Sample 2 (effluent)		
		Foundational	Progressive	Aspirational
Antimony	04/09/2024 to 10/09/2024			Meet
Chromium (VI)	04/09/2024 to 10/09/2024			Meet
Barium	04/09/2024 to 10/09/2024	Report only, refer data		
Selenium	04/09/2024 to 10/09/2024	Report only, refer data		
Tin	04/09/2024 to 10/09/2024	Report only, refer data		
Arsenic	04/09/2024 to 10/09/2024			Meet
Chromium (total)	04/09/2024 to 10/09/2024			Meet
Cobalt	04/09/2024 to 10/09/2024			Meet
Cadmium	04/09/2024 to 10/09/2024			Meet
Copper	04/09/2024 to 10/09/2024			Meet
Lead	04/09/2024 to 10/09/2024			Meet
Nickel	04/09/2024 to 10/09/2024			Meet
Silver	04/09/2024 to 10/09/2024			Meet
Zinc	04/09/2024 to 10/09/2024			Meet
Mercury	04/09/2024 to 10/09/2024			Meet

Wastewater / Conventional parameters - Test items	Testing period	Sample 2 (effluent)		
		Foundational	Progressive	Aspirational
pH <sup>[f]</sup>	04/09/2024 to 10/09/2024	Meet		
Temperature difference <sup>[f]</sup>	04/09/2024 to 10/09/2024			Meet
E.coli	04/09/2024 to 10/09/2024	Meet		
Colour	04/09/2024 to 10/09/2024			Meet
Persistent foam <sup>[f]</sup>	04/09/2024 to 10/09/2024	Report only, refer data		
Wastewater flowrate <sup>[f]</sup>	04/09/2024 to 10/09/2024	Report only, refer data		
Ammonium-Nitrogen	04/09/2024 to 10/09/2024			Meet
AOX	04/09/2024 to 10/09/2024			Meet
Biochemical Oxygen Demand (BOD <sub>5</sub> )	04/09/2024 to 10/09/2024	Meet		
Chemical Oxygen Demand (COD)	04/09/2024 to 10/09/2024		Meet	
Dissolved Oxygen (DO) <sup>[f]</sup>	04/09/2024 to 10/09/2024	Report only, refer data		
Oil & Grease	04/09/2024 to 10/09/2024			Meet
Total Phenols / Phenol Index	04/09/2024 to 10/09/2024			Meet
Total Chlorine <sup>[f]</sup>	04/09/2024 to 10/09/2024	Report only, refer data		
Total Dissolved Solids (TDS)	04/09/2024 to 10/09/2024	Report only, refer data		



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Total Nitrogen	04/09/2024 to 10/09/2024			Meet
Total Phosphorus	04/09/2024 to 10/09/2024			Meet
Total Suspended Solids (TSS)	04/09/2024 to 10/09/2024			Meet

Wastewater / Anions - Test items	Testing period	Sample 2 (effluent)		
		Foundational	Progressive	Aspirational
Chloride	04/09/2024 to 10/09/2024	Report only, refer data		
Cyanide, total	04/09/2024 to 10/09/2024			Meet
Sulfate	04/09/2024 to 10/09/2024	Report only, refer data		
Sulfide	04/09/2024 to 10/09/2024			Meet
Sulfite	04/09/2024 to 10/09/2024			Meet

Sludge / Heavy metals - Test items	Testing period	Sample 3: Sludge (Total)	Sample 3: Sludge (Leachate)
Antimony	04/09/2024 to 10/09/2024	Meet	
Arsenic	04/09/2024 to 10/09/2024	Meet	
Barium	04/09/2024 to 10/09/2024	Meet	
Cadmium	04/09/2024 to 10/09/2024	Meet	
Cobalt	04/09/2024 to 10/09/2024	Meet	
Copper	04/09/2024 to 10/09/2024	Meet	
Lead	04/09/2024 to 10/09/2024	Meet	
Nickel	04/09/2024 to 10/09/2024	Meet	
Selenium	04/09/2024 to 10/09/2024	Meet	
Silver	04/09/2024 to 10/09/2024	Meet	
Chromium (total)	04/09/2024 to 10/09/2024		Meet
Zinc	04/09/2024 to 10/09/2024	Meet	
Chromium VI	04/09/2024 to 10/09/2024	Meet	
Mercury	04/09/2024 to 10/09/2024	Meet	



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Sludge / Anion - Test items	Testing period	Sample 3: Sludge
Cyanide (s)	04/09/2024 to 10/09/2024	Report only, refer data

Sludge / Conventional parameters - Test items	Testing period	Sample 3: Sludge
pH	04/09/2024 to 10/09/2024	Meet
% Solids	04/09/2024 to 10/09/2024	Report only, refer data
Paint filter test	04/09/2024 to 10/09/2024	Report only, refer data
Faecal coliform (s)	04/09/2024 to 10/09/2024	Report only, refer data

Sludge / MRSL - Test items	Testing period	Sample 3: Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	04/09/2024 to 10/09/2024	Report only, refer data
Polycyclic Aromatic Hydrocarbons (PAHs)	04/09/2024 to 10/09/2024	Report only, refer data
Chlorotoluenes	04/09/2024 to 10/09/2024	Report only, refer data

### Remark (Indicated in each parameter)

ND = Not detected (less than ZDHC reporting limit for MRSL parameters) / Not detected (less than lab reporting limit for other parameters)

D = Detected

N/A = Not applicable (Out of scope according to ZDHC WWWSG v2.1)

NT = Not tested (Did not test according to applicant's request)

(S) = The samples were subcontracted to Intertek Food Lab for testing.

(T) = If sample temperature is greater than 8°C and less than 10°C when received from the laboratory.

(TT) = If sample temperature is exceeded 10°C when received from the laboratory.

@ = Maximum holding time exceeded.

(\*) = Sample and report for mock leather.

(^) = Borate, zinc salt would report ND when total boron or total zinc less than 100 µg/L.

<sup>(1)</sup> = On-site test by sampler.

[a] = The local legal standard name and legal standard no. is referenced to discharge permit (or contractual agree by CETP) that provided by applicant.

This report shown the test result of the environment samples of above factory which collected on specific date and time. The results of this report shall not be used for any regulatory compliance purposes.

For and on behalf of

For Intertek India Pvt. Ltd. [ Analytical- Gurgaon]



Ravindra Singh, Lab Manager- C&A

## Test results

## 1. Conventional parameters

Wastewater/ Conventional parameters - Test items	Test method (Please refer only to the SM used in the lab)	Limit			Lab Reporting Limit (Please refer to your RL)	Result sample 2 (effluent)	Unit
		Foundational	Progressive	Aspirational			
Temperature	IS 3025 (Part 9) Electrometric method only	35°C	30°C	25°C	N/A	29.2	°C
Temperature difference [°C]	IS 3025 (Part 9) Electrometric method only	Δ+15°C	Δ+10°C	Δ+5°C	N/A	1.4	[f] °C
TSS	IS3025 (Part 17)	50 mg/L	15 mg/L	5 mg/L	1	< 1	mg/L
Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	150 mg/L	80 mg/L	40 mg/L	4	70	mg/L
Total-N	IS 3025 (Part 34)	20 mg/L	10 mg/L	5 mg/L	0.5	< 0.5	mg/L
pH	IS 3025 (Part 11) Electrometric method only	6-9			N/A	7.4	[f] pH
Colour (436 nm ; 525 nm ; 620nm)	ISO 7887-B	7;5;3	5;3;2	2;1;1	N/A	1.2; 0.9;0.6	[m-1]
Biochemical Oxygen Demand (BOD5)	IS 3035 (Part 44)	30 mg/L	15 mg/L	8 mg/L	3	15.09	mg/L
Ammonium- Nitrogen	IS 3025 (Part 34)	10 mg/L	1 mg/L	0.5 mg/L	0.5	< 0.5	mg/L
Total-P	IS 3025 (Part 31) / IS 3025 (Part 65)	3 mg/L	0.5 mg/L	0.1 mg/L	0.02	< 0.02	mg/L
AOX	ISO 9562	3 mg/L	0.5 mg/L	0.1 mg/L	0.06	0.086	mg/L
Oil and grease	IS 3025 (Part 39)	10 mg/L	2 mg/L	0.5 mg/L	0.5	< 0.5	mg/L
Phenol	IS 3025 (Part 43)	0.5 mg/L	0.01 mg/L	0.001 mg/L	0.0005	< 0.0005	mg/L
E. Coli	SM 9221B presumptive, confirm positive with SM9221F or G	126 [MPN/100-ml]			1.8 MPN/100-ml	< 1.8	[MPN/100- ml]



Foam	Visual	Not visible	Not visible	Not visible	N/A	Absent	[f]
Cyanide	APHA 4500-CN	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.02	< 0.02	mg/L
Sulfide	IS 3025 (Part 29)	0.5 mg/L	0.05 mg/L	0.01 mg/L	0.02	< 0.02	mg/L
Sulphite	SM 4500-SO32-C /	2 mg/L	0.5 mg/L	0.2 mg/L	0.2	< 0.2	mg/L
Dissolved Oxygen (DO)	EPA 360.1 (Electrometric method only)	Sample and report only	Sample and report only	Sample and report only	0.1	7	[f] mg/L
Total Chlorine	EPA 330.5 (Electrometric method only)	Sample and report only	Sample and report only	Sample and report only	0.2	< 0.2	[f] mg/L
Total Dissolved Solids (TDS)	IS 3025 (Part 16)	Sample and report only	Sample and report only	Sample and report only	1	673	mg/L
Chloride	IS 3025 (Part 32)	Sample and report only	Sample and report only	Sample and report only	1	104.22	mg/L
Sulfate	IS 3025 (Part 24)	Sample and report only	Sample and report only	Sample and report only	1	41.98	mg/L
Wastewater Flowrate	N/A	N/A	N/A	N/A	N/A	360	[f] m3/day

Δ is the degree above ambient temperature of receiving water body.



**2. Heavy metals**

Modified from USEPA 6010C &amp; USEPA 6020A, ISO 18412 EPA (ICP-MS ANALYSIS)

Heavy metals	CAS no.	Limit			Lab Reporting limit (mg/L) (Please refer only to the RL in your lab.)	Result sample 2 (effluent)	Unit
		Foundational	Progressive	Aspirational			
Arsenic (As)	Various	0.05 mg/L	0.01 mg/L	0.005 mg/L	0.005	ND	mg/L
Cadmium (Cd)	Various	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01	ND	mg/L
Mercury (Hg)	Various	0.01 mg/L	0.005 mg/L	0.001 mg/L	0.001	ND	mg/L
Lead (Pb)	Various	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01	ND	mg/L
Antimony (Sb)	Various	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01	ND	mg/L
Cobalt (Co)	Various	0.05 mg/L	0.02 mg/L	0.01 mg/L	0.01	ND	mg/L
Nickel (Ni)	Various	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.05	ND	mg/L
Silver (Ag)	Various	0.1 mg/L	0.05 mg/L	0.005 mg/L	0.005	ND	mg/L
Copper (Cu)	Various	1 mg/L	0.5 mg/L	0.25 mg/L	0.25	ND	mg/L
Zinc (Zn)	Various	5.0 mg/L	1.0 mg/L	0.5 mg/L	0.5	ND	mg/L
Total Chromium (Cr)	Various	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.05	ND	mg/L
Chromium VI (Cr VI)	Various	0.05 mg/L	0.005 mg/L	0.001 mg/L	0.001	ND	mg/L
Barium	Various	Sample and Report only	Sample and Report only	Sample and Report only	0.01	0.195	mg/L
Selenium	Various	Sample and Report only	Sample and Report only	Sample and Report only	0.01	ND	mg/L
Tin	Various	Sample and Report only	Sample and Report only	Sample and Report only	0.01	ND	mg/L



**3. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers.**

NP/OP: Modified from ASTM D7065-17, ISO 18857-2 (LC-MS-MS ANALYSIS)

OPEO/NPEO (n&gt;2): Modified from ASTM D7065-17, ISO 18857-2 (LC-MS-MS ANALYSIS)

Alkylphenols (APs) & Alkylphenoethoxylates (APEOs)	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Octylphenol (OP), mixed isomers	140-66-9/ 1806-26-4/ 27193-28-8	5	ND	µg/L
Nonylphenol (NP), mixed isomers	104-40-5/ 11066-49-2/ 25154-52- 3/84852-15-3	5	ND	µg/L
Octylphenoethoxylates (OPEOs)	9002-93-1; 9036-19-5; 68987-90-6	5	ND	µg/L
Nonylphenoethoxylates (NPEOs)	9016-45-9/26027-38-3/ 37205-87- 1/68412-54-4/127087-87-0	5	ND	µg/L

**4. Chlorobenzenes & Chlorotoluenes**

Modified from US EPA 8270D &amp; US EPA 8270, (GC-MS ANALYSIS)

Chlorobenzenes & Chlorotoluenes	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Chlorobenzene	108-90-7	0.2	ND	µg/L
1,2-Dichlorobenzene	95-50-1	0.2	ND	µg/L
1,3-Dichlorobenzene	541-73-1	0.2	ND	µg/L
1,4-Dichlorobenzene	106-46-7	0.2	ND	µg/L
1,2,3-Trichlorobenzene	87-61-6	0.2	ND	µg/L
1,2,4-Trichlorobenzene	120-82-1	0.2	ND	µg/L
1,3,5-Trichlorobenzene	108-70-3	0.2	ND	µg/L
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	ND	µg/L
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2	ND	µg/L
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	ND	µg/L
Pentachlorobenzene	608-93-5	0.2	ND	µg/L
Hexachlorobenzene	118-74-1	0.2	ND	µg/L
2-Chlorotoluene	95-49-8	0.2	ND	µg/L
3-Chlorotoluene	108-41-8	0.2	ND	µg/L



4-Chlorotoluene	106-43-4	0.2	ND	µg/L
2,3-Dichlorotoluene	32768-54-0	0.2	ND	µg/L
2,4-Dichlorotoluene	95-73-8	0.2	ND	µg/L
2,5-Dichlorotoluene	19398-61-9	0.2	ND	µg/L
2,6-Dichlorotoluene	118-69-4	0.2	ND	µg/L
3,4-Dichlorotoluene	95-75-0	0.2	ND	µg/L
3,5-Dichlorotoluene	25186-47-4	0.2	ND	µg/L
2,3,4-Trichlorotoluene	7359-72-0	0.2	ND	µg/L
2,3,6-Trichlorotoluene	2077-46-5	0.2	ND	µg/L
2,4,5-Trichlorotoluene	6639-30-1	0.2	ND	µg/L
2,4,6-Trichlorotoluene	23749-65-7	0.2	ND	µg/L
3,4,5-Trichlorotoluene	21472-86-6	0.2	ND	µg/L
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	ND	µg/L
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	ND	µg/L
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	ND	µg/L
Pentachlorotoluene	877-11-2	0.2	ND	µg/L

**5. Chlorophenols**

Modified from USEPA 8270E extraction &amp; derivatization with KOH, acetic anhydride ( GC-MS ANALYSIS)

Chlorophenols	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
2-Chlorophenol	95-57-8	0.5	ND	µg/L
3-Chlorophenol	108-43-0	0.5	ND	µg/L
4-Chlorophenol	106-48-9	0.5	ND	µg/L
2,3-Dichlorophenol	576-24-9	0.5	ND	µg/L
2,4-Dichlorophenol	120-83-2	0.5	ND	µg/L
2,5-Dichlorophenol	583-78-8	0.5	ND	µg/L

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2,6-Dichlorophenol	87-65-0	0.5	ND	µg/L
3,4-Dichlorophenol	95-77-2	0.5	ND	µg/L
3,5-Dichlorophenol	591-35-5	0.5	ND	µg/L
2,3,4-Trichlorophenol	15950-66-0	0.5	ND	µg/L
2,3,5-Trichlorophenol	933-78-8	0.5	ND	µg/L
2,3,6-Trichlorophenol	933-75-5	0.5	ND	µg/L
2,4,5-Trichlorophenol	95-95-4	0.5	ND	µg/L
2,4,6-Trichlorophenol	88-06-2	0.5	ND	µg/L
3,4,5-Trichlorophenol	609-19-8	0.5	ND	µg/L
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	ND	µg/L
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	ND	µg/L
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	ND	µg/L
Pentachlorophenol (PCP)	87-86-5	0.5	ND	µg/L



**6. Restricted Aromatic Amines (Cleavable from Azo- colourants)**

Modified from ISO 14362-1 and ISO14362-3,Reduction step with sodium dithionite, solvent extraction(GC-MS ANALYSIS)

Azo Dyes	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1	ND	µg/L
4,4'-Diaminodiphenylmethane	101-77-9	0.1	ND	µg/L
4,4'-Oxydianiline	101-80-4	0.1	ND	µg/L
4-Chloroaniline	106-47-8	0.1	ND	µg/L
3,3'-Dimethoxybenzidine	119-90-4	0.1	ND	µg/L
3,3'-Dimethylbenzidine	119-93-7	0.1	ND	µg/L
p-Cresidine	120-71-8	0.1	ND	µg/L
2,4,5-Trimethylaniline	137-17-7	0.1	ND	µg/L
4,4'-Thiodianiline	139-65-1	0.1	ND	µg/L
4-Aminoazobenzene	60-09-3	0.1	ND	µg/L
4-methoxy-m-phenylenediamine	615-05-4	0.1	ND	µg/L
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	0.1	ND	µg/L
2,6-Xylidine	87-62-7	0.1	ND	µg/L
o-Anisidine	90-04-0	0.1	ND	µg/L
2-Naphthylamine	91-59-8	0.1	ND	µg/L
3,3'-Dichlorobenzidine	91-94-1	0.1	ND	µg/L
4-Aminobiphenyl	92-67-1	0.1	ND	µg/L
Benzidine	92-87-5	0.1	ND	µg/L
o-Toluidine	95-53-4	0.1	ND	µg/L
2,4-Xylidine	95-68-1	0.1	ND	µg/L
4-Chloro-o-toluidine	95-69-2	0.1	ND	µg/L



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4-Methyl-m-phenylenediamine	95-80-7	0.1	ND	µg/L
o-Aminoazotoluene	97-56-3	0.1	ND	µg/L
5-Nitro-o-toluidine	99-55-8	0.1	ND	µg/L
2-Naphthylammoniumacetate	553-00-4	0.1	ND	µg/L
2,4,5-trimethylaniline hydrochloride	21436-97-5	0.1	ND	µg/L
4-chloro-o-toluidinium chloride	3165-93-3	0.1	ND	µg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	0.1	ND	µg/L

### 7. Dyes – Carcinogenic or Equivalent Concern

Modified to Liquid extraction, (LC-MS-MS ANALYSIS)

Carcinogenic dyes	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
C.I. Direct Black 38	1937-37-7	500	ND	µg/L
C.I. Direct Blue 6	2602-46-2	500	ND	µg/L
C.I. Acid Red 26	3761-53-3	500	ND	µg/L
C.I. Basic Red 9	569-61-9	500	ND	µg/L
C.I. Direct Red 28	573-58-0	500	ND	µg/L
C.I. Basic Violet 14	632-99-5	500	ND	µg/L
C.I. Disperse Blue 1	2475-45-8	500	ND	µg/L
C.I. Disperse Blue 3	2475-46-9	500	ND	µg/L
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	500	ND	µg/L
C.I. Basic Green 4 (malachite green chloride)	569-64-2	500	ND	µg/L
C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	500	ND	µg/L
C.I. Basic Green 4 (malachite green)	10309-95-2	500	ND	µg/L
Disperse Orange 11	82-28-0	500	ND	µg/L



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Basic violet 3 with >0.1% of Michler's Ketone	548-62-9	500	ND	µg/L
C.I. Acid Violet 49	1694-09-3	500	ND	µg/L

**8. Dyes – Disperse (Allergenic)**

Modified to Liquid extraction, (LC-MS-MS ANALYSIS)

Disperse dyes	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Disperse Yellow 1	119-15-3	50	ND	µg/L
Disperse Blue 102	12222-97-8	50	ND	µg/L
Disperse Blue 106	12223-01-7	50	ND	µg/L
Disperse Yellow 39	12236-29-2	50	ND	µg/L
Disperse Orange 37/59/76	13301-61-6	50	ND	µg/L
Disperse Brown 1	23355-64-8	50	ND	µg/L
Disperse Orange 1	2581-69-3	50	ND	µg/L
Disperse Yellow 3	2832-40-8	50	ND	µg/L
Disperse Red 11	2872-48-2	50	ND	µg/L
Disperse Red 1	2872-52-8	50	ND	µg/L
Disperse Red 17	3179-89-3	50	ND	µg/L
Disperse Blue 7	3179-90-6	50	ND	µg/L
Disperse Blue 26	3860-63-7	50	ND	µg/L
Disperse Yellow 49	54824-37-2	50	ND	µg/L
Disperse Blue 35	12222-75-2	50	ND	µg/L
Disperse Blue 124	61951-51-7	50	ND	µg/L
Disperse Yellow 9	6373-73-5	50	ND	µg/L
Disperse Orange 3	730-40-5	50	ND	µg/L



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Disperse Blue 35	56524-77-7	50	ND	µg/L
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### 9. Flame retardants

Other flame retardant substances: Modified from USEPA 8270E, Dichloromethane extraction GC-MS & LC-MS-MS ANALYSIS)

Borate salt: Determined as total Boron via ICP-OES ANALYSIS

Flame retardants	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	ND	µg/L
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	ND	µg/L
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	ND	µg/L
Bis(2,3-dibromopropyl) phosphate	5412-25-9	25	ND	µg/L
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	25	ND	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	25	ND	µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	25	ND	µg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	25	ND	µg/L
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	ND	µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	25	ND	µg/L
Dibromobiphenyls (DiBB)	Various	25	ND	µg/L
Octabromobiphenyls (OctaBB)	Various	25	ND	µg/L
Dibromopropylether	21850-44-2	25	ND	µg/L





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Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	ND	µg/L
Monobromobiphenyls (MonoBB)	Various	25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Various	25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Various	25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Various	25	ND	µg/L
Boric acid**	10043-35-3 / 11113-50-1	100 in Boron	ND	µg/L
Diboron trioxide**	1303-86-2	100 in Boron	ND	µg/L
Disodium octaborate**	12008-41-2	100 in Boron	ND	µg/L
Disodium tetraborate anhydrous**	1303-96-4 / 1330-43-4	100 in Boron	ND	µg/L
Tetraboron disodium heptaoxide, hydrate**	12267-73-1	100 in Boron	ND	µg/L

\*\* Report total boron directly, no conversion from Boron salt.



**10. Glycols**

Modified from USEPA 8270E (GC-MS ANALYSIS)

Glycols	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Bis(2-methoxyethyl)-ether	111-96-6	50	ND	µg/L
2-ethoxyethanol	110-80-5	50	ND	µg/L
2-ethoxyethyl acetate	111-15-9	50	ND	µg/L
Ethylene glycol dimethyl ether	110-71-4	50	ND	µg/L
2-methoxyethanol	109-86-4	50	ND	µg/L
2-methoxyethylacetate	110-49-6	50	ND	µg/L
2-methoxypropylacetate	70657-70-4	50	ND	µg/L
Triethylene glycol dimethyl ether	112-49-2	50	ND	µg/L

**11. Halogenated solvents**

Modified from USEPA 8260 (Headspace GC-MS ANALYSIS)

Chlorinated solvents	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
1,2-Dichloroethane	107-06-2	1	ND	µg/L
Methylene chloride	75-09-2	1	ND	µg/L
Trichloroethene	79-01-6	1	ND	µg/L
Tetrachloroethene	127-18-4	1	ND	µg/L

**12. Organotin compounds**

Modified from ISO 17353 Derivatization with NaB (C2H5) (GC-MS ANALYSIS)

Organotin compounds	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Mono-, di-and tri-methyltin derivatives	Various	0.01	ND	µg/L
Mono-, di-and tri-butyltin derivatives	Various	0.01	ND	µg/L
Mono-, di-and tri-phenyltin derivatives	Various	0.01	ND	µg/L
Mono-, di-and tri-octyltin derivatives	Various	0.01	ND	µg/L
Tricyclohexyltin (TCyHT)	Various	0.01	ND	µg/L
Dipropyltin compounds (DPT)	Various	0.01	ND	µg/L
Tetrabutyltin compounds (TeBT)	Various	0.01	ND	µg/L
Tripropyltin Compounds (TPT)	Various	0.01	ND	µg/L

Tetraoctyltin compounds (TeOT)	Various	0.01	ND	µg/L
Tetraethyltin Compounds (TeET)	Various	0.01	ND	µg/L

**13. Phthalates**

Modified from USEPA 8270E, Dichloromethane extraction (GC-MS ANALYSIS)

Phthalates	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	10	ND	µg/L
Dimethoxyethyl phthalate (DMEP)	117-82-8	10	ND	µg/L
Di-n-octyl phthalate (DNOP)	117-84-0	10	ND	µg/L
Di-iso-decyl phthalate (DIDP)	26761-40-0/68515-49-1	10	ND	µg/L
Di-iso-nonyl phthalate (DINP)	28553-12-0/68515-48-0	10	ND	µg/L
Di-n-hexyl phthalate (DnHP)	84-75-3	10	ND	µg/L
Dibutyl phthalate (DBP)	84-74-2	10	ND	µg/L
Butyl benzyl phthalate (BBP)	85-68-7	10	ND	µg/L
Diethyl phthalate (DEP)	84-66-2	10	ND	µg/L
Di-n-propyl phthalate (DPRP)	131-16-8	10	ND	µg/L
Di-iso-butyl phthalate (DIBP)	84-69-5	10	ND	µg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	ND	µg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C6-11-branched alkyl esters, C7-rich (DIHP)	71888-89-6	10	ND	µg/L
Di-n-pentylphthalates	131-18-0	10	ND	µg/L
Diisopentylphthalates	605-50-5	10	ND	µg/L
Dinonyl phthalate (DNP)	84-76-4	10	ND	µg/L



**14. Perfluorinated chemicals (PFCs)**

PFCs: Modified from EPA 8270, LC-MS-MS ANALYSIS

FTOH: Modified from EPA 8270, LC-MS-MS ANALYSIS

Perfluorinated chemicals (PFCs)	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Perfluoro-octanoic acid (PFOA)	335-67-1	0.01	ND	µg/L
Perfluoro-octane-sulfonic acid (L-PFOS)	1763-23-1	0.01	ND	µg/L
Perfluoro-octane-sulfon-amide (PFOSA)	754-91-6	0.01	ND	µg/L
N-Methyl-perfluoro-octane-sulfon-amide (N-Me-FOSA)	31506-32-8	0.01	ND	µg/L
N-Ethyl-perfluoro-octane-sulfon-amide (N-Et-FOSA)	4151-50-2	0.01	ND	µg/L
N-Methyl-perfluoro-octane-sulfon-amido-ethanol (N-Me-FOSE alcohol)	24448-09-7	0.01	ND	µg/L
N-Ethyl-Perfluoro-octane-sulfon-amido-ethanol (N-Et-FOSE alcohol)	1691-99-2	0.01	ND	µg/L
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	1	ND	µg/L
2-Perfluorooctylethanol (8:2 FTOH)	678-39-7	1	ND	µg/L
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	1	ND	µg/L
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	1	ND	µg/L
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	1	ND	µg/L
Ethyl perfluorooctanoate Et-PFOA	3108-24-5	1	ND	µg/L

**15. Polycyclic aromatic hydrocarbons (PAHs)**

Modified from USEPA 8270E Solvent extraction (GC-MS ANALYSIS)

Polycyclic aromatic hydrocarbons (PAHs)	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Benzo(a)pyrene (BaP)	50-32-8	1	ND	µg/L
Anthracene	120-12-7	1	ND	µg/L
Pyrene	129-00-0	1	ND	µg/L
Benzo(ghi)perylene	191-24-2	1	ND	µg/L
Benzo(e)pyrene	192-97-2	1	ND	µg/L
Indeno (1,2,3-cd)pyrene	193-39-5	1	ND	µg/L
Benzo(j)fluoranthene	205-82-3	1	ND	µg/L
Benzo(b)fluoranthene	205-99-2	1	ND	µg/L
Fluoranthene	206-44-0	1	ND	µg/L
Benzo(k)fluoranthene	207-08-09	1	ND	µg/L

Acenaphthylene	208-96-8	1	ND	µg/L
Chrysene	218-01-9	1	ND	µg/L
Dibenz(a,h)anthracene	53-70-3	1	ND	µg/L
Benzo(a)anthracene	56-55-3	1	ND	µg/L
Acenaphthene	83-32-9	1	ND	µg/L
Phenanthrene	85-01-8	1	ND	µg/L
Fluorene	86-73-7	1	ND	µg/L
Naphthalene	91-20-3	1	ND	µg/L

**16. Volatile organic compounds (VOCs)**

Modified from USEPA 8260D Headspace GC-MS-ANALYSIS

Volatile organic compounds (VOCs)	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
Benzene	71-43-2	1	ND	µg/L
Xylene	1330-20-7	1	ND	µg/L
o-cresol	95-48-7	1	ND	µg/L
p-cresol	106-44-5	1	ND	µg/L
m-cresol	108-39-4	1	ND	µg/L
Toluene*	108-88-3	1	ND	µg/L

(\*) = Sample and report for mock leather.

**17. Anti - Microbials & Biocides**

OPP, Triclosan: Modified from USEPA 8270E, Extraction &amp; derivatization with KOH, acetic anhydride (GC-MS Analysis)

Permethrin: Modified from USEPA 8270E, (GC-MS ANALYSIS)

Anti - Microbials & Biocides	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater)	Unit
o-Phenylphenol (+salts)	90-43-7	100	ND	µg/L
Triclosan	3380-34-5	100	ND	µg/L
Permethrin	Multiple	500	ND	µg/L

**18. Chlorinated paraffins**

For MCCP: Modified from ISO18219-2:2021 ( GC-MS-NCI ANALYSIS)

For SCCP: Modified from ISO 18219-1:2021 ( GC-MS-NCI ANALYSIS)

Chlorinated paraffins	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater )	Unit
Short-chain Chlorinated paraffin (C10 – C13)	85535-84-8	25	ND	µg/L
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	500	ND	µg/L

**19. Dimethyl Formamide (DMFa) (\*)**

Modified from EPA 8270E (GC-MS ANALYSIS)

N,N-di-methylformamide (DMFa)	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater )	Unit
Dimethyl formamide; N,N-dimethylformamide	68-12-2	1000	ND	µg/L

(\*) = Sample and report for mock leather.

**20. Dyes-Navy Blue Colourant**

Modified to Liquid extraction, (LC-MS-MS ANALYSIS)

Dyes-Navy Blue Colourant	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater )	Unit
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	500	ND	µg/L
Component 2: C46H-30CrN10O20S2 3Na	Not Allocated	500	ND	µg/L

**21. Other/Miscellaneous Chemicals (^)**

Others: Modified to Liquid extraction, (LC-MS-MS ANALYSIS)

Borate salt: Determined as total Boron via ICP-OES ANALYSIS

Other/Miscellaneous Chemicals	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater )	Unit
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500	ND	µg/L
Bisphenol A	80-05-7	10	ND	µg/L
Thiourea	62-56-6	50	ND	µg/L
Quinoline	91-22-5	50	ND	µg/L
Borate, zinc salt (^^)	12767-90-7	100 in Boron & 100 in Zinc	Boron:ND Zinc:ND	µg/L

^^ = Report total boron &amp; total zinc individually, and no conversion from boron / zinc salt.

**22. UV Absorbers**

Modified from USEPA 8270, Dichloromethane extraction (GC-MS ANALYSIS)

UV Absorbers	CAS no.	ZDHC Reporting limit (µg/L)	Result Sample 1 (Untreated wastewater )	Unit
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol(UV-350)	36437-37-3	100	ND	µg/L
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	100	ND	µg/L
2-benzotriazol-2-yl-4,6-di-tertbutylphenol	3846-71-7	100	ND	µg/L

2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	100	ND	µg/L
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**23. Sludge Parameters – Step 1 - Metals**

Other heavy metals: Modified from EPA 3050 ( ICP-MS ANALYSIS)

Chromium VI: : Modified from USEPA 3060a (LC-ICP-MS ANALYSIS)

Mercury: : Modified from EPA 7471 b EPA 3051a (ICP-ANALYSIS)

Sludge Parameters – Step 1 - Metals	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
Antimony	5	5	ND	mg/kg
Arsenic	5	5	ND	mg/kg
Barium	200	200	ND	mg/kg
Cadmium	1	1	ND	mg/kg
Cobalt	400	400	ND	mg/kg
Copper	50	50	ND	mg/kg
Lead	5	5	ND	mg/kg
Nickel	20	20	ND	mg/kg
Selenium	5	5	ND	mg/kg
Silver	50	50	ND	mg/kg
Total Chromium	50	50	176.24	mg/kg
Zinc	400	400	ND	mg/kg
Chromium (VI)	20	20	ND	mg/kg
Mercury	1	1	ND	mg/kg

**24. Sludge Parameters – Step 1 - Anions**

Modified from USEPA 9013, USEPA 9014, USEPA 9213, HJ745 with Colorimetry analysis.

Sludge Parameters – Step 1 - Anions	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
Cyanide	20	20	ND	mg/kg

**25. Sludge Parameters - Step 1 – Conventional**

Sludge Parameters – Step 1 - Conventional	Test method	Lab reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
pH	USEPA SW 9045D	N/A	9.86	N/A
% Solids	USEPA 160.3	N/A	37	%
Paint Filter Test	USEPA 9095B	N/A	Pass	N/A
Fecal Coliform	USEPA 1681	1.8	26	MPN/g

^ - Report "Pass" when Paint Filter Test does not contain free liquid; Report "Fail" when Paint Filter Test does contain free liquid.

**26. Sludge Parameters - Step 1 - MRSL - Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers.**

Modified from ASTM D7065-17, ISO 18857-2 (LC-MS-MS ANALYSIS)

Sludge Parameters - Step 1 - MRSL - Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
Nonylphenol ethoxylates (NPEO)	9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	0.4	ND	mg/kg
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	0.4	ND	mg/kg
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	0.4	ND	mg/kg
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	0.4	ND	mg/kg



## 27. Sludge Parameteres - Step 1 - MRSL - PolycyclicAromatic Hydrocarbons (PAHs)

Modified from USEPA 8270E Solvent extraction (GC-MS ANALYSIS)

Sludge Parameteres - Step 1 - MRSL - Polycyclic Aromatic Hydrocarbons (PAHs)	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight))	Unit
Acenaphthene	83-32-9	0.2	ND	mg/kg
Acenaphthylene	208-96-8	0.2	ND	mg/kg
Anthracene	120-12-7	0.2	ND	mg/kg
Benzo[a]anthracene	56-55-3	0.2	ND	mg/kg
Benzo[a]pyrene (BaP)	50-32-8	0.2	ND	mg/kg
Benzo[b]fluoranthene	205-99-2	0.2	ND	mg/kg
Benzo[e]pyrene	192-97-2	0.2	ND	mg/kg
Benzo[ghi]perylene	191-24-2	0.2	ND	mg/kg
Benzo[j]fluoranthene	205-82-3	0.2	ND	mg/kg
Benzo[k]fluoranthene	207-08-9	0.2	ND	mg/kg
Chrysene	218-01-9	0.2	ND	mg/kg
Dibenz[a,h]anthracene	53-70-3	0.2	ND	mg/kg
Fluoranthene	206-44-0	0.2	ND	mg/kg
Fluorene	86-73-7	0.2	ND	mg/kg
Indeno[1,2,3-cd]pyrene	193-39-5	0.2	ND	mg/kg
Naphthalene	91-20-3	0.2	ND	mg/kg
Phenanthrene	85-01-8	0.2	ND	mg/kg
Pyrene	129-00-0	0.2	ND	mg/kg

**28. Sludge Parameters - Step 1 - MRSL – Chlorotoluenes**

Modified from US EPA 8270D &amp; US EPA 8270, (GC-MS ANALYSIS)

Sludge Parameters - Step 1 - MRSL – Chlorotoluenes	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
2-Chlorotoluene	95-49-8	0.2	ND	mg/kg
3-Chlorotoluene	108-41-8	0.2	ND	mg/kg
4-Chlorotoluene	106-43-4	0.2	ND	mg/kg
2,3-Dichlorotoluene	32768-54-0	0.2	ND	mg/kg
2,4-Dichlorotoluene	95-73-8	0.2	ND	mg/kg
2,5-Dichlorotoluene	19398-61-9	0.2	ND	mg/kg
2,6-Dichlorotoluene	118-69-4	0.2	ND	mg/kg
3,4-Dichlorotoluene	95-75-0	0.2	ND	mg/kg
3,5-Dichlorotoluene	25186-47-4	0.2	ND	mg/kg
2,3,4-Trichlorotoluene	7359-72-0	0.2	ND	mg/kg
2,3,6-Trichlorotoluene	2077-46-5	0.2	ND	mg/kg
2,4,5-Trichlorotoluene	6639-30-1	0.2	ND	mg/kg
2,4,6-Trichlorotoluene	23749-65-7	0.2	ND	mg/kg
3,4,5-Trichlorotoluene	21472-86-6	0.2	ND	mg/kg
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	ND	mg/kg
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	ND	mg/kg
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	ND	mg/kg
Pentachlorotoluene	877-11-2	0.2	ND	mg/kg



**29. Sludge Parameters - Step 2 – Metals**

Other heavy metals: Modified from EPA 3050 ( ICP-MS ANALYSIS)

Chromium VI: : Modified from USEPA 3060a (LC-ICP-MS ANALYSIS)

Mercury: : Modified from EPA 7471 b EPA 3051a (ICP-ANALYSIS)

Sludge Parameters - Step 2 – Metals	Lab Reporting limit (mg/L)	Result Sample 3 (Sludge)	Unit
Antimony	0.6	N/A	mg/L
Arsenic	0.5	N/A	mg/L
Barium	35	N/A	mg/L
Cadmium	0.15	N/A	mg/L
Cobalt	80	N/A	mg/L
Copper	10	N/A	mg/L
Lead	0.5	N/A	mg/L
Nickel	3.5	N/A	mg/L
Selenium	0.5	N/A	mg/L
Silver	5	N/A	mg/L
Total Chromium	5	ND	mg/L
Zinc	50	N/A	mg/L
Chromium (VI)	2.5	N/A	mg/L
Mercury	0.05	N/A	mg/L

## Appendix 1: Reference to ZDHC WWSG v2.1 Table 4B

Parameters	Total metals and anions threshold values (mg/kg)	Disposal pathways						
		A and B (Leachate result in mg/L)	C (Leachate result in mg/L)	D (Leachate result in mg/L)	E (Leachate result in mg/L)	F (Leachate result in mg/L)	G (Leachate result in mg/L)	G (Total metals limit in mg/kg)
Arsenic	10	Report only if required to test	5	2.75	0.5	0.5	0.5	75
Cadmium	3		1	0.58	0.15	0.15	0.15	85
Total Chromium	100		15	10	5	5	5	3000
Lead	10		5	2.75	0.5	0.5	0.5	840
Antimony	12		15	7.8	0.6	0.6	0.6	Sample and report only
Barium	700		100	67.5	35	35	35	
Cobalt	1600		80	80	80	80	80	
Copper	200		25	17.5	10	10	10	4300
Nickel	70		20	11.75	3.5	3.5	3.5	420
Selenium	10		1	0.75	0.5	0.5	0.5	100
Silver	100		5	5	5	5	5	Sample and report only
Zinc	1000		250	150	50	50	50	7500
Chromium VI	50		5	3.75	2.5	2.5	2.5	50
Mercury	1		0.2	0.125	0.05	0.05	0.05	57



**Appendix 2: reference to ZDHC WWSG v2.1 Table 4C**

Parameters	Disposal pathways						
	A and B	C	D	E	F	G	
pH	Sample and report only	5 – 11 s.u.	5 – 11 s.u.	5 – 11 s.u.	6.5 – 9 s.u.	6.5 – 9 s.u.	
% Solids		Sample and report only	Sample and report only	Sample and report only	Sample and report only	Sample and report only	
Fecal Coliform							< 1000 (MPN/g)
Paint Filter Test		Pass Paint filter test					Sample and report only
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers		< 0.4 mg/kg					
Polycyclic Aromatic Hydrocarbons (PAHs)		< 0.2 mg/kg					
Chlorotoluenes							

**Appendix 2: reference to ZDHC WWSG v2.1 Table 4D**

Parameters	Disposal pathways					
	A and B	C	D	E	F	G
Cyanide	Report only if required to test	100 mg/kg	85 mg/kg	70 mg/kg	70 mg/kg	70 mg/kg

Photo of sampling points:



Photo of wastewater before treatment (untreated)

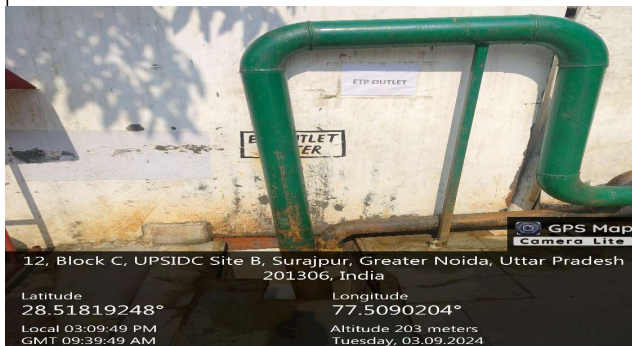


Photo of effluent

Photo of sludge

Photo of samples:



Photo of untreated wastewater



Photo of effluent

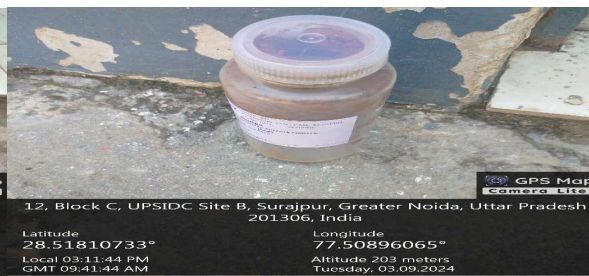


Photo of sludge



SAMPLING PROTOCOL (PAGE 1 OF 3)

intertek ZDHC Monitoring  
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Sampling Protocol for Wastewater and Sludge acc. ZDHC SAP 2.1 incl. Apdx. E

Facility Name: R.S Point Fab Pvt Ltd.

Address and Contact: C-6, 7, 8/1, 11, Site C, Surajpur, Greater Noida - 201306, Gramam Budh Nagar

Facility type: (tick all applicable)  Dyeing and Finishing  Fabric Mill  Laundry, Washing and Finishing  Natural Leather processing  Printing  Synthetic Leather processing

Date of sampling: 03/09/24

Sample General ID (if applicable):  direct discharge  indirect discharge  Zero Liquid Discharge (ZLD)  MMCF  with pre-treatment  without treatment  with own ETP discharge to: Sewer

Discharge description: After Treatment discharge to sewer

Weather conditions: on sampling day: Sunny day on day before: Sunny day

Fill in all above information as applicable.

Sample Type and Details (see also page 2)

Effluent  direct: or  indirect Discharge

Enter sampling times in Sample Details (page 2), and measure field parameters.

Enter sampling time(s) for indirect discharge. Field parameters are not required, except on client's request.

Facility has WWTP  Plant is in operating condition

with Equalisation Tank (EQT) present: Hydraulic Retention Time (HRT): 1.2 h (= Volume of tank [m³] / Flow rate [m³/h]) If HRT > 12h, grab sampling from EQT is allowed.

Pre-treated WW without sludge  Untreated WW  with Equalisation Tank (EQT) present: HRT: 1.2 h (= Volume of tank [m³] / Flow rate [m³/h]) If HRT > 12h, grab sampling from EQT is allowed.  Incoming Water  MMCF

Sludge with below disposal pathway\*):  A  B  C  D  E  F  G age of sludge: \_\_\_\_\_ days / weeks

>1000 °C offsite incineration Landfill with significant control Building products processed >1000 °C Landfill with limited control Incineration / Building products processed <1000 °C Landfill with no control Land application

) if supplier cannot provide information, pathway "F" shall be assumed.

Sludge volume generated: \_\_\_\_\_ Om³/h  L/sec  other unit (specify): \_\_\_\_\_  per facility info  measured  estimated

Process Chemical  liquid  solid (powder/granulate/pieces)  from running process  from warehouse/storage

Times of sampling (if applicable)	Untreated:	1	2	3	4	5	6	7	or Grab (HRT>12h):
	Effluent (indirect) <sup>1)</sup> :	10:00	11:00	12:00	1:00	2:00	3:00	4:00	or Grab (HRT>12h):
	Incoming: <sup>2)</sup>	1	2	3	4	5	6	7	or Grab <sup>2)</sup> (HRT>12h):
	Sludge (liquid):	1	2	3	4	5	6	7	Solid sludge: <u>3:30 PM</u>

or direct discharge, see p. 2

Take grab sample for tap water, river water, and industrial treated river water without EQT; recycled water from EQT <12h must be composite.

Picture ID (or Date & Time / Interval): 03/09/2024/12:05 GPS coordinates of sampling points:

Incoming W.:	Lat.: ON OS	Long.: OE OW
Untreated WW:	Lat.: ON OS <u>28.57</u>	Long.: OE OW <u>77.50</u>
Effluent:	Lat.: ON OS <u>28.57</u>	Long.: OE OW <u>77.50</u>
Sludge:	Lat.: ON OS <u>28.57</u>	Long.: OE OW <u>77.50</u>



SAMPLING PROTOCOL (PAGE 2 OF 3)

**intertek** ZDHC Monitoring  
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**Sample Details** <sup>2)</sup> Field parameters usually are only required for direct discharge. If client requests also for indirect discharge, use below fields.

Composite Sample       Grab Sample (only allowed from EQT of Effluent with HRT>12h)  
(enter data in column for Averaged Readings and in field at right)      Volume of aliquot(s): \_\_\_\_\_ mL

Time of discrete effluent sample**	1	2	3	4	5	6	7	Averaged Readings or Grab Sample readings:
pH:	10:05 7.5	11:05 7.4	12:05 7.8	01:05 7.6	02:05 7.4	03:05 7.3	04:05 7.4	7.4
Temp. WW discharge	28 °C	30 °C	29 °C	30 °C	29 °C	30 °C	29 °C	29.2 °C
of receiving water	27 °C	29 °C	28 °C	28 °C	28 °C	27 °C	28 °C	27.8 °C
Flow rate:	8.3 L/s	8.4 L/s	8.4 L/s	8.4 L/s	8.3 L/s	8.3 L/s	8.4 L/s	360 m <sup>3</sup> /d avg.
Dissolved Oxygen:	7 mg/L	7 mg/L	7 mg/L	7 mg/L	7 mg/L	7 mg/L	7 mg/L	7 mg/L
Total Chlorine:	0 mg/L	0 mg/L	0 mg/L	0 mg/L	0 mg/L	0 mg/L	0 mg/L	0 mg/L
Persistent foam:	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	NO

\*\* time when discrete sample for composite was taken. Use comment field if number of samples is greater than seven, or if above fields are otherwise not sufficient.  
Note: 1.0 m<sup>3</sup>/h = 0.27 L/s; 1.0 L/s = 86.4 m<sup>3</sup>/d; 1 m<sup>3</sup>/h = 0.042 m<sup>3</sup>/d; multiply the flow rate in m<sup>3</sup>/h by the daily operation time of the ETP to get flow rate in m<sup>3</sup>/d;

sampling procedure:  automated sampling     with beaker/bowl     other: \_\_\_\_\_

**Wastewater Flow Data (Effluent/Discharge)**

System:  Flow meter (in facility)     Pipe (O)     Flume (U)     Wier (V)

Diameter [cm] \_\_\_\_\_

Water Depth [cm] \_\_\_\_\_

Flow Speed [cm/sec] \_\_\_\_\_

**General Field Parameters and Sensory Data** (enter as far as applicable)

Type	Ambient air [°C]	Odour	Colour	Foaming	Floating matter
incoming				<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no
untreated			Trace	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
fluent			Lt. yellow	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
udge			Brown		

**Field Testing QA/QC**

Parameter	Lab Control Sample target value	Lab Control Sample measured value	Accuracy [%]
pH	7.0	7.4	104.7
Total Chlorine	199.0	200	100.5

Other observations:

Additional notes (e.g., alternatively measured flow and readings, abbreviations used, etc):





SAMPLING PROTOCOL (PAGE 3 OF 3)



# ZDHC Monitoring

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**ZDHC Wastewater Sampling - Facility Confirmation**

The Wastewater samples have been collected under the facility's normal production scale and wastewater flow rate. The sampler listed below was on-site and collected the samples.

Sampling person (name & email address):

Anil Rana (anil.rana@intertek.com)

Facility Name:

R.S Print Fab Pvt Ltd.

Sampler's ZDHC accreditation no.:

C740106819557

Facility's Representative name:

Mr. Deepak

For R.S. PRINTFAB PVT. LTD.

Sampler's Signature:



Facility's Representative Signature and Stamp:

Authorised Signatory



Document on sludge disposal or licensed third-party waste contractor for sludge disposal.

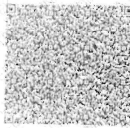


**INDIA NON JUDICIAL**  
**Government of Uttar Pradesh**

e-Stamp

CHAND STAMP DUTY  
LIC No: UP14087504  
Licence No.- 499  
Civil Court, Ghaziabad

Certificate No.	: IN-UP89579319486403V
Certificate Issued Date	: 20-Apr-2023 12:00 PM
Account Reference	: NEWIMPACC (SV)/ up14087504/ GHAZIABAD SADAR/ UP-GZB
Unique Doc. Reference	: SUBIN-UPUP1408750473559019889305V
Purchased by	: SHEETALA WASTE MANAGEMENT PROJECT
Description of Document	: Article 5 Agreement or Memorandum of an agreement
Property Description	: Not Applicable
Consideration Price (Rs.)	:
First Party	: SHEETALA WASTE MANAGEMENT PROJECT
Second Party	: Not Applicable
Stamp Duty Paid By	: SHEETALA WASTE MANAGEMENT PROJECT
Stamp Duty Amount(Rs.)	: 100 (One Hundred only)



Please write or type below the line

**AGREEMENT**

This agreement made on this Day 28th of April 2023 between M/s. R S PRINT FAB PVT LTD. is register as a Private Limited , having its registered Office at PLOT NO. C - 7, C - 8/1, C-6, & C-11, SITE - C, UPSIDC,SURAJPUR, INDUSTRIAL AREA, GREATER NOIDA, UP,201306 ,AND its Plant located at PLOT NO. C - 7, C - 8/1, C-6, & C-11, SITE - C, UPSIDC,SURAJPUR, INDUSTRIAL AREA, GREATER NOIDA, UP,201306 , (hereinafter called as "FIRST PART" which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors nominees and assigns of the First Part).

For R.S. PRINTFAB PVT. Ltd.  
  
Director

AND  
Page 1



\*\*\*\*\*

End of report

This report is made solely on the basis of your instructions and/or information and materials supplied. Results refer only to samples received in the lab. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.

