

TEST REPORT NO : 1002652234
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Facility/ Supplier Name:	TARASIMA APPARELS LTD.	Sampling Date:	Mar. 18, 2025
Facility Address:	GOLORA, KAITTA, SATURIA, MANIKGANJ-1810	Laboratory Received Date:	Mar. 18, 2025
Facility Contact Person:	MR. MD. SHARIFUL ISLAM	Test Date:	Mar. 18 – Mar. 27, 2025
Reference Testing Protocol:	ZDHC Wastewater Guidelines, Version 2.2	Laboratory Received Temperature:	Untreated Wastewater: 5.3°C Effluent: 5.0°C Sludge: 5.1°C
Reference Sample Handling Method:	ZDHC Sampling and Analysis Plan (SAP) Version 2.1	Sampling Time of Untreated Wastewater:	Composite: 9.00am, 10.00am, 11.00am, 12.00pm, 1.00pm, 2.00pm, 3.00pm
Buyer Name:	Self-Reference	Sampling Time of Effluent/Treated Wastewater:	Composite: 9.10am, 10.10am, 11.10am, 12.10pm, 1.10pm, 2.10pm, 3.10pm
Sampler ZDHC Accreditation Number:	C74D106817971	Sampling Time of Sludge:	Grab: 2.30pm
ZDHC Solution Provider (Lab) Name:	UL VS Bangladesh Ltd.	Discharge Type:	Direct Discharge
Sludge Disposal Pathway:	C – Building Products Processed at >1000°C		

Sample Information:

Sample ID	Description	Equivalent Code / Color
001	Untreated Wastewater	Light Blue
002	Treated Discharged Wastewater/ Effluent	Light Brown
003	Sludge	Grey

For and on behalf of
UL VS Bangladesh Limited



Md. Nur Alam – Lab Technical & Operations Manager

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Table	Executive Summary	Result		
		001	002	003
1A-1T	ZDHC MRSL Wastewater Parameters in Untreated Wastewater			
1A	Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs)	PASS	/	/
1B	Anti- Microbials & Biocides	PASS	/	/
1C	Chlorinated Paraffins	PASS	/	/
1D	Chlorobenzenes and Chlorotoluenes	PASS	/	/
1E	Chlorophenols	PASS	/	/
1F	N,N-di-methylformamide (DMFa)	PASS	/	/
1G	Dyes – Carcinogenic or Equivalent Concern	PASS	/	/
1H	Dyes – Disperse (Allergenic)	PASS	/	/
1J	Flame retardants	PASS	/	/
1K	Glycols / Glycol Ethers	PASS	/	/
1L	Halogenated Solvents	PASS	/	/
1M	Organotin Compounds	PASS	/	/
1N	Other/Miscellaneous Chemicals	PASS	/	/
1O	Perfluorinated and Polyfluorinated Chemicals (PFCs)	PASS	/	/
1P	Phthalates – Including All Other Esters of Ortho-Phthalic Acid	PASS	/	/
1Q	Polycyclic Aromatic Hydrocarbons (PAHs)	PASS	/	/
1R	Restricted Aromatic Amines (Cleavable from Azo colourants)	PASS	/	/
1S	UV Absorbers	PASS	/	/
1T	Volatile Organic Compounds (VOC)	PASS	/	/
2	ZDHC Heavy Metals Wastewater Parameters in Treated Discharged Wastewater/ Effluent	/	PASS	/
3	ZDHC Conventional Parameters and Anions in Treated Discharged Wastewater/ Effluent			
	pH Value	/	PASS	/
	Temperature Deference	/	PASS	/
	E. coli ♦	/	PASS	/
	Colour (436nm, 525nm, 620nm)	/	PASS	/
	Persistent Foam	/	PASS	/
	Wastewater Flowrate	/	See Result	/
	Ammonium-Nitrogen	/	PASS	/
	Absorbable Organic Halogens (AOX)	/	PASS	/
	Biological Oxygen Demand (BOD) (5-day)	/	PASS	/
	Chemical Oxygen Demand (COD)	/	PASS	/
	Dissolved Oxygen (DO)	/	PASS	/
	Oil & Grease	/	PASS	/
	Total Phenols / Phenol Index	/	PASS	/

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	Total Chlorine	/	PASS	/
	Total Dissolved Solids (TDS)	/	See Result	/
	Total Nitrogen	/	PASS	/
	Total Phosphorus	/	PASS	/
	Total Suspended Solids (TSS)	/	PASS	/
	Chloride	/	See Result	/
	Cyanide, total	/	PASS	/
	Sulphate	/	See Result	/
	Sulphide	/	PASS	/
	Sulphite	/	PASS	/
4A	ZDHC MRSL Substances in the Sludge			
4A.1	Alkylphenol (AP) & Alkylphenol ethoxylates (APEOs)	/	/	PASS
4A.2	Polycyclic Aromatic Hydrocarbons (PAHs)	/	/	PASS
4A.3	Chlorotoluenes	/	/	PASS
4B	Testing of Metals – Threshold Values, Leachate Testing Limit Values per Disposal Pathway in the Sludge			
	Testing of Metals - Total Metal Threshold Values in the Sludge	/	/	PASS
	Testing of Metals - Leachate Testing Limit Values per Disposal Pathway in the Sludge			
4C	Testing Conventional Parameters and Anion in the Sludge			
4C.1	pH Value	/	/	See Result
4C.2	Faecal Coliform ♦	/	/	See Result
4C.3	% Solids	/	/	See Result
4C.4	Paint Filter Test	/	/	See Result
4C.5	Cyanide	/	/	See Result

Remark:

- The results relate only to the samples tested.
- "ND"=Not Detected, "NA"=Not Applicable,
- ** = test result(s) will be added later
- ♦ Marked test was subcontracted to an ISO 17025 accredited laboratory.
- All collected sample have been tested within the maximum holding time stipulated by the SAP guidelines.

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Table 1A-1T: ZDHC MRSL Wastewater Parameters in Untreated Wastewater
(1A) Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs)

Standard Method for Analysis/Testing: NP/OP: ISO 18857-2(modified dichloromethane extraction) or ASTM D7065 (GC-MS or LC-MS(-MS) OPEO/NPEO (n>2): ASTM D7742 ISO 18857-2

Detection Limit: 5 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
Nonylphenol ethoxylates (NPEO)	Multiple Including 9016-45-9, 26027-38-3 37205-87-1, 68412-54-4	5	ND
Nonylphenol (NP), mixed isomers	Multiple Including 104-40-5, 11066-49-2 25154-52-3, 84852-15-3	5	ND
Octylphenol ethoxylates (OPEO)	Multiple Including 9002-93-1, 9036-19-5 68987-90-6	5	ND
Octylphenol (OP), mixed isomers	Multiple Including 140-66-9, 1806-26-4 27193-28-8	5	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”;			
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

(1B) Antimicrobials and Biocides:

Standard Method for Analysis/Testing: Inhouse Method, USEPA 8270E Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS; BS EN 12673-1999, An alternative method of solvent extraction and derivatization are included; USEPA 8270E Solvent extraction, followed by GC-MS; ISO 14154:2005, An alternate method, without derivatization and determination by LCMS/LCMSMS.

Substance name	CAS No.	Detection limit, µg/L	Reporting limit, µg/L	Result, µg/L (001)
o-Phenylphenol (+salts)	90-43-7	0.5	100	ND
Triclosan	3380-34-5	100	100	ND
Permethrin	Multiple	500	500	ND
Conclusion				PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”;				
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction				

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(1C) Chlorinated Paraffins:

Standard Method for Analysis/Testing: Preparation: EPA 3510; Analysis: ISO18219-2:2021 Method for MCCP/SCCP with GC-MS(NCI) or LC-MS/MS

Detection Limit: 5 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	500	ND
Short-chain Chlorinated paraffin (C10 – C13)	85535-84-8	25	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”;			
Recommended Holding Time: NA			
Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

(1D) Chlorobenzenes and Chlorotoluenes:

Standard Method for Analysis/Testing: USEPA 8260D, 8270E, Purge and Trap, Head Space Dichloromethane extraction followed by GC-MS

Detection Limit: 0.2 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
1,2-dichlorobenzene	95-50-1	0.2	ND
Other isomers of mono-, di-, tri-, tetra-, penta- and hexa- Chlorobenzene and mono-, di-, tri-, tetra- and penta- chlorotoluene	Multiple including 108-90-7 541-73-1; 106-46-7; 87-61-6; 120-82-1; 108-70-3; 634-66-2; 634-90-2; 95-94-3; 608-93-5; 118-74-1; 95-49-8; 108-41-8; 106-43-4; 32768-54-0; 95-73-8; 19398-61-9; 118-69-4; 95-75-0; 25186-47-4; 7359-72-0; 2077- 46-5; 6639-30-1; 23749-65-7; 21472-86-6; 1006-32-2; 875-40- 1; 1006-31-1; 877-11-2	0.2	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”;			
Recommended Holding Time: NA			
Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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(1E) Chlorophenols:

Standard Method for Analysis/Testing: USEPA 8270D, ISO 14154:2005, In House Method.

Detection Limit: 0.5 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
2-Chlorophenol	95-57-8	0.5	ND
2,3-dichlorophenol	576-24-9	0.5	ND
2,3,4-trichlorophenol	15950-66-0	0.5	ND
2,3,5-trichlorophenol	933-78-8	0.5	ND
2,3,6-trichlorophenol	933-75-5	0.5	ND
2,4-dichlorophenol	120-83-2	0.5	ND
2,4,5-trichlorophenol	95-95-4	0.5	ND
2,4,6-trichlorophenol	88-06-2	0.5	ND
2,5-dichlorophenol	583-78-8	0.5	ND
2,6-dichlorophenol	87-65-0	0.5	ND
3-Chlorophenol	108-43-0	0.5	ND
3,4-dichlorophenol	95-77-2	0.5	ND
3,4,5-trichlorophenol	609-19-8	0.5	ND
3,5-dichlorophenol	591-35-5	0.5	ND
4-Chlorophenol	106-48-9	0.5	ND
Pentachlorophenols (PCP)	87-86-5	0.5	ND
2,3,5,6-tetrachlorophenol	935-95-5	0.5	ND
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	ND
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”;			
Recommended Holding Time: NA			
Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

(1F) N,N-di-methylformamide (DMFa):

Standard Method for Analysis/Testing: EPA 8015, EPA 8270E

Detection Limit: 1000 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
Dimethyl formamide; N,N-dimethylformamide (DMFa)	68-12-2	1000	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”			
Recommended Holding Time: NA			
Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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(1G) Dyes – Carcinogenic or Equivalent Concern:

Standard Method for Analysis/Testing: Liquid extraction, LC-MS

Detection Limit: 500 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
Basic violet 3 with >0.1% of Michler’s Ketone	548-62-9	500	ND
C.I. Acid Red 26	3761-53-3	500	ND
C.I. Acid Violet 49	1694-09-3	500	ND
C.I. Basic Blue 26 (with Michler’s Ketone > 0.1%)	2580-56-5	500	ND
C.I. Basic Green 4 (Malachite Green Chloride)	569-64-2	500	ND
C.I. Basic Green 4 (Malachite Green Oxalate)	2437-29-8	500	ND
C.I. Basic Green 4 (Malachite Green)	10309-95-2	500	ND
C.I. Basic Red 9	569-61-9	500	ND
C.I. Basic Violet 14	632-99-5	500	ND
C.I. Direct Black 38	1937-37-7	500	ND
C.I. Direct Blue 6	2602-46-2	500	ND
C.I. Direct Red 28	573-58-0	500	ND
C.I. Disperse Blue 1	2475-45-8	500	ND
C.I. Disperse Blue 3	2475-46-9	500	ND
Disperse Orange 11	82-28-0	500	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”			
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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(1H) Dyes – Disperse (Allergenic):

Standard Method for Analysis/Testing: Liquid extraction, LC-MS

Detection Limit: 50 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
Disperse Blue 102	12222-97-8	50	ND
Disperse Blue 106	12223-01-7	50	ND
Disperse Blue 124	61951-51-7	50	ND
Disperse Blue 26	3860-63-7	50	ND
Disperse Blue 35	12222-75-2	50	ND
Disperse Blue 35	56524-77-7	50	ND
Disperse Blue 7	3179-90-6	50	ND
Disperse Brown 1	23355-64-8	50	ND
Disperse Orange 1	2581-69-3	50	ND
Disperse Orange 3	730-40-5	50	ND
Disperse Orange 37/59/76	13301-61-6	50	ND
Disperse Red 1	2872-52-8	50	ND
Disperse Red 11	2872-48-2	50	ND
Disperse Red 17	3179-89-3	50	ND
Disperse Yellow 1	119-15-3	50	ND
Disperse Yellow 3	2832-40-8	50	ND
Disperse Yellow 39	12236-29-2	50	ND
Disperse Yellow 49	54824-37-2	50	ND
Disperse Yellow 9	6373-73-5	50	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”			
Recommended Holding Time: NA			
Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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(1J) Flame retardants:

Standard Method for Analysis/Testing: Determined as total boron via ICP; USEPA 8270E, ISO 22032, USEPA 527 and USEPA 8321B, Dichloromethane extraction GC-MS or LC-MS (MS)

Substance name	CAS No.	Detection limit, µg/L	Reporting limit, µg/L	Result, µg/L (001)
Boric acid	10043-35-3 11113-50-1	100	500	ND
Diboron trioxide	1303-86-2	100	500	ND
Disodium octaborate	12008-41-2	100	500	ND
Disodium tetraborate anhydrous	1303-96-4 1330-43-4	100	500	ND
Tetraboron disodium heptaoxide, hydrate	12267-73-1	100	500	ND
Hexabromocyclodecane (HBCDD)	3194-55-6	25	25	ND
2,2-bis(bromomethyl)- 1,3-propanediol (BBMP)	3296-90-0	25	25	ND
Polybromobiphenyls (PBB)	59536-65-1	25	25	ND
Monobromobiphenyls (MonoBB)	Multiple	25	25	ND
Monobromodiphenylethers (MonoBDEs)	Multiple	25	25	ND
Dibromobiphenyls (DiBB)	Multiple	25	25	ND
Dibromopropylether	21850-44-2	25	25	ND
Tribromodiphenylethers (TriBDEs)	Multiple	25	25	ND
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	25	ND
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	25	ND
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	25	ND
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	25	ND
Octabromobiphenyls (OctaBB)	Multiple	25	25	ND
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	25	ND
Nonabromobiphenyls (NonaBB)	Multiple	25	25	ND
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	25	ND
Decabromobiphenyl (DecaBB)	13654-09-6	25	25	ND
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	25	ND

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Tetrabromobisphenol A (TBBPA)	79-94-7	25	25	ND
Bis(2,3-dibromopropyl) phosphate (BDBPP)	5412-25-9	25	25	ND
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	25	ND
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	25	25	ND
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	25	ND
Tris(2-chloroethyl phosphate (TCEP)	115-96-8	25	25	ND
Tris(2,3,-dibromopropyl)- phosphate (TRIS)	126-72-7	25	25	ND
Conclusion				PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”				
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction				

(1K) Glycols / Glycol Ethers:

Standard Method for Analysis/Testing: In-house Method, USEPA 8270E, Liquid extraction, LC-MS, GC-MS

Detection Limit: 50 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
2-ethoxyethanol	110-80-5	50	ND
2-ethoxyethyl acetate	111-15-9	50	ND
2-methoxyethanol	109-86-4	50	ND
2-methoxyethylacetate	110-49-6	50	ND
2-methoxypropylacetate	70657-70-4	50	ND
Bis(2-methoxyethyl)-ether	111-96-6	50	ND
Ethylene glycol dimethyl ether	110-71-4	50	ND
Triethylene glycol dimethyl ether	112-49-2	50	ND
Conclusion			PASS
“<” means “less than” ; “ND” means “Not detected” ; “µg/L” means “microgram per litre”;			
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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(1L) Halogenated Solvents:

Standard Method for Analysis/Testing: USEPA 8260D Headspace GC-MS or Purge and trap GC-MS

Detection Limit: 1 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
1,2-dichloroethane	107-06-2	1	ND
Methylene chloride	75-09-2	1	ND
Tetrachloroethylene	127-18-4	1	ND
Trichloroethylene	79-01-6	1	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”			
Recommended Holding Time: 7-days.			
Maximum Holding Time: Extraction: 14-days.			

(1M) Organotin Compounds:

 Standard Method for Analysis/Testing: ISO 17353 Derivatisation with NaB (C₂H₅)₄ GC-MS/ ISO 17353

Detection Limit: 0.01 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
Dipropyltin compounds (DPT)	Multiple including 867-36-7	0.01	ND
Mono-, di- and tri-butyltin derivatives	Multiple including 1118-46-3, 1461-22-9	0.01	ND
Mono-, di- and tri-methyltin derivatives	Multiple including 993-16-8, 753-73-1, 1066-45-1	0.01	ND
Mono-, di- and tri-octyltin derivatives	Multiple including 3091-25-6, 3542-36- 7, 2587-76-0	0.01	ND
Mono-, di- and tri-phenyltin derivatives	Multiple including 1124-19-2, 1135-99- 5, 639-58-7	0.01	ND
Tetrabutyltin compounds (TeBT)	Multiple including 1461-25-2	0.01	ND
Tetraethyltin Compounds (TeET)	Multiple including 597-64-8	0.01	ND
Tetraoctyltin compounds (TeOT)	Multiple including 3590-84-9	0.01	ND
Tricyclohexyltin (TCyHT)	Multiple including 3091-32-5	0.01	ND
Tripropyltin Compounds (TPT)	Multiple including 2279-76-7	0.01	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”			
Recommended Holding Time: 24-Hours.			
Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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(1N) Other/Miscellaneous Chemicals:

Standard Method for Analysis/Testing: In-house Method; Liquid extraction, LC-MSMS, Liquid extraction, LC-MS; Determined as total boron and total zinc via ICP.

Substance name	CAS No.	Detection limit, µg/L	Reporting limit, µg/L	Result, µg/L (001)
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500	500	ND
Bisphenol A	80-05-7	10	10	ND
Borate, zinc salt	12767-90-7	100	100	ND
Quinoline	91-22-5	50	50	ND
Thiourea	62-56-6	50	50	ND
Conclusion				PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”				
Recommended Holding Time: NA. Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction				

(1O) Perfluorinated and Polyfluorinated Chemicals (PFCs):

Standard Method for Analysis/Testing: CEN/TS 15968, USEPA 537, In House Method.

Substance name	CAS No.	Detection limit, µg/L	Reporting limit, µg/L	Result, µg/L (001)
Perfluorooctane sulfonate (PFOS), and related substances	Multiple including 1763-23-1	0.01	0.01	ND
Perfluorooctanoic acid (PFOA), and related substances	Multiple including 335-67-1	1	1	ND
Conclusion				PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”				
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction				

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(1P) Phthalates – including all other esters of ortho-phthalic acid:

Standard Method for Analysis/Testing: USEPA 8270E, ISO 18856 Dichloromethane extraction GC-MS

Detection Limit: 10 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
1,2-benzenedicarboxylic acid, di-C6-8 branched and linear alkyl esters, C7-rich (DIHP)	71888-89-6/ 84777-06-0	10	ND
1,2-benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP)	68515-42-4/ 68515-50-4	10	ND
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	10	ND
Butyl benzyl phthalate (BBP)	85-68-7	10	ND
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	ND
Di-iso-decyl phthalate (DIDP)	26761-40-0	10	ND
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	ND
Di-isobutyl phthalate (DIBP)	84-69-5	10	ND
Di-isononyl phthalate (DINP)	28553-12-0	10	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	10	ND
Di-n-octyl phthalate (DNOP)	117-84-0	10	ND
Di-n-pentylphthalates	131-18-0	10	ND
Di-n-propyl phthalate (DPRP)	131-16-8	10	ND
Di(ethylhexyl) phthalate (DEHP)	117-81-7	10	ND
Dibutyl phthalate (DBP)	84-74-2	10	ND
Diethyl phthalate (DEP)	84-66-2	10	ND
Diisopentylphthalates	605-50-5	10	ND
Dinonyl phthalate (DNP)	84-76-4	10	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”			
Recommended Holding Time: NA. Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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(1Q) Polycyclic Aromatic Hydrocarbons (PAHs):

Standard Method for Analysis/Testing: USEPA 8270E, DIN 38407-39 Solvent extraction GC-MS

Detection Limit: 1 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
Acenaphthene	83-32-9	1	ND
Acenaphthylene	208-96-8	1	ND
Anthracene	120-12-7	1	ND
Benzo[a]anthracene	56-55-3	1	ND
Benzo[a]pyrene (BaP)	50-32-8	1	ND
Benzo[b]fluoranthene	205-99-2	1	ND
Benzo[e]pyrene	192-97-2	1	ND
Benzo[ghi]perylene	191-24-2	1	ND
Benzo[j]fluoranthene	205-82-3	1	ND
Benzo[k]fluoranthene	207-08-9	1	ND
Chrysene	218-01-9	1	ND
Dibenz[a,h]anthracene	53-70-3	1	ND
Fluoranthene	206-44-0	1	ND
Fluorene	86-73-7	1	ND
Indeno[1,2,3-cd]pyrene	193-39-5	1	ND
Naphthalene	91-20-3	1	ND
Phenanthrene	85-01-8	1	ND
Pyrene	129-00-0	1	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”			
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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(1R) Restricted Aromatic Amines (Cleavable from Azo-colourants):

Standard Method for Analysis/Testing: Reduction step with sodium dithionite, solvent extraction EPA 8270

Detection Limit: 0.1 µg/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
2-naphthylamine	91-59-8	0.1	ND
2-Naphthylammoniumacetate	553-00-4	0.1	ND
2,4-xylidine	95-68-1	0.1	ND
2,4,5-trimethylaniline	137-17-7	0.1	ND
2,4,5-trimethylaniline hydrochloride	21436-97-5	0.1	ND
2,6-xylidine	87-62-7	0.1	ND
3,3'-dichlorobenzidine	91-94-1	0.1	ND
3,3-dimethoxybenzidine	119-90-4	0.1	ND
3,3-dimethylbenzidine	119-93-7	0.1	ND
4-aminoazobenzene	60-09-3	0.1	ND
4-aminodiphenyl	92-67-1	0.1	ND
4-chloro-o-toluidine	95-69-2	0.1	ND
4-chloro-o-toluidinium chloride	3165-93-3	0.1	ND
4-chloroaniline	106-47-8	0.1	ND
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	0.1	ND
4-methoxy-m-phenylenediamine	615-05-4	0.1	ND
4-methyl-m-phenylenediamine	95-80-7	0.1	ND
4,4-methylene-bis-(2-chloro-aniline)	101-14-4	0.1	ND
4,4-methylenedi-o-toluidine	838-88-0	0.1	ND
4,4-methylenedianiline	101-77-9	0.1	ND
4,4-oxydianiline	101-80-4	0.1	ND
4,4-thiodianiline	139-65-1	0.1	ND
5-nitro-o-toluidine	99-55-8	0.1	ND
6-methoxy-m-toluidine	120-71-8	0.1	ND
Benzidine	92-87-5	0.1	ND
o-aminoazotoluene	97-56-3	0.1	ND
o-anisidine	90-04-0	0.1	ND
o-toluidine	95-53-4	0.1	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”;			
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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(1S) UV Absorbers:

Standard Method for Analysis/Testing: In House Method, DIN EN 62321-6:2016-05

Detection Limit: 100 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	100	ND
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	100	ND
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	100	ND
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	100	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”			
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

(1T) Volatile Organic Compounds (VOC):

Standard Method for Analysis/Testing: ISO 11423-1 Headspace or Purge and trap GC-MS USEPA 8260D Add ISO 20595, EPA 8270 BS EN 12673-1999, HJ 1067 or EPA 8260D or ISO 11423-1

Detection Limit: 1 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
Benzene	71-43-2	1	ND
m-cresol	108-39-4	1	ND
o-cresol	95-48-7	1	ND
p-cresol	106-44-5	1	ND
Toluene	108-88-3	1	ND
Xylene	1330-20-7	1	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”			
Recommended Holding Time: 7-days. Maximum Holding Time: Extraction: 14-days.			

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(2) ZDHC Heavy Metals Wastewater Parameters in Treated Discharged Wastewater/ Effluent:

Standard Method for Analysis/Testing: EPA 200.7, USEPA 200.8, USEPA 218.6, USEPA 6010c, USEPA 6020a, ISO 11885, ISO 12846, ISO 18412

Substance name	CAS No.	Detection limit, mg/L	Result, mg/L (002)	Limit, mg/L	Conclusion
Total Antimony (Sb)	7440-36-0	0.01	ND	Foundational 0.1 Progressive 0.05 Aspirational 0.01	PASS
Hexavalent Chromium (Cr-VI)	18540-29-9	0.001	ND	Foundational 0.05 Progressive 0.005 Aspirational 0.001	
Total Arsenic (As)	7440-38-2	0.005	ND	Foundational 0.05 Progressive 0.01 Aspirational 0.005	
Total Chromium (Cr)	7440-47-3	0.05	ND	Foundational 0.2 Progressive 0.1 Aspirational 0.05	
Total Cobalt (Co)	7440-48-4	0.01	ND	Foundational 0.05 Progressive 0.02 Aspirational 0.01	
Total Cadmium (Cd)	7440-43-9	0.01	ND	Foundational 0.1 Progressive 0.05 Aspirational 0.01	
Total Copper (Cu)	7440-50-8	0.25	ND	Foundational 1.0 Progressive 0.5 Aspirational 0.25	
Total Lead (Pb)	7439-92-1	0.01	ND	Foundational 0.1 Progressive 0.05 Aspirational 0.01	
Total Nickel (Ni)	7440-02-0	0.05	ND	Foundational 0.2 Progressive 0.1 Aspirational 0.05	
Total Silver (Ag)	7440-22-4	0.005	ND	Foundational 0.1 Progressive 0.05 Aspirational 0.005	
Total Zinc (Zn)	7440-66-6	0.5	ND	Foundational 5.0 Progressive 1.0 Aspirational 0.5	
Total Mercury (Hg)	7439-97-6	0.001	ND	Foundational 0.01 Progressive 0.005 Aspirational 0.001	
Total Barium (Ba)	7440-39-3	0.5	ND	/	
Total Selenium (Se)	7782-49-2	0.5	ND	/	
Total Tin (Sn)	7440-31-5	0.5	ND	/	
"<" means "less than"; "mg/L" means "milligram per litre"					
Recommended Holding Time: Cr-VI: 24-Hours; Mercury: NA; Other Metals: 28-days. Maximum Holding Time: Cr-VI /Mercury: 28-days; Other Metals: 6-Months.					

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(3) ZDHC Conventional Parameters and Anions in Treated Discharged Wastewater/ Effluent:
pH Value:

Standard Method for Analysis/Testing: ISO 10523, USEPA 150.1, SM 4500-H+

Sample ID	Result	Limit	Conclusion
002	7.5	6 - 9	PASS

 Recommended Holding Time: Measured in the field.
 Maximum Holding Time: 6-hours.

Temperature difference:

Standard Method for Analysis/Testing: DIN 38 404-4, USEPA 170.1, SM 2550

Sample ID	Detection limit(°C)	Result (°C)	Limit, °C	Conclusion	
002	0.1°C	Temperature difference (°C)	2.2	Foundational Δ+15 Progressive Δ+10 Aspirational Δ+5	PASS
		Temperature-Discharge Pipe (°C)	31.5		
		Temperature-Receiving Water (°C)	33.7		

"<" means "less than"; "°C" Means "Degree Celsius"

 Recommended Holding Time: Measured in the field.
 Maximum Holding Time: 15-Mins.

E. coli:

 Standard Method for Analysis/Testing: APHA 23rd 9221.B

Sample ID	Detection limit, MPN/100 ml	Result, MPN/100 ml	Limit, MPN/100 ml	Conclusion
002	5	<5	126 MPN/100 ml	PASS

"<" means "less than"; "MPN" means "Most Probable Number"

 Recommended Holding Time: 6-Hours.
 Maximum Holding Time: 24-Hours.

Colour (436nm, 525nm, 620nm):

Standard Method for Analysis/Testing: In-house Method, ISO 7887-B

Sample ID	Detection limit (m-1)		Result (m-1)	Limit, (m-1)			Conclusion
				Foundation	Progressive	Aspirational	
002	436 nm	0.01	1.79	7	5	2	PASS
	525 nm	0.01	0.80	5	3	1	
	620 nm	0.01	0.32	3	2	1	

"<" means "less than"

 Recommended Holding Time: NA
 Maximum Holding Time: 48-Hours.

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Persistent Foam:

Standard Method for Analysis/Testing: Visual Analysis

Sample ID	Result	Limit	Conclusion
002	Absent	Absent	PASS

 Recommended Holding Time: Measured in the field.
 Maximum Holding Time: NA

Wastewater Flowrate:

In-House with Reference to ZDHC Guideline

Sample ID	Result, m ³ per day	Threshold Limit, m ³ per day	Conclusion
002	1919.3	15	DATA

"<" means "less than".

 Note: Flow rate is the measure of the applicability of testing is based on "> or <" 15 m³/day as per table A/B in ZDHC wastewater Guidelines

 Recommended Holding Time: NA
 Maximum Holding Time: NA

Ammonium-Nitrogen:

 Standard Method for Analysis/Testing: ISO 11732, ISO 7150, USEPA 350.1, USEPA 350.3, SM 4500 NH₃ - D, E, F, G, or H

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	0.5	<0.5	Foundational 10 Progressive 1 Aspirational 0.5	PASS

"<" means "less than"; "mg/L" means "milligram per litre";

 Recommended Holding Time: 7-days.
 Maximum Holding Time: 28-days.

Absorbable Organic Halogens (AOX):

Standard Method for Analysis/Testing: ISO 9562

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	0.1	0.19	Foundational 3.0 Progressive 0.5 Aspirational 0.1	PASS

"<" means "less than"; "mg/L" means "milligram per litre";

 Recommended Holding Time: NA
 Maximum Holding Time: 6-Months.

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Biological Oxygen Demand (BOD) (5-day):

Standard Method for Analysis/Testing: ISO 5815-1, USEPA 405.1, SM 5210-B

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	2	23	Foundational 30 Progressive 15 Aspirational 8	PASS
“<” means “less than”; “mg/L” means “milligram per litre”				
Recommended Holding Time: 6-Hours Maximum Holding Time: 48-Hours.				

Chemical Oxygen Demand (COD):

Standard Method for Analysis/Testing: APHA/SM 5220D; USEPA 410.4; ISO 6060-1989

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	5	67	Foundational 150 Progressive 80 Aspirational 40	PASS
“<” means “less than”; “mg/L” means “milligram per litre”				
Recommended Holding Time: 7-days. Maximum Holding Time: 28-days.				

Dissolved Oxygen (DO):

Standard Method for Analysis/Testing: ISO 5814, EPA 360.1, SM 4500-O-G

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	1	7.4	≥ 4	PASS
“<” means “less than”; “mg/L” means “milligram per litre”				
Recommended Holding Time: Measured in the field. Maximum Holding Time: 15-Mins.				

Oil & Grease:

Standard Method for Analysis/Testing: ISO 9377-2, SM 5520-B/C, USEPA 1664 revision B

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	0.5	<0.5	Foundational 10.0 Progressive 2.0 Aspirational 0.5	PASS
“<” means “less than”; “mg/L” means “milligram per litre”				
Recommended Holding Time: NA Maximum Holding Time: 28-days.				

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Total Phenols / Phenol Index:

Standard Method for Analysis/Testing: ISO 6439, SM 5530-B/C

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	0.001	<0.001	Foundational 0.5 Progressive 0.01 Aspirational 0.001	PASS

"<" means "less than"; "mg/L" means "milligram per litre"

Recommended Holding Time: 24-Hours.

Maximum Holding Time: 28-Days.

Total Chlorine:

Standard Method for Analysis/Testing: DPD Colorimetric Method with reference ISO 7393-2/EPA 330.5/SM4500-CI G

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	0.1	<0.1	1	PASS

"<" means "less than"; "mg/L" means "milligram per litre"

Recommended Holding Time: Measured in the field.

Maximum Holding Time: 15-Mins.

Total Dissolved Solids (TDS):

Standard Method for Analysis/Testing: APHA/SM 2540C; EPA-160.1

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	5	878	/	DATA

"<" means "less than"; "mg/L" means "milligram per litre".

Recommended Holding Time: 24-Hours.

Maximum Holding Time: 7-Days.

Total Nitrogen:

Standard Method for Analysis/Testing: ISO 11905 - Part 1, ISO 29441, USEPA 351.2, SM 4500P-J, SM 4500N-B, SM 4500N-C

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	5	<5	Foundational 20 Progressive 10 Aspirational 5	PASS

"<" means "less than"; "mg/L" means "milligram per litre".

Recommended Holding Time: NA

Maximum Holding Time: 28-Days.

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Total Phosphorus:

Standard Method for Analysis/Testing: ISO 17294, ISO 11885, ISO 6878, USEPA 365.4, SM 4500P-J, USEPA 200.7, USEPA 200.8, USEPA 6010C, USEPA 6020A

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	0.1	<0.1	Foundational 3.0 Progressive 0.5 Aspirational 0.1	PASS

"<" means "less than"; "mg/L" means "milligram per litre";

 Recommended Holding Time: NA
 Maximum Holding Time: 28-Days.

Total Suspended Solids (TSS):

Standard Method for Analysis/Testing: ISO 11923, USEPA 160.2, SM 2540D

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	5	14	Foundational 50 Progressive 15 Aspirational 5	PASS

"<" means "less than"; "mg/L" means "milligram per litre";

 Recommended Holding Time: 24-Hours.
 Maximum Holding Time: 7-Days.

Chloride:

Standard Method for Analysis/Testing: ISO 10304-1, ISO 15923-1, SM 4110-B, SM 4110-C, SM 4500-Cl D or E USEPA 300

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	10	<10	/	DATA

"<" means "less than"; "mg/L" means "milligram per litre"

 Recommended Holding Time: NA.
 Maximum Holding Time: 28-days.

Cyanide, total:

Standard Method for Analysis/Testing: ISO 6703-1, -2, -3; ISO 14403-1, -2; USEPA 335.2; APHA 4500-CN

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	0.05	<0.05	Foundational 0.2 Progressive 0.1 Aspirational 0.05	PASS

"<" means "less than"; "mg/L" means "milligram per litre"

 Recommended Holding Time: 24-Hours
 Maximum Holding Time: 14-Days.

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Sulphate:

 Standard Method for Analysis/Testing: ISO 10304-1, ISO 15923-1, SM 4500 SO₄, E, F, G SM 4100 B, C USEPA 300, USEPA 9038

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	10	<10	/	DATA

"<" means "less than"; "mg/L" means "milligram per litre"

 Recommended Holding Time: NA
 Maximum Holding Time: 28-Days.

Sulphide:

 Standard Method for Analysis/Testing: ISO 10530, SM 4500-S₂-D, E, G, or I

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	0.01	<0.01	Foundational 0.5 Progressive 0.05 Aspirational 0.01	PASS

"<" means "less than"; "mg/L" means "milligram per litre"

 Recommended Holding Time: NA
 Maximum Holding Time: 7-Days.

Sulphite:

 Standard Method for Analysis/Testing: In-house Method, ISO 10304-3, SM 4500-SO₃2-C

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	0.2	0.8	Foundational 2.0 Progressive 0.5 Aspirational 0.2	PASS

"<" means "less than"; "mg/L" means "milligram per litre"

 Recommended Holding Time: NA
 Maximum Holding Time: 48-Hours.

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Table-4A: ZDHC MRSL Substances in the Sludge
4A.1 Alkylphenol (AP) & Alkylphenol Ethoxylates (APEOs):

Standard Method for Analysis/Testing: In-house Method, Modified dichloromethane extraction with mechanical agitation, Soxhlet, or ultrasonic, NP/OP, GC-MS, LC-MS, OPEO/NPEO (n>2): GC-MS; LC-MS, OPEO/NPEO (n=1,2), GC-MS, LC-MS/ NP/ OP ISO 18857-2; ASTM D7065 OPEO/NPEO n>2 ISO 18254-1 OPEO/NPEO n=1,2 ISO 18857-2; ASTM D7065

Detection Limit: 0.4 mg/kg

Substance name	CAS No.	Reporting limit, mg/kg	Result, mg/kg (003)
Nonylphenol ethoxylates (NPEO)	9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0	0.4	ND
Nonylphenol (NP), mixed isomers	104-40-5, 11066-49-2, 25154-52-3, 84852-15-3	0.4	ND
Octylphenol ethoxylates (OPEO)	9002-93-1, 9036-19-5, 68987-90-6	0.4	ND
Octylphenol (OP), mixed isomers	140-66-9, 1806-26-4, 27193-28-8	0.4	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “mg/kg” means “milligram per kilogram”			
Recommended Holding Time: NA			
Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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4A.2 Polycyclic Aromatic Hydrocarbons (PAHs)

Standard Method for Analysis/Testing: Preparation: Dichloromethane extraction with mechanical agitation, soxhlet, or ultrasonic, Clean up: GPC, Analysis: GC-MS/ Preparation: USEPA 3540/3541, soxhlet USEPA 3550, ultrasonic Clean up: USEPA 3650, Analysis: USEPA 827

Detection Limit: 0.2 mg/kg

Substance name	CAS No.	Reporting limit, mg/kg	Result, mg/kg (003)
Benzo[a]pyrene (BaP)	50-32-8	0.2	ND
Anthracene	120-12-7	0.2	ND
Pyrene	129-00-0	0.2	ND
Benzo[ghi]perylene	191-24-2	0.2	ND
Benzo[e]pyrene	192-97-2	0.2	ND
Indeno[1,2,3-cd]pyrene	193-39-5	0.2	ND
Benzo[j]fluoranthene	205-82-3	0.2	ND
Benzo[b]fluoranthene	205-99-2	0.2	ND
Fluoranthene	206-44-0	0.2	ND
Benzo[k]fluoranthene	207-08-9	0.2	ND
Acenaphthylene	208-96-8	0.2	ND
Chrysene	218-01-9	0.2	ND
Dibenz[a,h]anthracene	53-70-3	0.2	ND
Benzo[a]anthracene	56-55-3	0.2	ND
Acenaphthene	83-32-9	0.2	ND
Phenanthrene	85-01-8	0.2	ND
Fluorene	86-73-7	0.2	ND
Naphthalene	91-20-3	0.2	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “mg/kg” means “milligram per kilogram”			
Recommended Holding Time: NA			
Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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4A.3 Chlorotoluenes

Standard Method for Analysis/Testing: Preparation: Dichloromethane extraction with mechanical agitation, Soxhlet, or ultrasonic, Clean up: GPC, Analysis: GC-MS/ Preparation: USEPA 3540/3541, Soxhlet USEPA 3550, ultrasonic Clean up: USEPA 3650, Analysis: USEPA 827

Detection Limit: 0.2 mg/kg

Substance name	CAS No.	Reporting limit, mg/kg	Result, mg/kg (003)
Monochlorobenzene	108-90-7	0.2	ND
1,2-Dichlorobenzene	95-50-1	0.2	ND
1,3-Dichlorobenzene	541-73-1	0.2	ND
1,4-Dichlorobenzene	106-46-7	0.2	ND
1,2,3-Trichlorobenzene	87-61-6	0.2	ND
1,2,4-Trichlorobenzene	120-82-1	0.2	ND
1,3,5-Trichlorobenzene	108-70-3	0.2	ND
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	ND
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2	ND
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	ND
Pentachlorobenzene	608-93-5	0.2	ND
Hexachlorobenzene	118-74-1	0.2	ND
2-chlorotoluene	95-49-8	0.2	ND
3-chlorotoluene	108-41-8	0.2	ND
4-chlorotoluene	106-43-4	0.2	ND
2,3-dichlorotoluene	32768-54-0	0.2	ND
2,4-dichlorotoluene	95-73-8	0.2	ND
2,5-dichlorotoluene	19398-61-9	0.2	ND
2,6-dichlorotoluene	118-69-4	0.2	ND
3,4-dichlorotoluene	95-75-0	0.2	ND
3,5-dichlorotoluene	25186-47-4	0.2	ND
2,3,4-dichlorotoluene	7359-72-0	0.2	ND
2,3,6-trichlorotoluene	2077-46-5	0.2	ND
2,4,5-trichlorotoluene	6639-30-1	0.2	ND
2,4,6-trichlorotoluene	23749-65-7	0.2	ND
3,4,5-trichlorotoluene	21472-86-6	0.2	ND
2,3,4,5- tetra chlorotoluene	76057-12-0	0.2	ND
2,3,5,6- tetra chlorotoluene	29733-70-8	0.2	ND
2,3,4,6- tetra chlorotoluene	875-40-1	0.2	ND
Pentachlorotoluene	877-11-2	0.2	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “mg/kg” means “milligram per kilogram”			
Recommended Holding Time: NA			
Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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Table-4B: Testing of Metals – Threshold Values, Leachate Testing Limit Values per Disposal Pathway in the Sludge
Testing of Metals – Total Metal Threshold Values in the Sludge:

Standard Method for Analysis/Testing: In-house Method, USEPA 3015A; USEPA 3051A; USEPA 3052; USEPA 200.7; USEPA 200.8; USEPA 6010C; USEPA 6010D; USEPA 218.6; USEPA 3060a; USEPA 7196; ISO 18412

No.	Metals	Reporting Limit (mg/kg), Dry weight	Total Metals Threshold Limit (mg/kg), Dry weight	Sludge Disposal Pathway-G:	Detection limit, mg/kg	Result, mg/kg (003)	Conclusion
				Max Total Metals limit (mg/kg), Dry weight			
4B.1	Total Antimony (Sb)	5	12	Not Applicable	2	ND	PASS
4B.2	Total Arsenic (As)	5	10	41	2	ND	
4B.3	Total Barium (Ba)	200	700	500	10	32.9	
4B.4	Total Cadmium (Cd)	1	3	39	0.5	ND	
4B.5	Total Cobalt (Co)	400	1600	Not Applicable	10	ND	
4B.6	Total Copper (Cu)	50	200	1500	10	ND	
4B.7	Total Lead (Pb)	5	10	400	2	2.6	
4B.8	Total Nickel (Ni)	20	70	420	5	ND	
4B.9	Total Selenium (Se)	5	10	36	2	ND	
4B.10	Total Silver (Ag)	50	100	Not Applicable	10	ND	
4B.11	Total Zinc (Zn)	400	1000	2800	10	91.9	
4B.12	Total Chromium (Cr)	50	100	1200	2	ND	
4B.13	Chromium (VI)	20	50	50	2	ND	
4B.14	Total Mercury (Hg)	1	1	17	0.05	ND	

“<” means “less than”; “ND” means “Not detected”; “mg/kg” means “milligram per kilogram”

Recommended Holding Time: Cr-VI: 24-Hours; Mercury: NA; Other Metals: 28-days.

Maximum Holding Time: Cr-VI /Mercury: 28-days; Other Metals: 6-Months.

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Testing of Metals - Leachate Testing Limit Values per Disposal Pathway in the Sludge:

Standard Method for Analysis/Testing: Preparation (Leachate Extraction): Toxicity Leachate Extraction Procedure, Acid Digestion, Analysis: ICP-OES/ ICP-MS followed by ISO 11885; ISO 17294-2 / Leachate Extraction: EPA 1311, Analysis: USEPA 200.7 USEPA 200.8 USEPA 6010c USEPA 6020a; ISO 18412; USEPA 7196; USEPA 7199

No.	Metals	Leachate result (TCLP) in must comply for the below disposal pathways limit (mg/L) for corresponding metals parameters					Result, mg/L (003)	Conclusion
		Disposal Pathway A – On-site or off-site incineration at >1000°C	Disposal Pathway D - Landfill with limited control measures	Disposal Pathway E - Off-site incineration and building products processed at <1000°C	Disposal Pathway F - Landfills with no control measures	Disposal Pathway G - Land application for a specific purpose in approved areas.		
		Disposal Pathway B - Landfill with significant control measures						
		Disposal Pathway C - Building products processed at >1000°C						
4B.1	Total Antimony (Sb)	NA	7.8	0.6	0.6	0.6	NA	-
4B.2	Total Arsenic (As)	NA	2.75	0.5	0.5	0.5	NA	-
4B.3	Total Barium (Ba)	NA	67.5	35	35	35	NA	-
4B.4	Total Cadmium (Cd)	NA	0.58	0.15	0.15	0.15	NA	-
4B.5	Total Cobalt (Co)	NA	80	80	80	80	NA	-
4B.6	Total Copper (Cu)	NA	17.5	10	10	10	NA	-
4B.7	Total Lead (Pb)	NA	2.75	0.5	0.5	0.5	NA	-
4B.8	Total Nickel (Ni)	NA	11.75	3.5	3.5	3.5	NA	-
4B.9	Total Selenium (Se)	NA	0.75	0.5	0.5	0.5	NA	-
4B.10	Total Silver (Ag)	NA			5	5	NA	-
4B.11	Total Zinc (Zn)	NA	50	50	50	50	NA	-
4B.12	Total Chromium (Cr)	NA	5	5	5	5	NA	-
4B.13	Chromium (VI)	NA	3.75	2.5	2.5	2.5	NA	-
4B.14	Total Mercury (Hg)	NA	1.25	0.5	0.5	0.5	NA	-

"<" means "less than"; "ND" means "Not detected"; "mg/L" means "milligram per litre"; "NA" means "Not Applicable"

Note-1: Leachate testing have not been performed because Total Metals Threshold Values (Table-4B) are not exceeded the limit.

Note-2: Leachate testing (TCLP) should be performed only if the threshold value for a metal is exceeded in the sludge sample testing.

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Table-4C: Testing Conventional Parameters and Anion in the Sludge

Standard Method for Analysis/Testing:

1. pH Value: Suspension with Water & ISE/ EPA SW 9045D or HJ962
2. % Solids (Dry Mass): Dry at 105°C; EPA 160.3, HJ613 at 105°C
3. Paint Filter Test: EPA SW-846; EPA 9095B
4. Faecal Coliform: Blended suspension, Multiple Tube Fermentation/ EPA 1681
5. Cyanide: Preparation & Analysis: In-House Method, EPA 9013, EPA 9014

No.	Parameter	Corresponding Conventional Parameters and Anion Limit for Specific Disposal Pathways						Result (003)	Conclusion
		Disposal Pathway A & B	Disposal Pathway C	Disposal Pathway D	Disposal Pathway E	Disposal Pathway F	Disposal Pathway G		
4C.1	pH	NA		5 - 11	5 - 11	6.5 - 9	6.5 - 9	7.9	DATA
4C.2	Faecal Coliform (MPN/g)	NA				<1000	<1000	<5	DATA
4C.3	% Solids	Sample and Report						69.23%	DATA
4C.4	Paint Filter Test	NA	NA	Pass (Absent)	Pass (Absent)	Pass (Absent)	Pass (Absent)	Absent	DATA
4C.5	Cyanide, mg/kg	NA	NA	86	70	70	70	<1	DATA

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Latitude

23.904355000000002°

Longitude

90.05199833333333°

Local 02:18:01 PM

Altitude 10 m

GMT 08:18:01 AM

Tuesday, 18.03.2025

Sample Photo of Untreated Wastewater

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TEST REPORT NO: 1002652234**Mar. 27, 2025****UL ORDER NO: 15747410****Page:****31 of 43****W332+vm, Golora, Bangladesh**Latitude
23.904283333333336°Longitude
90.05192666666666°Local 11:05:42 AM
GMT 05:05:42 AMAltitude 10 m
Tuesday, 18.03.2025**Sampling Point Photo of Untreated Wastewater**

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TEST REPORT NO: 1002652234**Mar. 27, 2025****UL ORDER NO: 15747410****Page:****32 of 43****W332+rxr, Bangladesh****Latitude
23.90436833333333°****Longitude
90.05216333333334°****Local 02:24:37 PM
GMT 08:24:37 AM****Altitude 10 m
Tuesday, 18.03.2025****Sample Photo of Effluent/Treated Wastewater**

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Sampling Point Photo of Effluent/Treated Wastewater

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TEST REPORT NO: 1002652234**Mar. 27, 2025****UL ORDER NO: 15747410****Page:****34 of 43****W332+rxr, Bangladesh**Latitude
23.904311666666665°Longitude
90.05222°Local 02:39:23 PM
GMT 08:39:23 AMAltitude 10 m
Tuesday, 18.03.2025**Sample Photo of Sludge**

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TEST REPORT NO: 1002652234**Mar. 27, 2025****UL ORDER NO: 15747410****Page:****35 of 43****W332+vmm, Golora, Bangladesh****Latitude****23.904179999999997°****Longitude****90.05149833333334°****Local 11:19:04 AM****Altitude 7 m****GMT 05:19:04 AM****Tuesday, 18.03.2025****Sampling Point Photo of Sludge**

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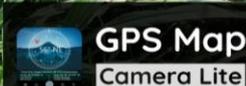
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TEST REPORT NO: 1002652234**Mar. 27, 2025****UL ORDER NO: 15747410****Page:****36 of 43****W332+vm, Golora, Bangladesh****Latitude****23.904125°****Longitude****90.05202666666668°****Local 02:34:52 PM****Altitude 6 m****GMT 08:34:52 AM****Tuesday, 18.03.2025****Photo of Foam in the Aeration Basin**

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TEST REPORT NO: 1002652234**Mar. 27, 2025****UL ORDER NO: 15747410****Page:****37 of 43****W358+vcq Barobaria Bridge, Dhaka - Aricha Hwy, Bangladesh****Latitude
23.909948333333332°****Longitude
90.065918333333331°****Local 02:49:05 PM
GMT 08:49:05 AM****Altitude 6 m
Tuesday, 18.03.2025****Photo of Foam in the Receiving Body**

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Photo of Field Testing Instruments/ Sampling KIT

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1002652234
27.03.25

UL Solutions

ZDHC WASTEWATER SAMPLE TEST REQUEST FORM

Primary Lab Information	
Company Name	UL Solutions
Laboratory Name	UL VS Bangladesh Ltd.
Laboratory Address	The Pearl Trade Center (5th, 14th & 15th floor), Cha- 90/3, Pragati Sharani, North Badda, Dhaka 1212, Bangladesh.
Contact Name	Shameem Hossain
Contact Phone	+8801730782488
Contact email	Shameem.Hossain@ul.com
Sampler name	Md Shaheen Alam
Sampler ZDHC Accreditation no.	C74D106817971

Sampling Facility & Billing Information			
Sampling Request Made By		Billing Information	
Company Name	Tarasima Apparels Ltd.	Company Name	Tarasima Apparels Ltd.
Facility Address	Golora, Kaitta, Sauria, Manikganj-1810.	Facility Address	Golora, Kaitta, Sauria, Manikganj-1810.
Contact Name	Md. Shariful Islam	Contact Name	Md. Mahbubur Rahman
Designation	Executive-EMS	Contact Phone	01871001221
Contact Phone	01619003575	Billing Email	ems@bitopibd.com
Contact Email	ems@bitopibd.com		
ZDHC Gateway ID:	A369EQ24		
Test Report Recipients			

15747410

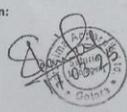
Type of Discharge and Sampling Locations with Some Specific Questions Below:		
Type of Discharge	Yes/No	Sampling Locations
Direct Wastewater Discharge	Yes	Untreated wastewater (Tables 1A-1T) + Effluent (Table 2, Table 3) + Sludge (table 4)
Indirect Discharge with Pretreatment	No	Untreated wastewater (Tables 1A-1T) + Effluent (only Arsenic, Cadmium, Chromium VI, Lead and Mercury from table 2) + Sludge (table 4)
Indirect Discharge without Pretreatment	No	Untreated wastewater (Tables 1A-1T) + Effluent (only Arsenic, Cadmium, Chromium VI, Lead and Mercury from table 2)
Zero Liquid Discharge	No	Untreated wastewater (Tables 1A-1T) + Sludge (Table 4)

SL No	Questions	Answer	Comments
1	Is the average wastewater flow rate >= 15 m3/day If NO, only effluent for direct discharge is mandatory	Yes	NA
2	Homogenization tank with an average holding time of >12 h	No	NA
3	How many effluent sampling points are there? (How many ETP discharge point).	01	NA
4	How many wastewater sampling points are there?	01	NA
5	Are there wastewater flow meters at the facility?	Yes	If NO, prepare it
6	How many sludge sampling points are there?	01	NA

Please indicate one Disposal Pathway used for sludge:

Descriptions of Disposal Pathway	Answer (Yes/No)
A - Offsite Incineration at >1000°C	No
B - Landfill with Significant Control Measures	No
C - Building Products Processed at >1000°C	Yes
D - Landfill with Limited Control Measures	No
E - Offsite Incineration and Building Products Processed at < 1000°C	No
F - Landfills with No Control Measures	No
G - Land Application	No

Sign with date & Seal of the facility responsible person:




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Declaration for ZDHC Sludge Disposal Pathway C

(Sludge sent to Building Products manufacturing processes operated at temperatures greater than or equal to 1000°C. The ash generated by the incineration process must be incorporated into the building product.)
Examples of Building Products in this category can include: concrete, concrete aggregates, ceramics, brick, mortar, stucco, grout, and more).

Reference: ZDHC Sludge Reference document V1.0 and ZDHC Wastewater Guidelines

Manufacturing facility name: Taraxima Apparel Ltd.ZDHC Gateway ID: A369EQ24Location: Golora, Kajita, Sattaria, Manikganj-1810.

The undersigned manufacturing facility representative declares the following:

· Our sludge is disposed of in a Building Products manufacturing process operated at temperatures of 1000 C or greater, and that the facility receives our sludge and processes it through their Building Products manufacturing facility.

· That the Building Products manufacturing facility holds the required legal license/authorisation to operate /permit/ other similar documentation that allows the facility to operate and accept the reference sludge and process it through the facility. (Provide copies of the documentation.)

We also declare the following information based on the information received from the facility where our sludge is disposed of and that this information is true and accurate to the best of our knowledge:

Name and address of Building Products manufacturing facility:

LafargeHolcim Bangladesh Limited.Operating temperature and dwell time of the sludge in the Building Products manufacturing process:
1150°C & 20 minutesDescription of the Building Products being manufactured: Clinker & CementUse of the Building Products being manufactured: Civil constructionFlue gas treatment steps for the process: post-combustion processes to convert NO_x to molecular nitrogen or nitrates.Percentage of Total Building Products process mass inputs represented by the sludge: 0.5%

(Signature) [Signature]
Name and designation of authorised signatory from the textile manufacturing facility:
Date: Md. Shariful Islam, Executive-EMS

*checked and validated
Md. Shaheen Alam*



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UL VS Bangladesh Ltd.
ZDHC Wastewater Sampling Field Data and Representative Sample Declaration

Primary Data	
Laboratory Sample Number/ Project No.	1002652234
Client Name	Tarasma Apparels Ltd
Field Contact Person	Mahbubur Rahman/01871001221
Facility Name and Address	Tarasma Apparels Ltd, Golara, Kaitta, Sattaria, Manikganj-1810 Manikganj Dhaka Bangladesh.
Sampler's Name & ZDHC ID	Md Shaheen Alam, C74D106817971
Date of Collection	18-Mar-25
Sampling Location	Wastewater before Treatment-Untreated Wastewater sampling point
Reference Sampling Guideline	ZDHC Wastewater and Sludge Laboratory Sampling and Analysis Plan (SAP) Version 2.1
Sampling Type	Composite Sampling/ Approved Grab
Discharge Mode	Direct Discharge / Indirect Discharge with Pretreatment / Indirect Discharge without Pretreatment/ Zero Liquid Discharge (ZLD)
Factory Type	Dyeing/Printing/Washing/Finishing/footwear/Others (Please specify)

Field Data	Arrival Time:	2:15 am/pm			Departure Time:	3:15 am/pm			
Sample Matrix (If Yes, X)	X	Wastewater before Treatment-Untreated Wastewater							
Field Parameters	Recording Time	09:40 AM	10:40 AM	11:40 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	Average
Wastewater Flow Meter, L/min		142.0	1308.3	1321.7	1401.7	1373.3	1321.7	1401.7	1371.2
Flow Rate(m ³ /hour) [cf. Factory Flow Meter □ Manual]		85.2	78.5	82.3	84.1	82.4	79.3	84.1	82.3
Flow Rate(m ³ /Day)		1574.5							
Retention time of the equalization tank, Hours		1.822 13.00							
Color		1.822 13.00							
Number of sample Container	6 (2.5L)	1 (0.25 L)	2 (1L)						Bottle Quantity X Bottle Volume = Total Volume
Volume Collected, L	6 X 2.5 = 15 L	1X0.25= 0.25 L	2 X 1L = 2L						17.25 L
Total Volume Collected, L	17.25 L								

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

Wastewater Sample Containers and Preservatives	Test Name (Conventional Parameters & MSD)	Required Test (L)	Required Sample Volume (ml)	Sample Container Pre-treatment Process & Preservation
	Biochemical Oxygen Demand(BOD5)	---	---	
	Chloride, Colour, Conductivity, TDS, TSS, Sulfate	---	---	
	AP and APEDCs including all isomers	X	---	
	Azide, Microtox & Biocides	X	---	
	Chromate/Pentate	X	---	
	Chlorobenzenes and Chlorotoluenes	X	---	
	Chlorophenols	X	---	
	Dimethyl Formamide (DMF)	X	---	
	Dye - Carcinogenic or Equivalent Concern	X	1000	1. Amber glass rinsed with Nitric acid, rinsed thoroughly with distilled water and dried before use, keep cool between 2°C to 8°C (2.5L, 8 bottles)
	Dye - Disperser (Azoaromatic)	X	---	
	Dye - Navy Blue Colourant	X	---	
	Flame Retardants	X	---	
	Glycols / Glycol Ethers	X	---	
	Organotin Compounds	X	---	
	Other Miscellaneous Chemicals	X	---	
	Preservatives - including all other esters of ortho-phthalic acid	X	---	
	Polyaromatic Hydrocarbons (PAHs)	X	---	
	Restricted Aromatic Amines (Cresols from App-colourants)	X	---	
	UV Absorbers	X	---	
	Perfluorinated and Polyfluorinated Chemicals (PFCA)	X	1000	2. Plastic with no PF lined lid, keep cool between 2°C and 8°C
	Halogenated Solvents	---	250	3. Amber glass cleaned with Nitric acid, rinsed thoroughly with distilled water and dried before use, HCl < pH 2, keep cool between 2°C and 8°C
	Volatile Organic Compounds (VOC)	X	250	3. Amber glass cleaned with Nitric acid, rinsed thoroughly with distilled water and dried before use, HCl < pH 2, keep cool between 2°C and 8°C
	Heavy Metals (All metals except Cr-VI)	X	1000	4. Amber glass rinsed with Nitric acid, Pre-add 6.5ml of 2M HNO3, HNO3 < pH 2, keep cool between 2°C to 8°C
	Cr(VI)	---	250	5. PE, Washes with pesticide grade Acetone, 0.45um filter in field, add buffer to pH 9.0-9.5, keep cool between 2°C to 8°C
	Cyanide	---	250	6. PE, Washes with pesticide grade Acetone, NaOH > 12 pH, Add 0.1 ml of 10% Sodium ThioSulfate, keep cool between 2°C to 8°C
	Chemical Oxygen Demand(COD)	---	---	
	Phenols	---	---	
	Total Nitrogen	---	3000	7. Amber glass rinsed with Nitric acid, Pre-add 6.5ml of 2M H2SO4, H2SO4 < pH 2, keep cool between 2°C to 8°C (1L, 3 bottles)
	Oil & Grease	---	---	
	Amonia-Nitrogen	---	---	
	Total Phosphorus	---	---	
	Adsorbable organically bound halogen(AOH)	---	250	8. Amber glass rinsed with Nitric acid, Pre-add 6.5ml of 2M HNO3, HNO3 < pH 2, keep cool between 2°C to 8°C
	Sulfite	---	250	9. PE, Washes with pesticide grade Acetone, 2.5 ml 2.5N EDTA, keep cool between 2°C to 8°C
	Sulfate	---	250	10. PE, Washes with pesticide grade Acetone, 30 drops 2N Zinc Acetate, NaOH < pH 9, keep cool between 2°C to 8°C
	Ecst	---	500	11. PE, clean, sterile, non-reactive, 0.1 ml of 10% Sodium ThioSulfate, keep cool between 2°C to 8°C

Remarks:

- The minimum composite sampling time for ZDHC guideline is 6 hours with no more than 1 hour between discrete samples.
- If the retention time of the equalization tank is 12 hours/ more than untreated & effluent samples can be collected once and that sample is considered a composite.
- ZDHC Wastewater Sampling Facility confirmation:**
The wastewater sample has been collected under the facility's normal production scale and wastewater flow rate. The sampler below was on-site and collected the sample.

Sampler's Name	Md Shaheen Alam	Date	18-Mar-25
Sampler's ZDHC Accreditation	C74D106817971	Date	18-Mar-25
Sampler's Signature	<i>Shaheen</i>	Date	18-Mar-25
Facility Representative Name	Mahbubur Rahman	Date	18-Mar-25
Facility Representative Signature & Stamp	<i>Mahbubur Rahman</i>	Date	18-Mar-25
Laboratory Received Temperature (T) & Time	5.30C, 5:50 AM	Date	18-Mar-25
Sample Received by (Laboratory Person) & Date	<i>Mehedi</i>	Date	18-Mar-25

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UL VS Bangladesh Ltd.
ZDHC Wastewater Sampling Field Data and Representative Sample Declaration

Primary Data

Client Name: Tarasana Apparel Ltd.
 Facility Name and Address: Tarasana Apparel Ltd. Gabor, Katta, Sabur, Manikganj-1810 Manikganj (Dhaka) Bangladesh.
 Date of Collection: 18-Mar-25
 Sampling Location: Discharge water after Treatment/Wastewater at discharge point (Effluent)
 Reference Sampling Guidelines: ZDHC Wastewater and Sludge Laboratory Sampling and Analysis Plan (SAP) Version 2.1
 Sampling Type: Composite Sampling / Approved Grab
 Discharge Mode: Indirect Discharge / Indirect Discharge with Treatment / Indirect Discharge without Treatment/ Zero Liquid Discharge (ZLD)
 Factors Type: Dyeing / Finishing / Knitting / Finishing / Footwear / Others (Please specify)

Field Data	Actual Time	8:15	am/pm	Departure Time	3:15	am/pm
Sample Matrix (if Yes, X)	X	Wastewater After Treatment - Effluent				
Field Parameters		1	2	3	4	5
Recording Time		09:10 AM	10:10 AM	11:10 AM	12:10 PM	1:10 PM
pH		7.5	7.5	7.4	7.5	7.4
Temperature difference (°C)		2.5	2.8	2.6	2.9	2.1
Temperature-Discharge Pipe (°C)		21.4	21.2	21.4	22.0	21.6
Temperature-Receiving Water (°C)		23.2	24.0	23.0	23.3	23.6
Dissolved Oxygen (DO)		2.5	2.4	2.4	2.5	2.4
Total Chlorine		2.01	2.01	2.01	2.01	2.01
Persistent Foam (Visible/ Not Visible-Please specify)		Not Visible	Not Visible	Not Visible	Not Visible	Not Visible
ZDHC Wastewater Flow Dimension		N/A				
Measurement (cm)		Meter	Pipe (O)	Fume (U)	Wet (V)	
Diameter		NA	NA	NA		
Depth		NA	NA	NA		
Wastewater / Flow Meter, L/min		1301.7	1326.7	1326.7	1350	1338.3
Flow Rate(m ³ /hour) Factory Flow Meter □ Manual		78.1	80.2	79.6	81.0	80.3
Flow Rate(m ³ /Day)		1919.5				
Retention time of the equalization tank, hours						
Color		Light Brown				
Number of sample Container		2 (2.5L)	4 (1L)	5 (0.25L)	1 (0.5L)	
Volume Collected, L		2 X 2.5 = 5.0	4 X 1.0 = 4.0	5 X 0.25 = 1.25	1 X 0.5 = 0.5	10.75 L
Total Volume Collected, L		10.75 L				
ZDHC Wastewater Sampling Field Testing QA/QC		LCS/ Known	LCS/ Measured	Accuracy %		
pH		7.0	7.01	100.14		
Total Chlorine, mg/L		1.0	0.96	96		
Wastewater Sample Containers and Preservatives						
Tests Name [Conventional Parameters & MSRL]	Required Test (K)	Required Sample Volume (ml)	Sample Container Pre-treatment Process & Preservation			
Biochemical Oxygen Demand(BOD5)	X		1. Amber glass cleaned with Nitric acid, rinsed thoroughly with distilled water and dried before use, keep cool between 2°C to 8°C (2.5L_2 Bottle)			
Chlorine, Color, Conductivity, TDS, TSS, Sulfate	X					
AP and APE/Oc, including all isomers	---					
Asp- Microbials & Bioicides	---					
Chlorinated Paraffins	---					
Chlorobenzenes and Chlorotoluenes	---					
Chlorophenols	---					
Dimethyl Formamide (DMF)	---					
Dyes - Carcinogenic or Equivalent Concern	---					
Dyes - Disperse (Dispersing)	---	5000				
Dyes - Navy Blue Colourant	---					
Flame Retardants	---					
Organic Chloro Ethers	---					
Organotin Compounds	---					
Other/Metallocene Chemicals	---					
Phthalates - including all other isomers of ortho-phthalic acid	---					
Polycyclic Aromatic Hydrocarbons (PAHs)	---					
Restricted Aromatic Amines (Cleavable from Azo-colourants)	---					
UV Absorbers	---					
Perfluorinated and Polyfluorinated Chemicals (PFCA)	---	1000	2. Plastic with no FP lined lid, keep cool - between 2°C and 8°C			
Halogenated Solvents	---	250	3. Amber glass cleaned with Nitric acid, rinsed thoroughly with distilled water and dried before use, HCl + pH 2, keep cool - between 2°C and 8°C			
Unstable Organic Compounds (UOC)	X	1000	4. Amber glass rinsed with Nitric acid, Pre-add 6.5ml of 2M HNO3, HNO3 < pH 2, keep cool between 2°C to 8°C			
Heavy Metals (All metals except Cr-VI)	X	250	5. PE, Washes with pesticide grade Acetone, 0.45um filter in field, add buffer to pH 9.0-9.5, keep cool between 2°C to 8°C			
Cu(II)	X	250				
Cyanide	X	250	6. PE, Washes with pesticide grade Acetone, NaOH > 12 pH, Add 0.1 ml of 10N Sodium Thiosulfate, keep cool between 2°C to 8°C			
Chemical Oxygen Demand(COD)	X					
Phenolic	X					
Total Nitrogen	X	3000	7. Amber glass rinsed with Nitric acid, Pre-add 6.5ml of 2M H2SO4, H2SO4 + pH 2, keep cool between 2°C to 8°C (1_3 Bottle)			
Oil & Grease	X					
Elemental Nitrogen	X					
Total Phosphorous	X					
Adsorbable organically bound halogens(AOH)	X	250	8. Amber glass rinsed with Nitric acid, Pre-add 6.5ml of 2M HNO3, HNO3 < pH 2, keep cool between 2°C to 8°C			
Sulfide	X	250	9. PE, Washes with pesticide grade Acetone, 2.5 ml 2.5N EDTA, keep cool between 2°C to 8°C			
Sulfate	X	250	10. PE, Washes with pesticide grade Acetone, 10 drops 3N Zinc Acetate, NaOH > pH 9, keep cool between 2°C to 8°C			
Lead	X	500	11. P, clean, sterile, non-reactive, 9.1 ml of 10N Sodium Thiosulfate, keep cool between 2°C to 8°C			

Remarks

- * The minimum sampling time for ZDHC guideline is 5 hours with no more than 1 hour between discrete samples.
- * If the retention time of the equalization tank is 12 hours/ more than untreated & effluent samples can be collected once and that sample is considered a composite.
- * ZDHC Wastewater Sampling facility confirmation: The wastewater sample has been collected under the facility's normal production scale and wastewater flow rate. The sampler below was on-site and collected the sample.

Sampler's Name: Add Shabane Alam
 Sampler's ZDHC Accreditation: C140106817971
 Sampler's Signature: *Shabane*
 Facility Representative Name: *Contributor Name*
 Facility Representative Signature & Stamp: 
 Laboratory Received Temperature (°C) & Time: 5.0°C, 5:50 AM
 Sample Received By (Laboratory Person) & Date: *Mehedi*, 18-Mar-25

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Mar. 27, 2025
UL ORDER NO: 15747410
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UL VS Bangladesh Ltd.
ZDHC Wastwater Sampling Field Data and Representative Sample Declaration

Primary Data	
Laboratory Sample Number/ Project No.	1002652234
Client Name	Tarasima Apparels Ltd.
Field Contact Person	Mahbubur Rahman/01871001221
Facility Name and Address	Tarasima Apparels Ltd. Golora, Kaitta, Satoria, Manikganj-1810 Manikganj Dhaka Bangladesh.
Sampler's Name & ZDHC ID	Md Shaheen Alam, C74D106817971
Date of Collection	18-Mar-25
Sampling Location	Sludge Sampling Point
Reference Sampling Guideline	ZDHC Wastewater and Sludge Laboratory Sampling and Analysis Plan (SAP) Version 2.1
Sampling Type	Composite Sampling/ Approved Grab
Discharge Mode	Direct Discharge / Indirect Discharge with Pretreatment / Indirect Discharge without Pretreatment/ Zero Liquid Discharge (ZLD)
Factory Type	Dyeing/Printing/Washing/Finishing/Footwear/Others (Please specify)

Field Data	
Field with effluent treatment plant. (If Yes, X)	NO
Sample Matrix (If Yes, X)	X Sludge
Field Parameters	1 2 3 4 5 6 7
Recording Time	2:30 AM
Sludge Type	SOLID
Color	Grey
Number of sample Container	6 (1L) 2 (0.5L)
Volume Collected, L	6 X 1 L = 6 L 2 X 0.5 L = 1 L
Total Volume Collected, L	7 L

ZDHC Defined Seven Sludge Disposal Pathways	
Put V mark against factory has been using current sludge disposal pathway with sludge reference documents	
<input type="radio"/> ZDHC Disposal Pathway A - Offsite Incineration at >1000°C	Sludge Reference Documents (X)
<input type="radio"/> ZDHC Disposal Pathway B - Landfill with Significant Control Measures	
<input checked="" type="radio"/> ZDHC Disposal Pathway C - Building Products Processed at >1000°C	
<input type="radio"/> ZDHC Disposal Pathway D - Landfill with Limited Control Measures	
<input type="radio"/> ZDHC Disposal Pathway E - Offsite Incineration and Building Products Processed at <1000°C	
<input type="radio"/> ZDHC Disposal Pathway F - Landfills with No Control Measures	
<input type="radio"/> ZDHC Disposal Pathway G - Land Application	

Wastewater Sample Containers and Preservatives			
Tests Name (Conventional Parameters & MRLS)	Required Test (X)	Required Sample Volume (ml)	Sample Container Pre-treatment Process & Preservation
AP and APEOs: including all isomers	X	3000	1. P. cleaned with Nitric acid, rinsed thoroughly with distilled water and dried before use, 0.008% Na2S2O3 V/W; keep cool between 2°C to 8°C (1L_3 Bottle)
Chlorotoluenes	X		
Polycyclic Aromatic Hydrocarbons (PAHs)	X		
Heavy Metals (All metals except Cr-VI)	X	1000	2. P. Rinsed with Nitric acid, Pre-add 6.5ml of 2M HNO3, HNO3 < pH 2, keep cool between 2°C to 8°C
Cr(VI)	X	500	3. P. Washes with pesticide grade Acetone, keep cool between 2°C to 8°C
Cynaide	X	1000	4. P. Washes with pesticide grade Acetone, NaOH > 12 pH (Approx 2-ml 10N NaOH), keep cool between 2°C to 8°C
% Solids	X		
Paint Filter Test	X	1000	5. P. Cleaned with distilled water and dried before use, keep cool between 2°C to 8°C
pH	X		
Faecal Coliform	X	500	6. P. Cleaned, sterile, non-reactive, 0.1 ml of 10% Sodium Thiosulfate keep in the dark and cool between 2°C and 8°C

Remarks

- For solid sludge samples (cake, powder, ash), adding a chemical preservative is generally not useful since the preservative does not usually penetrate the sludge matrix. Preservation is achieved by keeping the temperature between 2°C and 8°C.
- When collecting samples, fill the container to 4/5 full to enable expansion of samples and provide room for gases that may be produced.
- The minimum sampling time for ZDHC guideline is 6 hours with no more than 1 hour between discrete samples.

ZDHC Wastewater Sampling-Facility confirmation:
 The wastewater sample has been collected under the facility's normal production scale and wastewater flow rate. The sampler below was on-site and collected the sample.

Sampler's Name	: Md Shaheen Alam	Date	: 18-Mar-25
Sampler's ZDHC Accreditation	: C74D106817971		
Sampler's Signature	<i>Shaheen</i>		
Facility Representative Name	: Mahbubur Rahman	Date	: 18-Mar-25
Facility Representative Signature & Stamp		Date	: 18-Mar-25
Laboratory Received Temperature (°C) & Time	: 5.1°C; 5:32 PM	Date	: 18-Mar-25
Sample Received By (Laboratory Person) & Date	: Mehedi	Date	: 18-Mar-25



***** End of Report *****

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UL VS Terms and Conditions

All services are governed by the following Terms and Conditions.

- Verification Services.** The UL Contracting Party ("we", "us", or "our" as the context requires) will perform commercial testing, verification, audit, assessment, inspection, and/or other services ("Services") in accordance with your instructions as described in this order, scope of work, project proposal, quotation, or order acknowledgment ("Quotation"). The Services will be limited to an assessment of your samples' conformity to requirements, specifications, and/or protocols you have established ("Your Requirements"), and do not express any opinion regarding the bulk from which the samples were drawn. The Services do not involve any assessment or evaluation to independent safety standards, and we and our affiliates have no responsibility to make any independent safety assessment of any samples.
- Retailer Programs.** If you request us to test compliance with retailer, carrier or other third party program ("Retailer") by requesting Services under the Retailer's program, you consent to our disclosure of all associated information, materials, and deliverables to such Retailer and acknowledge that, notwithstanding any terms to the contrary in these Service Terms, the ownership of the deliverables for the Services will be in accordance with the Retailer's program.
- Payment Terms.** You will pay, without set off, our fees and related expenses in accordance with the Quotation including the cost of all taxes, wire or transfer fees, duties, and other fiscal charges which become due on the quoted price and will indemnify us from and against liabilities, incurred as a result of failure to pay any such sums when they become due. We may charge interest at 1% per month (12% per year), or the maximum legal rate if less than 1.0% per month, from the due date until paid fully. You agree to pay reasonable collection costs, including attorneys' fees, if necessary, in the event of late or non-payment.
- Your Requirements.** You are responsible for establishing or selecting all Your Requirements that we will use in performing the Services. We may provide you with assistance in developing Your Requirements that meet your needs, however, in all cases you must review and approve Your Requirements to be used in performing the Services.
- Estimated Schedule and Price.** Any time schedule and pricing terms set forth in this Quotation are estimates only and subject to change upon reasonable notice from us depending upon the specific project.
- On-Site Investigations.** If we perform Services on site at your facilities, or at the facilities of other parties as directed by you, you will ensure that our representatives have safe, secure, and free access to the facilities. Our access will not be conditioned upon the execution of any agreement, waiver, or release. If our representatives are prevented from performing or completing any Services for any reason beyond our reasonable control, we will not be responsible for the nonperformance, and you may be charged for any actual expenses we incur and fees for Services performed.
- Deliverables.** We will provide you with a report outlining: (i) your instructions and request for Services accepted by us, (ii) Your Requirements used in providing the Services, (iii) the Services performed, and (iv) the results of those Services. We are under no obligation to refer to or report on any facts or circumstances which are outside your specific instructions received and accepted by us.
- Our Findings.** We do not guarantee that our opinions or findings will be recognized or accepted by third parties.
- Use of Names and Marks.** Except as otherwise authorized by us in writing, you will not use our name, abbreviation, symbols, marks, or the name of any of our subsidiaries, affiliates, or parent on any goods or their containers or packaging, or in connection with any advertising, promotions, or otherwise.
- Cancellation Fees.** If you cancel or change a Quotation: (i) for an inspection after 3:00 PM of the working day before the scheduled inspection date, we will charge you the Quotation price plus any travel costs incurred before the cancellation; (ii) for testing after we receive the sample(s) at the testing facility, we will charge you cancellation fees according to the amount of actual work performed with a minimum cancellation fee of \$100 USD; or (iii) for a scheduled audit date, you will be responsible for all incurred non-refundable travel costs associate with that audit. Any change or cancellation of an audit that occurs within 7 days of the scheduled audit will be charged a \$600 USD fee in addition to any incurred travel costs.
- No Warranty.** NO REPRESENTATION, WARRANTY, OR GUARANTEE, EXPRESS OR IMPLIED, IS INCLUDED IN THESE TERMS AND CONDITIONS, OR IN ANY QUOTATION, REPORT, OR OTHER DOCUMENT PROVIDED UNDER THESE TERMS AND CONDITIONS INCLUDING, BUT NOT LIMITED TO: (i) ANY "IMPLIED WARRANTY OF MERCHANTABILITY" OR "FITNESS FOR A PARTICULAR PURPOSE", (ii) NON-INFRINGEMENT, AND (iii) THAT THE WEB SERVICES (AS DEFINED BELOW) WILL BE UNINTERRUPTED, TIMELY, SECURE, OR ERROR-FREE.
- Your Information.** You represent and warrant that all information and data provided to us by you, or on your behalf, is complete and accurate and may be relied upon to provide Services. In addition, you represent and warrant that all of Your Information is owned or licensed by you, and does not infringe on the intellectual property rights of any third party. If any information or data provided to us by you or on your behalf is either incomplete or inaccurate, we will not be liable in any manner for any deficiencies in the Services.
- Ownership of Work Product.** You will own the test reports or other materials provided to you pursuant to any Quotation. We may retain a copy of the test reports and other materials for our archives and for creating reports for you and third parties, as required by you.
- Web Services.** We may provide you with certain website tools and related services, including the ability to order services online through a website (collectively, the "Web Services"). The Web Services are provided to you as a convenience and are provided on an "as is, as available" basis. By using the Web Services, you acknowledge and agree that no data or content transmitted over our networks, the Internet, or wirelessly, or through or in connection with the Web Services, is guaranteed to be secure or free from unauthorized intrusion, and that data stored by us, our affiliates, or our service providers may be deleted, modified, or damaged. You acknowledge that if you wish to protect your transmission of data or files to us, it is your responsibility to use a secure encrypted connection to communicate with and use the Web Services. Your use of the Web Services is at your sole risk and is subject to any terms of use applicable to such Web Services. Web Services are included in the definition of Services above.
- Confidentiality.** We will not disclose your information obtained in confidence ("Confidential Information") to third parties, except our subsidiaries, affiliates, or subcontractors, without your prior written authorization. Confidential Information will not include information: (a) already known to us, (b) publicly available, (c) subsequently acquired by us from other sources without a breach of these Terms and Conditions, (d) disclosure that is necessary to perform the Services, (e) required to be produced by law or government order, or accreditation authority, or (f) related to a product bearing a UL Mark that should be disclosed to us or our affiliates pursuant to another agreement with you.
- Samples.** If we require sample examination, you will ship samples to us at your expense. Upon completion of testing, the samples will be destroyed, unless other arrangements are made for return of the samples at your expense. You acknowledge that testing and sample preparation may damage or destroy the sample(s), for which we will not be liable.
- LIMITATION OF LIABILITY.** OUR LIABILITY FOR ANY CLAIMS FOR LOSS, DAMAGE, OR EXPENSE OF ANY NATURE AND HOWSOEVER ARISING FOR ANY BREACH OF CONTRACT AND/OR ANY FAILURE TO EXERCISE APPROPRIATE SKILL AND CARE BY US WILL UNDER NO CIRCUMSTANCE EXCEED THE FEES RECEIVED FOR THE SPECIFIC SERVICES WHICH GIVE RISE TO SUCH CLAIMS. UNDER NO CIRCUMSTANCE WILL WE HAVE ANY LIABILITY FOR ANY CLAIMS FOR INDIRECT, CONSEQUENTIAL, INCIDENTAL, SPECIAL, EXEMPLARY, OR PUNITIVE DAMAGES OF ANY NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO: LOSS OF PROFITS, GOODWILL, USE, DATA, FUTURE BUSINESS, OR PRODUCTION; CANCELLATION OF CONTRACTS ENTERED INTO BY YOU; OR OTHER INTANGIBLE LOSSES (EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES). UNDER NO CIRCUMSTANCE WILL WE BE LIABLE TO YOU FOR ANY CLAIMS FOR LOSS, DAMAGE, OR EXPENSE UNLESS SUCH CLAIM IS BROUGHT UNDER SECTION 24 (DISPUTES) WITHIN TWELVE MONTHS AFTER THE DATE OF THE PERFORMANCE BY US OF THE SERVICES WHICH GIVE RISE TO THE CLAIM OR, IN THE EVENT OF ANY ALLEGED NON-PERFORMANCE, WITHIN TWELVE MONTHS OF THE DATE WHEN SUCH SERVICES SHOULD HAVE BEEN COMPLETED.
- Indemnification.** You will defend, hold harmless, and indemnify us and our officers, directors, trustees, employees, agents, or subcontractors against all claims made by any third party for loss, damage, or expense arising out of these Terms and Conditions, including without limitation, the performance or non-performance of any Services or the Web Services.
- Waiver.** Any failure by a party to insist upon the performance of any section of these Terms and Conditions will not constitute a waiver of any rights under these Terms and Conditions or future performance of that section.
- No Third Party Beneficiaries.** The parties intend that no provisions of these Terms and Conditions will in any way bind or benefit any third party or the public at large and that no third party will have any rights or cause of action under these Terms and Conditions. In particular, in the event Singapore law governs these Terms and Conditions pursuant to Section 23 (Governing Law), a person or entity who is not a party to these Terms and Conditions will have no right under the Contracts (Rights of Third Parties) Act (Chapter 53B) to enforce any term of these Terms and Conditions, regardless of whether such person or entity has been identified by name, as a member of a class, or as answering a particular description.
- No Assignment.** Neither party may assign any of its rights or obligations under these Terms and Conditions to any other person without the other party's written authorization. However, we may, upon written notice, assign our rights and obligations under these Terms and Conditions to any of our affiliates or subsidiaries.
- Subcontracting.** We may use subcontractors for certain testing or other Services. All subcontractors will meet our current qualification requirements and will comply with our requirements for confidentiality, conflicts of interest, and ethical standards.
- Termination and Notice.** These Terms and Conditions will continue in effect until terminated by either party upon thirty days written notice or, in the event of your breach of these Terms and Conditions, immediately upon receipt of written notice to you. You will pay those fees and expenses incurred by us prior to termination. Notice to either party may be made by hand delivery, courier service, mail, facsimile, or e-mail transmission at the receiving party's designated principal place of business. Notice to us must be sent both to: UL Verification Services Pte. Ltd, Attn: President, 1 Maritime Square, Harbour Front Centre, #11-03, Singapore 099253 with a copy to UL LLC, Attn.: General Counsel at 333 Pfingsten Road, Northbrook, Illinois 60062. Notice will be effective upon receipt.
- Governing Law:** These Terms and Conditions will be governed and interpreted by the laws of the State of Illinois, United States of America, except if: (i) UL Contracting Party's principal place of business is Asia, Australia, or New Zealand, then Singapore law, and (ii) UL Contracting Party's principal place of business is Europe, then Swiss law, without reference to the applicable jurisdiction's choice of law principles.
- Disputes.** Any dispute or disagreement, other than nonpayment of fees, relating to these Terms and Conditions or the Services, will be settled by confidential, binding arbitration administered by the International Centre for Dispute Resolution of the American Arbitration Association ("AAA") pursuant to the AAA Commercial Arbitration Rules and the Procedures for Large, Complex Commercial Disputes. The arbitration venue will be Chicago, Illinois, except if: (i) UL Contracting Party's principal place of business is in Europe, the venue will be Geneva, Switzerland, and (ii) UL Contracting Party's principal place of business is in Asia, Australia, or New Zealand, the venue will be Singapore, Republic of Singapore. The arbitration will be conducted before a panel of three (3) arbitrators. The arbitration panel will be selected as follows: the parties will request a list of ten (10) arbitrators drawn from the AAA's panel of commercial arbitrators (who are experienced in and familiar with the AAA's Procedures for Large, Complex Commercial Disputes). From this list, both parties will each choose one arbitrator. After they have been notified of their panel selection, the two (2) arbitrators will agree on a third arbitrator from the list of ten (10), who will be the chair of the panel, and the panel will be final. The decision of the majority of the arbitrators will be the panel's decision. The arbitrators will not have the authority to add, change, or disregard any term of these Terms and Conditions to award incidental, consequential, or punitive damages (including, but not limited to, loss of use, unjust enrichment, and/or lost profits), or exceed the remedies provided by the limitation of liability of these Terms and Conditions. The panel's decision will be binding and judgment on the arbitration award may be entered by a court of competent jurisdiction. Arbitration will be the final remedy for any dispute between the parties arising out of these Terms and Conditions, provided, however, that nothing herein will prevent either party from seeking a court order for injunctive relief (in addition to other remedies) to stop or prevent misuse or misappropriation of its marks, confidential or proprietary information, or infringement of its intellectual property, in a court of law. All arbitrations will be conducted in English.
- Severability.** If any section of these Terms and Conditions is held invalid, void, or unenforceable for any reason that section will be severed, and all other sections of these Terms and Conditions will remain valid to the extent permissible under law.
- Modifications.** These Terms and Conditions are the entire and complete agreement between the parties and supersede any other communications, representations, or agreements with respect to its subject matter. Under no circumstances will any preprinted, additional, or different terms and conditions on your requests for quotation, purchase orders, invoices, sales or marketing materials, emails, any acceptance communications, or other business documents apply to any Services or Quotation or bind us in any manner. Modifications that have not been made by us or that have not been accepted by us in a written or emailed confirmation from us are not accepted by us, and commencement of performance will not signify acceptance by us of any such modifications. Any such modifications are excluded from our agreement, and such modifications will not be a binding agreement on us.
- Order of Precedence.** Except for conflicts with Section 2 (Payment Terms), Section 4 (Estimated Schedule and Price) and Section 9 (Cancellation Fees), these Terms and Conditions will take precedence over any conflicting terms in any Quotation.
- Electronic Signature.** These Terms and Conditions may be executed and delivered by facsimile, PDF, or by means of other electronic signature. Our electronic, digital, or hard copies of these Terms and Conditions, your acceptance, and Quotations as signed, or otherwise accepted, by you will be the true, complete, valid, authentic, and enforceable copies of these documents. You agree that you will not contest the admissibility or enforceability of our copies in a court or any proceeding arising out of such documents.
- Force Majeure.** Neither party will be liable for any failure or delay in the performance of its obligations due to fire, flood, earthquake, elements of nature, or acts of God, acts of war, terrorism, riots, civil disorder, rebellions, or other similar cause beyond the reasonable control of the party affected, provided such default or delay: (i) could not have been prevented by reasonable precautions; (ii) cannot reasonably be circumvented; (iii) and the party hindered or delayed immediately notifies the other party describing the circumstance causing delay.