



BUREAU  
VERITAS

# LAB REPORT

Report number	(7225)217-0402		
Date of sampling (dd/mm/yyyy)	21/08/2025		
Date of report (dd/mm/yyyy)	03/09/2025		
Factory company name	CALIK DENIM TEKSTIL SAN. VE TIC. A.S.		
Factory address	1. ORGANIZE SANAYI BOLGESI 2. CADDE NO:6 44900 YESILYURT MALATYA/TURKIYE		
Discharge type	Indirect Discharge without Pretreatment		
Discharge destination name & address	Discharge to Malatya Merkez 1. Organize Sanayi Bolgesi		
Average total industrial wastewater generated	≥15 m <sup>3</sup> per day	Manufacturing process type	Textile
Onsite ETP / Pretreatment	No	Homogenization Tank & Average Holding Time	No
ZDHC sampler accreditation certification number	ZDHC-A-22-E-C001068-R2377-3C60F		
<b>Sample description &amp; Sample collection method</b>			
Untreated wastewater (raw)	I001, blue liquid, composite sample at 09:15, 10:15, 11:15, 12:15, 13:15, 14:15, 15:15		
Discharged wastewater (effluent)	Not applicable		
Sludge	Not applicable		
<b>Local legal data</b>			
Local legal standard name & number [a]	Not Applicable		
Parameters (ZDHC WWG V2.2, Table 2 & 3) exceeded local regulation	Not Applicable		
Discharge permit provided	Yes		
<b>ZDHC overall results</b>			
Wastewater MRSL	Not detected		
Wastewater metals	Meet aspirational limit		
Wastewater conventional and anions	Not applicable		
Sludge disposal pathway	Not applicable	Sludge	Not applicable

Internal Description	
Sample reference number	(7225)217-0402
Date & time of the beginning of sampling	21/08/2025, 09:00
Date & time of the end of sampling	21/08/2025, 15:30
Sample received date	22/08/2025
Testing period	22/08/2025 to 03/09/2025
Sample holding time exceeded	No
Sample temperature when received from lab	4.2 °C
Comments	/

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

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For and on behalf of  
 Bureau Veritas Consumer Product Services Test Laboratuvarlari LTD STI



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 Firdevs Elikara, SCM Technical Lead

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**Summary of test results**

<b>Wastewater / MRSL - Test Items</b>	<b>Raw 1001</b>
AP and APEOs	ND
Antimicrobials and Biocides	ND
Chlorinated Paraffins	ND
Chlorobenzenes and Chlorotoluenes	ND
Chlorophenols	ND
DMFa	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	ND
Organotin Compounds	ND
Other / Miscellaneous Chemicals	ND
PFCs	ND
Phthalates	ND
PAHs	ND
Restricted Aromatic Amines	ND
UV Absorbers	ND
VOC	ND

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**Summary of test results**

<b>Wastewater / Metals - Test Items</b>	<b>Raw I001</b>
Antimony	NA
Chromium (VI)	ND
Barium	NA
Selenium	NA
Tin	NA
Arsenic	ND
Total Chromium	NA
Cobalt	NA
Cadmium	ND
Copper	NA
Lead	ND
Nickel	NA
Silver	NA
Zinc	NA
Mercury	ND
<b>Wastewater / Conventional &amp; Anions - Test Items</b>	<b>Effluent I002</b>
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 =**      **Not applicable**

Sludge / Sludge Parameters - Test Items	Sludge I003
AP and APEOs	NA
PAHs	NA
Chlorotoluenes	NA
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	NA
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)
Exceed foundational	=	Parameter exceeds the foundational limit
Meet foundational	=	Parameter meets the foundational limit
Meet progressive	=	Parameter meets the progressive limit
Meet aspirational	=	Parameter meets the aspirational limit
Report only	=	Parameter is for report only, please refer to the data
NA	=	Not applicable
Meet disposal pathway	=	Parameter meets the sludge disposal pathway limit
Exceed disposal pathway	=	Parameter exceeds the sludge disposal pathway limit
[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 remark
(S)	=	Analysis was subcontracted for testing - XXX



**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 1001			
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**

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 An alternate method without derivatization and determination by LCMS/LCMSMS is also possible

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw 1001			
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 ISO18219-1:2021, ISO 12010:2019 Methods for SCCP with GC-MS(NCI) or LC-MS/MS/ 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 1001			
MCCPs (C14-C17)	85535-85-9	500	500	ND			
SCCPs (C10'-C13)	85535-84-8	25	25	ND			

### 1D) Chlorobenzenes and Chlorotoluenes

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

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw 1001			
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 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		Result (µg/L)			
		TEXTILE	Lab	Raw 1001			
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 1001			
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 1001			
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 1001			
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**

Liquid extraction, LC-MS

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw 1001			
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	NA	NA	NA			
Component 2: C46H-30CrN10O20S2 3Na	Not allocated						

**1J) Flame Retardants**

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

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw 1001			
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**

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

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw 1001			
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 8270E Liquid extraction, LC-MS GC-MS

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw 1001			
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)4 GC-MS

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw 1001			
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			
Tetrabutyltin 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-MSMS/ Liquid extraction, LC-MS/ Determine as total boron and total zinc via ICP

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw 1001			
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.

### 1O) 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 1001			
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

USEPA 8270E, ISO 18856 Dichloromethane extraction GC-MS

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw 1001			
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)

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

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw 1001			
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)**

Reduction step with sodium dithionite, solvent extraction EPA 8270/ Reduction step with sodium dithionite, solvent extraction EPA 8270E and ISO 14362-1 GC/MS and LC/MS/MS

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw 1001			
2-naphthylamine	91-59-8	0,1	0,1	ND			
2-naphthylammoniumacetate	553-00-4	0,1	0,1	ND			
2,4-xylydine	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-xylydine	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 or LC-MS(-MS)

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw 1001			
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)**

SO 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/ HJ 1067 or EPA 8260D or ISO 11423-1

Test Parameters	CAS Number	Reporting Limit		Result (µg/L)			
		TEXTILE	Lab	Raw 1001			
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**

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

Test Parameters	Reporting limit, TEXTILE				Legal limit#	Result (mg/L)			
	Foundational	Progressive	Aspirational	Lab		Raw 1001			
Antimony	0,1	0,05	0,01	0,01	-	NA			
Chromium (VI)	0,05	0,005	0,001	0,001	-	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	-	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	-	NA			
Lead	0,1	0,05	0,01	0,01	-	ND			
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	0,1	0,005	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 <sup>#</sup>	Result		Unit
		Foundational	Progressive	Aspirational	Lab		Effluent 1002		
pH	With reference to ISO 10523	6-9			NA	-	NA		pH
Temperature difference	USEPA 170.1	Δ+15	Δ+10	Δ+5	NA	-	NA		°C
E.coli	-	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 <sup>3</sup> /day			NA	-	NA		m <sup>3</sup> /day
Ammonium-Nitrogen	APHA 4500-NH3-D / 23rdEdn, 2017	10	1	0,5	0,5	-	NA		mg/L
AOX	ISO 9562	3	0,5	0,1	0,1	-	NA		mg/L
BOD <sub>5</sub>	APHA 5210B	30	15	8	8	-	NA		mg/L
COD	APHA 5220D	150	80	40	40	-	NA		mg/L
DO	ISO 5814	≥ 4			4	-	NA		mg/L
Oil & Grease	APHA 5520-B 23rd Edn, 2017	10	2	0,5	0,5	-	NA		mg/L
Total Phenols / Phenol Index	APHA 5530-C ,23ndEdn, 2017	0,5	0,01	0,001	0,001	-	NA		mg/L
Total Chlorine	ISO 7393-2	1			-	-	NA		mg/L
TDS	APHA 2540C	Sample & report			-	-	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 <sup>#</sup>	Result		Unit	
		Foundational	Progressive	Aspirational	Lab		Effluent 1002			
Total Nitrogen	APHA 4500-Norg -C / 23ndEdn, 2017	20	10	5	5	-	NA		mg/L	
Total Phosphorus	APHA 4500 P-J / 23ndEdn, 2017	3	0,5	0,1	0,1	-	NA		mg/L	
TSS	APHA 2540D	50	15	5	5	-	NA		mg/L	
Chloride	IS 3025 Part-32: 1988	Sample & report				-	-	NA		mg/L
Cyanide, total	APHA 4500 CN - E ,23rd Edn, 2017	0,2	0,1	0,05	0,05	-	NA		mg/L	
Sulphate	IS 3025 Part-24: Sec-1: 2022	Sample & report				-	-	NA		mg/L
Sulphide	APHA 4500-S2-D / 23ndEdn, 2017	0,5	0,05	0,01	0,01	-	NA		mg/L	
Sulphite	APHA 4500-SO32 D, 23rd Edn, 2017	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 = Not applicable**  
**Sludge - AP & APEOs**

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	Reporting Limit		Result			Unit
		TEXTILE	Lab	Sludge 1003			
NPEO	Multiple 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0	0,4	0,4	NA			mg/kg
NP, mixed isomers	Multiple 104-40-5, 11066-49-2, 25154-52-3, 84852-15-3	0,4	0,4	NA			mg/kg
OPEO	Multiple 9002-93-1, 9036-19-5, 68987-90-6	0,4	0,4	NA			mg/kg
OP, mixed isomers	Multiple 140-66-9, 1806-26-4, 27193-28-8	0,4	0,4	NA			mg/kg

**Sludge - PAHs**

USEPA 3540 + USEPA 3650 + USEPA 8270

Test Parameters	CAS Number	Reporting Limit		Result			Unit
		TEXTILE	Lab	Sludge 1003			
Acenaphthene	83-32-9	0,2	0,2	NA			mg/kg
Acenaphthylene	208-96-8	0,2	0,2	NA			mg/kg
Anthracene	120-12-7	0,2	0,2	NA			mg/kg
Benzo[a]anthracene	56-55-3	0,2	0,2	NA			mg/kg
Benzo[a]pyrene (BaP)	50-32-8	0,2	0,2	NA			mg/kg
Benzo[b]fluoranthene	205-99-2	0,2	0,2	NA			mg/kg
Benzo[e]pyrene	192-97-2	0,2	0,2	NA			mg/kg
Benzo[ghi]perylene	191-24-2	0,2	0,2	NA			mg/kg
Benzo[j]fluoranthene	205-82-3	0,2	0,2	NA			mg/kg
Benzo[k]fluoranthene	207-08-9	0,2	0,2	NA			mg/kg
Chrysene	218-01-9	0,2	0,2	NA			mg/kg
Dibenz[a,h]anthracene	53-70-3	0,2	0,2	NA			mg/kg
Fluoranthene	206-44-0	0,2	0,2	NA			mg/kg
Fluorene	86-73-7	0,2	0,2	NA			mg/kg
Indeno[1,2,3-cd]pyrene	193-39-5	0,2	0,2	NA			mg/kg
Naphthalene	91-20-3	0,2	0,2	NA			mg/kg
Phenanthrene	85-01-8	0,2	0,2	NA			mg/kg
Pyrene	129-00-0	0,2	0,2	NA			mg/kg

**Sludge - Chlorotoluenes**

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

Test Parameters	CAS Number	Reporting Limit		Result			Unit
		TEXTILE	Lab	Sludge 1003			
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	NA			mg/kg



**4B) Test result - Sludge / Metals** **Sludge Disposal Pathway = Not applicable**

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

Test Parameters	Reporting Limit		Maximum Total Metals Limits Disposal Pathway G	Threshold Values			Result			Unit
	TEXTILE	Lab					Sludge 1003			
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 = Not applicable**

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

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	0,5	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	1,25	0,5	0,5	0,5			NA			mg/L



4C) Test result - Sludge / Conventional & Anion												Sludge Disposal Pathway =			Not applicable	
Test Parameters	Test Method	Reporting Limit	Sludge disposal pathway					Result			Unit					
		Lab	A, B, C	D	E	F	G	Sludge 1003								
pH	USEPA SW 9045D	NA	NA	5-11	5-11	6.5-9	6.5-9	NA			-					
Fecal Coliform	USEPA 1681	-	NA	NA	NA	<1000	<1000	NA			MPN/g					
% Solids	USEPA 160.3	NA	Sample & report					NA			%					
Paint Filter Test	No Standard	NA	NA	Pass	Pass	Pass	Pass	NA			-					
Cyanide	USEPA 9013 + USEPA 9014	70	NA	85	70	70	70	NA			mg/kg					



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Report Number (7225)217-0402

**Appendix A - Discharge limit according to regulation**



**MALATYA MERKEZ 1.ORGANİZE SANAYİ BÖLGESİ  
YÖNETİM KURULU BAŞKANLIĞI**

Sayı :2024/432  
Konu :Bağlantı İzni

27/09/2024

**BAĞLANTI İZİN BELGESİ**

Müracatta Bulunan Firmanın	
Ünvanı ve Adresi	ÇALIK DENİM TEKSTİL SAN VE TIC. A.Ş. Adres:1.OSB Mah. 2.Cad No:6 YEŞİLYURT/MALATYA
Deşarj Yeri	1.ORGANİZE SANAYİ BÖLGESİ KANALI
SKKY (Tablo 19)	Atıksuların Atıksu Altyapı Tesisime Deşarjda öngörülen Standart

Parametre	Birimi	ANALİZ SONUCU	KOMPOZİT NUMUNE 2 SAATLİK
pH	-	6,78	6-9
Askıda Katı Madde	mg/L	180,0	240
Bakır	mg/L	<0,05	3,6
Balık Biyodenyeyi	-	4	12
Çıya	mg/L	<0,01	0,06
Çinko	mg/L	<0,05	6
Demir	mg/L	0,238	12
Florür	mg/L	0,115	18
Kadmıyum	mg/L	<0,05	0,12
Kimyasal Oksijen İltivacı	mg/L	238,39	300
Krom +6	mg/L	<0,1	0,6
Kurşun	mg/L	<0,05	2,4
Renk	(Pt-Co)	214,2	336
Sülfat	mg/L	663,75	1800
Toplam Fosfor	mg/L	<0,1	2,4
Toplam Kjeldahl Azotu	mg/L	5,60	24
Toplam Krom	mg/L	0,100	2,4
Toplam Siyanür	mg/L	0,028	1,2
Yağ ve Gres	mg/L	<10,0	24

Bu bağlantı izin belgesi 4562 sayılı OSB Kanunu ve Uygulama Yönetmeliği 112.maddesine istinaden verilmiş olup 27/09/2026 tarihine kadar geçerlidir.

Remzi YAŞAR

Malatya Merkez 1. Organize  
Sanayi Bölgesi Müdürü

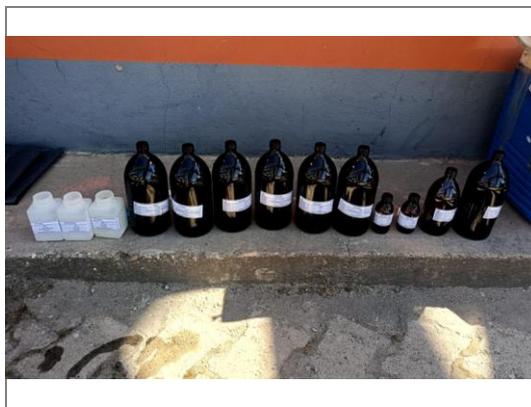
**Appendix B - Photos of sampling points and samples (with relative time and date)**

Photo of sampling point  
21/08/2025 & 09:00



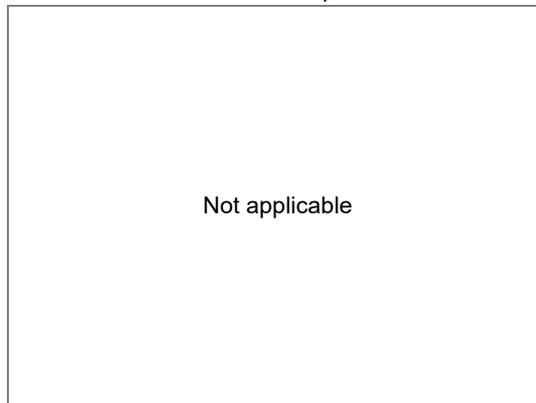
**Untreated Wastewater**

Photo of sample (labelled sample bottle)  
21/08/2025 & 15:30



**Untreated Wastewater**

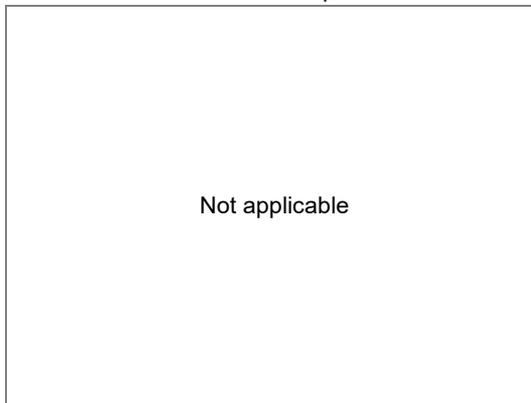
Photo of sampling point  
Date & time of photo



Not applicable

**Effluent**

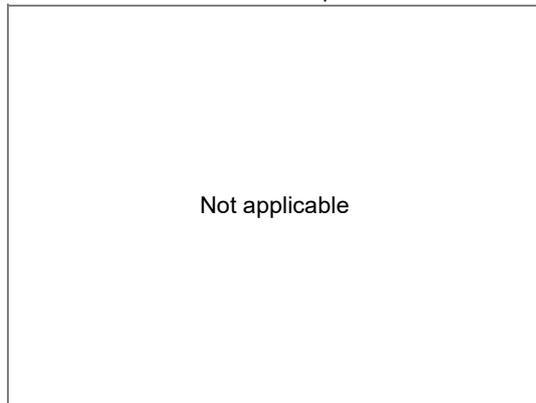
Photo of sample (labelled sample bottle)  
Date & time of photo



Not applicable

**Effluent**

Photo of persistent foam  
Date & time of photo



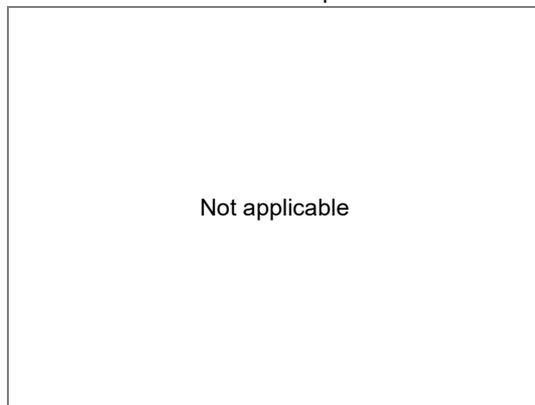
Not applicable

**Effluent**



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

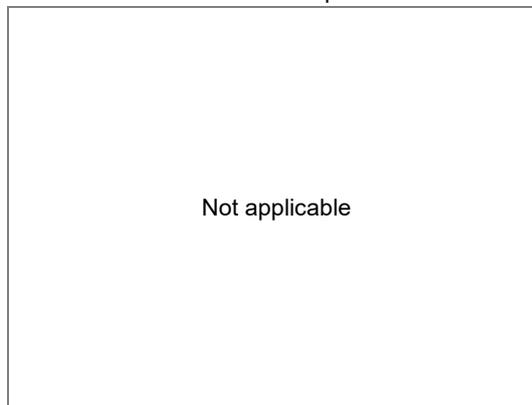
Photo of sampling point  
Date & time of photo



Not applicable

**Sludge**

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



Not applicable

**Sludge**





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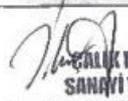
Report Number (7225)217-0402

Appendix C - Field Data Form (continue)

**ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration**

GPS AN 00813 DATA 07  
Issue Date: 12/08/2023  
Version No: 1  
Business Line: Analytical

*Cellulosa*

ZDHC Wastewater Flow Device Dimensions									
Measurement (cm)	Meter	Pipe (Ø)	Flange (Ø)	Wear (Y)					
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: 09:00		Stop Time: 15:30				
Sampling Locations:	GPS coordinates:		Lat: N: 8° 20' 35" E		Long: E: W: 78° 11' 49" E				
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	09:15	10:15	11:15	12:15	13:15	14:15	15:15		
Colour (visual estimation):	Blue	Blue	Blue	Blue	Blue	Blue	Blue		
Effluent Sample Point	<input type="radio"/> Composite Sample <input type="radio"/> Grab Sample		Start Time: 09:00		Stop Time:				
Sampling Locations:	GPS coordinates:		Lat: N: 8° 20' 35" E		Long: E: W: 78° 11' 49" E				
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 (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):									
Volume collected (L):	Collect 3.33-litres each hour for a total minimum volume of 20-litres								
Total volume collected (L):									
Sludge 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):									
Comments/ Other Observations									
 <b>N. DENİZ DENİM TEKSTİL SANAYİ VE TİCARET A.Ş.</b> 1. Organize Sanayi Bölgesi-2-C6 - Kocaeli/İTALATPA Büyükdere/Kültürler YB. 389 000 3095 Tlx. Sic. No: 238876									

END OF REPORT