



LAB REPORT

Report number	(7425)115-0545		
Date of sampling (dd/mm/yyyy)	15/05/2025		
Date of report (dd/mm/yyyy)	28/05/2025		
Factory company name	OCEAN LANKA (PVT) LTD.		
Factory address	BLOCK B, BEPZ, WALGAMA, MALWANA.		
Discharge type	Indirect Discharge with Pretreatment		
Discharge destination name & address	Discharge to BOI Central Treatment Plant - Malwana.		
Average total industrial wastewater generated	≥15 m3 per day	Manufacturing process type	Textile
Onsite ETP / Pretreatment	Yes	Homogenization Tank & Average Holding Time	Yes (raw), <12 h
ZDHC sampler accreditation certification number	ZDHC-A-24-E-C001068-R400A-CBF6F		
Sample description & Sample collection method			
Untreated wastewater (raw)	I001, dark blue liquid, composite at 12:15, 13:15, 14:14, 15:13, 16:13, 17:13, 18:15		
Discharged wastewater (effluent)	I002, pale grey liquid, composite at 12:10, 13:10, 14:10, 15:08, 16:08, 17:08, 18:06		
Sludge	I003, brown solid, composite at 12:20, 13:20, 14:20, 15:18, 16:18, 17:18, 18:18		
Local legal data			
Local legal standard name & number [a]	National Environmental Act No. 47 of 1980		
Parameters (ZDHC WWG V2.2, Table 2 & 3) meeting local regulation [a]	Meet		
Discharge permit provided	Yes		
ZDHC overall results			
Wastewater MRSL	Not detected		
Wastewater metals	Meet aspirational limit		
Wastewater conventional and anions	Not applicable		
Sludge disposal pathway	A	Sludge	Sample and report only

Internal Description	
Sample reference number	(7425)115-0545
Date & time of the beginning of sampling	15/05/2025, 12:10
Date & time of the end of sampling	15/05/2025, 18:20
Sample received date	15/05/2025
Testing period	From 15/05/2025 to 27/05/2025
Sample holding time exceeded	No
Sample temperature when received from lab	4.0 °C
Comments	Samples received within holding time and temperature.
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For and on behalf of	BUREAU VERITAS CONSUMER PRODUCTS SERVICES LANKA (PVT) LTD No 570, Galle Road, Katubadda, Sri Lanka Tel: +94 112 350 111
	
	Prasad Duminda, Assistant Manager - Analytical

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Summary of test results

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

Summary of test results

Wastewater / Metals - Test Items	Effluent I002
Antimony	NA
Chromium (VI)	Aspirational
Barium	NA
Selenium	NA
Tin	NA
Arsenic	Aspirational
Total Chromium	NA
Cobalt	NA
Cadmium	Aspirational
Copper	NA
Lead	Aspirational
Nickel	NA
Silver	NA
Zinc	NA
Mercury	Aspirational
Wastewater / Conventional & Anions - Test Items	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
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 = A**

Sludge / Sludge Parameters - Test Items	Sludge I003
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	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
(S)	=	Analysis was subcontracted for testing - Bureau Veritas Consumer Products Services (Noida) Co., Ltd.

1) Test result - Wastewater / MRSL

1A) AP and APEOs: including all isomers

Internal method with reference to ISO 18857-2, modified dichloromethane extraction

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 8270E Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS

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

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

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

Internal method with reference to USEPA 8260D (Dichloromethane extraction followed by GC-MS)

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

Internal method with reference to USEPA 8270E Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS

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)

Internal method with reference to 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

Internal method with reference to DIN 54231

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)

Internal method with reference to DIN 54231

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

Internal method with reference to DIN 54231; Liquid Extraction, LC/MS

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
Component 1: C ₃₉ H ₂₃ Cl-CrN ₇ O ₁₂ S 2Na	118685-33-9	NA	NA	NA			
Component 2: C ₄₆ H ₃₀ CrN ₁₀ O ₂₀ S ₂ 3Na	Not allocated						

1J) Flame Retardants

ISO 22032, USEPA 527 and USEPA 8321B Dichloromethane extraction GC-MS or LC-MS & Determined as total boron via ICP, ISO 17294

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) 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			

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

Internal method with reference to USEPA 8270E

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-methoxypropylacetate	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

Internal method with reference to USEPA 8260D

Table with 4 columns: Test Parameters, CAS Number, Reporting Limit (TEXTILE, Lab), and Result (µg/L). Rows include 1,2-dichloroethane, Methylene chloride, Tetrachloroethylene, and Trichloroethylene.

1M) Organotin Compounds

Internal method with reference to ISO 17353

Table with 4 columns: Test Parameters, CAS Number, Reporting Limit (TEXTILE, Lab), and Result (µg/L). Rows include Dipropyltin compounds (DPT), Mono, di-, and tri-butyltin derivatives, Mono, di-, and tri-methyltin derivatives, Mono, di-, and tri-octyltin derivatives, Mono, di-, and tri-phenyltin derivatives, Tetrabutyltin compounds (TeBT), Tetraethyltin compounds (TeET), Tetraoctyltin compounds (TeOT), Tricyclohexyltin (TCyHT), and Tripropyltin compounds (TPT).

1N) Other / Miscellaneous Chemicals

AEEA: Liquid extraction, LC-MS/LCMSMS; Bisphenol A: Internal method, Liquid extraction, LC-MS; Thiourea: Internal method with reference to ISO 13365-1:2020, EN 17134:2019, Liquid extraction, LC-MS; Quinoline: Internal method with reference to DIN 54231, Liquid extraction, LC-MS; Borate, zinc salt: Determined as total boron and total zinc via ICP with reference to ISO 17294-2

Table with 4 columns: Test Parameters, CAS Number, Reporting Limit (TEXTILE, Lab), and Result (µg/L). Rows include AEEA [2-(2-aminoethylamino)ethanol], Bisphenol A, Borate (Borate, zinc salt), Zinc salt (Borate, zinc salt), Quinoline, Silica (particles of respirable size), and Thiourea.

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.



1O) Perfluorinated and Polyfluorinated Chemicals (PFCs)

Internal method with reference to PFCs: EPA 537:2020, FTOH: EPA 8270

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

Internal method with reference to USEPA 8270E

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw I001			
1,2-benzenedicarboxylic acid, di-C6-8 branched and linear alkyl esters, C7-rich (DIHP)	71888-89-6/ 84777-06-0	10	10	ND			
1,2-benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP)	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)

Internal method with reference to USEPA 8270E

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)

Internal method with reference to EN ISO 14362-1, EN 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-diaminoanisole 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. Dichloromethane extraction GC-MS

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)

Internal method with reference to USEPA 8260D, USEPA 8270

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; Chromium VI: ISO 18412

Test Parameters	Reporting limit, TEXTILE				Legal limit [#]	Result (mg/L)			
	Foundational	Progressive	Aspirational	Lab		Effluent I002			
Antimony	0.1	0.05	0.01	0.01	-	NA			
Chromium (VI)	0.05	0.005	0.001	0.001	0.5	ND			
Barium	Sample & report			1	-	NA			
Selenium	Sample & report			1	-	NA			
Tin	Sample & report			1	-	NA			
Arsenic	0.05	0.01	0.005	0.005	0.2	ND			
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	-	ND			
Copper	1	0.5	0.25	0.25	3	NA			
Lead	0.1	0.05	0.01	0.01	1	ND			
Nickel	0.2	0.1	0.05	0.05	3	NA			
Silver	0.1	0.05	0.005	0.005	-	NA			
Zinc	5	1	0.5	0.5	10	NA			
Mercury	0.01	0.005	0.001	0.001	0.001	ND			

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 1002		
pH	SM 4500H	6-9			NA	-	NA		pH
Temperature difference	USEA 170.1	Δ+15	Δ+10	Δ+5	NA	-	NA		°C
E.coli	SM 9221B, SM9221G	126 MPN/100-ml			126	-	NA		MPN/100-ml
Colour (436 nm)	ISO 7887-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	SM 4500-NH3 F	10	1	0.5	0.5	-	NA		mg/L
AOX	ISO 9562	3	0.5	0.1	0.1	-	NA		mg/L
BOD ₅	Internal method wrt. SM 5210-B	30	15	8	8	-	NA		mg/L
COD	Internal method wrt. SM 5220-D	150	80	40	40	-	NA		mg/L
DO	SM 4500-O-G	≥ 4			4	-	NA		mg/L
Oil & Grease	Internal method wrt. USEPA 1664-B	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 1002		
Total Phenols / Phenol Index	SM 5530-B/C	0.5	0.01	0.001	0.001	-	NA		mg/L
Total Chlorine	SM4500 CI G	1			1	-	NA		mg/L
TDS	Internal method wrt. SM 2540-C	Sample & report			5	-	NA		mg/L
Total Nitrogen	SM 4500-N C	20	10	5	5	-	NA		mg/L
Total Phosphorus	ISO 17294	3	0.5	0.1	0.1	-	NA		mg/L
TSS	Internal method wrt. SM 2540-D	50	15	5	5	-	NA		mg/L
Chloride	SM 4500-CI-B	Sample & report			NA	-	NA		mg/L
Cyanide, total	APHA 4500-CN	0.2	0.1	0.05	0.05	-	NA		mg/L
Sulphate	SM 4500-SO4 C	Sample & report			NA	-	NA		mg/L
Sulphide	SM 4500-S2-D	0.5	0.05	0.01	0.01	-	NA		mg/L
Sulphite	SM 4500-SO32-C	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 Disposal Pathway = A**
Sludge - AP & APEOs

Internal method with reference to ASTM D7065

Test Parameters	CAS Number	Reporting Limit		Result			Unit
		TEXTILE	Lab	Sludge I003			
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

Internal method with reference to USEPA 8270E

Test Parameters	CAS Number	Reporting Limit		Result			Unit
		TEXTILE	Lab	Sludge I003			
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

Internal method with reference to USEPA 8270E

Test Parameters	CAS Number	Reporting Limit		Result			Unit
		TEXTILE	Lab	Sludge I003			
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 = A**

Internal method with reference to USEPA 3050, USEPA 3051A, USEPA 6020B; Chromium (VI): Internal method with reference to USEPA 3060A, USEPA 7196A

Test Parameters	Reporting Limit		Maximum Total Metals Limits Disposal Pathway G	Threshold Values	Result			Unit
	TEXTILE	Lab			Sludge I003			
Antimony	5	5	NA	12	NA			mg/kg
Arsenic	5	5	41	10	NA			mg/kg
Barium	200	200	500	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 = A**

EPA 6020A, 3051A, EPA 1311

Test Parameters	Reporting	Sludge disposal pathway					Result	Unit
	Lab	A, B, C	D	E	F	G		
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 = A			
Test Parameters	Test Method	Reporting Limit	Sludge disposal pathway					Result			Unit				
		Lab	A, B, C	D	E	F	G	Sludge 1003							
pH	EPA SW 9045D	NA	NA	5-11	5-11	6.5-9	6.5-9	NA			-				
Fecal Coliform	EPA 1681	NA	NA	NA	NA	<1000	<1000	NA			MPN/g				
% Solids	EPA 160.3	NA	Sample & report					99.68			%				
Paint Filter Test	EPA 9095B	NA	NA	Pass	Pass	Pass	Pass	NA			-				
Cyanide	APHA 4500-CN	70	NA	85	70	70	70	NA			mg/kg				

Appendix A - Discharge limit according to regulation

Environment Management Department

ENVIRONMENT STANDARDS WASTEWATER DISCHARGE QUALITY STANDARDS

Tolerance Limits for Industrial Wastewater (Effluents) Discharged Into the Common Wastewater Treatment Plant

Parameters	Maximum Tolerance Limit
BOD (5 days at 20oC) (mg/l)	200
COD (mg/l)	600
pH	6.0-8.5
Total Suspended solids (mg/l)	500
Total dissolved solids (inorganic) (mg/l)	2100
Temperature (OC)	40
Phenolic compounds (as phenolic OH) (mg/l)	5
Oil and grease (mg/l)	30
Total Chromium (mg/l)	2 (Chromium VI 0.5)
Copper (as Cu) (mg/l)	3
Lead (as Pb) (mg/l)	1
Mercury (as Hg) (mg/l)	0.001
Nickel (as Ni) (mg/l)	3
Zinc (as Zn) (mg/l)	10
Arsenic (as As) (mg/l)	0.2
Boron (as B) (mg/l)	2
Ammonical Nitrogen (as N) (mg/l)	50
Sulphides (as S ²⁻) (mg/l)	2
Sulphates (as SO ₄ ²⁻) (mg/l)	1000
Chlorides (as Cl ⁻) (mg/l)	900
Cyanides (as CN ⁻) (mg/l)	0.2
Free Residual Chlorine (as Chlorine) (mg/l)	Nil

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

Photo of sampling point
15/05/2025, 12:15



Untreated wastewater

Photo of sample (labelled sample bottle)
15/05/2025, 18:20



Untreated wastewater

Photo of sampling point
15/05/2025, 12:10



Effluent

Photo of sample (labelled sample bottle)
15/05/2025, 18:13



Effluent

Photo of persistent foam
15/05/2025, 12:09



Effluent

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

Photo of sampling point
15/05/2025, 12:21



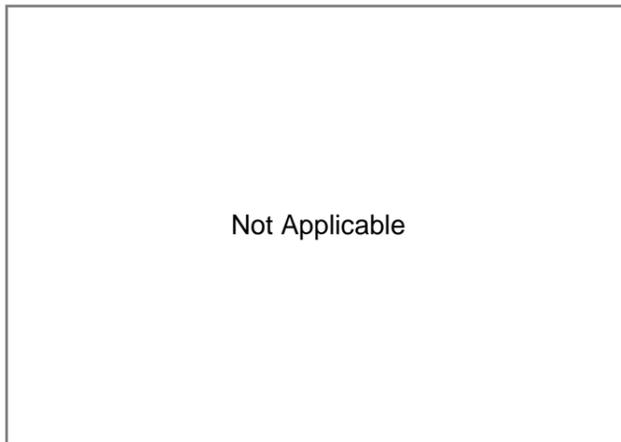
Sludge

Photo of sample (labelled sample bottle)
15/05/2025, 18:22



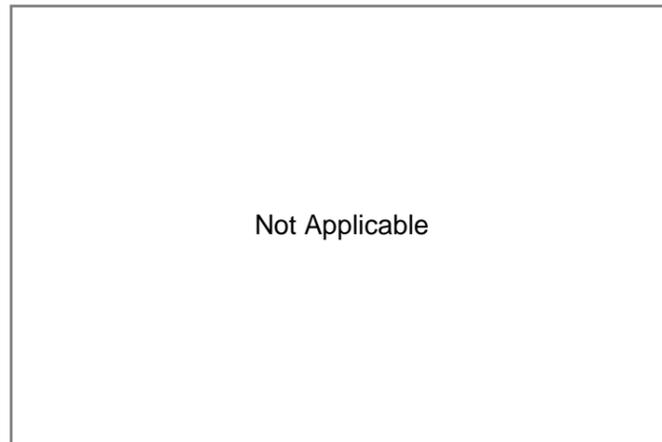
Sludge

Photo of sampling point
-



Incoming Water

Photo of sample (labelled sample bottle)
-



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 20, 2024
		Version No.:	1
		Business Line:	Analytical
Attach the completed field data form in the test report.			
Facility Information			
Date of Sampling:	15/05/2025		
Sample Number (ZDHC Composite Sample Code):	74251150545 ZDHC WW		
Facility Name:	Ocean Lanka (Pvt) Ltd		
Facility Address:	Block 'B', BEPZ, Walgama, Malwana		
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 checked="" type="checkbox"/> Indirect discharge <input type="checkbox"/> Zero liquid discharge (ZLD)	<input checked="" 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 checked="" type="checkbox"/> Sewage treatment plant <input type="checkbox"/> Other (please specify)		
Discharge Volume:	<input checked="" type="checkbox"/> $\geq 15m^3$ per day <input type="checkbox"/> $< 15m^3$ per day		
BOT Control treatment plant - EPE malwana, Biggaw			
Sample Type and Details			
Sample Type	Sample Details		
<input type="checkbox"/> Incoming Water			
<input type="checkbox"/> Untreated WW	<input checked="" type="checkbox"/> with equalisation tank (EQT) present Hydraulic Retention Time (HRT) (Hours): <u>2 1/2 hr</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 <small>Enter sampling time(s) in page 2 and take field test measurements.</small>	<input checked="" type="checkbox"/> Indirect <small>Enter sampling time(s) in page 2. No field test measurements required except on client's request.</small>	<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"/> Sludge	Disposal Pathway (The pathway must be defined by the facility. If the facility cannot provide information, pathway "F" shall be assumed.) <input checked="" type="radio"/> A >1000°C offsite incineration <input type="radio"/> B Landfill with significant control <input type="radio"/> C Building products processed >1000°C <input type="radio"/> D Landfill with limited control <input type="radio"/> E Incineration/ Building products processed <1000°C <input type="radio"/> F Landfill with no control <input type="radio"/> 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:	Ocean Lanka (Pvt) Ltd	Sampler's Name/ Email:	Dinushka Rathnayake. dinushkarathnayake92@gmail.com
Facility Representative Name:	Nawas Abdul Rasheed	Sampler's ZDHC Accredited No.:	ZDHC - A-24-E-C001068- R400A - CBFBF
Facility Representative Signature and Stamp:		Sampler's Signature:	
Date:	15/05/2025	Date:	15/05/2025

Appendix C - Field Data Form (continue)

ZDHC Wastewater Flow Device Dimensions		Meter		Pipe (O)		Flume (U)		Wier (V)	
Measurement (cm)									
Diameter		--							
Depth		--							
ZDHC Wastewater Sampling Field Testing QA/QC									
Parameter	Lab Control Sample (LCS) Known	Lab Control Sample (LCS) Measured						Accuracy (%)	
pH	7.01	6.99						99.71	
Total Chlorine	0.2	0.2						100%	
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	12:15		13:15		14:14		15:13		16:13
Colour (visual estimation):	DARK BLUE		DARK BLUE		DARK BLUE		PURPLE		PURPLE
Untreated Sample Point	<input checked="" type="radio"/> Composite Sample		<input type="radio"/> Grab Sample		Start Time: 12:15		Stop Time: 13:15		
Sampling Locations:	GPS coordinates:				Lat.: N/S 6.962499		Long.: E/W 80.003042		
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	12:15		13:15		14:14		15:13		16:13
Colour (visual estimation):	DARK BLUE		DARK BLUE		DARK BLUE		PURPLE		PURPLE
Effluent Sample Point	<input checked="" type="radio"/> Composite Sample		<input type="radio"/> Grab Sample		Start Time: 12:10		Stop Time: 13:10		
Sampling Locations:	GPS coordinates:				Lat.: N/S 6.962383		Long.: E/W 80.003027		
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	12:10		13:10		14:10		15:08		16:08
Temperature (°C):	WW Discharge	35.6	36.5	36.2	36.1	35.2	36.1	35.8	35.9
	Receiving Water	-	-	-	-	-	-	-	-
pH:		7.59	7.20	7.32	7.31	7.50	7.48	7.51	7.53
Dissolved Oxygen (mg/L):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Chlorine (mg/L):		20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
Persistent Foam (Yes/ No):		Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Wastewater Flow Meter (L/min):	m ³ /day	5469	5469	5078	5469	5078	5078	5469	5301
Alternate Measured Flow:	Depth (cm)	12	12	12	12	12	12	12	12
	Velocity (cm/sec)	140	140	130	140	130	130	140	135
Colour (visual estimation):		PALE GREY	PALE GREY	PALE GREY	PALE GREY	PALE GREY	PALE GREY	PALE GREY	PALE GREY
Volume collected (L):		3.5	3.5	3.3	3.5	3.5	3.5	3.5	3.5
Total volume collected (L):		24.5							
		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: 12:20		Stop Time: 13:20		
Sampling Locations:	GPS coordinates:				Lat.: N/S 6.962600		Long.: E/W 80.003172		
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	12:20		13:20		14:20		15:18		16:18
Colour (visual estimation):	BROWN		BROWN		BROWN		BROWN		BROWN
Comments/ Other Observations									