



23.46790



IISG



LAB N° 0302 L

TEST REPORT: 23.46790

This report is composed by 13 pages, of which: 2 pages for the Summary
11 pages for the Report

Date in sample: 1 February 2024
Issue date: 20 February 2024

FACILITY

BENETTON SRB D.O.O. NIS

Pantelejska broj 58
18000 Nis SERBI

SAMPLE DESCRIPTION

Date and time of the beginning of sampling: 30-01-2024 8:00
Date and time of the end of sampling: 30-01-2024 14:00
Date Received Sample: 01-02-2024
Sampling by: UL In-Charge Technician according to SOP 200-AT-S0059
Sampler certification number: ZDHC-A-22-E-C001068-R2251-A6189
Discharge Type: Indirect Discharge With Pretreatment
WATER - OLIMPIAS SRB D.O.O. NIS, Pantelejska broj 58 (18000) SERBIA

UNTREATED WATER
SAMPLING LOCATION: POST-PRODUCTION WATER (TAP SAMPLING)
SAMPLING METHOD: COMPOSITE SAMPLE

EFFLUENT WATER
SAMPLING LOCATION: SETTLING TANK
SAMPLING METHOD: COMPOSITE SAMPLE
PRETREATMENT: PRELIMINARY, PRIMARY, DISINFECTION, SECONDARY AND TERNARY TREATMENT





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IISG



TEST REPORT: 23.46790

dated 20 Feb 2024

Test Name	Untreated	Effluent			Comment
Alkylphenol and Alkylphenol Ethoxylates	No Detected	//			
Determination of Anti-Microbials & Biocides (o-Phenylphenol)	No Detected	//			
Determination of Anti-Microbials & Biocides (Triclosan)	No Detected	//			
Determination of Anti-Microbials & Biocides (Permethrin)	No Detected	//			
Determination of short-chain chlorinated paraffins (SCCPs)	No Detected	//			
Determination of medium-chain chlorinated paraffins (MCCPs)	No Detected	//			
Chlorobenzenes and Chlorotoluenes	No Detected	//			
Chlorophenols	No Detected	//			
Determination of Dimethylformamide (DMFa)	No Detected	//			
Carcinogenic Dyes	No Detected	//			
Disperse Dyes (Allergenic)	No Detected	//			
Determination of Navy Blue	No Detected	//			
Flame Retardants	No Detected	//			
Flame Retardants	Detected	//			
Glycols	No Detected	//			
Halogenated Solvents	No Detected	//			
Organotin Compounds	Detected	//			
Other/Miscellaneous Chemicals: AEEA [2-(2-aminoethylamino) ethanol]	No Detected	//			
Other/Miscellaneous Chemicals: Bisphenol A (BPA)	No Detected	//			
Other/Miscellaneous Chemicals: Thiourea	No Detected	//			
Other/Miscellaneous Chemicals: Quinoline	No Detected	//			
Other/Miscellaneous Chemicals: Borate, Zinc salt	Detected	//			
Perfluorinated and Polyfluorinated Chemicals (PFCs)	No Detected	//			
Phthalates	Detected	//			
Polycyclic Aromatic Hydrocarbons (PAH)	No Detected	//			
Aromatic Amines	No Detected	//			
UV Absorbers	No Detected	//			
Volatile Organic Compounds (VOC)	No Detected	//			
Metals	//	See comment			Aspirational
Cr (VI) - Hexavalent Chromium	//	See comment			Aspirational

NA = Not Applicable; NR = Not Required

Note: it is prohibited the partial reproduction, any changes or modifications of this test report.

Data contained in the first page of this document have been declared by the client, the laboratory is not responsible for the results that could be influenced by such data.

Data related to the sample have been provided by the customer.

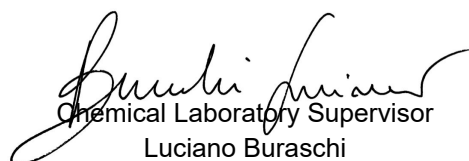
The results are exclusively referred to the samples tested as received by the laboratory unless otherwise specified.

Conclusions/judgments are expressed with exclusive reference to parts detailed in the following pages and based on limits there specified.

Recovery between 80-110% is not indicated on test reports and it is not considered in the final calculation.

DECISION RULE: The declaration of conformity is given not taking into account the measurement uncertainty.

Test not accredited by ACCREDIA are indicated with the symbol * in following pages.


 Chemical Laboratory Supervisor
 Luciano Buraschi



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TEST REPORT: 23.46790a dated 20 February 2024

	CAS No.	limit	udm	Untreated	Effluent			
Alkylphenol and Alkylphenol Ethoxylates 286-AT-L0084 Issue 1.0 2022								
Nonylphenol (NP)	104-40-5/11066-49-2/25154-52-3/84852-15-3	< 5	µg/L	< 5	NA			
Octylphenol (OP)	140-66-9/1806-26-4/27193-28-8	< 5	µg/L	< 5	NA			
Octylphenol ethoxylates, (OPEO)	9002-93-1/9036-19-5/68987-90-6	< 5	µg/L	< 5	NA			
Nonylphenol ethoxylates(NPEO)	9016-45-9/26027-38-3/37205-87-1/68412-54-4/127087-87-0	< 5	µg/L	< 5	NA			
Determination of Anti-Microbials & Biocides (o-Phenylphenol) 286-AT-L0067 Issue 1.0 2022								
o-Phenylphenol	90-3-7	< 100	µg/L	< 100	NA			
Determination of Anti-Microbials & Biocides (Triclosan) 286-AT-L0067 Issue 1.0 2022								
Triclosan	3380-34-5	< 100	µg/L	< 100	NA			
Determination of Anti-Microbials & Biocides (Permethrin) 286-AT-L0068 Issue 1.0 2022								
Permethrin	Various	< 500	µg/L	< 500	NA			
Determination of short-chain chlorinated paraffins (SCCPs) ISO 12010:2019								
Short chain (SCCPs) C10-C13	85535-84-8	< 25	µg/L	< 25	NA			
Determination of medium-chain chlorinated paraffins (MCCPs) According to ISO 18219-2:2021								
Medium-chain (MCCPs) C14-C17	85535-85-9	< 500	µg/L	< 500	NA			
Chlorobenzenes and Chlorotoluenes 286-AT-L0069 Issue 1.0 2022								
Monochlorobenzene	108-90-7	< 0,2	µg/L	< 0,2	NA			
1,2-dichlorobenzene	95-50-1	< 0,2	µg/L	< 0,2	NA			
1,3-dichlorobenzene	541-73-1	< 0,2	µg/L	< 0,2	NA			
1,4-dichlorobenzene	106-46-7	< 0,2	µg/L	< 0,2	NA			
1,2,3-trichlorobenzene	87-61-6	< 0,2	µg/L	< 0,2	NA			
1,2,4-trichlorobenzene	120-82-1	< 0,2	µg/L	< 0,2	NA			
1,3,5-trichlorobenzene	108-70-3	< 0,2	µg/L	< 0,2	NA			
1,2,3,4-tetrachlorobenzene	634-66-2	< 0,2	µg/L	< 0,2	NA			
1,2,3,5-tetrachlorobenzene	634-90-2	< 0,2	µg/L	< 0,2	NA			
1,2,4,5-tetrachlorobenzene	95-94-3	< 0,2	µg/L	< 0,2	NA			
Pentachlorobenzene	608-93-5	< 0,2	µg/L	< 0,2	NA			
Hexachlorobenzene	118-74-1	< 0,2	µg/L	< 0,2	NA			
2-chlorotoluene	95-49-8	< 0,2	µg/L	< 0,2	NA			



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	CAS No.	limit	udm	Untreated	Effluent			
3-chlorotoluene	108-41-8	< 0,2	µg/L	< 0,2	NA			
4-chlorotoluene	106-43-4	< 0,2	µg/L	< 0,2	NA			
2,3-dichlorotoluene	32768-54-0	< 0,2	µg/L	< 0,2	NA			
2,4-dichlorotoluene	95-73-8	< 0,2	µg/L	< 0,2	NA			
2,5-dichlorotoluene	19398-61-9	< 0,2	µg/L	< 0,2	NA			
2,6-dichlorotoluene	118-69-4	< 0,2	µg/L	< 0,2	NA			
3,4-dichlorotoluene	95-75-0	< 0,2	µg/L	< 0,2	NA			
3,5-dichlorotoluene	25186-47-4	< 0,2	µg/L	< 0,2	NA			
2,3,4-trichlorotoluene	7359-72-0	< 0,2	µg/L	< 0,2	NA			
2,3,6-trichlorotoluene	2077-46-5	< 0,2	µg/L	< 0,2	NA			
2,4,5-trichlorotoluene	6639-30-1	< 0,2	µg/L	< 0,2	NA			
2,4,6-trichlorotoluene	23749-65-7	< 0,2	µg/L	< 0,2	NA			
3,4,5-trichlorotoluene	21472-86-6	< 0,2	µg/L	< 0,2	NA			
2,3,4,5-tetrachlorotoluene	76057-12-0	< 0,2	µg/L	< 0,2	NA			
2,3,5,6-tetrachlorotoluene	29733-70-8	< 0,2	µg/L	< 0,2	NA			
2,3,4,6-tetrachlorotoluene	875-40-1	< 0,2	µg/L	< 0,2	NA			
Pentachlorotoluene	877-11-2	< 0,2	µg/L	< 0,2	NA			

Chlorophenols

EN 12673:1998

2-Chlorophenol	95-57-8	< 0,5	µg/L	< 0,5	NA			
3-Chlorophenol	108-43-0	< 0,5	µg/L	< 0,5	NA			
4-Chlorophenol	106-48-9	< 0,5	µg/L	< 0,5	NA			
2,3-Dichlorophenol	576-24-9	< 0,5	µg/L	< 0,5	NA			
2,4-Dichlorophenol	120-83-2	< 0,5	µg/L	< 0,5	NA			
2,5-Dichlorophenol	583-78-8	< 0,5	µg/L	< 0,5	NA			
2,6-Dichlorophenol	87-65-0	< 0,5	µg/L	< 0,5	NA			
3,4-Dichlorophenol	95-77-2	< 0,5	µg/L	< 0,5	NA			
3,5-Dichlorophenol	591-35-5	< 0,5	µg/L	< 0,5	NA			
2,3,4-Trichlorophenol	15950-66-0	< 0,5	µg/L	< 0,5	NA			
2,3,5-Trichlorophenol	933-78-8	< 0,5	µg/L	< 0,5	NA			
2,3,6-Trichlorophenol	933-75-5	< 0,5	µg/L	< 0,5	NA			
2,4,5-Trichlorophenol	95-95-4	< 0,5	µg/L	< 0,5	NA			
2,4,6-Trichlorophenol	88-06-2	< 0,5	µg/L	< 0,5	NA			
3,4,5-Trichlorophenol	609-19-8	< 0,5	µg/L	< 0,5	NA			



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	CAS No.	limit	udm	Untreated	Effluent			
2,3,4,5-Tetrachlorophenol	4901-51-3	< 0,5	µg/L	< 0,5	NA			
2,3,4,6-Tetrachlorophenol	58-90-2	< 0,5	µg/L	< 0,5	NA			
2,3,5,6-Tetrachlorophenol	935-95-5	< 0,5	µg/L	< 0,5	NA			
Pentachlorophenol	87-86-5	< 0,5	µg/L	< 0,5	NA			

Determination of Dimethylformamide (DMFa)

286-AT-L0070 Issue 1.0 2022

Dimethylformamide (DMFa)	68-12-2	< 1000	µg/L	< 1000	NA			
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Carcinogenic Dyes

286-AT-L0085 Issue 1.0 2022

Basic Violet 3	548-62-9	< 500	µg/L	< 500	NA			
Acid Red 26	3761-53-3	< 500	µg/L	< 500	NA			
Acid Violet 49	1694-09-3	< 500	µg/L	< 500	NA			
Basic Blue 26	2580-56-5	< 500	µg/L	< 500	NA			
Basic Green 4 (Malachite Green Chloride)	569-64-2	< 500	µg/L	< 500	NA			
Basic Green 4 (Malachite Green Oxalate)	2437-29-8	< 500	µg/L	< 500	NA			
Basic Green 4 (Malachite Green)	10309-95-2	< 500	µg/L	< 500	NA			
Basic Red 9	569-61-9	< 500	µg/L	< 500	NA			
Basic Violet 14	632-99-5	< 500	µg/L	< 500	NA			
Direct Black 38	1937-37-7	< 500	µg/L	< 500	NA			
Direct Blue 6	573-58-0	< 500	µg/L	< 500	NA			
Direct Red 28	573-58-0	< 500	µg/L	< 500	NA			
Disperse Blue 1	2475-45-8	< 500	µg/L	< 500	NA			
Disperse Blue 3	2475-46-9	< 500	µg/L	< 500	NA			
Disperse Orange 11	82-28-0	< 500	µg/L	< 500	NA			

Disperse Dyes (Allergenic)

286-AT-L0085 Issue 1.0 2022

Disperse Blue 102	12222-97-8	< 50	µg/L	< 50	NA			
Disperse Blue 106	12223-01-07	< 50	µg/L	< 50	NA			
Disperse Blue 124	61951-51-7	< 50	µg/L	< 50	NA			
Disperse Blue 26	3860-63-7	< 50	µg/L	< 50	NA			
Disperse Blue 35	12222-75-2	< 50	µg/L	< 50	NA			
Disperse Blue 7	3179-90-6	< 50	µg/L	< 50	NA			
Disperse Brown 1	23355-64-8	< 50	µg/L	< 50	NA			
Disperse Orange 1	2581-69-3	< 50	µg/L	< 50	NA			



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	CAS No.	limit	udm	Untreated	Effluent			
Disperse Orange 3	730-40-5	< 50	µg/L	< 50	NA			
Disperse Orange 37/59/76	13301-61-6	< 50	µg/L	< 50	NA			
Disperse Red 1	2872-52-8	< 50	µg/L	< 50	NA			
Disperse Red 11	2872-48-2	< 50	µg/L	< 50	NA			
Disperse Red 17	3179-89-3	< 50	µg/L	< 50	NA			
Disperse Yellow 1	119-15-3	< 50	µg/L	< 50	NA			
Disperse Yellow 3	2832-40-8	< 50	µg/L	< 50	NA			
Disperse Yellow 39	12236-29-2	< 50	µg/L	< 50	NA			
Disperse Yellow 49	54824-37-2	< 50	µg/L	< 50	NA			
Disperse Yellow 9	6373-73-5	< 50	µg/L	< 50	NA			
Disperse Blue 35a	56524-77-7	< 50	µg/L	< 50	NA			

note: CAS Number of the mixture 12222-75-2, is the sum of the components Disperse Blue 35A (CAS 56524-77-7) and Disperse Blue 35B (CAS 56524-76-6).

Determination of Navy Blue

286-AT-L0085 Issue 1.0 2022

Navy Blue (Component 1)	118685-33-9	< 500	µg/L	< 500	NA			
Navy Blue (Component 2)	-	< 500	µg/L	< 500	NA			

Flame Retardants

286-AT-L0072 Issue 1.0 2022

BBMP	3296-90-0	< 25	µg/L	< 25	NA			
BIS	5412-25-9	< 25	µg/L	< 25	NA			
DecaBDE	1163-19-5	< 25	µg/L	< 25	NA			
HBCDD	3194-55-6	< 25	µg/L	< 25	NA			
OctaBDE	32536-52-0	< 25	µg/L	< 25	NA			
PentaBDE	32534-81-9	< 25	µg/L	< 25	NA			
PBB	59536-65-1	< 25	µg/L	< 25	NA			
TBBPA	79-94-7	< 25	µg/L	< 25	NA			
TCCP	13674-84-5	< 25	µg/L	< 25	NA			
TEPA	545-55-1	< 25	µg/L	< 25	NA			
TDCP	13674-87-8	< 25	µg/L	< 25	NA			
TCEP	115-96-8	< 25	µg/L	< 25	NA			
TRIS	126-72-7	< 25	µg/L	< 25	NA			
DecaBB	13654-09-6	< 25	µg/L	< 25	NA			
DiBB	Multiple	< 25	µg/L	< 25	NA			
OctaBB	Multiple	< 25	µg/L	< 25	NA			



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	CAS No.	limit	udm	Untreated	Effluent			
BDDP	21850-44-2	< 25	µg/L	< 25	NA			
HeptaBDE	68928-80-3	< 25	µg/L	< 25	NA			
HexaBDE	36483-60-0	< 25	µg/L	< 25	NA			
MonoBB	Multiple	< 25	µg/L	< 25	NA			
MonoBDE	Multiple	< 25	µg/L	< 25	NA			
NonaBB	Multiple	< 25	µg/L	< 25	NA			
NonaBDE	63936-56-1	< 25	µg/L	< 25	NA			
TetraBDE	40088-47-9	< 25	µg/L	< 25	NA			
TriBDE	Multiple	< 25	µg/L	< 25	NA			

*** Flame Retardants**

ISO 17294-2:2023

Boric Acid	10043-35-3/11113-50-1	< 100	µg/L	607	NA			
Diboron Trioxide	1303-86-2	< 100	µg/L	342	NA			
Disodium Octaborate	12008-41-2	< 100	µg/L	418	NA			
Disodium Tetraborate Anhydrous	1303-96-4/1330-43-4	< 100	µg/L	493	NA			
Tetraboron Disodium Heptaoxide, hydrate	12267-73-1	< 100	µg/L	538	NA			

note: Determinated as total boron (B) via ICP

Glycols

286-AT-L0073 Issue 1.0 2022

Bis(2-methoxyethyl)-ether	111-96-6	< 50	µg/L	< 50	NA			
2-ethoxyethanol	110-80-5	< 50	µg/L	< 50	NA			
2-ethoxyethyl acetate	111-15-9	< 50	µg/L	< 50	NA			
Ethylene glycol dimethyl ether	110-71-4	< 50	µg/L	< 50	NA			
2-methoxyethanol	109-86-4	< 50	µg/L	< 50	NA			
2-methoxyethylacetate	110-49-6	< 50	µg/L	< 50	NA			
2-methoxypropylacetate	70657-70-4	< 50	µg/L	< 50	NA			
Triethylene glycol dimethyl ether	112-49-2	< 50	µg/L	< 50	NA			

Halogenated Solvents

286-AT-L0074 Issue 1.0 2022

1,2-Dichloroethane	107-06-2	< 1,0	µg/L	< 1,0	NA			
Methylene chloride	75-09-2	< 1,0	µg/L	< 1,0	NA			
Trichloroethylene	79-01-6	< 1,0	µg/L	< 1,0	NA			
Tetrachloroethylene	127-18-4	< 1,0	µg/L	< 1,0	NA			



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	CAS No.	limit	udm	Untreated	Effluent			
Organotin Compounds ISO 17353:2004								
DPrT	Multiple	< 0,01	µg/L	< 0,01	NA			
Mono-, di-, tri-butyltin derivates	Multiple	< 0,01	µg/L	< 0,01	NA			
Mono-, di-, tri-methyltin derivates	Multiple	< 0,01	µg/L	< 0,01	NA			
Mono-, di-, tri-octyltin derivates	Multiple	< 0,01	µg/L	0,013	NA			
Mono-, di-, tri-phenyltin derivates	Multiple	< 0,01	µg/L	< 0,01	NA			
TeBT	Multiple	< 0,01	µg/L	< 0,01	NA			
TPrT	Multiple	< 0,01	µg/L	< 0,01	NA			
TeOT	Multiple	< 0,01	µg/L	< 0,01	NA			
TCyHT	Multiple	< 0,01	µg/L	< 0,01	NA			
TeET	Multiple	< 0,01	µg/L	< 0,01	NA			
DBT	1002-53-5	< 0,01	µg/L	< 0,01	NA			

Other/Miscellaneous Chemicals: AEEA [2-(2-aminoethylamino) ethanol]

286-AT-L0086 Issue 1.0 2022

AEEA [2-(2-aminoethylamino) ethanol]	111-41-1	< 500	µg/L	< 500	NA			
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Other/Miscellaneous Chemicals: Bisphenol A (BPA)

286-AT-L0087 Issue 1.0 2022

Bisphenol A	80-05-07	< 10	µg/L	< 10	NA			
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Other/Miscellaneous Chemicals: Thiourea

286-AT-L0088 Issue 1.0 2022

Thiourea	62-56-6	< 50	µg/L	< 50	NA			
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Other/Miscellaneous Chemicals: Quinoline

286-AT-L0085 Issue 1.0 2022

Quinoline	91-22-5	< 50	µg/L	< 50	NA			
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*** Other/Miscellaneous Chemicals: Borate, Zinc salt**

ISO 17294-2:2023

Borate, Zinc salt	12767-90-7	< 100	µg/L	352	NA			
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note: Determinated as total boron (B) and total zinc (Zn) via ICP

Perfluorinated and Polyfluorinated Chemicals (PFCs)

ISO 21675:2019 + 286-AT-L0082 Issue 1.0 2022

PFOS	1763-23-1	< 0,01	µg/L	< 0,01	NA			
PFOA	335-67-1	< 0,01	µg/L	< 0,01	NA			
PFBS	375-73-5	< 0,01	µg/L	< 0,01	NA			
PFHpS	375-92-8	< 0,01	µg/L	< 0,01	NA			
PFDS/PFDcS	335-77-3/126105-34-8	< 0,01	µg/L	< 0,01	NA			
1H,1H,2H,2H-PFOS	27619-97-2	< 0,01	µg/L	< 0,01	NA			



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PFHxS	355-46-4	< 0,01	µg/L	< 0,01	NA			
PFBA	375-22-4	< 1,0	µg/L	< 1,0	NA			
PFPA	2706-90-3	< 1,0	µg/L	< 1,0	NA			
PFHxA	307-24-4	< 1,0	µg/L	< 1,0	NA			
PFHpA	375-85-9	< 1,0	µg/L	< 1,0	NA			
PFNA	375-95-1	< 1,0	µg/L	< 1,0	NA			
PFDA/PFDcA	335-76-2	< 1,0	µg/L	< 1,0	NA			
PFUnA	2058-94-8	< 1,0	µg/L	< 1,0	NA			
PFDcA	307-55-1	< 1,0	µg/L	< 1,0	NA			
PFTeA	376-06-7	< 1,0	µg/L	< 1,0	NA			
HPFHpA	1546-95-8	< 1,0	µg/L	< 1,0	NA			
PF-3,7-DMOA	172155-07-6	< 1,0	µg/L	< 1,0	NA			
H2PFDA	27854-31-5	< 1,0	µg/L	< 1,0	NA			
6:2 FTA	17527-29-6	< 1,0	µg/L	< 1,0	NA			
8:2 FTA	27905-45-9	< 1,0	µg/L	< 1,0	NA			
10:2 FTA	17741-60-5	< 1,0	µg/L	< 1,0	NA			
4:2 FTOH	2043-47-2	< 1,0	µg/L	< 1,0	NA			
6:2 FTOH	647-42-7	< 1,0	µg/L	< 1,0	NA			
8:2 FTOH	678-39-7	< 1,0	µg/L	< 1,0	NA			
10:2 FTOH	865-86-1	< 1,0	µg/L	< 1,0	NA			

Phthalates

286-AT-L0089 Issue 1.0 2022

DEHP	117-81-7	< 10	µg/L	28,5	NA			
BBP	85-68-7	< 10	µg/L	< 10	NA			
DBP	84-74-2	< 10	µg/L	< 10	NA			
DEP	84-66-2	< 10	µg/L	< 10	NA			
DNOP	117-84-0	< 10	µg/L	< 10	NA			
DINP	28553-12-0	< 10	µg/L	30	NA			
DIDP	26761-40-0	< 10	µg/L	< 10	NA			
DIBP	84-69-5	< 10	µg/L	< 10	NA			
DnHP	84-75-3	< 10	µg/L	< 10	NA			
DMEP	117-82-8	< 10	µg/L	< 10	NA			
DPRP	131-16-8	< 10	µg/L	< 10	NA			
DIOP	27554-26-3	< 10	µg/L	< 10	NA			



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	CAS No.	limit	udm	Untreated	Effluent			
DCHP	84-61-7	< 10	µg/L	< 10	NA			
DNP	84-76-4	< 10	µg/L	< 10	NA			
DHNUP	68515-42-4/68515-50-4	< 10	µg/L	< 10	NA			
DIHP	71888-89-6/84777-06-0	< 10	µg/L	< 10	NA			
DPP	131-18-0	< 10	µg/L	< 10	NA			
DIPP	605-50-5	< 10	µg/L	< 10	NA			

**Polycyclic Aromatic Hydrocarbons (PAH)
ISO 28540:2011**

Benzo(a)pyrene	50-32-8	< 1,0	µg/L	< 1,0	NA			
Benzo(e)pyrene	192-97-2	< 1,0	µg/L	< 1,0	NA			
Benzo(a)anthracene	56-55-3	< 1,0	µg/L	< 1,0	NA			
Benzo(b)fluoranthene	205-99-2	< 1,0	µg/L	< 1,0	NA			
Benzo(j)fluoranthene	205-82-3	< 1,0	µg/L	< 1,0	NA			
Benzo(k)fluoranthene	207-08-9	< 1,0	µg/L	< 1,0	NA			
Chrysene	218-01-9	< 1,0	µg/L	< 1,0	NA			
Dibenzo(a,h)anthracene	53-70-3	< 1,0	µg/L	< 1,0	NA			
Acenaphthene	83-32-9	< 1,0	µg/L	< 1,0	NA			
Acenaphthylene	208-96-8	< 1,0	µg/L	< 1,0	NA			
Anthracene	120-12-7	< 1,0	µg/L	< 1,0	NA			
Benzo(g,h,i)perylene	191-24-2	< 1,0	µg/L	< 1,0	NA			
Fluoranthene	206-44-0	< 1,0	µg/L	< 1,0	NA			
Fluorene	86-73-7	< 1,0	µg/L	< 1,0	NA			
Indeno(1,2,3-cd)pyrene	193-39-5	< 1,0	µg/L	< 1,0	NA			
Naphthalene	91-20-3	< 1,0	µg/L	< 1,0	NA			
Phenanthrene	85-01-8	< 1,0	µg/L	< 1,0	NA			
Pyrene	129-00-0	< 1,0	µg/L	< 1,0	NA			

Aromatic Amines

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4-Aminobiphenyl	92-67-1	< 0,1	µg/L	< 0,1	NA			
Benzidine	92-87-5	< 0,1	µg/L	< 0,1	NA			
4-Chloro-o-Toluidine	95-69-2	< 0,1	µg/L	< 0,1	NA			
2-Naphthylamine	91-59-8	< 0,1	µg/L	< 0,1	NA			
o-Aminoazotoluene	97-56-3	< 0,1	µg/L	< 0,1	NA			
5-Nitro-o-Toluidine	99-55-8	< 0,1	µg/L	< 0,1	NA			
4-Chloroaniline	106-47-8	< 0,1	µg/L	< 0,1	NA			



LAB N° 0302 L

TEST REPORT: 23.46790a dated 20 February 2024

	CAS No.	limit	udm	Untreated	Effluent			
2,4-Diaminoanisole	615-05-4	< 0,1	µg/L	< 0,1	NA			
4,4-Diaminodiphenylmethane	101-77-9	< 0,1	µg/L	< 0,1	NA			
3,3'-Dichlorobenzidine	91-94-1	< 0,1	µg/L	< 0,1	NA			
3,3-Dimethoxybenzidine	119-90-4	< 0,1	µg/L	< 0,1	NA			
3,3-Dimethylbenzidine	119-93-7	< 0,1	µg/L	< 0,1	NA			
3,3-dimethyl-4,4-diaminodiphenylmethane	838-88-0	< 0,1	µg/L	< 0,1	NA			
p-Cresidine	120-71-8	< 0,1	µg/L	< 0,1	NA			
4,4-methylenebis(2-chloroaniline)	101-14-4	< 0,1	µg/L	< 0,1	NA			
4,4'-Oxydianiline	101-80-4	< 0,1	µg/L	< 0,1	NA			
4,4'-Thiodianiline	139-65-1	< 0,1	µg/L	< 0,1	NA			
o-Toluidine	95-53-4	< 0,1	µg/L	< 0,1	NA			
2,4-Toluendiamine	95-80-7	< 0,1	µg/L	< 0,1	NA			
2,4,5-Trimethylaniline	137-17-7	< 0,1	µg/L	< 0,1	NA			
o-Anisidine	90-04-0	< 0,1	µg/L	< 0,1	NA			
4-aminoazobenzene	60-09-3	< 0,1	µg/L	< 0,1	NA			
2,4-Xylidine	95-68-1	< 0,1	µg/L	< 0,1	NA			
2,6-Xylidine	87-62-7	< 0,1	µg/L	< 0,1	NA			
4-Chloro-o-toluidinium chloride	3165-93-3	< 0,1	µg/L	< 0,1	NA			
2-Naphtylammoniumacetate	553-00-4	< 0,1	µg/L	< 0,1	NA			
2,4-Diaminoanisole sulphate	39156-41-7	< 0,1	µg/L	< 0,1	NA			
2,4,5-Trimethylaniline hydrochloride	21436-97-5	< 0,1	µg/L	< 0,1	NA			

UV Absorbers

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UV-320	3846-71-7	< 100	µg/L	< 100	NA			
UV-328	25973-55-1	< 100	µg/L	< 100	NA			
UV-327	3864-99-1	< 100	µg/L	< 100	NA			
UV-350	36437-37-3	< 100	µg/L	< 100	NA			

Volatile Organic Compounds (VOC)

ISO 11423-1:1997

Benzene	71-43-2	< 1,0	µg/L	< 1,0	NA			
Xylene	1330-20-7	< 1,0	µg/L	< 1,0	NA			
o-cresol	95-48-7	< 1,0	µg/L	< 1,0	NA			
p-cresol	106-44-5	< 1,0	µg/L	< 1,0	NA			
m-cresol	108-39-4	< 1,0	µg/L	< 1,0	NA			



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**TEST REPORT: 23.46790a dated 20 February 2024**

	CAS No.	limit	udm	Untreated	Effluent			
Toluene	108-88-3	< 1,0	µg/L	< 1,0	NA			

Cr (VI) - Hexavalent Chromium
ISO 18412:2005

Chromium VI	18540-29-9	< 0,001	mg/L	NA	< 0,001			
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Metals
ISO 17294-2:2023

Arsenic (As)	7440-38-2	< 0,005	mg/L	NA	< 0,005			
Cadmium (Cd)	7440-43-9	< 0,01	mg/L	NA	< 0,01			
Lead (Pb)	7439-92-1	< 0,01	mg/L	NA	< 0,01			
Mercury (Hg)	7439-97-6	< 0,001	mg/L	NA	< 0,001			

(*) Test not accredited by ACCREDIA.

TEST REPORT: 23.46790a dated **20 February 2024**



Untreated



Effluent



23.46793



I I S G



LAB N° 0302 L

TEST REPORT: 23.46793

This report is composed by 8 pages, of which: 2 pages for the Summary
6 pages for the Report

Date in sample: 1 February 2024
Issue date: 21 February 2024

MANUFACTURER	Q18023	APPLICANT	Q18023
BENETTON SRB D.O.O. NIS		BENETTON SRB D.O.O. NIS	
Pantelejska broj 58		Pantelejska broj 58	
18000 Nis SERBIA		18000 Nis SERBIA	

SAMPLE DESCRIPTION (no. 778176)

SLUDGE - OLIMPIAS SRB D.O.O. NIS, Pantelejska broj 58 (18000) SERBIA

SLUDGE
SAMPLING LOCATION: FILTER PRESS
SAMPLING METHOD: SINGLE GRAB
DISPOSAL PATHWAY: B

Size Range: ADULTS (> 14) -





LAB N° 0302 L

I I S G



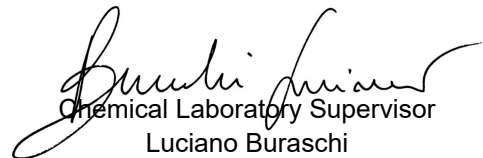
TEST REPORT: 23.46793

dated 21 Feb 2024

Test Name	Sludge				Comment
Metals	Detected				
Cr (VI) - Hexavalent Chromium	No Detected				
Determination of Cyanides					See results
pH					See results
Dry Mass (Total Solids)					See results
Faecal Coliform (MPN/mg/kg-Dry Weight)					See results
Alkylphenol and Alkylphenol Ethoxylates					See results
Polycyclic Aromatic Hydrocarbons (PAH)					See results
Chlorotoluenes					See results
Leachate Test - Metals					See results
Paint Filter Test					See results

NA = Not Applicable; NR = Not Required

Note: it is prohibited the partial reproduction, any changes or modifications of this test report. Sampling performed by the customer.
 Data contained in the first page of this document have been declared by the client, the laboratory is not responsible for the results that could be influenced by such data.
 Data related to the sample, have been provided by the customer.
 The results are exclusively referred to the samples tested as received by the laboratory unless otherwise specified.
 Conclusions/judgments are expressed with exclusive reference to parts detailed in the following pages and based on limits there specified.
 Recovery between 80-110% is not indicated on test reports and it is not considered in the final calculation.
 DECISION RULE: The declaration of conformity is given not taking into account the measurement uncertainty.
 Test not accredited by ACCREDIA are indicated with the symbol * in following pages.


 Chemical Laboratory Supervisor
 Luciano Buraschi



LAB N° 0302 L

TEST REPORT: 23.46793a dated 16 February 2024

	CAS No.	limit	udm	Sludge				
* Alkylphenol and Alkylphenol Ethoxylates								
According to ISO 18254-1								
Nonylphenol (NP)	104-40-5/11066-49-2/25154-52 -3/84852-15-3	< 0,4	mg/kg - Dry Weight	< 0,4				
Octylphenol (OP)	140-66-9/1806-26-4/27193-28-8	< 0,4	mg/kg - Dry Weight	< 0,4				
Octylphenol ethoxylates, (OPEO)	9002-93-1/9036-19-5/68987-90-6	< 0,4	mg/kg - Dry Weight	< 0,4				
Nonylphenol ethoxylates(NPEO)	9016-45-9/26027-38-3/37205-87 -1/68412-54-4/127087-87-0	< 0,4	mg/kg - Dry Weight	3,6				
* Metals								
ISO 17294-2:2023								
Antimony (Sb)	7440-36-0	< 5,0	mg/kg - Dry Weight	< 5,0				
Barium (Ba)	7440-39-3	< 200	mg/kg - Dry Weight	< 200				
Selenium (Se)	7782-49-2	< 5,0	mg/kg - Dry Weight	< 5,0				
Arsenic (As)	7440-38-2	< 5,0	mg/kg - Dry Weight	< 5,0				
Chromium (Cr)	7440-47-3	< 50	mg/kg - Dry Weight	171,5				
Cobalt (Co)	7440-48-4	< 400	mg/kg - Dry Weight	< 400				
Cadmium (Cd)	7440-43-9	< 1,0	mg/kg - Dry Weight	< 1,0				
Copper (Cu)	7440-50-8	< 50	mg/kg - Dry Weight	65,5				
Lead (Pb)	7439-92-1	< 5,0	mg/kg - Dry Weight	< 5,0				
Nickel (Ni)	7440-02-0	< 20	mg/kg - Dry Weight	< 20				
Silver (Ag)	7440-22-4	< 50	mg/kg - Dry Weight	< 50				
Zinc (Zn)	7440-66-6	< 400	mg/kg - Dry Weight	< 400				
Mercury (Hg)	7439-97-6	< 1,0	mg/kg - Dry Weight	< 1,0				



LAB N° 0302 L

TEST REPORT: 23.46793a dated 16 February 2024

	CAS No.	limit	udm	Sludge				
* Cr (VI) - Hexavalent Chromium ISO 18412:2005								
Chromium VI	18540-29-9	< 20	mg/kg - Dry Weight	< 20				
Determination of Cyanides ISO 6703-1:1984								
Cyanides		< 20	mg/kg - Dry Weight	< 20				
* pH EPA 9045D 2004								
pH	-		pH	8,00 at 23,6°C				
* Paint Filter Test EPA 9095B 2004								
Result	-		-	PASS				
* Dry Mass (Total Solids) According to ISO 4684:2005								
Dry Mass (Total Solids)	-		%	27,3				
* Faecal Coliform (MPN/mg/kg-Dry Weight) ISO 9308-1:2014								
Faecal Coliform (MPN/g-Dry Weight)			MPN/g	< 3				
* Polycyclic Aromatic Hydrocarbons (PAH) ISO 28540:2011								
Benzo(a)pyrene	50-32-8	< 0,2	mg/kg - Dry Weight	< 0,2				
Benzo(e)pyrene	192-97-2	< 0,2	mg/kg - Dry Weight	< 0,2				
Benzo(a)anthracene	56-55-3	< 0,2	mg/kg - Dry Weight	< 0,2				
Benzo(b)fluoranthene	205-99-2	< 0,2	mg/kg - Dry Weight	< 0,2				
Benzo(j)fluoranthene	205-82-3	< 0,2	mg/kg - Dry Weight	< 0,2				
Benzo(k)fluoranthene	207-08-9	< 0,2	mg/kg - Dry Weight	< 0,2				
Chrysene	218-01-9	< 0,2	mg/kg - Dry Weight	< 0,2				



TEST REPORT: 23.46793a dated 16 February 2024

	CAS No.	limit	udm	Sludge				
Dibenzo(a,h)anthracene	53-70-3	< 0,2	mg/kg - Dry Weight	< 0,2				
Acenaphthene	83-32-9	< 0,2	mg/kg - Dry Weight	< 0,2				
Acenaphthylene	208-96-8	< 0,2	mg/kg - Dry Weight	< 0,2				
Anthracene	120-12-7	< 0,2	mg/kg - Dry Weight	< 0,2				
Benzo(g,h,i)perylene	191-24-2	< 0,2	mg/kg - Dry Weight	< 0,2				
Fluoranthene	206-44-0	< 0,2	mg/kg - Dry Weight	< 0,2				
Fluorene	86-73-7	< 0,2	mg/kg - Dry Weight	< 0,2				
Indeno(1,2,3-cd)pyrene	193-39-5	< 0,2	mg/kg - Dry Weight	< 0,2				
Naphthalene	91-20-3	< 0,2	mg/kg - Dry Weight	< 0,2				
Phenanthrene	85-01-8	< 0,2	mg/kg - Dry Weight	< 0,2				
Pyrene	129-00-0	< 0,2	mg/kg - Dry Weight	< 0,2				

* Chlorotoluenes

According to EN 17137:2018

2-chlorotoluene	95-49-8	< 0,2	mg/kg - Dry Weight	< 0,2				
3-chlorotoluene	108-41-8	< 0,2	mg/kg - Dry Weight	< 0,2				
4-chlorotoluene	106-43-4	< 0,2	mg/kg - Dry Weight	< 0,2				
2,3-dichlorotoluene	32768-54-0	< 0,2	mg/kg - Dry Weight	< 0,2				
2,4-dichlorotoluene	95-73-8	< 0,2	mg/kg - Dry Weight	< 0,2				
2,5-dichlorotoluene	19398-61-9	< 0,2	mg/kg - Dry Weight	< 0,2				



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TEST REPORT: 23.46793a dated 16 February 2024

	CAS No.	limit	udm	Sludge				
2,6-dichlorotoluene	118-69-4	< 0,2	mg/kg - Dry Weight	< 0,2				
3,4-dichlorotoluene	95-75-0	< 0,2	mg/kg - Dry Weight	< 0,2				
3,5-dichlorotoluene	25186-47-4	< 0,2	mg/kg - Dry Weight	< 0,2				
2,3,4-trichlorotoluene	7359-72-0	< 0,2	mg/kg - Dry Weight	< 0,2				
2,3,6-trichlorotoluene	2077-46-5	< 0,2	mg/kg - Dry Weight	< 0,2				
2,4,5-trichlorotoluene	6639-30-1	< 0,2	mg/kg - Dry Weight	< 0,2				
2,4,6-trichlorotoluene	23749-65-7	< 0,2	mg/kg - Dry Weight	< 0,2				
3,4,5-trichlorotoluene	21472-86-6	< 0,2	mg/kg - Dry Weight	< 0,2				
2,3,4,5-tetrachlorotoluene	76057-12-0	< 0,2	mg/kg - Dry Weight	< 0,2				
2,3,5,6-tetrachlorotoluene	29733-70-8	< 0,2	mg/kg - Dry Weight	< 0,2				
2,3,4,6-tetrachlorotoluene	875-40-1	< 0,2	mg/kg - Dry Weight	< 0,2				
Pentachlorotoluene	877-11-2	< 0,2	mg/kg - Dry Weight	< 0,2				

*** Leachate Test - Metals**
ISO 17294-2:2023

Antimony (Sb)	7440-36-0	< 0,6	mg/L	< 0,6				
Barium (Ba)	7440-39-3	< 35	mg/L	< 35				
Selenium (Se)	7782-49-2	< 0,5	mg/L	< 0,5				
Arsenic (As)	7440-38-2	< 0,5	mg/L	< 0,5				
Chromium (Cr)	7440-47-3	< 5,0	mg/L	< 5,0				
Cobalt (Co)	7440-48-4	< 80	mg/L	< 80				
Cadmium (Cd)	7440-43-9	< 0,15	mg/L	< 0,15				
Copper (Cu)	7440-50-8	< 10	mg/L	< 10				
Lead (Pb)	7439-92-1	< 0,5	mg/L	< 0,5				
Nickel (Ni)	7440-02-0	< 3,5	mg/L	< 3,5				



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	CAS No.	limit	udm	Sludge				
Silver (Ag)	7440-22-4	< 5,0	mg/L	< 5,0				
Zinc (Zn)	7440-66-6	< 50	mg/L	< 50				
Mercury (Hg)	7439-97-6	< 0,05	mg/L	< 0,05				

(*) Test not accredited by ACCREDIA.

TEST REPORT: 23.46793a dated **16 February 2024**

