



LAB REPORT

Report number	(8725)134-0055		
Date of sampling (dd/mm/yyyy)	13/05/2025		
Date of report (dd/mm/yyyy)	23/05/2025		
Factory company name	Shahi Exports Private Limited-Unit 9		
Factory address	Sy no 171, 2nd Cross, Outer Ring Road, Industrial Subrub, BBMP Ward No:11, 3rd Phase 7th Main Road Yeshwanthpur Subrub II Stage, Peenya II Stage, Yeshwanthpur, Chandra Layout Extension II Stage, Peenya, Bengaluru, Karnataka-560022.		
Discharge type	Zero Liquid Discharge		
Discharge destination name & address	No Industrial Wastewater Discharged from Facility (Reuse back to Production).		
Average total industrial wastewater generated	≥15 m ³ per day	Manufacturing process type	Textile
Onsite ETP / Pretreatment	Yes	Homogenization Tank & Average Holding Time	Yes (raw), >12h
ZDHC sampler accreditation certification number	A-24-E-C001068-R43C2-35D86		
Sample description & Sample collection method			
Untreated wastewater (raw)	I001, milky white liquid, composite sample at 10:30, 11:30, 12:30, 13:30, 14:30, 15:30, 16:30		
Discharged wastewater (effluent)	Not applicable		
Sludge	I002, light grey solid, composite sample at 11:00, 12:00, 13:00, 14:00, 15:00, 16:00, 17:00		
Local legal data			
Local legal standard name & number [a]	Not applicable		
Parameters (ZDHC WWG V2.2, Table 2 & 3) meeting local regulation [a]	Not applicable		
Discharge permit provided	Yes		
ZDHC overall results			
Wastewater MRSL	Not detected		
Wastewater metals	Not applicable		
Wastewater conventional and anions	Not applicable		
Sludge disposal pathway	B	Sludge	Sample and report only

Internal Description	
Sample reference number	(8725)134-0055
Date & time of the beginning of sampling	13/05/2025, 10:30
Date & time of the end of sampling	13/05/2025, 17:00
Sample received date	13/05/2025
Testing period	From 14/05/2025 to 22/05/2025
Sample holding time exceeded	No
Sample temperature when received from lab	4.7 °C
Comments	Samples received within holding time and temperature.
General enquiry and invoicing	Mr. SUNESH sunesh.nair@in.bureauveritas.com & Phone No: 080-40701621
Technical enquiry	Mr. SUDALAIMUTHU.VS sudalaimuthu.vs@in.bureauveritas.com & Phone No: 080-40701639
For and on behalf of	Bureau Veritas Consumer Products Services (I) Pvt. Ltd. AKR Tech Park Ground floor, C Block, Survey no 112, Krishna Reddy Ind. Area 7th Mile Hosur Road,
	
	P. Sugumar, Lab Manager - Analytical Services

Certificate No. QAI/CIA/TL/2023/0012 (Pls 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.

**Summary of test results**

Wastewater / MRSL - Test Items	Raw I001
AP and APEOs	ND
Antimicrobials and Biocides	ND
Chlorinated Paraffins	ND
Chlorobenzenes and Chlorotoluenes	ND
Chlorophenols	ND
DMFa ^(S1)	ND
Dyes-Carcinogenic or Equivalent Concern	ND
Dyes-Disperse (Allergenic)	ND
Dyes-Navy Blue Colourant	NA
Flame Retardants	ND
Glycols / Glycol Ethers	ND
Halogenated Solvents ^(S1)	ND
Organotin Compounds	ND
Other / Miscellaneous Chemicals	ND
PFCs	ND
Phthalates	ND
PAHs	ND
Restricted Aromatic Amines	ND
UV Absorbers	ND
VOC ^(S1)	ND

Summary of test results

Wastewater / Metals - Test Items	Effluent -
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
Wastewater / Conventional & Anions - Test Items	Effluent -
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
BOD5	NA
COD	NA
DO [f]	NA
Oil & Grease	NA
Total Phenols	NA
Total Chlorine [f]	NA
TDS	NA
Total Nitrogen	NA
Total Phosphorus	NA
TSS	NA
Chloride	NA
Cyanide, total	NA
Sulphate	NA
Sulphide	NA
Sulphite	NA

Summary of test results **Sludge Disposal Pathway = B**

Sludge / Sludge Parameters - Test Items	Sludge I002
AP and APEOs	Report only
PAHs	Report only
Chlorotoluenes	Report only
Antimony	NA
Arsenic	NA
Barium	NA
Cadmium	NA
Cobalt	NA
Copper	NA
Lead	NA
Nickel	NA
Selenium	NA
Silver	NA
Zinc	NA
Total Chromium	NA
Chromium (VI)	NA
Mercury	NA
pH	NA
Fecal Coliform	NA
% Solids ^(S2)	Report only
Paint Filter Test	NA
Cyanide	NA

Sludge flux and/or sludge flow data: NA

Remark (indicated in each parameter)		
ND	=	Not detected (below lab reporting limit)
D	=	Detected (above lab reporting limit)
Meet	=	(Sludge) Meet sludge disposal pathway limit
Not meet	=	(ZDHC) Not meet foundational limit, (Sludge) Not meet sludge disposal pathway limit
Foundational	=	Meet foundational limit
Progressive	=	Meet progressive limit
Aspirational	=	Meet aspirational limit
Report only	=	Parameter is for report only, please refer to the data
[a]	=	The local legal standard name and legal standard number is referenced to discharge permit (or contractual agree by CETP) that provided by company
(f)	=	Parameter tested in field
(T)	=	Handling temperature exceeded
@	=	Maximum holding time exceeded
*	=	See comment
(S1)	=	Analysis was subcontracted for testing - BV Noida
(S2)	=	Analysis was subcontracted for testing - BV Chennai



1) Test result - Wastewater / MRSL

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

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
NPEO	Multiple 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0	5	5	ND			
NP, mixed isomers	Multiple 104-40-5, 11066-49-2, 25154-52-3, 84852-15-3	5	5	ND			
OPEO	Multiple 9002-93-1, 9036-19-5, 68987-90-6	5	5	ND			
OP, mixed isomers	Multiple 140-66-9, 1806-26-4, 27193-28-8	5	5	ND			

1B) Anti-Microbials & Biocides

USEPA 8270D

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
o-Phenylphenol (+salts)	90-43-7	100	100	ND			
Triclosan	3380-34-5	100	100	ND			
Permethrin	Multiple 52645-53-1	500	500	ND			

1C) Chlorinated Parafins

ISO 12010 :2019

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
MCCPs (C14-C17)	85535-85-9	500	500	ND			
SCCPs (C10'-C13)	85535-84-8	25	25	ND			

1D) Chlorobenzenes and Chlorotoluenes

EPA 8012B

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
1,2-dichlorobenzene	95-50-1	0.2	0.2	ND			
Other isomers of mono-, di-, tri-, tetra-, penta-, and hexa-chlorobenzene and mono-, di-, tri-, tetra-, and penta- chlorotoluene	Multiple 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	0.2	ND			



1E) Chlorophenols

USEPA 8270D

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
2-chlorophenol	95-57-8	0.5	0.5	ND			
2,3-dichlorophenol	576-24-9	0.5	0.5	ND			
2,3,4-trichlorophenol	15950-66-0	0.5	0.5	ND			
2,3,5-trichlorophenol	933-78-8	0.5	0.5	ND			
2,3,6-trichlorophenol	933-75-5	0.5	0.5	ND			
2,4-dichlorophenol	120-83-2	0.5	0.5	ND			
2,4,5-trichlorophenol	95-95-4	0.5	0.5	ND			
2,4,6-trichlorophenol	88-06-2	0.5	0.5	ND			
2,5-dichlorophenol	583-78-8	0.5	0.5	ND			
2,6-dichlorophenol	87-65-0	0.5	0.5	ND			
3-chlorophenol	108-43-0	0.5	0.5	ND			
3,4-dichlorophenol	95-77-2	0.5	0.5	ND			
3,4,5-trichlorophenol	609-19-8	0.5	0.5	ND			
3,5-dichlorophenol	591-35-5	0.5	0.5	ND			
4-chlorophenol	106-48-9	0.5	0.5	ND			
Pentachlorophenol (PCP)	87-86-5	0.5	0.5	ND			
2,3,5,6-tetrachlorophenol	935-95-5	0.5	0.5	ND			
2,3,4,6-tetrachlorophenol	58-90-2	0.5	0.5	ND			
2,3,4,5-tetrachlorophenol	4901-51-3	0.5	0.5	ND			

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

EPA 8015, EPA 8270E

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
Dimethyl formamide; N,N-dimethylformamide (DMFa)	68-12-2	1000	1000	ND			



1G) Dyes - Carcinogenic or Equivalent Concern

Liquid extraction, LC/MS

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
Basic violet 3 with >0.1% of Michler's Ketone	548-62-9	500	500	ND			
C.I. Acid Red 26	3761-53-3	500	500	ND			
C.I. Acid Violet 49	1694-09-3	500	500	ND			
C.I. Basic Blue 26 with Michler's Ketone >0.1%	2580-56-5	500	500	ND			
C.I. Basic Green 4 (Malachite Green Chloride)	569-64-2	500	500	ND			
C.I. Basic Green 4 (Malachite Green Oxalate)	2437-29-8	500	500	ND			
C.I. Basic Green 4 (Malachite Green)	10309-95-2	500	500	ND			
C.I. Basic Red 9	569-61-9	500	500	ND			
C.I. Basic Violet 14	632-99-5	500	500	ND			
C.I. Direct Black 38	1937-37-7	500	500	ND			
C.I. Direct Blue 6	2602-46-2	500	500	ND			
C.I. Direct Red 28	573-58-0	500	500	ND			
C.I. Disperse Blue 1	2475-45-8	500	500	ND			
C.I. Disperse Blue 3	2475-46-9	500	500	ND			
C.I. Disperse Orange 11	82-28-0	500	500	ND			

1H) Dyes - Disperse (Allergenic)

Liquid extraction, LC/MS

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
Disperse Blue 102	12222-97-8	50	50	ND			
Disperse Blue 106	12223-01-7	50	50	ND			
Disperse Blue 124	61951-51-7	50	50	ND			
Disperse Blue 26	3860-63-7	50	50	ND			
Disperse Blue 35	12222-75-2	50	50	ND			
Disperse Blue 35	56524-77-7	50	50	ND			
Disperse Blue 7	3179-90-6	50	50	ND			
Disperse Brown 1	23355-64-8	50	50	ND			
Disperse Orange 1	2581-69-3	50	50	ND			
Disperse Orange 3	730-40-5	50	50	ND			
Disperse Orange 37/59/76	13301-61-6	50	50	ND			
Disperse Red 1	2872-52-8	50	50	ND			
Disperse Red 11	2872-48-2	50	50	ND			
Disperse Red 17	3179-89-3	50	50	ND			
Disperse Yellow 1	119-15-3	50	50	ND			
Disperse Yellow 3	2832-40-8	50	50	ND			
Disperse Yellow 39	12236-29-2	50	50	ND			
Disperse Yellow 49	54824-37-2	50	50	ND			
Disperse Yellow 9	6373-73-5	50	50	ND			

1I) Dyes - Navy Blue Colourant

NA

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
Component 1: C39H23Cl-CrN7O12S 2Na Component 2: C46H-30CrN10O20S2 3Na	118685-33-9 Not allocated	NA	NA	NA			



1J) Flame Retardants

Determined as total boron via ICP, USEPA 8270E, ISO 22032, USEPA 527 and USEPA 8321B
 Dichloromethane extraction GC-MS or LC-MS(-MS)

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
Boric acid	10043-35-3, 11113-50-1	500	500	ND			
Diboron trioxide	1303-86-2	500	500	ND			
Disodium octaborate	12008-41-2	500	500	ND			
Disodium tetraborate, anhydrous	1303-96-4, 1330-43-4	500	500	ND			
Tetraboron disodium heptaoxide, hydrate	12267-73-1	500	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			
Tribromophenylethers (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			
Decabromophenyl ether (DecaBDE)	1163-19-5	25	25	ND			
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) phosphone 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			

Footnote for boron flame retardant: Limit refers to the total elemental boron via ICP. If the total elemental boron content is higher than 500 µg/L, then all five boron flame retardant are non-conformant.

1K) Glycols / Glycol Ethers

USEPA 8070E, GC-MS

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
2-ethoxyethanol	110-80-5	50	50	ND			
2-ethoxyethyl acetate	111-15-9	50	50	ND			
2-methoxyethanol	109-86-4	50	50	ND			
2-methoxyethylacetate	110-49-6	50	50	ND			
2-methyloxypropylacetate	70657-70-4	50	50	ND			
Bis(2-methoxyethyl)-ether	111-96-6	50	50	ND			
Ethylene glycol dimethyl ether	110-71-4	50	50	ND			
Triethylene glycol dimethyl ether	112-49-2	50	50	ND			



1L) Halogenated Solvents

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

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
1,2-dichloroethane	107-06-2	1	1	ND			
Methylene chloride	75-09-2	1	1	ND			
Tetrachloroethylene	127-18-4	1	1	ND			
Trichloroethylene	79-01-6	1	1	ND			

1M) Organotin Compounds

ISO 17353 Derivatisation with NaB (C2H5) GC-MS

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
Dipropyltin compounds (DPT)	Multiple 867-36-7	0.01	0.01	ND			
Mono, di-, and tri-butyltin derivatives	Multiple 1118-46-3, 1461-22-9	0.01	0.01	ND			
Mono, di-, and tri-methyltin derivatives	Multiple 993-16-8, 753-73-1, 1066-45-1	0.01	0.01	ND			
Mono, di-, and tri-octyltin derivatives	Multiple 3091-25-6, 3542-36-7, 2587-76-0	0.01	0.01	ND			
Mono, di-, and tri-phenyltin derivatives	Multiple 1124-19-2, 1135-99-5, 639-58-7	0.01	0.01	ND			
Tetraethyltin compounds (TeBT)	Multiple 1461-25-2	0.01	0.01	ND			
Tetraethyltin compounds (TeET)	Multiple 597-64-8	0.01	0.01	ND			
Tetraoctyltin compounds (TeOT)	Multiple 3590-84-9	0.01	0.01	ND			
Tricyclohexyltin (TCyHT)	Multiple 3091-32-5	0.01	0.01	ND			
Tripropyltin compounds (TPT)	Multiple 2279-76-7	0.01	0.01	ND			

1N) Other / Miscellaneous Chemicals

liquid extraction, LC-MS, determined as total boron and total zinc via ICP

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500	500	ND			
Bisphenol A	80-05-7	10	10	ND			
Borate (Borate, zinc salt)	12767-90-7	100	100	ND			
Zinc salt (Borate, zinc salt)		100	100	ND			
Quinoline	91-22-5	50	50	ND			
Silica (particles of respirable size)	14464-46-1	NA	NA	NA			
Thiourea	62-56-6	50	50	ND			

Footnote for borate, zinc salt: Limit refers to boron and 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 is <100 µg/L (or vice versa), the sample is still conformant.



10) Perfluorinated and Polyfluorinated Chemicals (PFCs)

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

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
Perfluorooctane sulfonate (PFOS) and related substances	Multiple 1763-23-1	0.01	0.01	ND			
Perfluorooctanoic acid (PFOA) and related substances	Multiple 335-67-1	1	1	ND			

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

US EPA 8270D

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
1,2-benzenedicarboxylic acid, di-C6-8 branched and liearalkyl esters, C7-rich (DIHP)	71888-89-6/ 84777-06-0	10	10	ND			
1,2-benzenedicarboxylic acid, di-C7-11 branched and liearalkyl esters (DHNUF)	68515-42-4/ 68515-50-4	10	10	ND			
Bis(2-methoxyethyl)phthalate (DMEP)	117-82-8	10	10	ND			
Butyl benzyl phthalate (BBP)	85-68-7	10	10	ND			
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	10	ND			
Di-iso-decyl phthalate (DIDP)	26761-40-0	10	10	ND			
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	10	ND			
Di-iso-butyl phthalate (DIBP)	84-69-5	10	10	ND			
Di-iso-nonyl phthalate (DINP)	28553-12-0	10	10	ND			
Di-n-hexyl phthalate (DnHP)	84-75-3	10	10	ND			
Di-n-octyl phthalate (DNOP)	117-84-0	10	10	ND			
Di-n-pentylphthalates	131-18-0	10	10	ND			
Di-n-propyl phthalate (DPRP)	131-16-8	10	10	ND			
Di(ethylhexyl) phthalate (DEHP)	117-81-7	10	10	ND			
Dibutyl phthalate (DBP)	84-74-2	10	10	ND			
Diethyl phthalate (DEP)	84-66-2	10	10	ND			
Diisopentylphthalates	605-50-5	10	10	ND			
Dinonyl phthalate (DNP)	84-76-4	10	10	ND			



1Q) Polycyclic Aromatic Hydrocarbons (PAHs)

US EPA 8270. EPA 8021B

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
Acenaphthene	83-32-9	1	1	ND			
Acenaphthylene	208-96-8	1	1	ND			
Anthracene	120-12-7	1	1	ND			
Benzo[a]anthracene	56-55-3	1	1	ND			
Benzo[a]pyrene	50-32-8	1	1	ND			
Benzo[b]fluoranthene	205-99-2	1	1	ND			
Benzo[e]pyrene	192-97-2	1	1	ND			
Benzo[ghi]perylene	191-24-2	1	1	ND			
Benzo[j]fluoranthene	205-82-3	1	1	ND			
Benzo[k]fluoranthene	207-08-9	1	1	ND			
Chrysene	218-01-9	1	1	ND			
Dibenz[a,h]anthracene	53-70-3	1	1	ND			
Fluoranthene	206-44-0	1	1	ND			
Fluorene	86-73-7	1	1	ND			
Indeno[1,2,3-cd]pyrene	193-39-5	1	1	ND			
Naphthalene	91-20-3	1	1	ND			
Phenanthrene	85-01-8	1	1	ND			
Pyrene	129-00-0	1	1	ND			

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

ISO 14362-1 and ISO 14362-3

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
2-naphthylamine	91-59-8	0.1	0.1	ND			
2-naphthylammoniumacetate	553-00-4	0.1	0.1	ND			
2,4-xylidine	95-68-1	0.1	0.1	ND			
2,4,5-trimethylaniline	137-17-7	0.1	0.1	ND			
2,4,5-trimethylaniline hydrochloride	21436-97-5	0.1	0.1	ND			
2,6-xylidine	87-62-7	0.1	0.1	ND			
3,3-dichlorobenzidine	91-94-1	0.1	0.1	ND			
3,3-dimethoxybenzidine	119-90-4	0.1	0.1	ND			
3,3-dimethylbenzidine	119-93-7	0.1	0.1	ND			
4-aminoazobenzene	60-09-3	0.1	0.1	ND			
4-aminodiphenyl	92-67-1	0.1	0.1	ND			
4-chloro-o-toluidine	95-69-2	0.1	0.1	ND			
4-chloro-o-toluidinium chloride	3165-93-3	0.1	0.1	ND			
4-chloroaniline	106-47-8	0.1	0.1	ND			
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisoole sulphate	39156-41-7	0.1	0.1	ND			
4-methoxy-m-phenylenediamine	615-05-4	0.1	0.1	ND			
4-methyl-m-phenylenediamine	95-80-7	0.1	0.1	ND			
4,4-methylene-bis-(2-chloro-aniline)	101-14-4	0.1	0.1	ND			
4,4-methylenedi-o-toluidine	838-88-0	0.1	0.1	ND			
4,4-methylenedianiline	101-77-9	0.1	0.1	ND			
4,4-oxydianiline	101-80-4	0.1	0.1	ND			
4,4-thiodianiline	139-65-1	0.1	0.1	ND			
5-nitro-o-toluidine	99-55-8	0.1	0.1	ND			
6-methoxy-m-toluidine	120-71-8	0.1	0.1	ND			
Benzidine	92-87-5	0.1	0.1	ND			
o-aminoazotoluene	97-56-3	0.1	0.1	ND			
o-anisidine	90-04-0	0.1	0.1	ND			
o-toluidine	95-53-4	0.1	0.1	ND			

1S) UV Absorbers

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

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	100	100	ND			
2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)	25973-55-1	100	100	ND			
2-benzotriazol-2-yl-4,6-di-tert- butylphenol (UV-320)	3846-71-7	100	100	ND			
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	100	100	ND			

**1T) Volatile Organic Compounds (VOC)**

ISO 11423-1 Headspace or Purge and trap GC-MS USEPA 8260D Add ISO 20595 Static headspace for determination of VOC in wastewater. ISO 11423-1 Headspace or Purge and trap GC-MS EPA 8270 BS EN 12673-1999. ISO 11423-1 Headspace or Purge and trap GC-MS USEPA 8260D HJ 1067 or EPA 8260D or ISO 11423-1

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
Benzene	71-43-2	1	1	ND			
m-cresol	108-39-4	1	1	ND			
o-cresol	95-48-7	1	1	ND			
p-cresol	106-44-5	1	1	ND			
Toluene	108-88-3	1	1	ND			
Xylene	1330-20-7	1	1	ND			

2) Test result - Wastewater / Metals

ISO 17294-2, USEPA 200.8, USEPA 6020A, EPA 3015A, 6020B, 3051A, GB 7467, IS 3025 (Part 52)

Test Parameters	Reporting limit, TEXTILE				Legal limit [#]	Result (mg/L)			
	Foundational	Progressive	Aspirational	Lab		Effluent			
Antimony	0.1	0.05	0.01	0.01		-			
Chromium (VI)	0.05	0.005	0.001	0.001		NA			
Barium	Sample & report					NA			
Selenium	Sample & report					NA			
Tin	Sample & report					NA			
Arsenic	0.05	0.01	0.005	0.005		NA			
Total Chromium	0.2	0.1	0.05	0.05		NA			
Cobalt	0.05	0.02	0.01	0.01		NA			
Cadmium	0.1	0.05	0.01	0.01		NA			
Copper	1	0.5	0.25	0.25		NA			
Lead	0.1	0.05	0.01	0.01		NA			
Nickel	0.2	0.1	0.05	0.05		NA			
Silver	0.1	0.05	0.005	0.005		NA			
Zinc	5	1	0.5	0.5		NA			
Mercury	0.01	0.005	0.001	0.001		NA			

Legal requirement based on regulation or standard information for discharged wastewater as well as the limitation value (or contractual limit value agreed by CETP) for the required parameters.

3) Test result - Wastewater / Conventional and Anions

Test Parameters	Test Method	Reporting limit, TEXTILE				Legal limit [#]	Result		Unit
		Foundational	Progressive	Aspirational	Lab		Effluent		
pH	With reference to ISO 10523	6-9			NA		NA		pH
Temperature difference	USEPA 170.1, GB/T 13195	Δ+15	Δ+10	Δ+5	NA		NA		°C
E.coli	APHA 23rd Edn 2017 - 9221 F	126 MPN/100-ml			126		NA		MPN/100-ml
Colour (436 nm)	ISO 7887 (Method A and B)	7	5	2	NA		NA		m-1
Colour (525 nm)		5	3	1	NA		NA		
Colour (620 nm)		3	2	1	NA		NA		
Persistent foam	Visual estimation	No indication of persistent foam in receiving water			NA		NA		-
Wastewater flowrate	/	15 m ³ /day			NA		NA		m ³ /day
Ammonium-Nitrogen	ISO 11732, ISO 7150, USEPA 350.1, APHA 4500 NH ₃ -N, HJ 535 or HJ 536	10	1	0.5	0.5		NA		mg/L
AOX	ISO 9562, EN ISO 9563, USEPA 1650, HJ.T 83-2001	3	0.5	0.1	0.1		NA		mg/L
BOD ₅	ISO 5815-1 & -2, EN1899-1, USEPA 405.1, APHA 5210B or HJ 505	30	15	8	8		NA		mg/L
COD	ISO 6060, USEPA 410.4, APHA 5220D or GB/T 11914	150	80	40	40		NA		mg/L
DO	ISO 5814, EPA 360.1 or HJ 506	≥ 4					NA		mg/L
Oil & Grease	ISO 9377-2, USEPA 1664 or HJ 637	10	2	0.5	0.5		NA		mg/L

Legal requirement based on regulation or standard information for discharged wastewater as well as the limitation value (or contractual limit value agreed by CETP) for the required parameters.

3) Test result - Wastewater / Conventional and Anions (continue)

Test Parameters	Test Method	Reporting limit, TEXTILE				Legal limit [#]	Result		Unit
		Foundational	Progressive	Aspirational	Lab		Effluent		
Total Phenols / Phenol Index	ISO 14402, APHA 5530B, C, D or HJ 503	0.5	0.01	0.001	0.001		NA		mg/L
Total Chlorine	ISO 7393-2, EPA 330.5 or HJ 586	1					NA		mg/L
TDS	APHA 2540C, GB/T 5750.4	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	20	10	5	5		NA		mg/L
Total Phosphorus	ISO 11885, ISO 6878, USEPA 365.4, APHA 4500P-J or GB/T 11893	3	0.5	0.1	0.1		NA		mg/L
TSS	ISO 11923, USEPA 160.2, APHA 2540D or GB/T 11901	50	15	5	5		NA		mg/L
Chloride	APHA 4500-Cl	Sample & report					NA		mg/L
Cyanide, total	APHA-4500-CN. C&E, EPA 9010C, 9013 & 9014	0.2	0.1	0.05	0.05		NA		mg/L
Sulphate	APHA 4500-SO4 - E	Sample & report					NA		mg/L
Sulphide	APHA 4500-S2-D	0.5	0.05	0.01	0.01		NA		mg/L
Sulphite	EPA 377.1 & APHA 4500-SO3 2-B	2	0.5	0.2	0.2		NA		mg/L

Legal requirement based on regulation or standard information for discharged wastewater as well as the limitation value (or contractual limit value agreed by CETP) for the required parameters.



4A) Test result - Sludge / MRSL Sludge - AP & APEOs **Sludge Disposal Pathway = B**

NP/OP: ISO 18857-2 (modified dichloromethane extraction) or ASTM D7065 (GC-MS or LC-MS(-MS))

Test Parameters	CAS Number	Reporting Limit		Result			Unit
		TEXTILE	Lab	Sludge I002			
NPEO	Multiple 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0	0.4	0.4	ND			mg/kg
NP, mixed isomers	Multiple 104-40-5, 11066-49-2, 25154-52-3, 84852-15-3	0.4	0.4	ND			mg/kg
OPEO	Multiple 9002-93-1, 9036-19-5, 68987-90-6	0.4	0.4	ND			mg/kg
OP, mixed isomers	Multiple 140-66-9, 1806-26-4, 27193-28-8	0.4	0.4	ND			mg/kg

Sludge - PAHs

US EPA 8270. EPA 8021B

Test Parameters	CAS Number	Reporting Limit		Result			Unit
		TEXTILE	Lab	Sludge I002			
Acenaphthene	83-32-9	0.2	0.2	ND			mg/kg
Acenaphthylene	208-96-8	0.2	0.2	ND			mg/kg
Anthracene	120-12-7	0.2	0.2	ND			mg/kg
Benzo[a]anthracene	56-55-3	0.2	0.2	ND			mg/kg
Benzo[a]pyrene (BaP)	50-32-8	0.2	0.2	ND			mg/kg
Benzo[b]fluoranthene	205-99-2	0.2	0.2	ND			mg/kg
Benzo[e]pyrene	192-97-2	0.2	0.2	ND			mg/kg
Benzo[ghi]perylene	191-24-2	0.2	0.2	ND			mg/kg
Benzo[j]fluoranthene	205-82-3	0.2	0.2	ND			mg/kg
Benzo[k]fluoranthene	207-08-9	0.2	0.2	ND			mg/kg
Chrysene	218-01-9	0.2	0.2	ND			mg/kg
Dibenz[a,h]anthracene	53-70-3	0.2	0.2	ND			mg/kg
Fluoranthene	206-44-0	0.2	0.2	ND			mg/kg
Fluorene	86-73-7	0.2	0.2	ND			mg/kg
Indeno[1,2,3-cd]pyrene	193-39-5	0.2	0.2	ND			mg/kg
Naphthalene	91-20-3	0.2	0.2	ND			mg/kg
Phenanthrene	85-01-8	0.2	0.2	ND			mg/kg
Pyrene	129-00-0	0.2	0.2	ND			mg/kg

Sludge - Chlorotoluenes

EPA 8012B

Test Parameters	CAS Number	Reporting Limit		Result			Unit
		TEXTILE	Lab	Sludge I002			
Other isomers of mono-, di-, tri-, tetra-, and penta-chlorotoluene	Multiple 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/ 1006-32-2/ 875-40-1/ 877-11-2	0.2	0.2	ND			mg/kg



4B) Test result - Sludge / Metals **Sludge Disposal Pathway = B**

ISO 17294-2, USEPA 200.8, USEPA 6020A, EPA 3015A, 6020B, 3051A, GB 7467, IS 3025 (Part 52)

Test Parameters	Reporting Limit		Maximum Total Metals Limits Disposal Pathway G	Threshold Values	Result			Unit
	TEXTILE	Lab			Sludge I002			
Antimony	5	5	NA	12	NA			mg/kg
Arsenic	5	5	41	10	NA			mg/kg
Barium	200	200	NA	700	NA			mg/kg
Cadmium	1	1	39	3	NA			mg/kg
Cobalt	400	400	NA	1600	NA			mg/kg
Copper	50	50	1500	200	NA			mg/kg
Lead	5	5	400	10	NA			mg/kg
Nickel	20	20	420	70	NA			mg/kg
Selenium	5	5	36	10	NA			mg/kg
Silver	50	50	NA	100	NA			mg/kg
Zinc	400	400	2800	1000	NA			mg/kg
Total Chromium	50	50	1200	100	NA			mg/kg
Chromium (VI)	20	20	50	50	NA			mg/kg
Mercury	1	1	17	1	NA			mg/kg

Test result - Leachate / Metals **Sludge Disposal Pathway = B**

/

Test Parameters	Reporting Limit	Sludge disposal pathway					Result			Unit
	Lab	A, B, C	D	E	F	G	Leachate			
Antimony	-	NA	7.8	0.6	0.6	0.6	NA			mg/L
Arsenic	-	NA	2.75	0.5	0.5	0.5	NA			mg/L
Barium	-	NA	67.5	35	35	35	NA			mg/L
Cadmium	-	NA	0.58	0.15	0.15	0.15	NA			mg/L
Cobalt	-	NA	80	80	80	80	NA			mg/L
Copper	-	NA	17.5	10	10	10	NA			mg/L
Lead	-	NA	2.75	0.5	0.5	0.5	NA			mg/L
Nickel	-	NA	11.75	3.5	3.5	3.5	NA			mg/L
Selenium	-	NA	0.75	0.5	0.5	0.5	NA			mg/L
Silver	-	NA	5	5	5	5	NA			mg/L
Zinc	-	NA	50	50	50	50	NA			mg/L
Total Chromium	-	NA	5	5	5	5	NA			mg/L
Chromium (VI)	-	NA	3.75	2.5	2.5	2.5	NA			mg/L
Mercury	-	NA	0.125	0.05	0.05	0.05	NA			mg/L



4C) Test result - Sludge / Conventional & Anion Sludge Disposal Pathway = B

Test Parameters	Test Method	Reporting Limit	Sludge disposal pathway					Result			Unit
		Lab	A, B, C	D	E	F	G	Sludge 1002			
pH	EPA SW 9045D	NA	NA	5-11	5-11	6.5-9	6.5-9	NA			-
Fecal Coliform	EPA 1680		NA	NA	NA	<1000	<1000	NA			MPN/g
% Solids	EPA 160.3, HJ613 at 105 degree C	NA	Sample & report					78.24			%
Paint Filter Test	EPA 9095B	NA	NA	Pass	Pass	Pass	Pass	NA			-
Cyanide	USEPA 9013 + USEPA 9014	70	NA	85	70	70	70	NA			mg/kg



Report Number (8725)134-0055

Appendix A - Discharge limit according to regulation

Not Applicable

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

Photo of sampling point
13/05/2025, 10:30



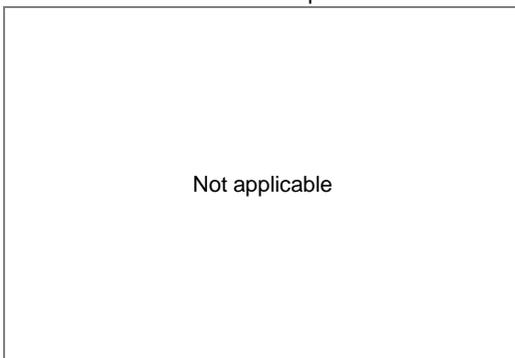
Untreated wastewater

Photo of sample (labelled sample bottle)
13/05/2025, 17:00



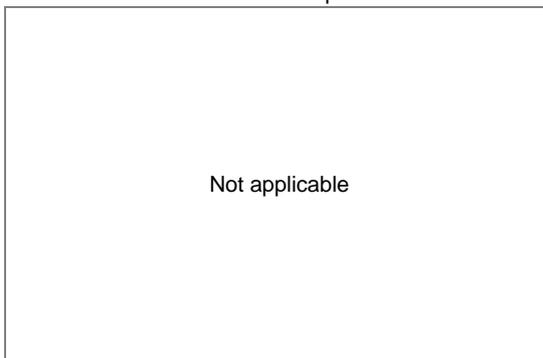
Untreated wastewater

Photo of sampling point
Date & time of photo



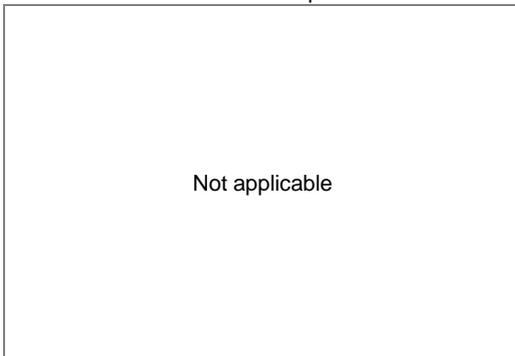
Effluent

Photo of sample (labelled sample bottle)
Date & time of photo



Effluent

Photo of persistent foam
Date & time of photo



Effluent

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

Photo of sampling point
13/05/2025, 11:00



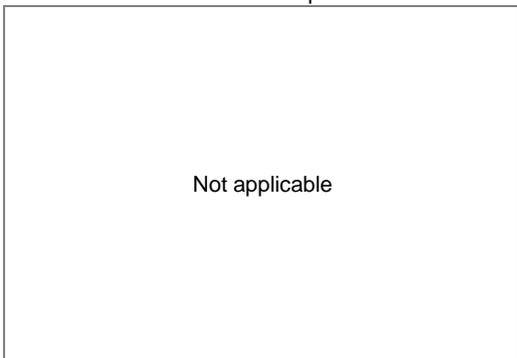
Sludge

Photo of sample (labelled sample bottle)
13/05/2025, 17:00



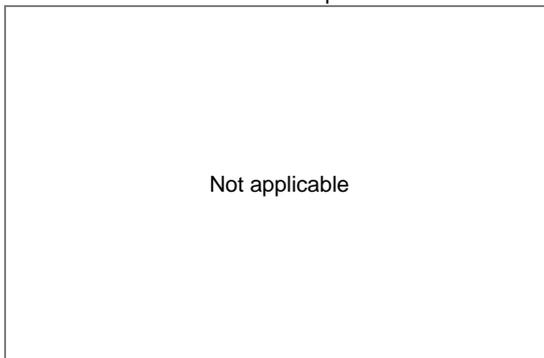
Sludge

Photo of sampling point
Date & time of photo



Incoming Water

Photo of sample (labelled sample bottle)
Date & time of photo



Incoming Water



Appendix C - Field Data Form

ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration

CPSD-AN-00613-DATA 07
Issue Date: February 23, 2024
Version No.: 1
Business Line: Analytical

Attach the completed field data form in the test report.

Facility Information	
Date of Sampling:	12-05-2025
Sample Number (ZDHC Composite Sample Code):	
Facility Name:	Shahi Exports Pvt. Ltd (Unit-9)
Facility Address:	7th main road, Yeshwanthpur, Suburb Stage II, Peenya
Facility Type (tick all applicable):	<input type="checkbox"/> Dyeing and Finishing <input type="checkbox"/> Fabric Mill <input checked="" type="checkbox"/> Laundry, Washing and Finishing <input type="checkbox"/> Natural Leather processing <input type="checkbox"/> Printing <input type="checkbox"/> Synthetic Leather processing <input type="checkbox"/> Other (please specify)
Discharge Type (tick applicable):	<input type="checkbox"/> Direct discharge <input type="checkbox"/> with pre-treatment <input type="checkbox"/> Indirect discharge <input type="checkbox"/> without pre-treatment <input checked="" type="checkbox"/> Zero liquid discharge (ZLD) <input checked="" type="checkbox"/> with own ETP
Discharge Description:	<input checked="" type="checkbox"/> Discharge to environment (e.g. river, stream, sea etc.) <input type="checkbox"/> Other (please specify) <input type="checkbox"/> Sewage treatment plant
Discharge Volume:	<input checked="" type="checkbox"/> $\leq 15m^3$ per day <input type="checkbox"/> $< 15m^3$ per day

Sample Type and 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): <u>Yes, > 12 hrs</u> <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 <input type="checkbox"/> with equalisation tank (EQT) present <small>Enter sampling time(s) in page 2 and save field test measurements. No field test measurements required except on clarity request.</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: >100°C offsite incineration <input checked="" type="checkbox"/> B: Landfill with significant control <input type="checkbox"/> C: Building products processed >100°C <input type="checkbox"/> D: Landfill with limited control <input type="checkbox"/> E: Incineration/ Building products processed >100°C <input type="checkbox"/> F: Landfill with no control <input type="checkbox"/> G: Land application 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:	Shahi Exports Pvt. Ltd (Unit-9)	Sampler's Name/ Email:	SADIQ IB pbcadq1131@gmail.com
Facility Representative Name:	MR. Rakshit	Sampler's ZDHC Accredited No.:	ZDHC-A-247 (C0108-P430)-35286
Facility Representative Signature and Stamp:	K. Rakshit 	Sampler's Signature:	
Date:	12-05-2025	Date:	12-05-2025



Appendix C - Field Data Form (continue)

ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration										CPSC-AN-20813-DATA 97	
										Issue Date:	
										Version No.: 1	
										Business Line: Analytical	
ZDHC Wastewater Flow Device Dimensions											
Measurement (cm)	Meter	Pipe (O)	Fume (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 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	Stop Time: 4:30							
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	11:30	12:30	1:30	2:30	3:30	4:30	--			
Colour (visual estimation):	milky white milky white milky white milky white milky white milky white										
Effluent 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 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											
Temperature (°C)	WW Discharge	Receiving Water									
pH:											
Dissolved Oxygen (mg/L):											
Total Chlorine (mg/L):											
Persistent Foam (Year No):	Yes / No	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	Depth (cm)										
Flow:	Velocity (cm/sec)										
Colour (visual estimation):											
Volume collected (L):	1000 ml	1000 ml	1000 ml	1000 ml	1000 ml	1000 ml	1000 ml	1000 ml			
Total volume collected (L):	1000 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: 11:00	Stop Time: 5:00							
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	11:00	12:00	1:00	2:00	3:00	4:00	5:00	--			
Colour (visual estimation):	11-grey 12-grey 13-grey 14-grey 15-grey 16-grey 17-grey										
Comments/ Other Observations											

End of the Report