

Number: ATB – ACABAMENTOS TEXTEIS DE BARCELOS LDA

Date of sampling	23/05/2024
Reporting Date	29/05/2024

Audit ID	171956	Audit firm	INTERTEK PORTUGAL
Company name	ATB – ACABAMENTOS TEXTEIS DE BARCELOS LDA		
Contact person	SOFIA VILAS BOAS		
Type of tax - tax ID no	NIF - 501638733		
Address	RUA AFONSO NUNES DE MARIZ, 1 APARTADO 347		
Region state province	MARIZ		
Town city / village	BARCELOS		
Zip/Post code	4750-571		
Country	PORTUGAL		

Type of wastewater discharge				
Type of wastewater discharge:	Indirect discharge			
On-site effluent treatment plant (ETP):	NO			
Pre - treatment:	YES			
	Preliminary	Primary	Secondary/Biological	Tertiary
	<input type="checkbox"/> Screening/ Sieving/Grit Remover <input checked="" type="checkbox"/> Homogenization tank <input type="checkbox"/> pH correction <input type="checkbox"/> Other <input type="checkbox"/> None	<input type="checkbox"/> Coagulation/Flocculation <input type="checkbox"/> Dissolved air flotation (DAF) <input type="checkbox"/> Sedimentation tanks or Settler/Clarifier <input type="checkbox"/> Other	<input type="checkbox"/> Activated sludge process Aerobic reactor <input type="checkbox"/> Biological Biofilm reactor (MBBR, SAF, RBC...) <input type="checkbox"/> BSequencing batch reactor (SBR) <input type="checkbox"/> Other	<input type="checkbox"/> Absorption with activated carbon <input type="checkbox"/> High rate filtration <input type="checkbox"/> Advanced oxidation techniques (Ozone, Fenton reaction, photo catalytic degradation...) <input type="checkbox"/> Other
	Description of discharge:			
	There are pre-treatment to separate solids. The raw wastewater goes to an Equalization Tank, then wastewater goes to external ETP. AGUAS DE BARCELOS			
[If direct discharge] ambient temperature of receiving water body (°C):	N/A			
Average total industrial wastewater generated (m3/day):	~1000m ³ /DAY			

Sludge Disposal Pathway	N/A
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Sampler accreditation certification number (ZDHC):		ZDHC-23-E-C001068-R2CFA-14458		
Sample description	Simple	Composite	Comments	
(1) Untreated wastewater (BT)	[Colour gray, grab sample at 09:50] [Sampling location: Latitude 41°31'24"N, Longitude 8°39'12"W]	N/A	8,71ph 10.21 ms 33,7°	
(2) Effluent (AT)	N/A	N/A	N/A	

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(3) Sludge	N/A	N/A	N/A
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Local Legal Data	
Local Legal Standard name [a]	AGUAS DE BARCELOS
Local legal standard no. [a]:	N/A
Parameters (ZDHC WWSG V2.1, Table 2-3) exceeded local regulation:	No exceeded
Discharge permit provided:	Yes

Internal description – Intertek Lab Issuing Final Test Report	
Sampling laboratory	INTERTEK PORTUGAL
Testing laboratory	INTERTEK IBÉRICA SPAIN S.L.U.
Date received sample	24/05/2024
Date and time of the beginning of sampling	23/05/2024; 09:50
Date and time of the end of sampling	23/05/2024; 10:00
Testing period	24/05/2024 to 29/05/2024
Reporting date	29/05/2024
Arrival Temperature at Lab	5.8°C
Internal codification number	LA-240981
Reference sample number	ATB – ACABAMENTOS TEXTEIS DE BARCELOS LDA
Comments	Sample received in good conditions within 24hrs after collection (overnight delivery).

Summary of test results		
Wastewater/ MRSL - Test items	Testing period	Sample 1 (Before treatment)
Alkylphenols (APs) & Alkylphenol ethoxylates (APEOs)	From 24/05/2024 to 27/05/2024	ND
Anti - Microbials & Biocides	From 27/05/2024 to 28/05/2024	ND
Chlorinated parafins	From 27/05/2024 to 29/05/2024	ND
Chlorobenzenes and Chlorotoluenes	From 24/05/2024 to 27/05/2024	ND
Chlorophenols	From 27/05/2024 to 29/05/2024	ND
Dimethyl Formamide (DMFa) (*)	From 27/05/2024 to 29/05/2024	ND
Dyes – Carcinogenic or Equivalent Concern	From 28/05/2024 to 29/05/2024	ND
Dyes – Disperse (Allergenic)	From 28/05/2024 to 29/05/2024	ND
Dyes-Navy Blue Colourant	From 28/05/2024 to 29/05/2024	ND
Flame retardants	From 27/05/2024 to 28/05/2024	ND
Glycols	From 27/05/2024 to 29/05/2024	ND
Halogenated solvents	From 24/05/2024 to 27/05/2024	ND
Organotin compounds	From 24/05/2024 to 27/05/2024	ND
Other/Miscellaneous Chemicals (^)	From 27/05/2024 to 29/05/2024	ND
Perfluorinated chemicals (PFCs)	From 27/05/2024 to 28/05/2024	ND
Phthalates	From 27/05/2024 to 28/05/2024	ND
Polycyclic aromatic hydrocarbons (PAHs)	From 27/05/2024 to 28/05/2024	ND
Restricted Aromatic Amines (Cleavable from Azo- colourants) Azo dyes	From 28/05/2024 to 29/05/2024	ND
UV Absorbers	From 27/05/2024 to 28/05/2024	ND
Volatile organic compounds (VOCs)	From 24/05/2024 to 27/05/2024	ND

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Wastewater / Heavy metals - Test items	Testing period	Sample 1 (Before treatment)		
		Foundational	Progressive	Aspirational
Chromium (VI)	From 24/05/2024 to 24/05/2024	Meet		
Arsenic	From 28/05/2024 to 29/05/2024			Meet
Cadmium	From 28/05/2024 to 29/05/2024			Meet
Lead	From 28/05/2024 to 29/05/2024			Meet
Mercury	From 28/05/2024 to 29/05/2024			Meet

Wastewater / Conventional parameters - Test items	Testing period	Sample 2 (After treatment)		
		Foundational	Progressive	Aspirational
pH ^[f]			N/A	
Temperature difference ^[f]			N/A	
E.coli			N/A	
Colour			N/A	
Persistent foam ^[f]			N/A	
Wastewater flowrate ^[f]			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	
Oil & Grease			N/A	
Total Phenols / Phenol Index			N/A	
Total Chlorine ^[f]			N/A	
Total Dissolved Solids (TDS)			N/A	
Total Nitrogen			N/A	
Total Phosphorus			N/A	
Total Suspended Solids (TSS)			N/A	



Wastewater / Anions - Test items	Testing period	Sample 2 (After treatment)		
		Foundational	Progressive	Aspirational
Chloride		N/A		
Cyanide, total			N/A	
Sulfate		N/A		
Sulfide			N/A	
Sulfite			N/A	

Sludge / Heavy metals - Test items	Testing period	Sample 3: Sludge (Total)	Sample 3: 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	Sample 3: Sludge
Cyanide		N/A

Sludge / Conventional parameters - Test items	Testing period	Sample 3: Sludge
pH		N/A
% Solids		N/A
Paint filter test		N/A
Faecal coliform		N/A

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Sludge / MRSL - Test items	Testing period	Sample 3: Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers		N/A
Polycyclic Aromatic Hydrocarbons (PAHs)		N/A
Chlorotoluenes		N/A

Remark (Indicated in each parameter)

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.

[^o] = 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 Ibérica Spain S.L.U.



Miriam Laca , Environmental Manager

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1. Conventional parameters

Wastewater/ Conventional parameters - Test items	Test method	Limit			Lab Reporting Limit	Result sample 2 (After treatment)	Unit
		Foundational	Progressive	Aspirational			
Temperature	EPA 170.1	35°C	30°C	25°C	N/A	N/A	°C
Temperature difference [°C]	EPA 170.1	Δ+15°C	Δ+10°C	Δ+5°C	N/A	N/A	[f] °C
TSS	EPA 160.2	50 mg/L	15 mg/L	5 mg/L	4 mg/L	N/A	mg/L
Chemical Oxygen Demand	ISO 6060	150 mg/L	80 mg/L	40 mg/L	30 mg/L	N/A	mg/L
Total-N	ISO11905-01/DIN 38405- 9	20 mg/L	10 mg/L	5 mg/L	0.5 mg/L	N/A	mg/L
pH	EPA 150.1	6-9			3-13	N/A	[f] pH
Colour (436 nm ; 525 nm ; 620nm)	ISO 7887-B	7;5;3	5;3;2	2;1;1	N/A	N/A	[m-1]
Biochemical Oxygen Demand (BOD5)	EPA 5210	30 mg/L	15 mg/L	8 mg/L	3 mg/L	N/A	mg/L
Ammonium- Nitrogen	EPA 350.1	10 mg/L	1 mg/L	0.5 mg/L	0.5 mg/L	N/A	mg/L
Total-P	EPA200.8	3 mg/L	0.5 mg/L	0.1 mg/L	0.05 mg/L	N/A	mg/L
AOX	ISO 9562	3 mg/L	0.5 mg/L	0.1 mg/L	0.05 mg/L	N/A	mg/L
Oil and grease	EPA1664-B	10 mg/L	2 mg/L	0.5 mg/L	5 mg/L	N/A	mg/L
Phenol	SM5530	0.5 mg/L	0.01 mg/L	0.001 mg/L	0.1 mg/L	N/A	mg/L
E. Coli	SM 9221B / SM 9221F&G	126 [MPN/100-ml]			126 [MPN/100-ml]	N/A	[MPN/100- ml]
Foam	/	Not visible	Not visible	Not visible	N/A	N/A	[f]
Cyanide	ISO 6703	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.01 mg/L	N/A	mg/L
Sulfide	SM 4500-S2-D	0.5 mg/L	0.05 mg/L	0.01 mg/L	0.1 mg/L	N/A	mg/L
Sulphite	UNE ISO 10304-3	2 mg/L	0.5 mg/L	0.2 mg/L	0.2 mg/L	N/A	mg/L
Dissolved Oxygen (DO)	ISO 5814	Sample and report only	Sample and report only	Sample and report only	1 mg/L	N/A	[f] mg/L
Total Chlorine	USEPA 330.5	Sample and report only	Sample and report only	Sample and report only	0.05 mg/L	N/A	[f] mg/L
Total Dissolved Solids (TDS)	SM 2540-C	Sample and report only	Sample and report only	Sample and report only	10 mg/L	N/A	mg/L
Chloride	SM 4110-C	Sample and report only	Sample and report only	Sample and report only	1 mg/L	N/A	mg/L
Sulfate	SM 4110-C	Sample and report only	Sample and report only	Sample and report only	5 mg/L	N/A	mg/L
Wastewater Flowrate	/				N/A	N/A	[f] m3/day

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

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2. Heavy metals

With reference to ISO 11885, ISO 12846, ISO 17852, US EPA 200.7, US EPA 200.8, US EPA 6010c, US EPA 6020a, US EPA 218.6 and by Inductively Coupled Argon Plasma-Mass Spectrometry (ICP-MS) analysis.

Chromium VI: With reference to ISO 18412, Colourimetric UV/VIS.

Heavy metals	CAS no.	Limit			Lab Reporting limit (mg/L)	Result sample 1 (Before treatment)	Unit
		Foundational	Progressive	Aspirational			
Arsenic (As)	Various	0.05 mg/L	0.01 mg/L	0.005 mg/L	0.0005	ND	mg/L
Cadmium (Cd)	Various	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.0002	ND	mg/L
Mercury (Hg)	Various	0.01 mg/L	0.005 mg/L	0.001 mg/L	0.0003	ND	mg/L
Lead (Pb)	Various	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.0005	ND	mg/L
Antimony (Sb)	Various	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.0005	N/A	mg/L
Cobalt (Co)	Various	0.05 mg/L	0.02 mg/L	0.01 mg/L	0.001	N/A	mg/L
Nickel (Ni)	Various	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.001	N/A	mg/L
Silver (Ag)	Various	0.1 mg/L	0.05 mg/L	0.005 mg/L	0.005	N/A	mg/L
Copper (Cu)	Various	1 mg/L	0.5 mg/L	0.25 mg/L	0.001	N/A	mg/L
Zinc (Zn)	Various	5.0 mg/L	1.0 mg/L	0.5 mg/L	0.01	N/A	mg/L
Total Chromium	Various	0.2 mg/L	0.1 mg/L	0.05 mg/L	0.001	N/A	mg/L
Chromium VI (Cr VI)	Various	0.05 mg/L	0.005 mg/L	0.001 mg/L	0.05	ND	mg/L
Barium	Various	Sample and Report only	Sample and Report only	Sample and Report only	0.001	N/A	mg/L
Selenium	Various	Sample and Report only	Sample and Report only	Sample and Report only	0.002	N/A	mg/L
Tin	Various	Sample and Report only	Sample and Report only	Sample and Report only	0.001	N/A	mg/L

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

Test method: modified from to ISO 18254-1 (LC-MS/MS analysis).

Alkylphenols (APs) & Alkylphenoethoxylates (APEOs)	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Before treatment)	Unit
Octylphenol (OP), mixed isomers	140-66-9/ 1806-26-4/ 27193-28-8	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
Octylphenoethoxylates (OPEOs)	9002-93-1; 9036-19-5; 68987-90-6	5	5	ND	µg/L
Nonylphenoethoxylates (NPEOs)	9016-45-9/26027-38-3/ 37205-87- 1/68412-54-4/127087-87-0	5	5	ND	µg/L

4. Chlorobenzenes & Chlorotoluenes

Test method: modified from to EPA 8260D, EPA 8270E (GC-MS analysis).

Chlorobenzenes & Chlorotoluenes	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Before treatment)	Unit
Chlorobenzene	108-90-7	0.2	0.2	ND	µg/L
1,2-Dichlorobenzene	95-50-1	0.2	0.2	ND	µg/L
1,3-Dichlorobenzene	541-73-1	0.2	0.2	ND	µg/L
1,4-Dichlorobenzene	106-46-7	0.2	0.2	ND	µg/L
1,2,3-Trichlorobenzene	87-61-6	0.2	0.2	ND	µg/L
1,2,4-Trichlorobenzene	120-82-1	0.2	0.2	ND	µg/L
1,3,5-Trichlorobenzene	108-70-3	0.2	0.2	ND	µg/L
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	0.2	ND	µg/L
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2	0.2	ND	µg/L
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	0.2	ND	µg/L
Pentachlorobenzene	608-93-5	0.2	0.2	ND	µg/L
Hexachlorobenzene	118-74-1	0.2	0.2	ND	µg/L
2-Chlorotoluene	95-49-8	0.2	0.2	ND	µg/L
3-Chlorotoluene	108-41-8	0.2	0.2	ND	µg/L
4-Chlorotoluene	106-43-4	0.2	0.2	ND	µg/L
2,3-Dichlorotoluene	32768-54-0	0.2	0.2	ND	µg/L
2,4-Dichlorotoluene	95-73-8	0.2	0.2	ND	µg/L
2,5-Dichlorotoluene	19398-61-9	0.2	0.2	ND	µg/L
2,6-Dichlorotoluene	118-69-4	0.2	0.2	ND	µg/L
3,4-Dichlorotoluene	95-75-0	0.2	0.2	ND	µg/L
3,5-Dichlorotoluene	25186-47-4	0.2	0.2	ND	µg/L
2,3,4-Trichlorotoluene	7359-72-0	0.2	0.2	ND	µg/L
2,3,6-Trichlorotoluene	2077-46-5	0.2	0.2	ND	µg/L

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2,4,5-Trichlorotoluene	6639-30-1	0.2	0.2	ND	µg/L
2,4,6-Trichlorotoluene	23749-65-7	0.2	0.2	ND	µg/L
3,4,5-Trichlorotoluene	21472-86-6	0.2	0.2	ND	µg/L
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	0.2	ND	µg/L
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	0.2	ND	µg/L
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	0.2	ND	µg/L
Pentachlorotoluene	877-11-2	0.2	0.2	ND	µg/L

5. Chlorophenols

Test method: modified from to EPA 8270E (GC-MS).

Chlorophenols	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Before treatment)	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
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. Restricted Aromatic Amines (Cleavable from Azo- colourants)

Test method: modified from to ISO 14362-1/3 (LC-MS/MS).

Azo Dyes	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Before treatment)	Unit
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1	0.1	ND	µg/L
4,4'-Diaminodiphenylmethane	101-77-9	0.1	0.1	ND	µg/L
4,4'-Oxydianiline	101-80-4	0.1	0.1	ND	µg/L
4-Chloroaniline	106-47-8	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
p-Cresidine	120-71-8	0.1	0.1	ND	µg/L
2,4,5-Trimethylaniline	137-17-7	0.1	0.1	ND	µg/L
4,4'-Thiodianiline	139-65-1	0.1	0.1	ND	µg/L
4-Aminoazobenzene	60-09-3	0.1	0.1	ND	µg/L
4-methoxy-m-phenylenediamine	615-05-4	0.1	0.1	ND	µg/L
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	0.1	0.1	ND	µg/L
2,6-Xylidine	87-62-7	0.1	0.1	ND	µg/L
o-Anisidine	90-04-0	0.1	0.1	ND	µg/L
2-Naphthylamine	91-59-8	0.1	0.1	ND	µg/L
3,3'-Dichlorobenzidine	91-94-1	0.1	0.1	ND	µg/L
4-Aminobiphenyl	92-67-1	0.1	0.1	ND	µg/L
Benzidine	92-87-5	0.1	0.1	ND	µg/L
o-Toluidine	95-53-4	0.1	0.1	ND	µg/L
2,4-Xylidine	95-68-1	0.1	0.1	ND	µg/L
4-Chloro-o-toluidine	95-69-2	0.1	0.1	ND	µg/L
4-Methyl-m-phenylenediamine	95-80-7	0.1	0.1	ND	µg/L
o-Aminoazotoluene	97-56-3	0.1	0.1	ND	µg/L
5-Nitro-o-toluidine	99-55-8	0.1	0.1	ND	µg/L
2-Naphthylammoniumacetate	553-00-4	0.1	0.1	ND	µg/L
2,4,5-trimethylaniline hydrochloride	21436-97-5	0.1	0.1	ND	µg/L
4-chloro-o-toluidinium chloride	3165-93-3	0.1	0.1	ND	µg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisoole sulphate	39156-41-7	0.1	0.1	ND	µg/L

7. Dyes – Carcinogenic or Equivalent Concern

Test method: modified from to DIN 54231:2022-09 (LC-MS).

Carcinogenic dyes	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Before treatment)	Unit
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. Acid Red 26	3761-53-3	500	500	ND	µg/L
C.I. Basic Red 9	569-61-9	500	500	ND	µg/L
C.I. Direct Red 28	573-58-0	500	500	ND	µg/L
C.I. Basic Violet 14	632-99-5	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
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
Disperse Orange 11	82-28-0	500	500	ND	µg/L
Basic violet 3 with >0.1% of Michler's Ketone	548-62-9	500	500	ND	µg/L
C.I. Acid Violet 49	1694-09-3	500	500	ND	µg/L

8. Dyes – Disperse (Allergenic)

Test method: modified from to DIN 54231:2022-09 (LC-MS).

Disperse dyes	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Before treatment)	Unit
Disperse Yellow 1	119-15-3	50	50	ND	µg/L
Disperse Blue 102	12222-97-8	50	50	ND	µg/L
Disperse Blue 106	12223-01-7	50	50	ND	µg/L
Disperse Yellow 39	12236-29-2	50	50	ND	µg/L
Disperse Orange 37/59/76	13301-61-6	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 Yellow 3	2832-40-8	50	50	ND	µg/L
Disperse Red 11	2872-48-2	50	50	ND	µg/L
Disperse Red 1	2872-52-8	50	50	ND	µg/L
Disperse Red 17	3179-89-3	50	50	ND	µg/L
Disperse Blue 7	3179-90-6	50	50	ND	µg/L

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Disperse Blue 26	3860-63-7	50	50	ND	µg/L
Disperse Yellow 49	54824-37-2	50	50	ND	µg/L
Disperse Blue 35	12222-75-2	50	50	ND	µg/L
Disperse Blue 124	61951-51-7	50	50	ND	µg/L
Disperse Yellow 9	6373-73-5	50	50	ND	µg/L
Disperse Orange 3	730-40-5	50	50	ND	µg/L
Disperse Blue 35	56524-77-7	50	50	ND	µg/L

9. Flame retardants

Test method: modified from to EPA 8270E (GC-MS) and EPA 8321B (LC-MS).

Test method for Borate salt: modified from to EPA 200.8, EPA 3005A and EPA 3015A (ICP-MS), determined as total boron.

Flame retardants	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Before treatment)	Unit
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	25	ND	µg/L
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	25	ND	µg/L
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25	25	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	25	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	25	ND	µg/L
Bis(2,3-dibromopropyl) phosphate	5412-25-9	25	25	ND	µg/L
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	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
Hexabromocyclododecane (HBCDD)	3194-55-6	25	25	ND	µg/L
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	25	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	25	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	25	ND	µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	25	25	ND	µg/L
Dibromobiphenyls (DiBB)	Various	25	25	ND	µg/L
Octabromobiphenyls (OctaBB)	Various	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)	Various	25	25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Various	25	25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Various	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

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Tribromodiphenylethers (TriBDEs)	Various	25	25	ND	µg/L
Boric acid**	10043-35-3 / 11113-50-1	100 in Boron	100 in Boron	ND	µg/L
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.

10. Glycols

Test method: modified from to EPA 8270E (GC-MS).

Glycols	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Before treatment)	Unit
Bis(2-methoxyethyl)-ether	111-96-6	50	50	ND	µg/L
2-ethoxyethanol	110-80-5	50	50	ND	µg/L
2-ethoxyethyl acetate	111-15-9	50	50	ND	µg/L
Ethylene glycol dimethyl ether	110-71-4	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
Triethylene glycol dimethyl ether	112-49-2	50	50	ND	µg/L

11. Halogenated solvents

Test method: modified from to EPA 8260D (GC-MS).

Chlorinated solvents	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Before treatment)	Unit
1,2-Dichloroethane	107-06-2	1	1	ND	µg/L
Methylene chloride	75-09-2	1	1	ND	µg/L
Trichloroethene	79-01-6	1	1	ND	µg/L
Tetrachloroethene	127-18-4	1	1	ND	µg/L

12. Organotin compounds

Test method: modified from to ISO 17353 (GC-MS).

Organotin compounds	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Before treatment)	Unit
Mono-, di-and tri-methyltin derivatives	Various	0.01	0.01	ND	µg/L
Mono-, di-and tri-butyltin derivatives	Various	0.01	0.01	ND	µg/L
Mono-, di-and tri-phenyltin derivatives	Various	0.01	0.01	ND	µg/L
Mono-, di-and tri-octyltin derivatives	Various	0.01	0.01	ND	µg/L
Tricyclohexyltin (TCyHT)	Various	0.01	0.01	ND	µg/L

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Dipropyltin compounds (DPT)	Various	0.01	0.01	ND	µg/L
Tetrabutyltin compounds (TeBT)	Various	0.01	0.01	ND	µg/L
Tripopyltin Compounds (TPT)	Various	0.01	0.01	ND	µg/L
Tetraoctyltin compounds (TeOT)	Various	0.01	0.01	ND	µg/L
Tetraethyltin Compounds (TeET)	Various	0.01	0.01	ND	µg/L

13. Phthalates

Test method: modified from to EPA 8270E (GC-MS).

Phthalates	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Before treatment)	Unit
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	10	10	ND	µg/L
Dimethoxyethyl phthalate (DMEP)	117-82-8	10	10	ND	µg/L
Di-n-octyl phthalate (DNOP)	117-84-0	10	10	ND	µg/L
Di-iso-decyl phthalate (DIDP)	26761-40-0/68515-49-1	10	10	ND	µg/L
Di-iso-nonyl phthalate (DINP)	28553-12-0/68515-48-0	10	10	ND	µg/L
Di-n-hexyl phthalate (DnHP)	84-75-3	10	10	ND	µg/L
Dibutyl phthalate (DBP)	84-74-2	10	10	ND	µg/L
Butyl benzyl phthalate (BBP)	85-68-7	10	10	ND	µg/L
Diethyl phthalate (DEP)	84-66-2	10	10	ND	µg/L
Di-n-propyl phthalate (DPRP)	131-16-8	10	10	ND	µg/L
Di-iso-butyl phthalate (DIBP)	84-69-5	10	10	ND	µg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	10	ND	µg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUJ)	68515-42-4	10	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C6-11-branched alkyl esters, C7-rich (DIHP)	71888-89-6	10	10	ND	µg/L
Di-n-pentylphthalates	131-18-0	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



14. Perfluorinated chemicals (PFCs)

Test method: modified from to EPA 537:2020 (LC-MS/MS) and EPA 8270 (GC-MS).

Perfluorinated chemicals (PFCs)	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Before treatment)	Unit
Perfluoro-octanoic acid (PFOA)	335-67-1	0.01	0.01	ND	µg/L
Perfluoro-octane-sulfonic acid (L-PFOS)	1763-23-1	0.01	0.01	ND	µg/L
Perfluoro-octane-sulfon-amide (PFOSA)	754-91-6	0.01	0.01	ND	µg/L
N-Methyl-perfluoro-octane-sulfon-amide (N-Me-FOSA)	31506-32-8	0.01	0.01	ND	µg/L
N-Ethyl-perfluoro-octane-sulfon-amide (N-Et-FOSA)	4151-50-2	0.01	0.01	ND	µg/L
N-Methyl-perfluoro-octane-sulfon-amido-ethanol (N-Me-FOSE alcohol)	24448-09-7	0.01	0.01	ND	µg/L
N-Ethyl-Perfluoro-octane-sulfon-amido-ethanol (N-Et-FOSE alcohol)	1691-99-2	0.01	0.01	ND	µg/L
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	1	1	ND	µg/L
2-Perfluorooctylethanol (8:2 FTOH)	678-39-7	1	1	ND	µg/L
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	1	1	ND	µg/L
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	1	1	ND	µg/L
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	1	1	ND	µg/L
Ethyl perfluorooctanoate Et-PFOA	3108-24-5	1	1	ND	µg/L

15. Polycyclic aromatic hydrocarbons (PAHs)

Test method: modified from to EPA 8270E (GC-MS).

Polycyclic aromatic hydrocarbons (PAHs)	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Before treatment)	Unit
Benzo(a)pyrene (BaP)	50-32-8	1	1	ND	µg/L
Anthracene	120-12-7	1	1	ND	µg/L
Pyrene	129-00-0	1	1	ND	µg/L
Benzo(ghi)perylene	191-24-2	1	1	ND	µg/L
Benzo(e)pyrene	192-97-2	1	1	ND	µg/L
Indeno (1,2,3-cd)pyrene	193-39-5	1	1	ND	µg/L
Benzo(j)fluoranthene	205-82-3	1	1	ND	µg/L
Benzo(b)fluoranthene	205-99-2	1	1	ND	µg/L
Fluoranthene	206-44-0	1	1	ND	µg/L
Benzo(k)fluoranthene	207-08-09	1	1	ND	µg/L
Acenaphthylene	208-96-8	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
Benzo(a)anthracene	56-55-3	1	1	ND	µg/L
Acenaphthene	83-32-9	1	1	ND	µg/L

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Phenanthrene	85-01-8	1	1	ND	µg/L
Fluorene	86-73-7	1	1	ND	µg/L
Naphthalene	91-20-3	1	1	ND	µg/L

16. Volatile organic compounds (VOCs)

Test method: modified from to EPA 8260D (GC-MS) and EPA 8270 (GC-MS).

Volatile organic compounds (VOCs)	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Before treatment)	Unit
Benzene	71-43-2	1	1	ND	µg/L
Xylene	1330-20-7	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
m-cresol	108-39-4	1	1	ND	µg/L
Toluene*	108-88-3	1	1	ND	µg/L

(*) = Sample and report for mock leather.

17. Anti - Microbials & Biocides

Test method: modified from to EPA 8270E (GC-MS analysis).

Anti - Microbials & Biocides	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Before treatment)	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

18. Chlorinated paraffins

Test method: modified from to ISO 12010:2020 (GC-MS).

Chlorinated paraffins	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Before treatment)	Unit
Short-chain Chlorinated paraffin (C10 – C13)	85535-84-8	25	25	ND	µg/L
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	500	500	ND	µg/L

19. Dimethyl Formamide (DMFa) (*)

Test method: modified from to EPA 8270E (GC-MS).

N,N-di-methylformamide (DMFa)	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Before treatment)	Unit
Dimethyl formamide; N,N-dimethylformamide	68-12-2	1000	1000	ND	µg/L

(*) = Sample and report for mock leather.

20. Dyes-Navy Blue Colourant

Test method: modified from to DIN 54231:2022-09 (LC-MS).

Dyes-Navy Blue Colourant	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Before treatment)	Unit
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	500	500	ND	µg/L
Component 2: C46H-30CrN10O20S2 3Na	Not Allocated	500	500	ND	µg/L

21. Other/Miscellaneous Chemicals (^^)

Others: With reference to Liquid extraction, LC-MS-MS analysis.

Test method for Borate, Zinc salt: modified from to EPA 200.8, EPA 3005A and EPA 3015A (ICP-MS), determined as total boron and total zinc.

Other/Miscellaneous Chemicals	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Before treatment)	Unit
AEEA [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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22. UV Absorbers

Test method: modified from to EPA 8270 (GC-MS).

UV Absorbers	CAS no.	Lab Reporting limit (µg/L)	ZDHC Reporting limit (µg/L)	Result Sample 1 (Before treatment)	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	3846-71-7	100	100	ND	µg/L
2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)	3864-99-1	100	100	ND	µg/L

23. Sludge Parameters – Step 1 - Metals

Test method: modified from to EPA 200.8 (ICP-MS).

Test method for Chromium VI: modified from to EPA 7196 (UV/VIS).

Test method for Mercury: modified from to EPA 3051A (ICP-MS).

Sludge Parameters – Step 1 - Metals	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
Antimony	5	0.25	N/A	mg/kg
Arsenic	5	0.25	N/A	mg/kg
Barium	200	0.25	N/A	mg/kg
Cadmium	1	0.1	N/A	mg/kg
Cobalt	400	0.25	N/A	mg/kg
Copper	50	0.25	N/A	mg/kg
Lead	5	0.25	N/A	mg/kg
Nickel	20	0.25	N/A	mg/kg
Selenium	5	0.5	N/A	mg/kg
Silver	50	2.5	N/A	mg/kg
Total Chromium	50	0.25	N/A	mg/kg
Zinc	400	2.5	N/A	mg/kg
Chromium (VI)	20	5	N/A	mg/kg
Mercury	1	0.1	N/A	mg/kg

24. Sludge Parameters – Step 1 - Anions

With reference to USEPA 9013, USEPA 9014, USEPA 9213, HJ745 with Colourimetry or ISE analysis.

Sludge Parameters – Step 1 - Anions	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
Cyanide	20	20	N/A	mg/kg

25. Sludge Parameters - Step 1 – Conventional

Sludge Parameters – Step 1 - Conventional	Test method	Lab reporting limit (Dry weight) (mg/kg)	Result Sample 3 (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	USEPA 1681	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.

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26. Sludge Parameters - Step 1 - MRSL - Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers.

Test method: modified from to ISO 18254 (LC-MS/MS).

Sludge Parameters - Step 1 - MRSL - Alkylphenol (AP) and Alkylphenol	CAS no.	ZDHC reporting limit (Dry)	Lab reporting limit (Dry weight)	Result Sample 3 (Sludge - Dry)	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

27. Sludge Parameters - Step 1 - MRSL - Polycyclic Aromatic Hydrocarbons (PAHs)

Test method: modified from to EPA 3550 and EPA 8270E (GC-MS).

Sludge Parameters - Step 1 - MRSL - Polycyclic Aromatic Hydrocarbons (PAHs)	CAS no.	Lab reporting limit (Dry weight) (mg/kg)	ZDHC reporting limit	Result Sample 3 (Sludge - Dry)	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

28. Sludge Parameters - Step 1 - MRSL – Chlorotoluenes

Test method: modified from to EPA 8270 (GC-MS).

Sludge Parameters - Step 1 - MRSL – Chlorotoluenes	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Lab reporting limit (Dry weight) (mg/kg)	Result Sample 3 (Sludge - Dry weight)	Unit
2-Chlorotoluene	95-49-8	0.2	0.2	N/A	mg/kg
3-Chlorotoluene	108-41-8	0.2	0.2	N/A	mg/kg
4-Chlorotoluene	106-43-4	0.2	0.2	N/A	mg/kg
2,3-Dichlorotoluene	32768-54-0	0.2	0.2	N/A	mg/kg
2,4-Dichlorotoluene	95-73-8	0.2	0.2	N/A	mg/kg
2,5-Dichlorotoluene	19398-61-9	0.2	0.2	N/A	mg/kg
2,6-Dichlorotoluene	118-69-4	0.2	0.2	N/A	mg/kg
3,4-Dichlorotoluene	95-75-0	0.2	0.2	N/A	mg/kg
3,5-Dichlorotoluene	25186-47-4	0.2	0.2	N/A	mg/kg
2,3,4-Trichlorotoluene	7359-72-0	0.2	0.2	N/A	mg/kg
2,3,6-Trichlorotoluene	2077-46-5	0.2	0.2	N/A	mg/kg
2,4,5-Trichlorotoluene	6639-30-1	0.2	0.2	N/A	mg/kg
2,4,6-Trichlorotoluene	23749-65-7	0.2	0.2	N/A	mg/kg
3,4,5-Trichlorotoluene	21472-86-6	0.2	0.2	N/A	mg/kg
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	0.2	N/A	mg/kg
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	0.2	N/A	mg/kg
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	0.2	N/A	mg/kg
Pentachlorotoluene	877-11-2	0.2	0.2	N/A	mg/kg

29. Sludge Parameters - Step 2 – Metals

With reference to toxicity leachate extraction procedure EPA 1311 followed by Acid digestion with USEPA 200.8 (ICP-MS)

Test method for Chromium VI: With reference to toxicity leachate extraction procedure EPA 1311 followed by ISO 18412, EPA 7196 (UV/VIS).

Test method for Mercury: With reference to toxicity leachate extraction procedure EPA 1311 followed by acid digestion EPA 3051A (ICP -MS).

Sludge Parameters - Step 2 – Metals	Lab Reporting limit (mg/L)	Result Sample 3 (Sludge)	Unit
Antimony	0.0005	N/A	mg/L
Arsenic	0.0005	N/A	mg/L
Barium	0.001	N/A	mg/L
Cadmium	0.0002	N/A	mg/L
Cobalt	0.001	N/A	mg/L
Copper	0.001	N/A	mg/L
Lead	0.0005	N/A	mg/L
Nickel	0.001	N/A	mg/L

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Selenium	0.002	N/A	mg/L
Silver	0.005	N/A	mg/L
Total Chromium	0.001	N/A	mg/L
Zinc	0.01	N/A	mg/L
Chromium (VI)	0.05	N/A	mg/L
Mercury	0.0003	N/A	mg/L

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)
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	Sample and report only
Cobalt	1600		80	80	80	80	80	Sample and report only
Copper	200		25	17.5	10	10	10	4300
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	7500
Chromium VI	50		5	3.75	2.5	2.5	2.5	50
Mercury	2		0.2	0.125	0.05	0.05	0.05	57

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	
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		Sample and report only		< 0.4 mg/kg			
Polycyclic Aromatic Hydrocarbons (PAHs)				< 0.2 mg/kg			
Chlorotoluenes							

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

Photo of sampling points:



Photo of wastewater before treatment (untreated)

[23/05/2024; 09:50]

N/A

N/A

Photo of effluent

Photo of sludge

Photo of samples:



[23/05/2024; 09:50]

N/A

N/A

Photo of effluent

Photo of sludge



SAMPLING PROTOCOL (PAGE 1 OF 3)

Sampling protocol for wastewater & sludge:

Sampling Protocol for Wastewater and Sludge acc. ZDHC SAP 2.1 incl. Apdx. E

Customer:	INDITEX		
Address:	SPAIN		
Facility type & name:	ATB – ACABAMENTOS TEXTEIS DE BARCELOS LDA		
Facility location / address:	RUA AFONSO NUNES DE MARIZ, 1 APARTADO 347 MARIZ 4750-571 BARCELOS		
Operator of facility:	SOFIA VILAS BOAS		
Cause of sampling:	ZDHC	Date of sampling: 23/05/2024	
Sample General ID (if available):	ID171956	<input type="checkbox"/> direct discharge <input checked="" type="checkbox"/> indirect discharge <input type="checkbox"/> Zero Liquid Discharge (ZLD) <input type="checkbox"/> MMCF	X without treatment <input type="checkbox"/> with pre-treatment <input type="checkbox"/> with own ETP
Discharge description:	Discharge to: TRATAVE There are a pre-treatment to separate solids. The raw wastewater goes to an Equalization Tank, then wastewater goes to external ETP. AGUAS DE BARCELOS		
Weather conditions:	on sampling day: SUN	on day before: CLOUDS/RAIN	

Sample Type and Details (also see page 2)

<input type="checkbox"/> Effluent Discharge	<input type="checkbox"/> direct: Enter sampling times in Sample Details (page 2), and measure field parameters. or <input checked="" type="checkbox"/> indirect: Enter sampling time(s) for Indirect discharge. Field parameters are not required, except on client's request.	x with Homogenisation / Equalisation Tank (HT) present: Hydraulic Retention Time (HRT):±12.. h (= Volume of tank [m³] / Flow rate [m³/h]) If HRT > 12h, grab sampling for both untreated and treated wastewater from a point after the HT could be applied.							
<input checked="" type="checkbox"/> Untreated Wastewater	<input type="checkbox"/> Incoming Water	<input type="checkbox"/> MMCF							
<input type="checkbox"/> Sludge with below disposal pathway: SEE ADDITIONAL COMMENTS Age of sludge : days									
<input type="checkbox"/> A >1000 °C offsite incineration	<input type="checkbox"/> OB Landfill with significant control	<input type="checkbox"/> C Building products processed >1000 °C							
<input type="checkbox"/> D Landfill with limited control	<input type="checkbox"/> E Incineration / Building products processed <1000 °C	<input type="checkbox"/> F Landfill with no control							
<input type="checkbox"/> G Land application	Sludge volume produced: m³/month OL/sec Other unit (specify): X per facility info <input type="checkbox"/> measured <input type="checkbox"/> estimated								
<input type="checkbox"/> Process Chemical	<input checked="" type="checkbox"/> liquid <input type="checkbox"/> solid (powder/granulate/pieces)	<input type="checkbox"/> 'in process' <input checked="" type="checkbox"/> from warehouse/storage							
Times of sampling (if applicable)	Untreated Wastewater:	1	2	3	4	5	6	7	Sludge:
	Indirect Discharge: effluent		2	3	4	5	6	or Grab: 09:45H	
(for direct discharge, see page 2)									



SAMPLING PROTOCOL (PAGE 2 OF 3)

Picture ID (or Date & Time / Interval):	GPS coordinates of sampling points:
	Incoming W.: Lat.: <input type="checkbox"/> N <input type="checkbox"/> S Long.: <input type="checkbox"/> E <input type="checkbox"/> W
	Untreated WW: Lat.: <input type="checkbox"/> N 41°31'24" <input type="checkbox"/> N Long.: <input type="checkbox"/> E 8°39'12" <input type="checkbox"/> W
	Effluent: Lat.: Long.: <input type="checkbox"/> W
	Sludge: Lat.: <input type="checkbox"/> N Long.: <input type="checkbox"/> W

Sample Details Field parameters usually are required only for direct discharge. If client requests also for indirect discharge, use below fields.

<input checked="" type="checkbox"/> Composite Sample	<input type="checkbox"/> Grab Sample (Use column for Averaged Readings and fields at right)							Volume of aliquot(s): 25000 mL
Time of taking discrete sample	1-09:45H	2-	3	4-	5-	6	7-	1 Averaged Readings or Grab Sample:
pH:	8.0	8.0	8.0	8.0	8.0	8.0	8.0	08,71pH
Temp. WW discharge	°C	°C	°C	°C	°C	°C	°C	33,7C
Temp. of receiving water	°C	°C	°C	°C	°C	°C	°C	0C
Flow rate:	m³/h	m³/h	m³/h	m³/h	m³/h	m³/h	M³/h	~ 1000m³/D
Dissolved Oxygen:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Total Chlorine:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Persistent foam:	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	

Use comment field if number of samples is greater than six, or if above fields are otherwise not sufficient.

Sampling technique: automated sampling with beaker/bowl

Wastewater Flow Data (Effluent/Discharge)

System:	<input checked="" type="checkbox"/> Flow meter (in facility)	<input type="checkbox"/> Pipe (O)	<input type="checkbox"/> Flume (U)	<input type="checkbox"/> Wier (V)
Diameter [cm]	X			
Water Depth [cm]	X			
Flow Speed [cm/sec]	X			

General Field Parameters and Sensory Data (as far as applicable)

Type	T ambient air [°C]	Odour	Colour	Foaming	Floating matter
Incoming				<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Untreated	18°	NO	GRAY	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Effluent				<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no

Field Testing QA/QC

Parameter	Lab Control Sample target value	Lab Control Sample measured value	Accuracy [%]
Ph			
Total Chlorine			



SAMPLING PROTOCOL (PAGE 3 OF 3)

Sludge treatment

Additional comments

2

ZDHC Wastewater Sampling - Facility Confirmation

The Wastewater samples have been collected under the facility's normal production scale and wastewater flow rate. The sampler listed below was on-site and collected the samples.

Sampling person (name & email address):

Filipe silva

filipematec@gmail.com

Facility Name:

ATB ACABAMENTOS TEXTEIS DE BARCELOS LDA

Sampler's ZDHC accreditation no.:

ZDHC-23-E-C001068-R2CFA-14458

Facility's Representative name:

SOFIA VILAS BOAS

Document on sludge disposal or licensed third-party waste contractor for sludge disposal.

N/A



SOFTLINES WASTEWATER TESTING

TEST REPORT LA-240981

Number: ATB – ACABAMENTOS TEXTEIS DE BARCELOS LDA

Testing period: From 24/05/2024 to 29/05/2024

Testing period Subcontracted Lab (if applicable): N/A

End of report

This report is made solely on the basis of your instructions and/or information and materials supplied. Results refer only to samples received in the lab. It is not intended to be a recommendation for any particular course of action. Intertek does 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 is expressly contained in the terms and conditions governing Intertek's 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 and careful basis and we do not accept any liability to you for any 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 wilful misconduct.

