



**BUREAU
VERITAS**

LAB REPORT

Report Number	(8724)255-0270		
Date of sampling	September 10, 2024		
Reporting Date	September 19, 2024		
Factory Company Name	SHAHI EXPORTS PRIVATE LIMITED ,WPD, Unit-105		
Factory Address	#156, KIADB Industrial area, Nidige Machenahalli, Shimoga, Karnataka - 577222.		
Discharge Type	Zero Liquid Discharge		
Discharge Destination	No Industrial Wastewater Discharged from facility (Reuse back to Production)		
Average total industrial wastewater generated	Equal or more than 15m ³ /day	Manufacturing Process Type	Textile
Onsite ETP / Pretreatment	Yes	Homogenization Tank & Holding Time	Yes / 8 hrs
ZDHC Sampler ID	ZDHC-A-24-E-C001068-R43C2-35D86		
Sample Type & Description & Sampling Method	Untreated wastewater I001, Navy Blue Colour Liquid, Composite Sample		
	Effluent I002, Not Applicable		
	Sludge I003, Black Colour Soild, Composite Sample		

Local Legal Data / Contractual agree by CETP Data	
Local Legal Standard Name / Name of Contractual agree by CETP^[a]	NA
Standard Number	NA
Parameters (ZDHC WWG V2.1, Table 2 & 3) exceeded local legal standard / contractual agree by CETP standard	Not applicable
Discharge permit provided	Yes

Result Overview			
Wastewater Overall Result (ZDHC WWG V2.1, Table 1)	Not detected		
Wastewater Overall Result (ZDHC WWG V2.1, Table 2 & 3)	Not applicable		
Sludge Disposal Pathway	B	Sludge Overall Result	Meet Sludge Disposal Pathway

Internal Description	
Sample reference number	(8724)255-0270
Date & time of the beginning of sampling	September 10, 2024 , 10:30 AM
Date & time of the end of sampling	September 10, 2024 , 04:00 PM
Sample received date	September 11, 2024 , 08:00 AM
Testing period	September 11, 2024 to September 19, 2024
Arrival temperature at laboratory	29 °C
Comments	Samples received within holding time and temperature.

The results of this report shall not be used for any regulatory compliance purposes. The sampling is agreed with client.

If there are questions or concerns on this report, please contact the following persons:

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Technical enquiry Mr. SUDALAIMUTHU.VS
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Report approved by



P. Sugumar, Lab Manager - Analytical Services

Certificate No. QAI/CLA/TL/2023/0012 (PIs refer the website www.qai.org.in to view the scope of accreditation)

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



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Wastewater Result Summary - ZDHC MRSL Parameters

ZDHC MRSL Wastewater	Untreated I001
1A) AP and APEOs: including all isomers	ND
1B) Anti-Microbials & Biocides	ND
1C) Chlorinated Parafins	ND
1D) Chlorobenzenes and Chlorotoluenes	ND
1E) Chlorophenols	ND
1F) DMFa	ND (S)
1G) Dyes - Carcinogenic or Equivalent Concern	ND
1H) Dyes - Disperse (Sensitising)	ND
1I) Dyes - Navy Blue Colourant	ND
1J) Flame Retardants	ND
1K) Glycols / Glycol Ethers	ND
1L) Halogenated Solvents	ND (S)
1M) Organotin Compounds	ND
1N) Other / Miscellaneous Chemicals	ND
1O) PFCs	ND
1P) Phthalates	ND
1Q) PAHs	ND
1R) Restricted Aromatic Amines	ND
1S) UV Absorbers	ND
1T) VOC	ND (S)



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Wastewater Result Summary - ZDHC Heavy Metals Parameters

ZDHC Heavy Metals Wastewater	Effluent I002
Antimony	NA
Chromium (VI)	NA
Barium	NA
Selenium	NA
Tin	NA
Arsenic	NA
Total Chromium	NA
Cobalt	NA
Cadmium	NA
Copper	NA
Lead	NA
Nickel	NA
Silver	NA
Zinc	NA
Mercury	NA



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Wastewater Result Summary - ZDHC Conventional and Anions Parameters

ZDHC Conventional and Anions Wastewater	Effluent I002
pH ^[f]	NA
Temperature difference ^[f]	NA
E.coli	NA
Colour	NA
Persistent foam ^[f]	NA
Wastewater flowrate ^[f]	NA
Ammonium-Nitrogen	NA
AOX	NA
Biochemical Oxygen Demand (BOD ₅)	NA
Chemical Oxygen Demand (COD)	NA
Dissolved Oxygen (DO) ^[f]	NA
Oil & Grease	NA
Total Phenols / Phenol Index	NA
Total Chlorine ^[f]	NA
Total Dissolved Solids (TDS)	NA
Total Nitrogen	NA
Total Phosphorus	NA
Total Suspended Solids (TSS)	NA
Chloride	NA
Cyanide, total	NA
Sulfate	NA
Sulfide	NA
Sulfite	NA



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Sludge Result Summary - ZDHC Sludge Parameters

Sludge Parameters	Sludge I003
Antimony	MEET
Arsenic	MEET
Barium	MEET
Cadmium	MEET
Cobalt	MEET
Copper	MEET
Lead	MEET
Nickel	MEET
Selenium	MEET
Silver	MEET
Total Chromium	MEET
Zinc	MEET
Chromium (VI)	MEET
Mercury	MEET
pH	DATA
% Solids	DATA (S)
Paint Filter Test	DATA
Fecal Coliform	DATA (S)
AP and APEOs: including all isomers	MEET
Polycyclic Aromatic Hydrocarbons (PAHs)	MEET
Chlorotoluenes	MEET
Cyanide	MEET (S)

Sludge flux and/or sludge flow data: NA

Note / Key:

- | | | | | | |
|-----------------|---|---|-----|---|---------------------------|
| ND | = | Not detected (less than reporting limit) | NA | = | Not applicable |
| D | = | Detected | - | = | Did not perform |
| MEET | = | Meet ZDHC Wastewater Guidelines Requirements | [f] | = | Parameter tested in field |
| NOT MEET | = | Not Meet ZDHC Wastewater Guidelines Requirements | | | |
| DATA | = | Report only, refer data | | | |
| (T) | = | Handling temperature exceeded | | | |
| @ | = | Maximum holding time exceeded | | | |
| [a] | = | The local legal standard name and number are referenced to discharge permit (or contractual agree by CETP) that provided by company | | | |
| (S) | = | Analysis was subcontracted for testing - XXXXX | | | |
| * | = | See remark | | | |



Wastewater Test Result - ZDHC MRL

1A) AP and APEOs: including all isomers

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 dichloromethane extraction) or ASTM D7065 (GC-MS or LC-MS(-MS), OPEO/NPEO (n>2): ASTM D7742 ISO 18857-2

Table with 6 columns: Test Parameters, CAS Number, Reporting limit & LOQ, Result of Test Items (Untreated I001), and Unit. Rows include NPEO, NP, mixed isomers, OPEO, and OP, mixed isomers.

1B) Anti-Microbials & Biocides

US EPA 8270 E 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/ US EPA 8270 E Solvent extraction, followed by GC-MS ISO 14154:2005

Table with 6 columns: Test Parameters, CAS Number, Reporting limit & LOQ, Result of Test Items (Untreated I001), and Unit. Rows include o-Phenylphenol (+salts), Triclosan, and Permethrin.

1C) Chlorinated Paraffins

EPA 3510 and analyzed by ISO18219-2:2021 Method for MCCP with GC-MS(NCI) or LC-MS/MS

Table with 6 columns: Test Parameters, CAS Number, Reporting limit & LOQ, Result of Test Items (Untreated I001), and Unit. Rows include MCCPs (C14-C17) and SCCPs (C10-C13).

1D) Chlorobenzenes and Chlorotoluenes

USEPA 8260D, 8270E, Purge and Trap, Head Space, Dichloromethane extraction followed by GC-MS

Table with 6 columns: Test Parameters, CAS Number, Reporting limit & LOQ, Result of Test Items (Untreated I001), and Unit. Rows include 1,2-dichlorobenzene and Other isomers of mono-, di-, tri-, tetra-, penta-, and hexa- chlorobenzene and mono-, di-, tri-, tetra-, and penta-chlorotoluene.



1E) Chlorophenols

USEPA 8270E Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS, BS EN 12673-1999 the procedure of solvent extraction and derivatization are included

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
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
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

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

EPA 8015, EPA 8270E

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Dimethyl formamide; N,N-dimethylformamide (DMFa) ^a	68-12-2	1000	ND			µg/L

1G) Dyes - Carcinogenic or Equivalent Concern

Liquid extraction, LC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Basic violet 3 with >0.1% of Michler's Ketone	548-62-9	500	ND			µg/L
C.I. Acid Red 26	3761-53-3	500	ND			µg/L
C.I. Acid Violet 49	1694-09-3	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



1G) Dyes - Carcinogenic or Equivalent Concern (continued)

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
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
C.I. Basic Red 9	569-61-9	500	ND			µg/L
C.I. Basic Violet 14	632-99-5	500	ND			µg/L
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. Direct Red 28	573-58-0	500	ND			µg/L
C.I. Disperse Blue 1	2475-45-8	500	ND			µg/L
C.I. Disperse Blue 3	2475-46-9	500	ND			µg/L
Disperse Orange 11	82-28-0	500	ND			µg/L

1H) Dyes - Disperse (Sensitising)

Liquid extraction, LC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Disperse Blue 102	12222-97-8	50	ND			µg/L
Disperse Blue 106	12223-01-7	50	ND			µg/L
Disperse Blue 124	61951-51-7	50	ND			µg/L
Disperse Blue 26	3860-63-7	50	ND			µg/L
Disperse Blue 35 (CAS 12222-75-2)	12222-75-2	50	ND			µg/L
Disperse Blue 35 (CAS 56524-77-7)	56524-77-7	50	ND			µg/L
Disperse Blue 7	3179-90-6	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 Orange 3	730-40-5	50	ND			µg/L
Disperse Orange 37/59/76	13301-61-6	50	ND			µg/L
Disperse Red 1	2872-52-8	50	ND			µg/L
Disperse Red 11	2872-48-2	50	ND			µg/L
Disperse Red 17	3179-89-3	50	ND			µg/L
Disperse Yellow 1	119-15-3	50	ND			µg/L
Disperse Yellow 3	2832-40-8	50	ND			µg/L
Disperse Yellow 39	12236-29-2	50	ND			µg/L
Disperse Yellow 49	54824-37-2	50	ND			µg/L
Disperse Yellow 9	6373-73-5	50	ND			µg/L



1I) Dyes - Navy Blue Colourant

Liquid extraction, LC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Component 1: C ₃₉ H ₂₃ Cl-CrN ₇ O ₁₂ S ₂ Na	118685-33-9	500	ND			µg/L
Component 2: C ₄₆ H ₃₀ CrN ₁₀ O ₂₀ S ₂ 3Na	Not allocated	500	ND			µg/L

1J) Flame Retardants

USEPA 8270E, ISO 22032, USEPA 527 and USEPA 8321B Dichloromethane extraction GC-MS or LC-MS(-MS)

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	ND			µg/L
Bis(2,3-dibromopropyl)phosphate (BIS)	5412-25-9	25	ND			µg/L
Decabromophenyl ether (DecaBDE)	1163-19-5	25	ND			µg/L
Hexabromocyclodecane (HBCDD)	3194-55-6	25	ND			µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	ND			µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	ND			µg/L
Polybromobiphenyls (PBB)	59536-65-1	25	ND			µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	25	ND			µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	ND			µg/L
Tris(1-aziridinyl)phosphone oxide (TEPA)	545-55-1	25	ND			µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	ND			µg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	ND			µg/L
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25	ND			µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	25	ND			µg/L
Dibromobiphenyls (DiBB)	Multiple	25	ND			µg/L
Octabromobiphenyls (OctaBB)	Multiple	25	ND			µg/L
Dibromopropylether	21850-44-2	25	ND			µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	ND			µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	ND			µg/L
Monobromobiphenyls (MonoBB)	Multiple	25	ND			µg/L



1J) Flame Retardants (continued)

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Monobromodiphenylethers (MonoBDEs)	Multiple	25	ND			µg/L
Nonabromobiphenyls (NonaBB)	Multiple	25	ND			µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	ND			µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	ND			µg/L
Tribromophenylethers (TriBDEs)	Multiple	25	ND			µg/L
Boric acid ^b	10043-35-3, 11113-50-1	100	ND			µg/L
Diboron trioxide ^b	1303-86-2	100	ND			µg/L
Disodium octaborate ^b	12008-41-2	100	ND			µg/L
Disodium tetraborate anhydrous ^b	1303-96-4, 1330-43-4	100	ND			µg/L
Tetraboron disodium heptaoxide, hydrate ^b	12267-73-1	100	ND			µg/L

1K) Glycols / Glycol Ethers

USEPA 8270E Liquid extraction, LC-MS GC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
2-ethoxyethanol	110-80-5	50	ND			µg/L
2-ethoxyethyl acetate	111-15-9	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
Bis(2-methoxyethyl)-ether	111-96-6	50	ND			µg/L
Ethylene glycol dimethyl ether	110-71-4	50	ND			µg/L
Triethylene glycol dimethyl ether	112-49-2	50	ND			µg/L

1L) Halogenated Solvents

USEPA 8260D Headspace GC-MS or Purge and trap GC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
1,2-dichloroethane	107-06-2	1	ND			µg/L
Methylene chloride	75-09-2	1	ND			µg/L
Tetrachloroethylene	127-18-4	1	ND			µg/L
Trichloroethylene	79-01-6	1	ND			µg/L



1M) Organotin Compounds

ISO 17353 Derivatisation with NaB (C₂H₅)₄ GC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Dipropyltin compounds (DPT)	Multiple	0.01	ND			µg/L
Mono, di-, and tri-butyltin derivatives	Multiple	0.01	ND			µg/L
Mono, di-, and tri-methyltin derivatives	Multiple	0.01	ND			µg/L
Mono, di-, and tri-octyltin derivatives	Multiple	0.01	ND			µg/L
Mono, di-, and tri-phenyltin derivatives	Multiple	0.01	ND			µg/L
Tetrabutyltin compounds (TeBT)	Multiple	0.01	ND			µg/L
Tripropyltin compounds (TPT)	Multiple	0.01	ND			µg/L
Tetraoctyltin compounds (TeOT)	Multiple	0.01	ND			µg/L
Tricyclohexyltin (TCyHT)	Multiple	0.01	ND			µg/L
Tetraethyltin compounds (TeET)	Multiple	0.01	ND			µg/L

1N) Other / Miscellaneous Chemicals

Liquid extraction, LC-MSMS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
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 - Borate, zinc salt ^c	12767-90-7	100	ND			µg/L
Zinc salt - Borate, zinc salt ^c		100	ND			µg/L
Silica (used in sand blasting) ^d	14464-46-1	-	NA			µg/L

1O) Perfluorinated and Polyfluorinated Chemicals (PFCs)

PFCs: EPA 537:2020FTOH: BS EN 12673-1999, EPA 8270PFCs: LC-MSMSFTOH: GC-MS Derivatisation with acetic anhydride followed by GC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA)	Multiple	0.01	ND			µg/L
Perfluorooctanoic acid (PFOA) related substances	Multiple	1	ND			µg/L



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

USEPA 8270E, ISO 18856 Dichloromethane extraction GC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
1,2-benzenedicarboxylic acid, di-C6-8 branched and linear alkyl esters, C7-rich (DIHP)	71888-89-6, 84777-06-0	10	ND			µg/L
1,2-benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP)	68515-42-4, 68515-50-4	10	ND			µg/L
Bis(2-methoxyethyl)phthalate (DMEP)	117-82-8	10	ND			µg/L
Butyl benzyl phthalate (BBP)	85-68-7	10	ND			µg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	ND			µg/L
Di-iso-decyl phthalate (DIDP)	26761-40-0	10	ND			µg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	ND			µg/L
Di-iso-butyl phthalate (DIBP)	84-69-5	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
Di-n-octyl phthalate (DNOP)	117-84-0	10	ND			µg/L
Di-n-pentylphthalates	131-18-0	10	ND			µg/L
Di-n-propyl phthalate (DPRP)	131-16-8	10	ND			µg/L
Di(ethylhexyl) phthalate (DEHP)	117-81-7	10	ND			µg/L
Dibutyl phthalate (DBP)	84-74-2	10	ND			µg/L
Diethyl phthalate (DEP)	84-66-2	10	ND			µg/L
Diisopentylphthalates	605-50-5	10	ND			µg/L
Dinonyl phthalate (DNP)	84-76-4	10	ND			µg/L

1Q) Polycyclic Aromatic Hydrocarbons (PAHs)

USEPA 8270E DIN 38407-39 Solvent extraction GC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Acenaphthene	83-32-9	1	ND			µg/L
Acenaphthylene	208-96-8	1	ND			µg/L
Anthracene	120-12-7	1	ND			µg/L
Benzo[a]anthracene	56-55-3	1	ND			µg/L
Benzo[a]pyrene (BaP)	50-32-8	1	ND			µg/L
Benzo[b]fluoranthene	205-99-2	1	ND			µg/L
Benzo[e]pyrene	192-97-2	1	ND			µg/L
Benzo[ghi]perylene	191-24-2	1	ND			µg/L
Benzo[j]fluoranthene	205-82-3	1	ND			µg/L
Benzo[k]fluoranthene	207-08-9	1	ND			µg/L
Chrysene	218-01-9	1	ND			µg/L
Dibenz[a,h]anthracene	53-70-3	1	ND			µg/L



1Q) Polycyclic Aromatic Hydrocarbons (PAHs) (continued)

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Fluoranthene	206-44-0	1	ND			µg/L
Fluorene	86-73-7	1	ND			µg/L
Indeno[1,2,3-cd]pyrene	193-39-5	1	ND			µg/L
Naphthalene	91-20-3	1	ND			µg/L
Phenanthrene	85-01-8	1	ND			µg/L
Pyrene	129-00-0	1	ND			µg/L

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

Reduction step with sodium dithionite, solvent extraction EPA 8270

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
2-naphthylamine	91-59-8	0.1	ND			µg/L
2-naphthylammoniumacetate	553-00-4	0.1	ND			µg/L
2,4-xylidine	95-68-1	0.1	ND			µg/L
2,4,5-trimethylaniline	137-17-7	0.1	ND			µg/L
2,4,5-trimethylaniline hydrochloride	21436-97-5	0.1	ND			µg/L
2,6-xylidine	87-62-7	0.1	ND			µg/L
3,3'-dichlorobenzidine	91-94-1	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
4-aminoazobenzene	60-09-3	0.1	ND			µg/L
4-aminodiphenyl	92-67-1	0.1	ND			µg/L
4-chloro-o-toluidine	95-69-2	0.1	ND			µg/L
4-chloro-o-toluidinium chloride	3165-93-3	0.1	ND			µg/L
4-chloroaniline	106-47-8	0.1	ND			µg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	0.1	ND			µg/L
4-methoxy-m-phenylenediamine	615-05-4	0.1	ND			µg/L
4-methyl-m-phenylenediamine	95-80-7	0.1	ND			µg/L
4,4-methylene-bis-(2-chloro-aniline)	101-14-4	0.1	ND			µg/L
4,4-methylenedi-o-toluidine	838-88-0	0.1	ND			µg/L
4,4-methylenedianiline	101-77-9	0.1	ND			µg/L
4,4-oxydianiline	101-80-4	0.1	ND			µg/L
4,4-thiodianiline	139-65-1	0.1	ND			µg/L
5-nitro-o-toluidine	99-55-8	0.1	ND			µg/L
6-methoxy-m-toluidine	120-71-8	0.1	ND			µg/L
Benzidine	92-87-5	0.1	ND			µg/L
o-aminoazotoluene	97-56-3	0.1	ND			µg/L
o-anisidine	90-04-0	0.1	ND			µg/L
o-toluidine	95-53-4	0.1	ND			µg/L



1S) UV Absorbers

USEPA 8270 ISO 22032, USEPA 527 and USEPA 8321B.

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
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-tert-butylphenol (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

1T) Volatile Organic Compounds (VOC)

USEPA 8270 ISO 22032, USEPA 527 and USEPA 8321B.

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Benzene	71-43-2	1	ND			µg/L
m-cresol	108-39-4	1	ND			µg/L
o-cresol	95-48-7	1	ND			µg/L
p-cresol	106-44-5	1	ND			µg/L
Xylene	1330-20-7	1	ND			µg/L
Toluene ^a	108-88-3	1	ND			µg/L

Note / Key:

- a = Sample and report only for mock leather.
- b = Limit refers to elemental boron, not the salt.
- c = Limit refers to total boron and total zinc individually, not the salt. Total boron and total zinc values should be less than 100 µg/L to be conformant. When total boron is >100 µg/L and total zinc are <100 µg/L (or vice versa) the sample is still conformant.
- d = Not required to test this parameter as this related to sand blasting.



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(8724)255-0270

Wastewater Test Result - ZDHC Heavy Metals

Wastewater - ZDHC Heavy Metals

With reference to EPA 3015A, 6020A, 200.8, 6020B, 3051A and ISO 17294-2 and analyzed by ICP-MS

Test Parameters	Reporting limit & LOQ	Limit				Result of Test Items			Unit
		Foundational	Progressive	Aspirational	Local Legal Standard / Contractual agree with CERP Standard	Effluent			
Antimony	0.01	0.1	0.05	0.01	-	1002	NA		mg/L
Chromium (VI)	0.001	0.05	0.005	0.001	-		NA		mg/L
Barium	1	Sample & Report			-		NA		mg/L
Selenium	1	Sample & Report			-		NA		mg/L
Tin	1	Sample & Report			-		NA		mg/L
Arsenic	0.005	0.05	0.01	0.005	-		NA		mg/L
Total Chromium	0.05	0.2	0.1	0.05	-		NA		mg/L
Cobalt	0.01	0.05	0.02	0.01	-		NA		mg/L
Cadmium	0.01	0.1	0.05	0.01	-		NA		mg/L
Copper	0.25	1	0.5	0.25	-		NA		mg/L
Lead	0.01	0.1	0.05	0.01	-		NA		mg/L
Nickel	0.05	0.2	0.1	0.05	-		NA		mg/L
Silver	0.005	0.1	0.05	0.005	-		NA		mg/L
Zinc	0.5	5	1	0.5	-		NA		mg/L
Mercury	0.001	0.01	0.005	0.001	-		NA		mg/L



Wastewater Test Result - ZDHC Conventional & Anions

Wastewater - ZDHC Conventional									
Test Parameters	Test Method	Reporting limit & LOQ	Limit				Result of Test Items		Unit
			Foundational	Progressive	Aspirational	Local Legal Standard / Contractual agree with CETP Standard	Effluent	1002	
pH ^[f]	With reference to ISO 10523, EPA 150.2, APHA 4500-H+	-	6-9	6-9	6-9	-	NA		-
Temperature difference ^[f]	USEPA 170.1, GB/T 13195	-	Δ+15	Δ+10	Δ+5	-	NA		°C
E.coli	-	126	126	126	126	-	NA		MPN/100-ml
Colour (436 nm)	ISO 7887 (Method A and B)	2	7	5	2	-	NA		m ⁻¹
Colour (525 nm)		1	5	3	1	-	NA		m ⁻¹
Colour (620 nm)		1	3	2	1	-	NA		m ⁻¹
Persistent Foam ^[f]	-	-	No indication of Persistent Foam			-	NA		-
Wastewater Flowrate ^[f]	-	-	-	-	-	-	NA		m ³ /day
Ammonium-Nitrogen	ISO 11732, ISO 7150, USEPA 350.1, APHA 4500 NH3-N, HJ 535 or HJ 536	0.5	10	1	0.5	-	NA		mg/L
AOX	ISO 9562, EN ISO 9563, USEPA 1650, HJ.T 83-2001	0.1	3	0.5	0.1	-	NA		mg/L
BOD ₅	ISO 5815-1 & -2, EN1899-1, USEPA 405.1, APHA 5210B or HJ 505	8	30	15	8	-	NA		mg/L
COD	ISO 6060, USEPA 410.4, APHA 5220D or GB/T 11914	40	150	80	40	-	NA		mg/L
DO ^[f]	ISO 5814, EPA 360.1 or HJ 506	-	Sample & Report	Sample & Report	Sample & Report	-	NA		mg/L
Oil & Grease	ISO 9377-2, USEPA 1664 or HJ 637	0.5	10	2	0.5	-	NA		mg/L
Total Phenols / Phenol Index	ISO 14402, APHA 5530B, C, D or HJ 503	0.001	0.5	0.01	0.001	-	NA		mg/L
Total Chlorine ^[f]	ISO 7393-2, EPA 330.5 or HJ 586	0.1	Sample & Report	Sample & Report	Sample & Report	-	NA		mg/L
TDS	APHA 2540C, GB/T 5750.4	5	Sample & Report	Sample & Report	Sample & Report	-	NA		mg/L
Total Nitrogen	ISO 5663, ISO 29411, USEPA 351.2, APHA 4500P-J, APHA 4500N-C/ HJ 636 or GB 11891	5	20	10	5	-	NA		mg/L
Total Phosphorus	ISO 11885, ISO 6878, USEPA 365.4, APHA 4500P-J or GB/T 11893	0.1	3	0.5	0.1	-	NA		mg/L
TSS	ISO 11923, USEPA 160.2, APHA 2540D or GB/T 11901	5	50	15	5	-	NA		mg/L



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Wastewater Test Result - ZDHC Conventional & Anions

Wastewater - ZDHC Anions									
Test Parameters	Test Method	Reporting limit & LOQ	Limit				Result of Test Items		Unit
			Foundational	Progressive	Aspirational	Local Legal Standard / Contractual agree with CETP Standard	Effluent		
Chloride	APHA 4500-Cl	1	Sample & Report	Sample & Report	Sample & Report	-	NA		mg/L
Cyanide, total	APHA-4500-CN, C&E, EPA 9010C, 9013 & 9014	0.05	0.2	0.1	0.05	-	NA		mg/L
Sulfate	APHA 4500-SO4 - E	3	Sample & Report	Sample & Report	Sample & Report	-	NA		mg/L
Sulfide	APHA 4500-S2- D	0.01	0.5	0.05	0.01	-	NA		mg/L
Sulfite	EPA 377.1 & APHA 4500-SO3 2 B	0.2	2	0.5	0.2	-	NA		mg/L



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Sludge Test Result - Metals & Conventional and Anions & MRSL

Sludge - Metals

With reference to EPA 3015A, 6020A, 200.8, 6020B, 3051A and ISO 17294-2 and analyzed by ICP-MS

Test Parameters	Sludge Reporting limit & LOQ	Total Metals and Anions Threshold Values	Limit		Result of Test Items			Unit
					Sludge			
					1003			
Antimony	5	12			ND			mg/kg
Arsenic	5	10			ND			mg/kg
Barium	200	700			ND			mg/kg
Cadmium	1	3			ND			mg/kg
Cobalt	400	1600			ND			mg/kg
Copper	50	200			190			mg/kg
Lead	5	10			9.5			mg/kg
Nickel	20	70			35.4			mg/kg
Selenium	5	10			ND			mg/kg
Silver	50	100			ND			mg/kg
Total Chromium	50	100			55.12			mg/kg
Zinc	400	1000			950			mg/kg
Chromium (VI)	20	50			ND			mg/kg
Mercury	1	1			ND			mg/kg

Sludge (Leachate) - Metals

With reference to EPA 1311 and HJ/T 300 for leachate

Test Parameters	Reporting limit & LOQ	Leachate Limit	Limit		Result of Test Items			Unit
					Leachate			
					1004			
Antimony	0.6	-			NA			mg/L
Arsenic	0.5	-			NA			mg/L
Barium	35	-			NA			mg/L
Cadmium	0.15	-			NA			mg/L
Cobalt	80	-			NA			mg/L
Copper	10	-			NA			mg/L
Lead	0.5	-			NA			mg/L
Nickel	3.5	-			NA			mg/L
Selenium	0.5	-			NA			mg/L
Silver	5	-			NA			mg/L
Total Chromium	5	-			NA			mg/L
Zinc	50	-			NA			mg/L
Chromium (VI)	2.5	-			NA			mg/L
Mercury	0.05	-			NA			mg/L



Sludge - Conventional

Test Parameters	Test Method	Reporting limit & LOQ	Limit		Result of Test Items			Unit
			Sludge Reporting Limit	Limits for specific disposal pathway	Sludge I003			
pH	EPA SW 9045D	-	-	5-11	7			-
% Solids	EPA 160.3, HJ613 at 105 degree C	-	-	Sample & report	16.74			%
Fecal Coliform	EPA 1680	-	-	Sample & report	1601			MPN/g
Paint Filter Test	EPA 9095B	-	-	Sample & report	Pass			-

Sludge - AP and APEOs: including all isomers

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

Test Parameters	CAS Number	Limit		Result of Test Items			Unit
		Sludge Reporting Limit & LOQ	Limits for specific disposal pathway	Sludge I003			
NPEO	9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0	0.4	-	ND			mg/kg
NP, mixed isomers	104-40-5, 11066-49-2, 25154-52-3, 84852-15-3	0.4	-	ND			mg/kg
OPEO	9002-93-1, 9036-19-5, 68987-90-6	0.4	-	ND			mg/kg
OP, mixed isomers	140-66-9, 1806-26-4, 27193-28-8	0.4	-	ND			mg/kg

Sludge - Chlorotoluenes

US EPA 8260D, 8270E, Purge and Trap, Head Space Dichloromethane extraction followed by GC-MS

Test Parameters	CAS Number	Limit		Result of Test Items			Unit
		Sludge Reporting Limit & LOQ	Limits for specific disposal pathway	Sludge I003			
Chlorotoluenes	Multiple	0.2	-	ND			mg/kg



Sludge - Polycyclic Aromatic Hydrocarbons (PAHs)

USEPA 3540 + USEPA 3650 + USEPA 8270

Test Parameters	CAS Number	Limit		Result of Test Items			Unit
		Sludge Reporting Limit & LOQ	Sludge specific disposal pathway	Sludge			
Acenaphthene	83-32-9	0.2	-	ND			mg/kg
Acenaphthylene	208-96-8	0.2	-	ND			mg/kg
Anthracene	120-12-7	0.2	-	ND			mg/kg
Benzo[a]anthracene	56-55-3	0.2	-	ND			mg/kg
Benzo[a]pyrene (BaP)	50-32-8	0.2	-	ND			mg/kg
Benzo[b]fluoranthene	205-99-2	0.2	-	ND			mg/kg
Benzo[e]pyrene	192-97-2	0.2	-	ND			mg/kg
Benzo[ghi]perylene	191-24-2	0.2	-	ND			mg/kg
Benzo[j]fluoranthene	205-82-3	0.2	-	ND			mg/kg
Benzo[k]fluoranthene	207-08-9	0.2	-	ND			mg/kg
Chrysene	218-01-9	0.2	-	ND			mg/kg
Dibenz[a,h]anthracene	53-70-3	0.2	-	ND			mg/kg
Fluoranthene	206-44-0	0.2	-	ND			mg/kg
Fluorene	86-73-7	0.2	-	ND			mg/kg
Indeno[1,2,3-cd]pyrene	193-39-5	0.2	-	ND			mg/kg
Naphthalene	91-20-3	0.2	-	ND			mg/kg
Phenanthrene	85-01-8	0.2	-	ND			mg/kg
Pyrene	129-00-0	0.2	-	ND			mg/kg

Sludge - Anions

USEPA 9013 + USEPA 9014

Test Parameters	Limit			Result of Test Items			Unit
	Sludge Reporting Limit & LOQ	Sludge specific disposal pathway	Limits for specific disposal pathway	Sludge			
Cyanide	20	100		0.9			mg/kg



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Appendix A - Discharge limit according to regulation

Not applicable



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Appendix B - Photos of sampling points and samples (with relative time and date)

I001 - Untreated wastewater

Sampling point
10/09/2024, 10.30 AM



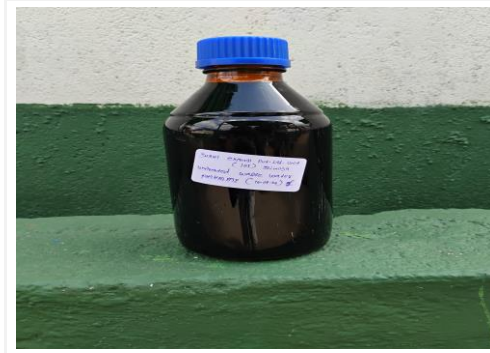
Sampling point surrounding environment
10/09/2024, 10.45 AM



Labelled sample bottles
10/09/2024, 03.45 PM



Sample for phthalate test
10/09/2024, 03.40 PM



Sample packaging
10/09/2024, 04.00 PM





Appendix B - Photos of sampling points and samples (with relative time and date) (continued)

I003 - Sludge

Sampling point
10/09/2024, 12.00 PM



Sampling point surrounding environment
10/09/2024, 12.15 PM



Labelled sample bottles
10/09/2024, 03.45 PM



Sample packaging
10/09/2024, 04.00 PM





ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration	CPSD-AN-00613-DATA 07
	Issue Date: February 20, 2024
	Version No.: 1
	Business Line: Analytical

Attach the completed field data form in the test report.

Facility Information			
Date of Sampling:	10-09-2024		
Sample Number (ZDHC Composite Sample Code):			
Facility Name:	SHAMI EXPORTS PRIVATE LIMITED - WPD - UNIT-105		
Facility Address:	# 156, KIADB Industrial area, Midya machenahalli, Shimoga - 577222		
Facility Type (tick all applicable):	<input checked="" type="checkbox"/> Dyeing and Finishing <input type="checkbox"/> Laundry, Washing and Finishing <input checked="" type="checkbox"/> Printing <input type="checkbox"/> Other (please specify) <input type="checkbox"/> Fabric Mill <input type="checkbox"/> Natural Leather processing <input type="checkbox"/> Synthetic Leather processing		
Discharge Type (tick applicable):	<input type="checkbox"/> Direct discharge <input type="checkbox"/> Indirect discharge <input checked="" type="checkbox"/> Zero liquid discharge (ZLD)	<input type="checkbox"/> with pre-treatment <input type="checkbox"/> without pre-treatment <input checked="" type="checkbox"/> with own ETP	Other Notes:
Discharge Description:	<input type="checkbox"/> Discharge to environment (e.g. river, stream, sea etc.) <input type="checkbox"/> Sewage treatment plant <input type="checkbox"/> Other (please specify)		
Discharge Volume:	<input type="checkbox"/> $\geq 15m^3$ per day <input type="checkbox"/> $< 15m^3$ per day		

Sample Type and Details	
Sample Type	Sample Details
<input type="checkbox"/> Incoming Water	---
<input checked="" type="checkbox"/> Untreated WW	<input type="checkbox"/> with equalisation tank (EQT) present Hydraulic Retention Time (HRT) (Hours): _____ <small>= volume of tank (m³) / flow rate (m³/h) if HRT > 12 h, grab sampling from EQT is allowed.</small>
<input type="checkbox"/> Effluent	<input type="checkbox"/> Direct <input type="checkbox"/> Indirect <small>Enter sampling time(s) in page 2 and take field test measurements.</small> <input type="checkbox"/> Facility has WWTP <input type="checkbox"/> Plant is in operating condition <input type="checkbox"/> with equalisation tank (EQT) present Hydraulic Retention Time (HRT) (Hours): _____ <small>= volume of tank (m³) / flow rate (m³/h) if HRT > 12 h, grab sampling from EQT is allowed.</small>
<input checked="" type="checkbox"/> Sludge	Disposal Pathway (The pathway must be defined by the facility. If the facility cannot provide information, pathway "F" shall be assumed.) <input type="checkbox"/> A <small>>1000°C offsite incineration</small> <input type="checkbox"/> B <small>Landfill with significant control</small> <input type="checkbox"/> C <small>Building products processed >1000°C</small> <input type="checkbox"/> D <small>Landfill with limited control</small> <input type="checkbox"/> E <small>Incineration/ Building products processed <1000°C</small> <input type="checkbox"/> F <small>Landfill with no control</small> <input type="checkbox"/> G <small>Land application</small> Sludge flux (weight/time) if applicable: _____

ZDHC Wastewater Sampling - Facility Confirmation			
The wastewater samples have been collected under the facilities' normal production scale and wastewater flow rate. The sampler listed below was on-site and collected the samples. Sampling protocol for wastewater and sludge samples are in accordance with ZDHC SAP including appendix E. In no circumstances shall samples be taken during times when the production process is not running or the wastewater is diluted, for example due to heavy rainfall.			
Facility Confirmation		Sampler Information	
Facility Name:	SHAMI EXPORTS PVT. LTD. UNIT-105	Sampler's Name/ Email:	SADIA B pbsadia1187@gmail.com
Facility Representative Name:	DHANUSHA	Sampler's ZDHC Accredited No.:	ZDHC-A-24-E-C001068-R43C-35286
Facility Representative Signature and Stamp:		Sampler's Signature:	
Date:	10-09-2024	Date:	10-09-2024



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Report Number

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	ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration	CPSD-AN-00613-DATA 07
		Issue Date:
		Version No.: 1
		Business Line: Analytical

ZDHC Wastewater Flow Device Dimensions									
Measurement (cm)	Meter	Pipe (O)	Flume (U)	Wier (V)					
Diameter	--								
Depth	--	--	--	--					
ZDHC Wastewater Sampling Field Testing QA/ QC									
Parameter	Lab Control Sample (LCS) Known	Lab Control Sample (LCS) Measured	Accuracy (%)						
pH									
Total Chlorine									
ZDHC Wastewater Sample Collection Field Test Measurements									
Incoming Sample Point	<input type="radio"/> Composite Sample <input type="radio"/> Grab Sample		Start Time:	Stop Time:					
Sampling Locations:	GPS coordinates:		Lat.: N / S	Long.: E / W					
Sampling Mode:	<input checked="" type="radio"/> Manual <input type="radio"/> Autosampler - Sampling Device Description/ Owner:								
Sampling Time (Hours)	0	1	2	3	4	5	6	Average	
Recording time of discrete sample	--								
Colour (visual estimation):									
Untreated Sample Point	<input checked="" type="radio"/> Composite Sample <input type="radio"/> Grab Sample		Start Time:	Stop Time:					
Sampling Locations:	GPS coordinates:		Lat.: N / S	Long.: E / W					
Sampling Mode:	<input checked="" type="radio"/> Manual <input type="radio"/> Autosampler - Sampling Device Description/ Owner:								
Sampling Time (Hours)	0	1	2	3	4	5	6	Average	
Recording time of discrete sample	--								
Colour (visual estimation):									
Untreated Sample Point	<input checked="" type="radio"/> Composite Sample <input type="radio"/> Grab Sample		Start Time: 10:30 AM	Stop Time: 4:00 PM					
Sampling Locations:	GPS coordinates:		Lat.: N / S	Long.: E / W					
Sampling Mode:	<input checked="" type="radio"/> Manual <input type="radio"/> Autosampler - Sampling Device Description/ Owner:								
Sampling Time (Hours)	0	1	2	3	4	5	6	Average	
Recording time of discrete sample		10:30 AM	11:30 AM	12:30 PM	1:30 PM	2:30 PM	3:30 PM	--	
Temperature (°C):	WW Discharge	41°C	39.9°C	40.0°C	42°C	41.0°C	41.4°C		
	Receiving Water	23°C	24.1°C	23.9°C	25°C	25.1°C	25.0°C		
pH:		8.2	8.1	8.0	8.4	8.2	8.3		
Dissolved Oxygen (mg/L):									
Total Chlorine (mg/L):									
Persistent Foam (Yes/ No):	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Wastewater Flow Meter (L/min):									
Alternate Measured Flow:	Depth (cm)								
	Velocity (cm/sec)								
Colour (visual estimation):		Navy Blue	Navy Blue	Navy Blue	Navy Blue	Navy Blue	Navy Blue	Navy Blue	Navy Blue
Volume collected (L):		1000 ml	1000 ml	1000 ml	1000 ml	1000 ml	1000 ml	1000 ml	
Total volume collected (L):		6000 ml	Collect 3.33-litres each hour for a total minimum volume of 20-litres						
Sludge Sample Point	<input checked="" type="radio"/> Composite Sample <input type="radio"/> Grab Sample		Start Time:	Stop Time:					
Sampling Locations:	GPS coordinates:		Lat.: N / S	Long.: E / W					
Sampling Mode:	<input checked="" type="radio"/> Manual <input type="radio"/> Autosampler - Sampling Device Description/ Owner:								
Sampling Time (Hours)	0	1	2	3	4	5	6	Average	
Recording time of discrete sample		12:00 PM							
Colour (visual estimation):		Black							
Comments/ Other Observations									

End of the Report