

SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)

Number: TURA240037424

Report Date: 27/03/2024

Factory's name :	UNITED DYERS
Factory's address :	FIRST INDUSTRIAL ZONE/ PLOT 66/8 - SADAT- 103 - SADAT
Type of wastewater discharge:	Indirect discharge
On-site Wastewater treatment plant:	With pretreatment
Avg. total industrial wastewater:	≥ 15m ³ /day
Date and time of the beginning of sampling:	13/03/2024
Date and time of the end of sampling:	13/03/2021
Date received sample	21/03/2024
Testing period:	From 21/03/2024 to 27/03/2024
Arrival temperature at laboratory:	15.4 °C
Sample type:	
Sample / Incoming water	N/A
Sample / Untreated wastewater	Yellow
Sample / Effluent	Transparent
Sample / Sludge	N/A
Sampling laboratory:	Intertek Egypt
Testing laboratory:	Intertek Turkey
ZDHC sampler accreditation certification number:	-
Local legal standard name ^[a] :	-
Local legal standard no. ^[a] :	-
Parameters (ZDHC WWSG V2.1, Table 2-3) exceeded local regulation:	N/A
Discharge permit provided:	Yes/No

Tests conducted:

As requested by a brand program, for details refer to attached page(s).



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Summary of test results:

Wastewater / MRSL – Test items	Testing period	Untreated Wastewater
Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)	From 21/03/2024 to 27/03/2024	ND
Anti-Microbials & Biocides	From 21/03/2024 to 27/03/2024	ND
Chlorinated Parafins	From 21/03/2024 to 27/03/2024	ND
Chlorobenzenes and Chlorotoluenes	From 21/03/2024 to 27/03/2024	ND
Chlorophenols	From 21/03/2024 to 27/03/2024	ND
Dimethyl Formamide (DMFa) (*)	From 21/03/2024 to 27/03/2024	ND
Dyes – Carcinogenic or Equivalent Concern	From 21/03/2024 to 27/03/2024	ND
Dyes – Disperse (Allergenic)	From 21/03/2024 to 27/03/2024	ND
Dyes – Navy Blue Colourant	From 21/03/2024 to 27/03/2024	ND
Flame Retardants	From 21/03/2024 to 27/03/2024	ND
Glycols / Glycol Ethers	From 21/03/2024 to 27/03/2024	ND
Halogenated solvents	From 21/03/2024 to 27/03/2024	ND
Organotin compounds	From 21/03/2024 to 27/03/2024	ND
Other/Miscellaneous Chemicals (^)	From 21/03/2024 to 27/03/2024	ND
Perfluorinated & Polyfluorinated chemicals (PFCs)	From 21/03/2024 to 27/03/2024	ND
Phthalates (Ortho-phthalates)	From 21/03/2024 to 27/03/2024	ND
Polycyclic aromatic hydrocarbons (PAHs)	From 21/03/2024 to 27/03/2024	ND
Restricted Aromatic Amines (Cleavable from Azo- colourants)	From 21/03/2024 to 27/03/2024	ND
UV Absorbers	From 21/03/2024 to 27/03/2024	ND
Volatile Organic Compounds (VOC)	From 21/03/2024 to 27/03/2024	ND

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Wastewater / Heavy metals - Test items	Testing period	Effluent		
		Foundational	Progressive	Aspirational
Antimony	N/A			N/A
Chromium (VI)	From 21/03/2024 to 27/03/2024			Meet
Barium	N/A			N/A
Selenium	N/A			N/A
Tin	N/A			N/A
Arsenic	From 21/03/2024 to 27/03/2024			Meet
Chromium (total)	N/A			N/A
Cobalt	N/A			N/A
Cadmium	From 21/03/2024 to 27/03/2024			Meet
Copper	N/A			N/A
Lead	From 21/03/2024 to 27/03/2024			Meet
Nickel	N/A			N/A
Silver	N/A			N/A
Zinc	N/A			N/A
Mercury	From 21/03/2024 to 27/03/2024			Meet



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Wastewater / Conventional parameters - Test items	Testing period	Effluent		
		Foundational	Progressive	Aspirational
pH ^[f]	N/A	N/A		
Temperature difference ^[f]	N/A			N/A
E.coli	N/A	N/A		
Colour	N/A			
Persistent foam ^[f]	N/A	N/A		
Wastewater flowrate ^[f]	N/A	N/A		
Ammonium-Nitrogen	N/A			
AOX	N/A			
Biochemical Oxygen Demand (BOD ₅)	N/A			
Chemical Oxygen Demand (COD)	N/A			
Dissolved Oxygen (DO) ^[f]	N/A	N/A		
Oil & Grease	N/A			
Total Phenols / Phenol Index	N/A			
Total Chlorine ^[f]	N/A	N/A		
Total Dissolved Solids (TDS)	N/A	N/A		
Total Nitrogen	N/A			
Total Phosphorus	N/A			
Total Suspended Solids (TSS)	N/A			

Wastewater / Anions - Test items	Testing period	Effluent		
		Foundational	Progressive	Aspirational
Chloride	N/A	N/A		
Cyanide, total	N/A			N/A
Sulfate	N/A	N/A		
Sulfide	N/A			
Sulfite	N/A			



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Sludge – Disposal Pathways
N/A

Sludge / Heavy metals - Test items	Testing period	Sludge (Total)	Sludge (Leachate)
Antimony	N/A	N/A	
Arsenic	N/A	N/A	
Barium	N/A	N/A	
Cadmium	N/A	N/A	
Cobalt	N/A	N/A	
Copper	N/A	N/A	
Lead	N/A	N/A	
Nickel	N/A	N/A	
Selenium	N/A	N/A	
Silver	N/A	N/A	
Chromium (total)	N/A	N/A	
Zinc	N/A	N/A	
Chromium VI	N/A	N/A	
Mercury	N/A	N/A	

Sludge / Anion - Test items	Testing period	Sludge
Cyanide	N/A	N/A

Sludge / Conventional parameters - Test items	Testing period	Sludge
pH	N/A	N/A
% Solids	N/A	N/A
Paint filter test	N/A	N/A
Faecal coliform	N/A	N/A



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Sludge / MRSL - Test items	Testing period	Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	N/A	N/A
Polycyclic Aromatic Hydrocarbons (PAHs)	N/A	N/A
Chlorotoluenes	N/A	N/A

Remark:
ND = Not detected (less than lab reporting limit)
D = Detected
N/A = Not applicable (Out of scope according to ZDHC WWSG v2.1)
NT = Not tested (Did not test according to applicant's request)
^(S) = The samples were subcontracted to Intertek [xxxxx] for testing.
^(T) = If sample temperature is greater than 8°C and less than 10°C when received from the laboratory.
^(TT) = If sample temperature is exceeded 10°C when received from the laboratory.
@ = Maximum holding time exceeded.
(*) = Sample and report for mock leather.
(^) = Borate, zinc salt would report ND when total boron or total zinc less than 100 µg/L.
^[f] = On-site test by sampler.
^[a] = The local legal standard name and legal standard no. is referenced to discharge permit (or contractual agree by CETP) that provided by applicant.
This report shown the test result of the environment samples of above factory which collected on specific date and time. The results of this report shall not be used for any regulatory compliance purposes.

For and on behalf of
Intertek Testing Services TURKEY Limited

Prepared and Checked By:



Eralp Anil
Environmental Engineer
For Intertek Testing Services Turkey

Authorized By:



Kerem Can
Consumer Products Operational
Excellence Director
For Intertek Testing Services Turkey



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Sample / Wastewater

1. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers

APs&APEOs (n=1,2): modified from ISO 18857-1, ISO 18857-2, ASTM D7065) (GC-MS analysis)

APs&APEOs (n>2): modified from ISO 18254-1) (LC-MS-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Reporting limit (µg/L)	Untreated wastewater	Unit
Nonylphenol ethoxylates (NPEO)	9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	5	5	ND	µg/L
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	5	5	ND	µg/L
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	5	5	ND	µg/L
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	5	5	ND	µg/L

2. Anti- Microbials & Biocides

Modified from EPA 3510C, EPA 8270E (GC-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
o-Phenylphenol (+salts)	90-43-7	100	100	ND	µg/L
Triclosan	3380-34-5	100	100	ND	µg/L
Permethrin	Multiple	500	500	ND	µg/L



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3. Chlorinated Parafins

Modified from EPA 3510C, ISO 1201 (GC-ECNI-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	500	500	ND	µg/L
Short-chain Chlorinated paraffin (C10 – C13)	85535-84-8	25	25	ND	µg/L

4. Chlorobenzenes and Chlorotoluenes

Modified from EPA 3510C, EPA 8260D, EPA 8270E (GC-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
1,2-Dichlorobenzene	95-50-1	0.2	0.2	ND	µg/L
Other isomers of mono-, di-, tri-, tetra-, penta- and hexa-Chlorobenzene and mono-, di-, tri-, tetra- and penta-chlorotoluene	Multiple	0.2	0.2	ND	µg/L

5. Chlorophenols

Modified from EPA 3510C, EPA 8270E (GC-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
2-Chlorophenol	95-57-8	0.5	0.5	ND	µg/L
3-Chlorophenol	108-43-0	0.5	0.5	ND	µg/L
4-Chlorophenol	106-48-9	0.5	0.5	ND	µg/L
2,3-Dichlorophenol	576-24-9	0.5	0.5	ND	µg/L
2,4-Dichlorophenol	120-83-2	0.5	0.5	ND	µg/L
2,5-Dichlorophenol	583-78-8	0.5	0.5	ND	µg/L
2,6-Dichlorophenol	87-65-0	0.5	0.5	ND	µg/L
3,4-Dichlorophenol	95-77-2	0.5	0.5	ND	µg/L
3,5- Dichlorophenol	591-35-5	0.5	0.5	ND	µg/L
2,3,4-Trichlorophenol	15950-66-0	0.5	0.5	ND	µg/L
2,3,5-Trichlorophenol	933-78-8	0.5	0.5	ND	µg/L



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2,3,6-Trichlorophenol	933-75-5	0.5	0.5	ND	µg/L
2,4,5-Trichlorophenol	95-95-4	0.5	0.5	ND	µg/L
2,4,6-Trichlorophenol	88-06-2	0.5	0.5	ND	µg/L
3,4,5-Trichlorophenol	609-19-8	0.5	0.5	ND	µg/L
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	0.5	ND	µg/L
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	0.5	ND	µg/L
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	0.5	ND	µg/L
Pentachlorophenol (PCP)	87-86-5	0.5	0.5	ND	µg/L

6. Dimethyl Formamide (DMFa)

Modified from DIN 54439 (GC-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
Dimethyl formamide; N,N-dimethylformamide (DMFa) (*)	68-12-2	1000	1000	ND	µg/L

(*) = Sample and report for mock leather.

7. Dyes – Carcinogenic or Equivalent Concern

Modified from DIN 54231 (LC-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
Basic violet 3 with >0.1% of Michler's Ketone	548-62-9	500	500	ND	µg/L
C.I. Acid Red 26	3761-53-3	500	500	ND	µg/L
C.I. Acid Violet 49	1694-09-3	500	500	ND	µg/L
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	500	500	ND	µg/L
C.I. Basic Green 4 (malachite green chloride)	569-64-2	500	500	ND	µg/L
C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	500	500	ND	µg/L
C.I. Basic Green 4 (malachite green)	10309-95-2	500	500	ND	µg/L
C.I. Basic Red 9	569-61-9	500	500	ND	µg/L
C.I. Basic Violet 14	632-99-5	500	500	ND	µg/L
C.I. Direct Black 38	1937-37-7	500	500	ND	µg/L
C.I. Direct Blue 6	2602-46-2	500	500	ND	µg/L
C.I. Direct Red 28	573-58-0	500	500	ND	µg/L
C.I. Disperse Blue 1	2475-45-8	500	500	ND	µg/L
C.I. Disperse Blue 3	2475-46-9	500	500	ND	µg/L
Disperse Orange 11	82-28-0	500	500	ND	µg/L

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8. Dyes – Disperse (Allergenic)

Modified from DIN 54231 (LC-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
Disperse Blue 102	12222-97-8	50	50	ND	µg/L
Disperse Blue 106	12223-01-7	50	50	ND	µg/L
Disperse Blue 124	61951-51-7	50	50	ND	µg/L
Disperse Blue 26	3860-63-7	50	50	ND	µg/L
Disperse Blue 35	12222-75-2 56524-77-7	50	50	ND	µg/L
Disperse Blue 7	3179-90-6	50	50	ND	µg/L
Disperse Brown 1	23355-64-8	50	50	ND	µg/L
Disperse Orange 1	2581-69-3	50	50	ND	µg/L
Disperse Orange 3	730-40-5	50	50	ND	µg/L
Disperse Orange 37/59/76	13301-61-6	50	50	ND	µg/L
Disperse Red 1	2872-52-8	50	50	ND	µg/L
Disperse Red 11	2872-48-2	50	50	ND	µg/L
Disperse Red 17	3179-89-3	50	50	ND	µg/L
Disperse Yellow 1	119-15-3	50	50	ND	µg/L
Disperse Yellow 3	2832-40-8	50	50	ND	µg/L
Disperse Yellow 39	12236-29-2	50	50	ND	µg/L
Disperse Yellow 49	54824-37-2	50	50	ND	µg/L
Disperse Yellow 9	6373-73-5	50	50	ND	µg/L

9. Dyes – Navy Blue Colourant

Modified from DIN 54231 (LC-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
Component 1: C ₃₉ H ₂₃ Cl-CrN ₇ O ₁₂ S ₂ 2Na	118685-33-9	500	500	ND	µg/L
Component 2: C ₄₆ H-30CrN ₁₀ O ₂₀ S ₂ 3Na	Not Allocated	500	500	ND	µg/L



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10. Flame retardants

Brominated substances: Modified from EPA 3510C, EPA 527, ISO 22032 (GC-MS and ICP-MS analysis)

Brominated/Phosphorus substances: Modified from EPA 3510C, EPA 8321B (LC-MS-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	25	ND	µg/L
Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9	25	25	ND	µg/L
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	25	ND	µg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	25	25	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	25	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	25	ND	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	25	25	ND	µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	25	25	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	25	ND	µg/L
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	25	25	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	25	ND	µg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	25	ND	µg/L
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25	25	ND	µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	25	25	ND	µg/L
Dibromobiphenyls (DiBB)	Multiple	25	25	ND	µg/L
Octabromobiphenyls (OctaBB)	Multiple	25	25	ND	µg/L
Dibromopropylether	21850-44-2	25	25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	25	ND	µg/L
Monobromobiphenyls (MonoBB)	Multiple	25	25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Multiple	25	25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Multiple	25	25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Multiple	25	25	ND	µg/L
Boric acid **	10043-35-3 11113-50-1	100 in Boron	100 in Boron	ND	µg/L



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Diboron trioxide **	1303-86-2	100 in Boron	100 in Boron	ND	µg/L
Disodium octaborate **	12008-41-2	100 in Boron	100 in Boron	ND	µg/L
Disodium tetraborate anhydrous**	1303-96-4 1330-43-4	100 in Boron	100 in Boron	ND	µg/L
Tetraboron disodium heptaoxide, hydrate **	12267-73-1	100 in Boron	100 in Boron	ND	µg/L

** Report total Boron directly, no conversion from Boron salt.

11. Glycols / Glycol Ethers

Modified from EPA 3510C (GC-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
2-ethoxyethanol	110-80-5	50	50	ND	µg/L
2-ethoxyethyl acetate	111-15-9	50	50	ND	µg/L
2-methoxyethanol	109-86-4	50	50	ND	µg/L
2-methoxyethylacetate	110-49-6	50	50	ND	µg/L
2-methoxypropylacetate	70657-70-4	50	50	ND	µg/L
Bis(2-methoxyethyl)-ether	111-96-6	50	50	ND	µg/L
Ethylene glycol dimethyl ether	110-71-4	50	50	ND	µg/L
Triethylene glycol dimethyl ether	112-49-2	50	50	ND	µg/L

12. Halogenated solvents

Modified from EPA 8260D, EPA 5021A (GC-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
1,2-Dichloroethane	107-06-2	1	1	ND	µg/L
Methylene chloride	75-09-2	1	1	ND	µg/L
Tetrachloroethylene	127-18-4	1	1	ND	µg/L
Trichloroethylene	79-01-6	1	1	ND	µg/L



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13. Organotin compounds

Modified from EPA 3510C, ISO 17353 (GC-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
Dipropyltin compounds (DPT)	Multiple	0.01	0.01	ND	µg/L
Mono-, di- and tri-butyltin derivatives	Multiple	0.01	0.01	ND	µg/L
Mono, di-, and tri-methyltin derivatives	Multiple	0.01	0.01	ND	µg/L
Mono, di-, and tri-octyltin derivatives	Multiple	0.01	0.01	ND	µg/L
Mono, di-, and tri-phenyltin derivatives	Multiple	0.01	0.01	ND	µg/L
Tetraethyltin compounds (TeBT)	Multiple	0.01	0.01	ND	µg/L
Tripropyltin Compounds (TPT)	Multiple	0.01	0.01	ND	µg/L
Tetraoctyltin compounds (TeOT)	Multiple	0.01	0.01	ND	µg/L
Tricyclohexyltin (TCyHT)	Multiple	0.01	0.01	ND	µg/L
Tetraethyltin Compounds (TeET)	Multiple	0.01	0.01	ND	µg/L

14. Other/Miscellaneous Chemicals

Others: Micro filtration method (LC-MS-MS analysis)

AEAA: Liquid-liquid extraction (LC-MS-MS analysis)

Quinoline: Modified from DIN 54231 (LC-MS-MS analysis)

Borate salt: Modified from EPA 3015A ve EPA 6020B (ICP-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
AEAA [2-(2-aminoethylamino)ethanol]	111-41-1	500	500	ND	µg/L
Bisphenol A	80-05-7	10	10	ND	µg/L
Thiourea	62-56-6	50	50	ND	µg/L
Quinoline	91-22-5	50	50	ND	µg/L
Borate, zinc salt ^^	12767-90-7	100 in Boron & 100 in Zinc	100 in Boron & 100 in Zinc	Boron: ND Zinc: ND	µg/L

(^^) = Report total boron & total zinc individually, and no conversion from boron / zinc salt.



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15. Perfluorinated & polyfluorinated chemicals (PFCs)

PFCs: Modified from DIN 38407-42, CEN/TS 15968 (LC-MS-MS analysis)

FTOH: Modified from EPA 3510C, CEN/TS 15968, Journal of Chromatography A, 1178 (2008) 199-205 (GC-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA)	Multiple	0.01	0.01	ND	µg/L
Perfluorooctanoic acid (PFOA) related Substances	Multiple	1	1	ND	µg/L

16. Phthalates – including all other esters of ortho-phthalic acid

Modified from EPA 3510C, EPA 8270E, ISO 18856, ISO 14389 (GC-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
1,2-benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich (DIHP)	71888-89-6	10	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters (DHNUP)	68515-42-4	10	10	ND	µg/L
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	10	10	ND	µg/L
Butyl benzyl phthalate (BBP)	85-68-7	10	10	ND	µg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	10	ND	µg/L
Di-iso-decyl phthalate (DIDP)	26761-40-0	10	10	ND	µg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	10	ND	µg/L
Di-isobutyl phthalate (DIBP)	84-69-5	10	10	ND	µg/L
Di-isononyl phthalate (DINP)	28553-12-0	10	10	ND	µg/L
Di-n-hexyl phthalate (DnHP)	84-75-3	10	10	ND	µg/L
Di-n-octyl phthalate (DNOP)	117-84-0	10	10	ND	µg/L
Di-n-pentylphthalates	131-18-0	10	10	ND	µg/L
Di-n-propyl phthalate (DPRP)	131-16-8	10	10	ND	µg/L
Di(ethylhexyl) phthalate (DEHP)	117-81-7	10	10	ND	µg/L
Dibutyl phthalate (DBP)	84-74-2	10	10	ND	µg/L
Diethyl phthalate (DEP)	84-66-2	10	10	ND	µg/L
Diisopentylphthalates	605-50-5	10	10	ND	µg/L
Dinonyl phthalate (DNP)	84-76-4	10	10	ND	µg/L

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17. Polycyclic aromatic hydrocarbons (PAHs)

Modified from EPA 3510C, EPA 8270E, DIN 38407-39 (GC-MS analysis).

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
Acenaphthene	83-32-9	1	1	ND	µg/L
Acenaphthylene	208-96-8	1	1	ND	µg/L
Anthracene	120-12-7	1	1	ND	µg/L
Benzo[a]anthracene	56-55-3	1	1	ND	µg/L
Benzo[a]pyrene (BaP)	50-32-8	1	1	ND	µg/L
Benzo[b]fluoranthene	205-99-2	1	1	ND	µg/L
Benzo[e]pyrene	192-97-2	1	1	ND	µg/L
Benzo[ghi]perylene	191-24-2	1	1	ND	µg/L
Benzo[j]fluoranthene	205-82-3	1	1	ND	µg/L
Benzo[k]fluoranthene	207-08-9	1	1	ND	µg/L
Chrysene	218-01-9	1	1	ND	µg/L
Dibenz[a,h]anthracene	53-70-3	1	1	ND	µg/L
Fluoranthene	206-44-0	1	1	ND	µg/L
Fluorene	86-73-7	1	1	ND	µg/L
Indeno[1,2,3-cd]pyrene	193-39-5	1	1	ND	µg/L
Naphthalene	91-20-3	1	1	ND	µg/L
Phenanthrene	85-01-8	1	1	ND	µg/L
Pyrene	129-00-0	1	1	ND	µg/L

18. Restricted Aromatic Amines (Cleavable from Azo-colourants)

Modified from EPA 3510C, ISO 14362-1 (GC-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
2-Naphthylamine	91-59-8	0.1	0.1	ND	µg/L
2-Naphthylammoniumacetate	553-00-4	0.1	0.1	ND	µg/L
2,4-Xylidine	95-68-1	0.1	0.1	ND	µg/L
2,4,5-Trimethylaniline	137-17-7	0.1	0.1	ND	µg/L
2,4,5-Trimethylaniline hydrochloride	21436-97-5	0.1	0.1	ND	µg/L
2,6-Xylidine	87-62-7	0.1	0.1	ND	µg/L
3,3'-Dichlorobenzidine	91-94-1	0.1	0.1	ND	µg/L
3,3'-Dimethoxybenzidine	119-90-4	0.1	0.1	ND	µg/L
3,3'-Dimethylbenzidine	119-93-7	0.1	0.1	ND	µg/L



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4-Aminoazobenzene	60-09-3	0.1	0.1	ND	µg/L
4-Aminodiphenyl	92-67-1	0.1	0.1	ND	µg/L
4-Chloro-o-toluidine	95-69-2	0.1	0.1	ND	µg/L
4-Chloro-o-toluidinium chloride	3165-93-3	0.1	0.1	ND	µg/L
4-Chloroaniline	106-47-8	0.1	0.1	ND	µg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	0.1	0.1	ND	µg/L
4-methoxy-m-phenylenediamine	615-05-4	0.1	0.1	ND	µg/L
4-methyl-m-phenylenediamine	95-80-7	0.1	0.1	ND	µg/L
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1	0.1	ND	µg/L
4,4'-methylenedi-o-toluidine	838-88-0	0.1	0.1	ND	µg/L
4,4'-methylenedianiline	101-77-9	0.1	0.1	ND	µg/L
4,4'-Oxydianiline	101-80-4	0.1	0.1	ND	µg/L
4,4'-Thiodianiline	139-65-1	0.1	0.1	ND	µg/L
5-Nitro-o-toluidine	99-55-8	0.1	0.1	ND	µg/L
6-methoxy-m-toluidine	120-71-8	0.1	0.1	ND	µg/L
Benzidine	92-87-5	0.1	0.1	ND	µg/L
o-Aminoazotoluene	97-56-3	0.1	0.1	ND	µg/L
o-Anisidine	90-04-0	0.1	0.1	ND	µg/L
o-Toluidine	95-53-4	0.1	0.1	ND	µg/L

19. UV Absorbers

Liquid-Liquid extraction (GC-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	100	100	ND	µg/L
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	100	100	ND	µg/L
2-benzotriazol-2-yl-4,6-di-tertbutylphenol (UV-320)	3846-71-7	100	100	ND	µg/L
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	100	100	ND	µg/L

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20. Volatile organic compounds (VOCs)

Modified from EPA 8260D, EPA 5021A (GC-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Lab reporting limit (µg/L)	Untreated wastewater	Unit
Benzene	71-43-2	1	1	ND	µg/L
m-cresol	108-39-4	1	1	ND	µg/L
o-cresol	95-48-7	1	1	ND	µg/L
p-cresol	106-44-5	1	1	ND	µg/L
Xylene	1330-20-7	1	1	ND	µg/L
Toluene (*)	108-88-3	1	1	ND	µg/L

(*) = Sample and report for mock leather.

21. Heavy metals

Others; Modified from EPA 3015A, EPA 6020B (ICP-MS analysis)

Chromium (VI); ISO 18412 (UV/VIS analysis)

Chemical substances	Limit			Legal* Requirement	Lab Reporting limit	Effluent	Unit
	Foundational	Progressive	Aspirational				
Antimony	0.1 mg/L	0.05 mg/L	0.01 mg/L	N/A	0.01	N/A	mg/L
Chromium (VI)	0.05 mg/L	0.005 mg/L	0.001 mg/L	N/A	0.001	ND	mg/L
Barium	Sample and report only			N/A	0.01	N/A	mg/L
Selenium	Sample and report only			N/A	0.01	N/A	mg/L
Tin	Sample and report only			N/A	0.01	N/A	mg/L
Arsenic	0.05 mg/L	0.01 mg/L	0.005 mg/L	N/A	0.005	ND	mg/L
Chromium (total)	0.2 mg/L	0.1 mg/L	0.05 mg/L	N/A	0.05	N/A	mg/L
Cobalt	0.05 mg/L	0.02 mg/L	0.01 mg/L	N/A	0.01	N/A	mg/L
Cadmium	0.1 mg/L	0.05 mg/L	0.01 mg/L	N/A	0.01	ND	mg/L
Copper	1 mg/L	0.5 mg/L	0.25 mg/L	N/A	0.25	N/A	mg/L
Lead	0.1 mg/L	0.05 mg/L	0.01 mg/L	N/A	0.01	ND	mg/L
Nickel	0.2 mg/L	0.1 mg/L	0.05 mg/L	N/A	0.05	N/A	mg/L
Silver	0.1 mg/L	0.05 mg/L	0.005 mg/L	N/A	0.005	N/A	mg/L
Zinc	5.0 mg/L	1.0 mg/L	0.5 mg/L	N/A	0.5	N/A	mg/L
Mercury	0.01 mg/L	0.005 mg/L	0.001 mg/L	N/A	0.001	ND	mg/L



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22. Conventional parameters

Parameters	Test method	Limit			Legal* Requirement	Lab Reporting limit	Effluent	Unit
		Foundational	Progressive	Aspirational				
pH	SM 4500-H+	6-9			N/A	N/A	N/A	[f]
Temperature difference	SM 2550 B	△+15	△+10	△+5	N/A	N/A	N/A	[f] °C
E.coli ^(S)	ISO 9308-1	126			N/A	126	N/A	MPN/100ml
Colour (436 nm ; 525 nm ; 620nm)	ISO 7887-B	7;5;3	5;3;2	2;1;1	N/A	N/A	N/A	[m-1]
Persistent Foam	/	No indication of Persistent foam in receiving water			N/A	N/A	Absent	[f]
Wastewater Flowrate	/	N/A			N/A	N/A	N/A	[f] m ³ /day
Ammonium-Nitrogen	SM 4500 NH3 F	10	1	0.5	N/A	0.5	N/A	mg/L
AOX	ISO 9562	3	0.5	0.1	N/A	0.1	N/A	mg/L
Biochemical Oxygen Demand (BOD ₅)	SM 5210-B	30	15	8	N/A	8	N/A	mg/L
Chemical Oxygen Demand (COD)	SM 5220-D	150	80	40	N/A	40	N/A	mg/L
Dissolved Oxygen (DO)	SM 4500-O-G	Sample and report only			N/A	N/A	N/A	[f] mg/L
Oil and grease	USEPA 1664	10	2	0.5	N/A	0.5	N/A	mg/L
Total Phenols / Phenol Index	SM 5530-B&C	0.5	0.01	0.001	N/A	0.001	N/A	mg/L
Total Chlorine	ISO 7393-2	Sample and report only			N/A	0.2	N/A	[f] mg/L
Total Dissolved Solids (TDS)	SM 2540-C	Sample and report only			N/A	10	N/A	mg/L
Total-Nitrogen	IS 3025 (Sum of SM4500-Norg B, SM4500-NO2-B, SM4500-NO3- E)	20	10	5	N/A	5	N/A	mg/L
Total-Phosphorus	EPA 3015 A & ISO 11885	3	0.5	0.1	N/A	0.1	N/A	mg/L



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Total Suspended Solids (TSS)	SM 2540D	50	15	5	N/A	5	N/A	mg/L
Chloride	SM 4500-Cl C	Sample and report only			N/A	10	N/A	mg/L
Cyanide, total	SM 4500-CN-C&E	0.2	0.1	0.05	N/A	0.05	N/A	mg/L
Sulfate	SM 4500 SO4 E	Sample and report only			N/A	10	N/A	mg/L
Sulfide	SM 4500-S2-D	0.5	0.05	0.01	N/A	0.01	N/A	mg/L
Sulfite	SM 4500 SO32 C	2	0.5	0.2	N/A	0.2	N/A	mg/L

Remark:

ND = Not detected (less than reporting limit)

△ is the degree above ambient temperature of receiving water body.

@ = Maximum holding time exceeded.

^[f] = On-site test by sampler.

^[s] = The samples were subcontracted to Intertek [Intertek Turkey Food Laboratory] for testing.



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Sample / Sludge

Sludge flux (weight/time) and / or flow data volume/time: N/A

1. Heavy metals

Others: Modified from EPA 3051A, ISO 17294-2, EPA 6020B (ICP-MS analysis)

Chromium VI: Modified from ISO 18412, TS EN ISO 18412 (UV/VIS analysis)

Chemical substances	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Antimony	5	5	N/A	mg/kg
Arsenic	5	5	N/A	mg/kg
Barium	200	200	N/A	mg/kg
Cadmium	1	1	N/A	mg/kg
Cobalt	400	400	N/A	mg/kg
Copper	50	50	N/A	mg/kg
Lead	5	5	N/A	mg/kg
Nickel	20	20	N/A	mg/kg
Selenium	5	5	N/A	mg/kg
Silver	50	50	N/A	mg/kg
Total Chromium	50	50	N/A	mg/kg
Zinc	400	400	N/A	mg/kg
Chromium (VI)	20	20	N/A	mg/kg
Mercury	1	1	N/A	mg/kg

2. Anions

USEPA 9013 A, USEPA 9014 (UV/VIS analysis)

Chemical substances	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Cyanide	20	20	N/A	mg/kg



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3. Conventional parameters

Chemical substances	Test method	Lab reporting limit (Dry weight)	Sludge (Dry weight)	Unit
pH	USEPA SW 9045D	N/A	N/A	N/A
% Solids	USEPA 160.3	N/A	N/A	%
Paint Filter Test ^	USEPA 9095B	N/A	N/A	N/A
Fecal Coliform ^(S)	TS EN ISO 7899-2	10 MPN/g	N/A	MPN/g

^ - Report "Pass" when Paint Filter Test does not contain free liquid; Report "Fail" when Paint Filter Test does contain free liquid.

^(S) = The samples were subcontracted to Intertek [Intertek Turkey Food Laboratory] for testing.

4. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers

APs/APEOs (n=1,2): Modified from EPA 3540C, ISO 18857-2 (GC-MS analysis)

APs/APEOs (n>2): Modified from EPA 3550C, ISO 18254-1 (LC-MS-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Nonylphenol ethoxylates (NPEO)	9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	0.4	0.4	N/A	mg/kg
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	0.4	0.4	N/A	mg/kg
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	0.4	0.4	N/A	mg/kg
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	0.4	0.4	N/A	mg/kg

5. Polycyclic aromatic hydrocarbons (PAHs)



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Modified from EPA 3540C, EPA 8270E, DIN 38407-39 (GC-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Acenaphthene	83-32-9	0.2	0.2	N/A	mg/kg
Acenaphthylene	208-96-8	0.2	0.2	N/A	mg/kg
Anthracene	120-12-7	0.2	0.2	N/A	mg/kg
Benzo[a]anthracene	56-55-3	0.2	0.2	N/A	mg/kg
Benzo[a]pyrene (BaP)	50-32-8	0.2	0.2	N/A	mg/kg
Benzo[b]fluoranthene	205-99-2	0.2	0.2	N/A	mg/kg
Benzo[e]pyrene	192-97-2	0.2	0.2	N/A	mg/kg
Benzo[ghi]perylene	191-24-2	0.2	0.2	N/A	mg/kg
Benzo[j]fluoranthene	205-82-3	0.2	0.2	N/A	mg/kg
Benzo[k]fluoranthene	207-08-9	0.2	0.2	N/A	mg/kg
Chrysene	218-01-9	0.2	0.2	N/A	mg/kg
Dibenz[a,h]anthracene	53-70-3	0.2	0.2	N/A	mg/kg
Fluoranthene	206-44-0	0.2	0.2	N/A	mg/kg
Fluorene	86-73-7	0.2	0.2	N/A	mg/kg
Indeno[1,2,3-cd] pyrene	193-39-5	0.2	0.2	N/A	mg/kg
Naphthalene	91-20-3	0.2	0.2	N/A	mg/kg
Phenanthrene	85-01-8	0.2	0.2	N/A	mg/kg
Pyrene	129-00-0	0.2	0.2	N/A	mg/kg

6. Chlorotoluenes

Modified from EPA 3510C, EPA 8260D, EPA 8270E (GC-MS analysis)

Chemical substances	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Other isomers of mono-, di-, tri-, tetra- and penta- chlorotoluene	Multiple	0.2	0.2	N/A	mg/kg



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7. Leachate heavy metals

Others: EPA 1311, ISO 17294-2(ICP-MS analysis)

Chromium VI: EPA 1311, ISO 18412 (UV/VIS analysis)

Chemical substances	Lab. Reporting limit (mg/L)	Sludge	Unit
Arsenic	0.1	N/A	mg/L
Cadmium	0.03	N/A	mg/L
Total Chromium	1	N/A	mg/L
Lead	0.1	N/A	mg/L
Antimony	0.12	N/A	mg/L
Barium	7	N/A	mg/L
Cobalt	16	N/A	mg/L
Copper	2	N/A	mg/L
Nickel	0.7	N/A	mg/L
Selenium	0.1	N/A	mg/L
Silver	1	N/A	mg/L
Zinc	10	N/A	mg/L
Chromium (VI)	0.5	N/A	mg/L
Mercury	0.01	N/A	mg/L



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Appendix 1: reference to ZDHC WWSG v2.1 Table 4B

Parameters	Total metals and anions threshold values (mg/kg)	Disposal pathways						
		A and B (Leachate result in mg/L)	C (Leachate result in mg/L)	D (Leachate result in mg/L)	E (Leachate result in mg/L)	F (Leachate result in mg/L)	G (Leachate result in mg/L)	G (Total metals limit in mg/kg)
Arsenic	10	Report only if required to test	5	2.75	0.5	0.5	0.5	75
Cadmium	3		1	0.58	0.15	0.15	0.15	85
Total Chromium	100		15	10	5	5	5	3000
Lead	10		5	2.75	0.5	0.5	0.5	840
Antimony	12		15	7.8	0.6	0.6	0.6	Sample and report only
Barium	700		100	67.5	35	35	35	
Cobalt	1600		80	80	80	80	80	Sample and report only
Copper	200		25	17.5	10	10	10	
Nickel	70		20	11.75	3.5	3.5	3.5	420
Selenium	10		1	0.75	0.5	0.5	0.5	100
Silver	100		5	5	5	5	5	Sample and report only
Zinc	1000		250	150	50	50	50	
Chromium VI	50		5	3.75	2.5	2.5	2.5	50
Mercury	1		0.2	0.125	0.05	0.05	0.05	57



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Appendix 2: reference to ZDHC WWSG v2.1 Table 4C

Parameters	Disposal pathways							
	A and B	C	D	E	F	G		
pH	Sample and report only	5 – 11 s.u.	5 – 11 s.u.	5 – 11 s.u.	6.5 – 9 s.u.	6.5 – 9 s.u.		
% Solids		Sample and report only	Sample and report only	Sample and report only	Sample and report only	Sample and report only	Sample and report only	
Fecal Coliform				< 1000 (MPN/g)				
Paint Filter Test				Pass Paint filter test				Sample and report only
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers				< 0.4 mg/kg				
Polycyclic Aromatic Hydrocarbons (PAHs)				< 0.2 mg/kg				
Chlorotoluenes				< 0.2 mg/kg				

Appendix 2: reference to ZDHC WWSG v2.1 Table 4D

Parameters	Disposal pathways					
	A and B	C	D	E	F	G
Cyanide	Report only if required to test	100 mg/kg	85 mg/kg	70 mg/kg	70 mg/kg	70 mg/kg



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Photo of sampling points:

Incoming water -	Untreated wastewater -
X	X
Effluent -	Sludge -
X	X



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Photo of samples:

<p>Incoming water -</p>	<p>Untreated wastewater 21/03/2024 & 08:00</p>
<p>X</p>	
<p>Effluent 21/03/2024 & 08:00</p>	<p>Sludge 21/03/2024 & 08:00</p>
	<p>X</p>



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End of report

This report is made solely on the basis of instructions and/or information and materials supplied by you (the Client), It is not intended to be a recommendation for any specific course of action. Intertek shall not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as that which is expressly contained in the terms and conditions governing the provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent, truthful, and careful basis and we do not accept any liability to you for any direct or in-direct loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or willful misconduct.

