

Test Report No.

DHKSL240076003

Date: 26/09/2024

Date of sampling	17/09/2024
Reporting date	26/09/2024

Audit ID	180457	Audit firm	SGS Bangladesh Ltd.
Company name	Blue Creations Ltd		
Contact person	Md. Shelon Hossain		
Type of tax – tax ID no	681362613410		
Address	Nama Bazar, Jitar Mor, Kashempur Shador, Kashimpur, Gazipur.		
Region state province	Gazipur		
Town city / village	Kashimpur		
Zip / Post code	1346		

Type of wastewater discharge	
Type of waste discharge	Direct Discharge
Description of the discharge	Discharge to City Corporation Drain
[If direct discharge] Temperature of receiving water body:	30.2 °C

Type of sludge disposal pathway	
Type of sludge disposal pathway	Pathway C

Sampler accreditation certification number (ZDHC):	ZDHC-A-23-E-C001068-R278A-C7A73		
Sampling affiliate	SGS Bangladesh Ltd.		
Sample description			
	Simple	Composite	Comments
(1) Untreated wastewater	NO	YES, Dark Blue, composite sample at 12:20, 13:20, 14:20, 15:20, 16:20, 17:20, 18:20	NA
(2) Effluent	NO	YES, Colourless, composite sample at 12:00, 13:00, 14:00, 15:00, 16:00, 17:00, 18:00	NA
(3) Sludge	YES, Black, Sample at 18:30	NO	NA
(4) Leachate	NA	NA	NA

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Type of treatment*	
PRELIMINARY	<input checked="" type="checkbox"/> Screening/Sieving/Grit remover (< 6 mm) <input checked="" type="checkbox"/> Screening/Sieving/Grit remover (≥ 6 mm) <input checked="" type="checkbox"/> Homogenization tank <input checked="" type="checkbox"/> pH Correction <input type="checkbox"/> Other (please specify):
PRIMARY	<input checked="" type="checkbox"/> Coagulation/Flocculation <input checked="" type="checkbox"/> Dissolved air flotation (DAF) <input checked="" type="checkbox"/> Sedimentation tanks or Settler/Clarifier <input type="checkbox"/> Other (please specify):
SECONDARY/BIOLOGICAL	<input checked="" type="checkbox"/> Activated sludge process. Aerobic reactor <input type="checkbox"/> Biological Biofilm reactor (MBBR, SAF, RBC..) <input type="checkbox"/> Sequencing batch reactor (SBR) <input type="checkbox"/> Other (please specify):
TERTIARY	<input type="checkbox"/> Absorption with activated carbon <input checked="" type="checkbox"/> High rate filtration <input type="checkbox"/> Techniques (ozone, Fenton reaction, photo catalytic degradation...) <input type="checkbox"/> Other (please specify):

*The information has been provided by the factory.

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Internal description – Final Test Report	
Testing laboratory	SGS Bangladesh Ltd.
Internal codification number (report number)	DHKSL240076003
Reference sample number (sample ID)	Untreated wastewater, Effluent, Sludge.
Received on	17/09/2024
Analysis carried out from	17/09/2024 to 26/09/2024
Arrival temperature at lab	6 °C
Comments	Samples received within 04:50 hours
Reporting date	26/09/2024

Sign for and on behalf of
SGS Bangladesh Ltd



RAFIQUL ISLAM
Chemical Lab Manager

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Summary of test results				
Test items	Untreated wastewater	Effluent	Sludge	Leachate
Conventional Parameters and Anions	-	Fulfill Foundational Limit	Please refer to the information in TEST RESULTS	-
Heavy Metals	-	Fulfill Aspirational Limit	Please refer to the information in TEST RESULTS	NA
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	ND	-	ND	-
Anti- Microbials & Biocides	ND	-	-	-
Chlorinated Parafins	ND	-	-	-
Chlorobenzenes & Chlorotoluenes	ND	-	ND	-
Chlorophenols	ND	-	-	-
N,N-di-methylformamide (DMFa)	ND	-	-	-
Dyes – Carcinogenic or Equivalent Concern	ND	-	-	-
Dyes – Disperse (Allergenic)	ND	-	-	-
Dyes – Navy Blue Colourant	ND	-	-	-
Flame Retardants	ND	-	-	-
Glycols / Glycol Ethers	ND	-	-	-
Halogenated Solvents	ND	-	-	-
Organotin Compounds	ND	-	-	-
Other / Miscellaneous Chemicals	ND	-	-	-
Perfluorinated and Polyfluorinated Chemicals (PFCs)	ND	-	-	-
Phthalates – including all other esters of ortho-phthalic acid	ND	-	-	-
Polycyclic Aromatic Hydrocarbons (PAHs)	ND	-	ND	-
Restricted Aromatic Amines (Cleavable from Azo-colourants)	ND	-	-	-
UV Absorbers	ND	-	-	-
VOCs	ND	-	-	-

Sludge disposal pathway	
Comply sludge disposal pathway	Yes

Remark (Indicated in each parameter)

- ND = Not detected
 D = Detected
 NA = Not applicable
 NC= Not conducted
 - = Not required to be tested
 @ = Maximum holding time exceeded

Test results

Wastewater

1. Conventional Parameters and Anions

Test Items	Test method	Limit			Reporting Limit	Result	Unit
		Foundational	Progressive	Aspirational		Effluent	
pH	APHA 4500H+B	Textile and Leather: 6-9			NA	7.3 (f)	-
Temperature Difference	APHA 2550	Textile and Leather: Δ+15	Textile and Leather: Δ+10	Textile and Leather: Δ+5	NA	1.2 (f)	°C
E. Coli	APHA 9221B & APHA 9221G	Textile and Leather: 126			126	ND	MPN/100mL
Colour (436nm; 525nm; 620nm)	ISO 7887 B	Textile and Leather: 7;5;3	Textile and Leather: 5;3;2	Textile and Leather: 2;1;1	NA	4;2;1	m ⁻¹
Persistent Foam	-	Textile and Leather: Not visible			NA	Not Visible	-
Wastewater Flowrate	-	-			NA	1784 (f)	m ³ /day
Ammonium-Nitrogen	APHA 4500 NH3 F	Textile: 10 Leather: 15	Textile: 1 Leather: 10	Textile: 0.5 Leather: 1	0.5	1.1	mg/L
AOX	ISO 9562	Textile: 3	Textile: 0.5	Textile: 0.1	0.1	0.8	mg/L
Biochemical Oxygen Demand 5-days concentration (BOD ₅)	APHA 5210 B	Textile: 30 Leather: 50	Textile: 15 Leather: 30	Textile: 8 Leather: 20	5	26	mg/L
Chemical Oxygen Demand (COD)	APHA 5220 D	Textile: 150 Leather: 250	Textile: 80 Leather: 150	Textile: 40 Leather: 100	40	128	mg/L
Dissolved Oxygen (DO)	APHA 4500-O-G	Textile and Leather: Sample and report only			0.5	6.2 (f)	mg/L
Oil and grease	APHA 5520-B/C	Textile: 10 Leather: 20	Textile: 2 Leather: 10	Textile: 0.5 Leather: 5	0.5	ND	mg/L
Total Phenols / Phenol Index	APHA 5530-B	Textile and Leather: 0.5	Textile:0.01 Leather: 0.3	Textile: 0.001 Leather: 0.1	0.001	ND	mg/L
Total Chlorine	APHA 4500-Cl-G	Textile and Leather: Sample and report only			0.5	0.5 (f)	mg/L
Total Dissolved Solids (TDS)	APHA 2540-C	Textile and Leather: Sample and report only			50	848	mg/L
Total Nitrogen	APHA 4500-N B/C	Textile: 20 Leather: 35	Textile: 10 Leather: 20	Textile: 5 Leather: 10	5	6	mg/L
Total Phosphorus	APHA 4500P-J	Textile and Leather: 3	Textile: 0.5 Leather: 1	Textile: 0.1 Leather: 0.5	0.1	ND	mg/L

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Total Suspended Solids (TSS)	APHA 2540D	Textile: 50 Leather: 70	Textile: 15 Leather: 50	Textile: 5 Leather: 20	5	26	mg/L
Chloride	APHA 4500-CI D	Textile and Leather: Sample and report only			1	34	mg/L
Cyanide	APHA 4500-CN-E	Textile: 0.2	Textile: 0.1	Textile: 0.05	0.05	ND	mg/L
Sulfate	APHA 4500-SO4 E	Textile and Leather: Sample and report only			5	279	mg/L
Sulfide	APHA 4500-S2-D	Textile: 0.5 Leather: 1	Textile: 0.05 Leather: 0.5	Textile: 0.01 Leather: 0.2	0.01	ND	mg/L
Sulfite	APHA 4500-SO32-C	Textile: 2	Textile: 0.5	Textile: 0.2	0.2	ND	mg/L

Remark

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NA = Not applicable

NC= Not conducted

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(f) = Parameter tested in field

= Non accredited parameter

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2. Heavy Metals

Cr (VI): ISO 18412:2005
 Ba, Se, Sn: USEPA 200.8, USEPA 6010 C, USEPA 6020 A
 Sb, As, Cr, Co: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A
 Cd: USEPA 200.8, USEPA 6010 C, USEPA 6020 A,
 Cu: USEPA 200.8, USEPA 6010 C, USEPA 6020 A,
 Pb: USEPA 200.8, USEPA 6010 C, USEPA 6020 A,
 Ni: USEPA 200.8, USEPA 6010 C, USEPA 6020 A,
 Ag: USEPA 200.8, USEPA 6010 C, USEPA 6020 A,
 Zn: USEPA 200.8, USEPA 6010 C, USEPA 6020 A,
 Hg: EPA 200.8, EPA 6020A
 B: USEPA 200.8, USEPA 6010C, USEPA 6020A

Test items	CAS no.	Limit			Reporting Limit	Result	Unit
		Foundational	Progressive	Aspirational		Effluent	
Arsenic (As)	Various	Textile and Leather: 0.05	Textile and Leather: 0.01	Textile and Leather: 0.005	0.005	ND	mg/L
Cadmium (Cd)	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.01	0.01	ND	mg/L
Mercury (Hg)	Various	Textile and Leather: 0.01	Textile and Leather: 0.005	Textile and Leather: 0.001	0.001	ND	mg/L
Lead (Pb)	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.01	0.01	ND	mg/L
Antimony (Sb) *	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.01	0.01	ND	mg/L
Cobalt (Co)	Various	Textile and Leather: 0.05	Textile and Leather: 0.02	Textile and Leather: 0.01	0.01	ND	mg/L
Nickel (Ni)	Various	Textile and Leather: 0.2	Textile and Leather: 0.1	Textile and Leather: 0.05	0.05	ND	mg/L
Silver (Ag)	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.005	0.005	ND	mg/L
Copper (Cu)	Various	Textile and Leather: 1	Textile and Leather: 0.5	Textile and Leather: 0.25	0.25	ND	mg/L
Zinc (Zn)	Various	Textile and Leather: 5	Textile and Leather: 1	Textile and Leather: 0.5	0.1	ND	mg/L
Total Chromium (Cr)	Various	Textile: 0.2 Leather: 1.5	Textile: 0.1 Leather: 0.8	Textile: 0.05 Leather: 0.3	0.05	ND	mg/L
Chromium VI (Cr VI)	Various	Textile: 0.05 Leather: 0.15	Textile: 0.005 Leather: 0.05	Textile: 0.001 Leather: 0.02	0.001	ND	mg/L
Barium (Ba)	Various	Textile: Sample and report only			35	ND	mg/L
Selenium (Se)	Various	Textile: Sample and report only			0.5	ND	mg/L
Tin (Sn)	Various	Textile: Sample and report only			0.1	ND	mg/L

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

NP/OP: With reference to ISO 18254-1, ISO 18857-2 Followed by LC/MS & GCMS analysis.

NPEO / OPEO: With reference to ISO 18254-1, ISO 18857-2 Followed by LC/MS & GCMS analysis

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
Octylphenol (OP)	140-66-9/ 1806-26-4/ 27193-28-8	5	ND	µg/L
Nonylphenol (NP)	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

Remark:

1 µg/L = 0.001 ppm

ND = Not detected

NA = Not applicable

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4. Anti- Microbials & Biocides

o-Phenylphenol (+salts): Solvent extraction & derivatization with BSTFA+TMCS followed by GC/MS analysis.

Triclosan: Solvent extraction & derivatization with BSTFA+TMCS followed by GC/MS analysis.

Permethrin: Solvent extraction & derivatization with BSTFA+TMCS followed by GC/MS analysis.

Test items	CAS no.	Reporting Limit (Textile)	Result	Unit
			Untreated wastewater	
o-Phenylphenol (+salts)	90-43-7	Textile: 100	ND	µg/L
Triclosan	3380-34-5	Textile and Leather : 100	ND	µg/L
Permethrin	Various	Textile and Leather : 500	ND	µg/L

Remark:

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5. Chlorinated Parafins

MCCPs: Preparation: EPA 3510.

Analysis: ISO18219-2:2021 Method for MCCP with GC-MS(NCI) or LC-MS/MS.

SCCPs: Preparation EPA 3510.

Analysis: ISO18219-1:2021,ISO 12010:2019 Methods for SCCP with GC-MS(NCI) or LC-MS/MS

Test items	CAS no.	Reporting Limit (Textile)	Result	Unit
			Untreated wastewater	
Short chain chlorinated paraffins (C10-C13)	85535-84-8	Textile and Leather: 25	ND	µg/L
Medium-chain Chlorinated Paraffins (MCCPs) (C14-C17)	85535-85-9	Textile and Leather: 500	ND	µg/L

Remark:

1 µg/L = 0.001 ppm

ND = Not detected

NA = Not applicable

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6. Chlorobenzenes & Chlorotoluenes

With reference to USEPA 8260B, USEPA 8270D, Dichloromethane extraction followed by GC/MS analysis.

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
Monochlorobenzenes	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-Dichlorobezene	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

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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

Remark:

1 µg/L = 0.001 ppm
 ND = Not detected
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7. Chlorophenols

With reference to USEPA 8270E, Solvent extraction and derivatization with KOH, acetic anhydride followed by GC/MS analysis.

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result	
			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
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

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2,3,5,6-Tetrachlorophenol	935-95-5	0.5	ND	µg/L
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	ND	µg/L
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	ND	µg/L
Pentachlorophenol PCP	87-86-5	0.5	ND	µg/L

Remark:

1 µg/L = 0.001 ppm
 ND = Not detected
 NA = Not applicable
 NC= Not conducted
 - = Not required to be tested
 # = Non accredited parameter

8. N,N-di-methylformamide (DMFa)

With reference to EPA 8015, EPA 3535A, (Solid-phase Extraction followed by GC-MS analysis)

Test item	CAS no.	Reporting Limit (Textile)	Result	Unit
			Untreated wastewater	
N,N-di-methylformamide (DMFa)	68-12-2	1000 (Sample and Report only for mock leather)	ND	µg/L

Remark:

1 µg/L = 0.001 ppm
 ND = Not detected
 NA = Not applicable
 NC= Not conducted
 - = Not required to be tested
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9. Dyes - Carcinogenic or Equivalent Concern

With reference to Liquid extraction followed by HPLC-MSD-DAD analysis.

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
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	Textile: 500	ND	µg/L
C.I. Disperse Blue 3	2475-46-9	Textile: 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	Textile: 500	ND	µg/L
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

Remark:

1 µg/L = 0.001 ppm

ND = Not detected

NA = Not applicable

NC= Not conducted

- = Not required to be tested

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*Reported concentration refers to the dye part only

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10. Dyes - Disperse (Allergenic)

With reference to Liquid extraction followed by HPLC-MSD-DAD analysis.

Test Items	CAS no.	Reporting Limit (Textile)	Result	
			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
Disperse Blue 35	56524-77-7	50	ND	µg/L

Remark:

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 ND = Not detected
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11. Dyes - Navy Blue Colourant

With reference to Liquid extraction followed by HPLC-MSD-DAD analysis.

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	500	ND	µg/L
Component 2: C46H-30CrN10O20S2 3Na	Not Allocated	500	ND	µg/L

Remark:

1 µg/L = 0.001 ppm
 ND = Not detected
 NA = Not applicable
 NC= Not conducted
 - = Not required to be tested
 # = Non accredited parameter

12. Flame retardants

With references to USEPA 527, USEPA 8270E, USEPA 8321B, Solvent extraction followed by GC/MS analysis.

Test Items	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
Decabromodiphenyl ether (DecaBDE)	1163-19-5	Textile: 25 Leather: 5	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	Textile: 25 Leather: 5	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	Textile: 25 Leather: 5	ND	µg/L
Tris(1-aziridinylphosphine oxide) (TEPA)	545-55-1	Textile: 25 Leather: 5	ND	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	Textile: 25 Leather: 5	ND	µg/L
Tris(2,3-dibromopropyl phosphate) (TRIS)	126-72-7	Textile: 25 Leather: 5	ND	µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	Textile: 25 Leather: 5	ND	µg/L
Bis(2,3-dibromopropyl) phosphate	5412-25-9	Textile: 25 Leather: 5	ND	µg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	Textile: 25 Leather: 5	ND	µg/L
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	Textile: 25 Leather: 5	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	Textile: 25 Leather: 5	ND	µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	Textile: 25	ND	µg/L
Dibromobiphenyls (DiBB)	Multiple	Textile: 25	ND	µg/L
Octabromobiphenyls (OctaBB)	Multiple	Textile: 25	ND	µg/L
Dibromopropylether	21850-44-2	Textile: 25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	Textile: 25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	Textile: 25	ND	µg/L
Monobromobiphenyls (MonoBB)	Multiple	Textile: 25	ND	µg/L

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Monobromodiphenylethers (MonoBDEs)	Multiple	Textile: 25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Multiple	Textile: 25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	Textile: 25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	Textile: 25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Multiple	Textile: 25	ND	µg/L
Boric acid	10043-35-3 11113-50-1	Textile: 100*	ND (ND) **	µg/L
Diboron trioxide	1303-86-2	Textile: 100*	ND (ND) **	µg/L
Disodium octaborate	12008-41-2	Textile: 100*	ND (ND) **	µg/L
Disodium tetraborate anhydrous	1303-96-4 1330-43-4	Textile: 100*	ND (ND) **	µg/L
Tetraboron disodium heptaoxide, hydrate	12267-73-1	Textile: 100*	ND (ND) **	µg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	Textile: 25 Leather: 5	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDPC)	13674-87-8	Textile: 25 Leather: 5	ND	µg/L

Remark:

1 µg/L = 0.001 ppm

ND = Not detected

NA = Not applicable

NC= Not conducted

- = Not required to be tested

= Non accredited parameter

* Limit refers to elemental boron, not the salt.

**Result in term of elemental boron (Result in term of the corresponding boron salt)

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Date: 26/09/2024

13. Glycols/Glycol Ethers

With reference to USEPA 8270E, Solvent extraction followed by GC/MS analysis.

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
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

Remark:

1 µg/L = 0.001 ppm
 ND = Not detected
 NA = Not applicable
 NC= Not conducted
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 # = Non accredited parameter

14. Halogenated solvents

With reference to USEPA 8260D, Head-space & Solvent extraction followed by GC/MS analysis.

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
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

Remark:

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DHKSL240076003

Date: 26/09/2024

15. Organotin compounds

With reference to ISO 17353 and followed by GC/MS analysis

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
Tricyclohexyltin (TCyHT)	Various	0.01	ND	µg/L
Tripopyltin (TPT)	Various	0.01	ND	µg/L
Dipropyltin compounds (DPT)	Various	0.01	ND	µg/L
Tetrabutyltin compounds (TeBT)	Various	0.01	ND	µg/L
Tetraoctyltin compounds (TeOT)	Various	0.01	ND	µg/L
Tetraethyltin Compounds (TeET)	Various	0.01	ND	µg/L
Mono-, di- and tri-octyltin derivatives	Various	0.01	ND	µg/L
Monooctyltin (MOT)	15231-57-9	0.01	ND	µg/L
Diocyltin (DOT)	94410-05-6, 12531-44-4	0.01	ND	µg/L
Triocyltin (TOT)	Various	0.01	ND	µg/L
Mono-, di- and tri-methyltin derivatives	Various	0.01	ND	µg/L
Monomethyltin (MMT)	Various	0.01	ND	µg/L
Dimethyltin (DMT)	Various	0.01	ND	µg/L
Trimethyltin (TMT)	Various	0.01	ND	µg/L
Mono-, di- and tri-butyltin derivatives	Various	0.01	ND	µg/L
Monobutyltin (MBT)	1118-46-3, 78763-54-9	0.01	ND	µg/L
Dibutyltin (DBT)	1002-53-5	0.01	ND	µg/L
Tributyltin (TBT)	56573-85-4	0.01	ND	µg/L
Mono-, di- and tri-phenyltin derivatives	Various	0.01	ND	µg/L
Monophenyltin (MPHT)	Various	0.01	ND	µg/L
Diphenyltin (DPHT)	Various	0.01	ND	µg/L
Triphenyltin (TPHT)	892-20-6, 668-34-8	0.01	ND	µg/L

Remark:

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16. Other/Miscellaneous Chemicals

AEEA [2-(2-aminoethylamino) ethanol]: With reference to Liquid extraction followed by LCMS/LCMS-MS analysis.
 Bisphenol A: With reference to Solvent extraction & derivatization with BSTFA+TMCS followed by GC/MS analysis.
 Thiourea: With reference to Liquid extraction followed by LCMS/LCMS-MS analysis
 Quinoline: With reference to Liquid extraction followed by LCMS/LCMS-MS analysis
 Borate, zinc salt: With reference to USEPA 200.8,USEPA 6010C,USEPA 6020A

Test Items	CAS no.	Reporting Limit (Textile)	Result	Unit
			Untreated wastewater	
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*	B: ND (ND) ** Zn: ND (ND) **	µg/L

Remark:

1 µg/L = 0.001 ppm
 ND = Not detected
 NA = Not applicable
 NC= Not conducted
 - = Not required to be tested
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* Limit refers to boron and zinc individually, not the salt.

** Result in term of elemental boron / zinc (Result in term of the corresponding boron / zinc salt)

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17. Perfluorinated and Polyfluorinated Chemicals (PFCs)

Ionic PFAS: With reference to EPA 537:2020 and followed by LC-MSMS/LCMS analysis.

Non-ionic PFAS (FTA/FTOH): Solvent extraction & derivatisation with acetic anhydride followed by GC/MS analysis.

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
Perfluoro-octane-sulfonic acid (PFOS)*	1763-23-1	0.01	ND	µg/L
Perfluoro-octanoic acid (PFOA)**	335-67-1	0.01	ND	µg/L
Perfluoro-octane-sulfon-amide (PFOSA)	754-91-6	0.01	ND	µg/L
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	1	ND	µg/L
1H,1H,2H,2H-Perfluorodecanol (8:2 FTOH)	678-39-7	1	ND	µg/L
N-Methyl-perfluoro-octane-sulfon-amido-ethanol (N-Me-FOSE)	24448-09-7	0.01	ND	µg/L
N-Ethyl-Perfluoro-octane-sulfon-amido-ethanol (N-Et-FOSE)	1691-99-2	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
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	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
8:2 Fluorotelomer methacrylate (8:2 FTMA)	1996-88-9	1	ND	µg/L

Remark:

1 µg/L = 0.001 ppm

ND = Not detected

NA = Not applicable

NC= Not conducted

- = Not required to be tested

= Non accredited parameter

* PFOS refer to its salts/derivative including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3) and POSF (CAS No.: 307-35-7)

** PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1)

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Date: 26/09/2024

18. Phthalates – including all other esters of ortho-phthalic acid

With reference to USEPA 8270E, ISO 18856, Solvent extraction followed by GC/MS analysis.

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
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	10	ND	µg/L
Di-iso-nonyl phthalate (DINP)	28553-12-0	10	ND	µg/L
Di-n-hexyl phthalate (DnHP)	84-75-3	10	ND	µg/L
Dibutyl phthalate (DBP)	84-74-2	10	ND	µg/L
Butyl benzyl phthalate (BBP)	85-68-7	10	ND	µg/L
Dinonyl phthalate (DNP)	84-76-4	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 linearalkyl esters (DHNUP)	68515-42-4, 68515-50-4	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C6-8 branched and linearalkyl esters, C7-rich (DIHP)	71888-89-6, 84777-06-0	10	ND	µg/L
Di-n-pentylphthalates	131-18-0	10	ND	µg/L
Diisopentylphthalates	605-50-5	10	ND	µg/L

Remark:

1 µg/L = 0.001 ppm
 ND = Not detected
 NA = Not applicable
 NC= Not conducted
 - = Not required to be tested
 # = Non accredited parameter

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DHKSL240076003

Date: 26/09/2024

19. Polycyclic aromatic hydrocarbons (PAHs)

With reference to USEPA 8270E, Solvent extraction followed by GC/MS analysis.

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
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

Remark:

- 1 µg/L = 0.001 ppm
- ND = Not detected
- NA = Not applicable
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Date: 26/09/2024

20. Restricted Aromatic Amines (Cleavable from Azo-colourants)

With reference to With reference to EN 14362-1 & 3 and Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC-DAD analysis.

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result	Unit
			Untreated wastewater	
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
2,4-Diaminoanisoole	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
2,4-Diaminotoluene	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-diaminoanisoole sulphate	39156-41-7	0.1	ND	µg/L

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Remark:

1 µg/L = 0.001 ppm
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21. UV Absorbers

With reference to Dichloromethane extraction followed by GCMS analysis.

Test Items	CAS no.	Reporting Limit (Textile)	Result	Unit
			Untreated wastewater	
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 (UV-320)	3846-71-7	100	ND	µg/L
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	100	ND	µg/L

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22. Volatile organic compounds (VOCs)

Benzene: With reference to USEPA 8260D, Head-space & Solvent extraction followed by GC/MS analysis.
 m-cresol / o-cresol / p-cresol: With reference to USEPA 8260D, Head-space & Solvent extraction followed by GC/MS analysis
 Xylene: With reference to USEPA 8260D, Head-space & Solvent extraction followed by GC/MS analysis
 Toluene: With reference to USEPA 8260D, Head-space & Solvent extraction followed by GC/MS analysis

Test Items	CAS no.	Reporting Limit	Result	Unit
			Untreated wastewater	
Benzene	71-43-2	Textile and Leather: 1	ND	µg/L
Xylene	1330-20-7	Textile: 1	ND	µg/L
o-cresol	95-48-7	Textile and Leather: 1	ND	µg/L
p-cresol	106-44-5	Textile and Leather: 1	ND	µg/L
m-cresol	108-39-4	Textile and Leather: 1	ND	µg/L
Toluene	108-88-3	Textile: 1 (Sample and Report only for mock leather)	ND	µg/L

Remark:

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SLUDGE

23.Sludge Parameters - Step 1 – Conventional

pH: EPA SW 9045D
 % Solids: EPA 160.3
 Paint Filter Test: EPA 9095 B
 Fecal Coliform: EPA 1681

Test Items	CAS no.	Limit							Reporting Limit	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
pH	-	Sample and Report Only	Sample and Report Only	5-11	5-11	5-11	6.5-9	6.5-9	-	7.0	-
% Solids	-	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	-	27	%
Paint Filter Test	-	Sample and Report Only	Sample and Report Only	Sample and Report Only	Pass	Pass	Pass	Sample and Report Only	-	Pass	-
Fecal Coliform	-	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	1000	1000	1000	ND	MPN/g

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24. Sludge Parameters – Step 1 – Anions

Analysis: EPA 9014

Test Items	CAS no.	Limit – Dry weight							Reporting Limit (Textile)	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
Cyanide	-	Sample and Report Only	Sample and Report Only	100	85	70	70	70	20	ND	mg/kg

Remark:

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25. Sludge Parameters – Step 1 – Metals

Sb, As, Cr, Co, Cd, Cu, Pb, Ni, Zn: Preparation: USEPA 3050 Analysis: EPA 3050, EPA 6010D, EPA 6020B

Cr VI: Preparation: USEPA 3060 A Analysis: USEPA 3060a, USEPA 7196

Ba, Se, Ag: Preparation: USEPA 3050 Analysis: EPA 3050, EPA 6010D, EPA 6020B

Hg: Preparation: option 1: USEPA 7471 B option 2: USEPA 3051 A Analysis: EPA 3050, EPA 6010D, EPA 6020B

Test Items	CAS no.	Limit – Dry weight		Reporting Limit	Result	Unit
		Total Metals Threshold Values*	Max Total Metals limit for Pathway G		Sludge	
Arsenic (As)	Various	10	75	Textile: 5 Leather 2	ND	mg/kg
Cadmium (Cd)	Various	3	85	Textile: 1 Leather 2	ND	mg/kg
Mercury (Hg)	Various	1	57	Textile: 1 Leather 0.2	ND	mg/kg
Lead (Pb)	Various	10	840	Textile: 5 Leather 2	ND	mg/kg
Antimony (Sb)	Various	12	Sample and Report Only	Textile: 5	ND	mg/kg
Cobalt (Co)	Various	1600	Sample and Report Only	Textile: 400	ND	mg/kg
Nickel (Ni)	Various	70	420	Textile: 20	ND	mg/kg
Silver (Ag)	Various	100	Sample and Report Only	Textile: 50	ND	mg/kg
Copper (Cu)	Various	200	4300	Textile: 50	ND	mg/kg
Zinc (Zn)	Various	1000	7500	Textile: 400	ND	mg/kg

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Total Chromium (Cr)	Various	100	3000	Textile: 50	56	mg/kg
Chromium VI (Cr VI)	Various	50	50	Textile: 20 Leather 2	ND	mg/kg
Barium (Ba)	Various	700	Sample and Report Only	Textile: 200	ND	mg/kg
Selenium (Se)	Various	10	100	Textile: 5	ND	mg/kg

Remark:

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 * Leachate should be tested if Total Metals Threshold Values is exceeded in sludge.

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

NP/OP: With reference to ISO 18254-1, ISO 18857-2 Followed by LC/MS & GCMS analysis

NPEO/OPEO: With reference to ISO 18254-1, ISO 18857-2 Followed by LC/MS & GCMS analysis

Test Items	CAS no.	Limit – Dry weight							Reporting Limit (Textile and Leather)	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
Octylphenol (OP)	140-66-9/ 1806-26-4/ 27193-28-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	0.4	ND	mg/kg
Nonylphenol (NP)	104-40-5/ 11066-49-2/ 25154-52-3/84852-15-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	0.4	ND	mg/kg
Octylphenoethoxylates (OPEOs)	9002-93-1/9036-19-5/ 68987-90-6	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	0.4	ND	mg/kg
Nonylphenoethoxylates (NPEOs)	9016-45-9/26027-38-3/ 37205-87-1/68412-54-4/ 127087-87-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	0.4	ND	mg/kg

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27.Sludge Parameters - Step 1 - MRSL – Polycyclic Aromatic Hydrocarbons (PAHs)

With reference USEPA 8270E, Solvent extraction followed by GC/MS analysis

Test Items	CAS no.	Limit – Dry weight							Reporting Limit (Textile)	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
Benzo(a)pyrene (BaP)	50-32-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Anthracene	120-12-7	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Pyrene	129-00-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(ghi)perylene	191-24-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(e)pyrene	192-97-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Indeno (1,2,3-cd)pyrene	193-39-5	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(j)fluoranthene	205-82-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(b)fluoranthene	205-99-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Fluoranthene	206-44-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(k)fluoranthene	207-08-09	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Acenaphthylene	208-96-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Chrysene	218-01-9	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Dibenz(a,h)anthracene	53-70-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(a)anthracene	56-55-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg

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		Report Only	Report Only	Report Only							
Acenaphthene	83-32-9	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Phenanthrene	85-01-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Fluorene	86-73-7	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Naphthalene	91-20-3	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg

Remark:

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28.Sludge Parameters - Step 1 - MRSL – Chlorotoluenes

With reference to USEPA 8260B, USEPA 8270D, Dichloromethane extraction followed by GC/MS analysis.

Test Items	CAS no.	Limit – Dry weight							Reporting Limit (Textile and Leather)	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Sludge	
2-Chlorotoluene	95-49-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
3-Chlorotoluene	108-41-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
4-Chlorotoluene	106-43-4	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3-Dichlorotoluene	32768-54-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,4-Dichlorotoluene	95-73-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,5-Dichlorotoluene	19398-61-9	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,6-Dichlorotoluene	118-69-4	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg

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3,4-Dichlorotoluene	95-75-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
3,5-Dichlorotoluene	25186-47-4	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,4-Trichlorotoluene	7359-72-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,6-Trichlorotoluene	2077-46-5	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,4,5-Trichlorotoluene	6639-30-1	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,4,6-Trichlorotoluene	23749-65-7	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
3,4,5-Trichlorotoluene	21472-86-6	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,4,5-Tetrachlorotoluene	76057-12-0	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,5,6-Tetrachlorotoluene	29733-70-8	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,4,6-Tetrachlorotoluene	875-40-1	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Pentachlorotoluene	877-11-2	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg

Remark:

- ND = Not detected
- NA = Not applicable
- NC= Not conducted
- = Not required to be tested
- # = Non accredited parameter

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LEACHATE

29. Leachate Parameters - Step 2 – Metals

As, Cd, Cr, Pb, Sb, Ba, Co, Cu, Ni, Se, Ag, Zn: Leachate Extraction: USEPA 1311 or USEPA 3051 A Analysis: ISO 11885, ISO 17294-2, USEPA 200.7, USEPA 200.8, USEPA 6010 C or USEPA 6020 A

Cr (VI): Leachate Extraction: USEPA 1311 Analysis: ISO 18412, USEPA 7196 or USEPA 7199

Hg: Leachate Extraction: USEPA 1311 of USEPA 3051 A Analysis: ISO 12846, ISO 17852, USEPA 7471 B or USEPA 6020 B

Test Items	CAS no.	Limit							Reporting Limit	Result	Unit
		Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G		Leachate	
Arsenic (As)	Various	Sample and Report Only	Sample and Report Only	5	2.75	0.5	0.5	0.5	0.005	NA	mg/L
Cadmium (Cd)	Various	Sample and Report Only	Sample and Report Only	1	0.58	0.15	0.15	0.15	0.01	NA	mg/L
Mercury (Hg)	Various	Sample and Report Only	Sample and Report Only	0.2	0.125	0.05	0.05	0.05	0.001	NA	mg/L
Lead (Pb)	Various	Sample and Report Only	Sample and Report Only	5	2.75	0.5	0.5	0.5	0.01	NA	mg/L
Antimony (Sb)	Various	Sample and Report Only	Sample and Report Only	15	7.8	0.6	0.6	0.6	0.01	NA	mg/L
Cobalt (Co)	Various	Sample and Report Only	Sample and Report Only	80	80	80	80	80	0.01	NA	mg/L
Nickel (Ni)	Various	Sample and Report Only	Sample and Report Only	20	11.75	3.5	3.5	3.5	0.05	NA	mg/L
Silver (Ag)	Various	Sample and Report Only	Sample and Report Only	5	5	5	5	5	0.005	NA	mg/L
Copper (Cu)	Various	Sample and Report Only	Sample and Report Only	25	17.5	10	10	10	0.25	NA	mg/L
Zinc (Zn)	Various	Sample and Report Only	Sample and Report Only	250	150	50	50	50	0.1	NA	mg/L
Total Chromium (Cr)	Various	Sample and Report Only	Sample and Report Only	15	10	5	5	5	0.05	NA	mg/L

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Chromium VI (Cr VI)	Various	Sample and Report Only	Sample and Report Only	5	3.75	2.5	2.5	2.5	0.001	NA	mg/L
Barium (Ba)	Various	Sample and Report Only	Sample and Report Only	100	67.5	35	35	35	35	NA	mg/L
Selenium (Se)	Various	Sample and Report Only	Sample and Report Only	1	0.75	0.5	0.5	0.5	0.5	NA	mg/L

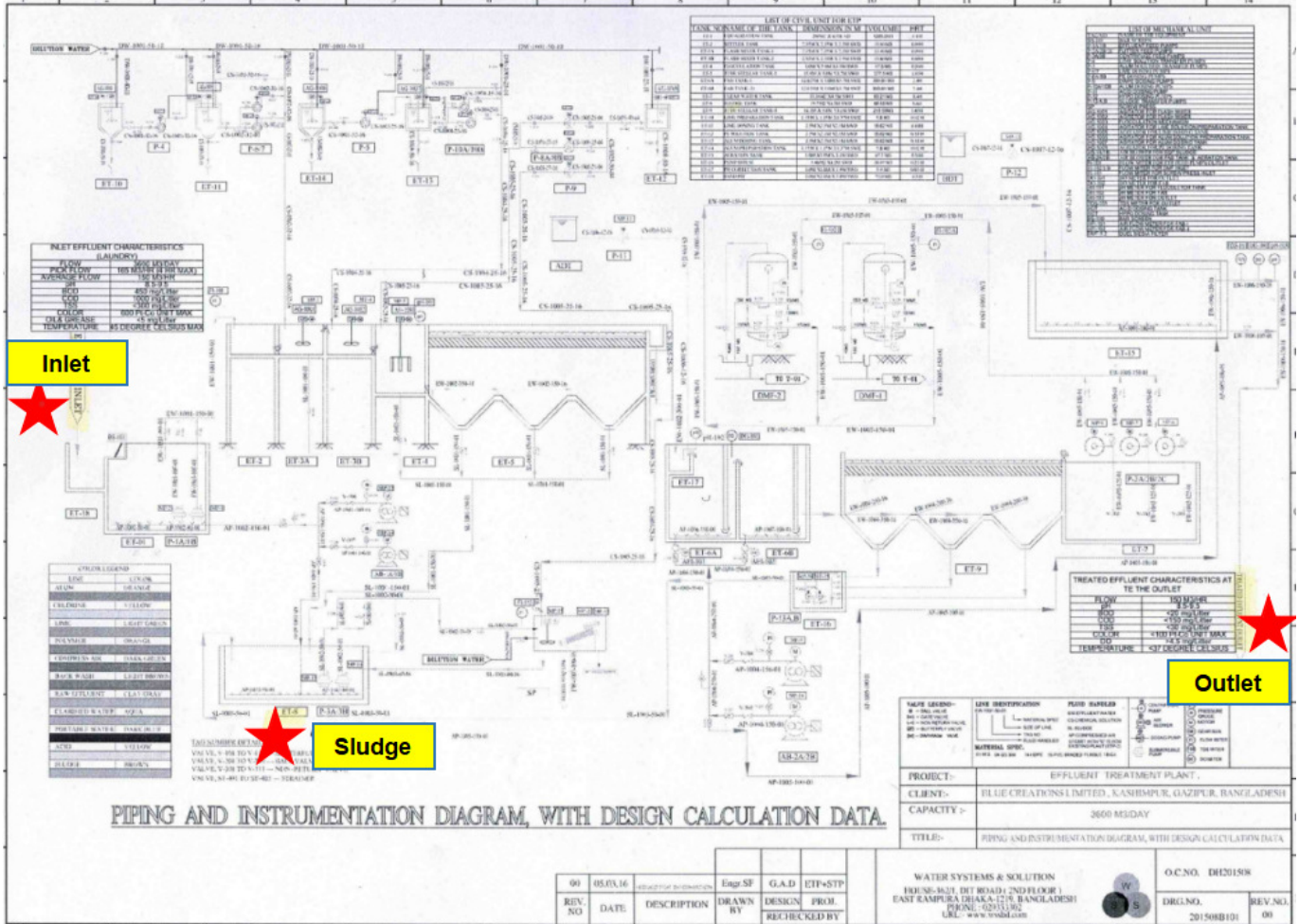
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PIPING PLAN



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Annex A: Sampling photos & Sampling locations

PERSISTENT FOAM
Date & Time of Measurement: 17/09/2024; 14:00
Sampling Location: Outlet


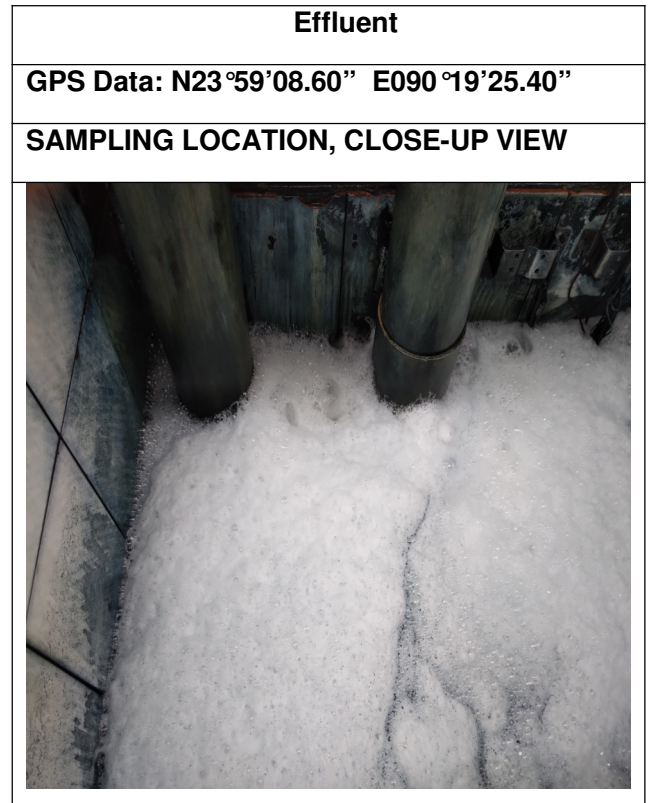
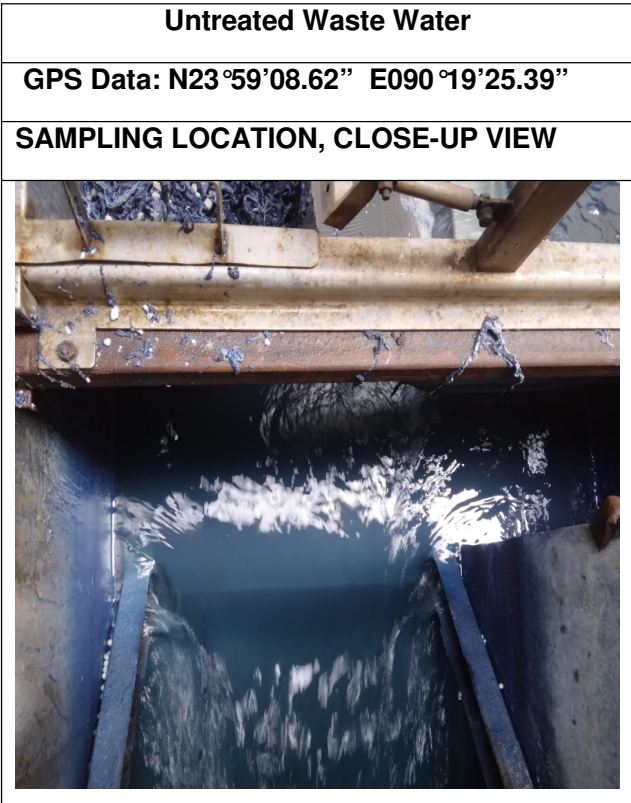
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Test Report No.

DHKSL240076003

Date: 26/09/2024



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Test Report No.

DHKS240076003

Date: 26/09/2024

Annex B: On-site Field Data Record Sheet

Water Sampling Record

Tracking no. 2409170235

Sampling Date: 17/09/2024

Client Name: BLUE CREATIONS LTD

Lab received container temperature:

pH Meter: _____

Thermometer: _____

Water Types: BEFORE

No.	Sampling No.	Locations	Time	pH	Temperature (°C)	Sample Volume (L)	Containers	Characteristic Descriptions/Remarks
1	Phthalates+FR+COC +FTOA/ FTOH	Before	19:05		2-8°C	2 L	2 (each 1 L)/Amber glass bottle with PTFE lined lid	
2	PAHs, Glycol	Before	19:06		2-8°C	1 L	1 (each 1 L)/Amber glass bottle with PTFE lined lid	
3	Disperse Dyes	Before	19:07		2-8°C	1 L	1 (each 1 L)/Amber glass bottle with PTFE lined lid	
4	Chlorophenols	Before	19:08		2-8°C	1 L	1 (each 1 L)/Amber glass bottle with PTFE lined lid	
5	Organotin Compounds	Before	19:10	HCl topH 2-3	2-8°C	2 L	2 (each 1 L)/Amber glass bottle with PTFE lined lid	
6	SCCP	Before	19:11		2-8°C	1 L	1 (each 1 L)/Amber glass bottle with PTFE lined lid	
7	Azo Dyes	Before	19:12		2-8°C	2 L	2 (each 1 L)/Amber glass bottle with PTFE lined lid	
8	PFCs	Before	19:13		2-8°C	2 L	2 (each 1 L)/Amber glass bottle with PTFE lined lid	

Sampling by: *Sami*

Checked by: *[Signature]*

Confirmed by Client:

[Signature]
17/09/24


Water Sampling Record

Tracking no. 2409170235

Sampling Date: 17/09/2024

Client Name: BLUE CREATIONS LTD

Lab received container temperature:

pH Meter: _____

Thermometer: _____

Water Types: BEFORE

No.	Sampling No.	Locations	Time	pH	Temperature (°C)	Sample Volume (L)	Containers	Characteristic Descriptions/Remarks
9	Halogenated Solvent(VOC)	Before	19:15	HCL to pH<2	2-8°C	500ml	1 (each 500ml)/Amber glass bottle with PTFE lined lid	
10	AP/APEO	Before	19:16		2-8°C	2 L	2 (each 1 ltr)/Amber glass bottle with PTFE lined lid	
11	Anti Microbial & Biocides	Before	19:17		2-8°C	2 L	2 (each 1 ltr)/Amber glass bottle with PTFE lined lid	
12	DMFa	Before	19:18		2-8°C	500ml	1 (each 500ml)/Amber glass bottle with PTFE lined lid	
13	Heavy Metals	Before	19:20	HNO3 to pH<2	2-8°C	500 ml	1 (each 500ml)/Amber glass bottle with PTFE lined lid	
14	UV Absorbers	Before	19:22		2-8°C	1 L	1 (each 1 ltr)/Amber glass bottle with PTFE lined lid	

Sampling by: *Sami*

Checked by: *[Signature]*

Confirmed by Client:

[Signature]
17/09


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Test Report No.

DHKSL240076003

Date: 26/09/2024

Water Sampling Record

Tracking no. 2409170235

Sampling Date: 17/09/2024

Client Name: BLUE CREATIONS LTD

Lab received container temperature:

pH Meter: _____

Thermometer: _____

Water Types: _____ AFTER

No.	Sampling No.	Locations	Time	pH	Temperature (°C)	Sample Volume (L)	Containers	Characteristic Descriptions/Remarks
1	TSS & TDS	After	18:40		2-8°C	500 ml	1 (each 500ml)/Amber glass bottle with PTFE lined lid	
2	Heavy Metals	After	18:41	HNO3 to pH<2	2-8°C	250 ml	2 (each 250ml)/Amber glass bottle with PTFE lined lid	
3	Cr(VI)	After	18:42	0.45µm filter in field, Ammonium sulfate buffer to pH 9.0-9.5	2-8°C	250 ml	1 (each 250ml)/Amber glass bottle with PTFE lined lid	
4	Heavy Metals (Mercury)	After	18:44	HNO3 to pH<2	2-8°C	1 L	1 (each 1 L)/Amber Glass bottle	
5	BOD	After	18:45		2-8°C	500 ml	1 (each 500ml)/Amber glass bottle with PTFE lined lid	
6	COD	After	18:46	H2SO4 to pH<2	2-8°C	500 ml	1 (each 500ml)/Amber glass bottle with PTFE lined lid	
7	E.coli	After	18:47	HNO3 to pH<2	2-8°C	1 L	1 (each 1 L)/Amber Glass bottle	
8	Cyanide	After	18:50	0.1 ml 10% sodium thiosulfate, NaOH to pH-12	2-8°C	500 ml	ST Plastic bottle	

Sampling by: *Sami*

Checked by: *[Signature]*

Confirmed by Client:

Water Sampling Record

Tracking no. 2409170235

Sampling Date: 17/09/2024

Client Name: BLUE CREATIONS LTD

Lab received container temperature:

pH Meter: _____

Thermometer: _____

Water Types: _____ AFTER

No.	Sampling No.	Locations	Time	pH	Temperature (°C)	Sample Volume (L)	Containers	Characteristic Descriptions/Remarks
9	Sulfite	After	18:52	Add 2 ml 2.5% EDTA Soln	2-8°C	500ml	2 (each 250ml)/Amber glass bottle with PTFE lined lid	
10	Chloride & Sulfate	After	18:53		2-8°C	500ml	1 (each 500ml)/Amber glass bottle with PTFE lined lid	
11	Total Phenolics	After	18:54	H2SO4 to pH<2	2-8°C	500ml	1 (each 500ml)/Amber glass bottle with PTFE lined lid	
12	Ammonium-N + Total N+ Total-P	After	18:52	H2SO4 to pH<2	2-8°C	500ml	1 (each 500ml)/Amber glass bottle with PTFE lined lid	
13	Oil & Grease	After	18:57	H2SO4 to pH<2	2-8°C	500ml	1 (each 500ml)/Amber glass bottle with PTFE lined lid	
14	Sulfide	After	18:58	4 drops 2N Zinc acetate, NaOH> pH 9	2-8°C	250ml	2 (each 250ml)/Amber glass bottle with PTFE lined lid	
15	AOX	After	18:59	0.1 ml 10% sodium thiosulfate H2SO4, pH<2	2-8°C	1 L	2 (each 500ml)/Amber glass bottle	

Sampling by: *Sami*

Checked by: *[Signature]*

Confirmed by Client:

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Test Report No.

DHKS L240076003

Date: 26/09/2024

Sludge Sampling Record

Tracking no. 2409170235

Sampling Date: 17/09/2024

Client Name: BLUE CREATIONS LTD

Sample Types: Sludge

									GPS Tracking info.
No.	Sampling No.	Locations	Time	Colour (Visual)	Sample Volume (L)	Containers	Sludge Location	Characteristic Descriptions/Remarks	
1	Sludge	ETP	18:30	Black	1 kg	2	Sack		N 23°50'09.28" E 090°19'25.23"
Sludge Disposal pathway					If sludge not found, describe the reason				
<p>The WW Guideline defines seven ZDHC Disposal Pathways, they are:</p> <ul style="list-style-type: none"> • ZDHC Disposal Pathway A - Offsite Incineration at >1000oC • ZDHC Disposal Pathway B - Landfill with Significant Control Measures • ZDHC Disposal Pathway C - Building Products Processed at >1000oC • ZDHC Disposal Pathway D - Landfill with Limited Control Measures • ZDHC Disposal Pathway E - Offsite Incineration and Building Products Processed at <1000oC • ZDHC Disposal Pathway F - Landfills with No Control Measures • ZDHC Disposal Pathway G - Land Application 									

Sampling by: *[Signature]*

Checked by: *[Signature]*

Confirmed by Client: *[Signature]*



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Annex C: Limit according to regulation / Contract limit with centralized ETP (if proceed)

LOCAL WASTEWATER DISCHARGE REQUIREMENTS BASED ON The Environment Conservation Rules, 2023 (BANGLADESH LOCAL REGULATION-SCHEDULE-5)

The Environment Conservation Rules, 2023				
SCHEDULE-5				
Paramters	CAS No.		Effluent	
			Value	Unit
pH Value (min.)	-	-	6.0	-
pH Value (max.)	-	-	9.0	-
Temperature	-	-	Maximum 5 °C above the temperature of the water body	°C
Biochemical Oxygen Demand (BOD5 at 20 °C)	-	<	30	mg/L
Chemical Oxygen Demand (COD)	-	<	200	mg/L
Total Suspended Solids (TSS)	-	<	100	mg/L
Total Dissolved Solid(TDS)	-	<	2100	mg/L
Sulfide	-	<	2.0	mg/L
Oil and Grease	-	<	10	mg/L
Cadmium (Cd)	7440-43-9	<	0.02	mg/L
Lead (Pb)	7439-92-1	<	0.1	mg/L
Nickel (Ni)	7440-02-0	<	1.0	mg/L
Chromium (Total Cr)	7440-47-3	<	0.5	mg/L
Cobalt (Co)	7440-48-4	<	0.5	mg/L
Phenol Compounds	-	<	1.0	mg/L

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