





YANKA LABORATORIES

CHEMISTRY TEST RESULTS

Domestic Water.
Class II is for information only
SANS 241:2015 / 2011 / 2006



LABORATORY NUMBER			SpOguru 1	SANS 241:2015 / 2011 / 2006						
SAMPLE DESCRIPTION			Waterfela Atmospheric Water Sample 1	SANS 241:2015 STANDARD LIMIT [Operational] [Aesthetic] [2011/other]	Class II (Max Allowance for Limited Duration) *2006	Class II Water Consumption Period, a max *2006	SEWAGE LIMIT GENERAL LIMIT	SEWAGE LIMIT SPECIAL LIMIT	Target WQ Guidelines	
SAMPLE NUMBER			E70846-001							
SAMPLED		Test Method **	2024/02/12 00:00							
Remarks			Clear							
Total Alkalinity (pH>4.5)	mg CaCO ₃ /L	YE010Alk	124							
Bicarbonate Alkalinity	mg CaCO ₃ /L	YE010Alk	124							
Carbonate Alkalinity	mg CaCO ₃ /L	YE010Alk	0,00							
M Alkalinity (8.3>pH>4.5)	mg CaCO ₃ /L	YE010Alk	124							
P Alkalinity (pH>8.3)	mg CaCO ₃ /L	YE010Alk	0,00							
Colour (True Colour, Filtered)	mg/l as Pt	ISO 7887 based	<2.86	< 15	20 - 50	No limit			< 15	
Conductivity (Laboratory)	mS/m	YE020CON	28,4	< 170	150 - 370	7 years	* < 70	* < 50	< 40	
pH (Laboratory)		YE030pH	8,29	5.0 - 9.7	4.0 - 10.0	No limit	5.5-9.5	5.5-7.5	6.5 - 8.5	
Total Hardness	mg CaCO ₃ /L	YE061H	27,1						< 50	
Calcium Hardness	mg CaCO ₃ /L	YE061H	12,1							
Magnesium Hardness	mg CaCO ₃ /L	YE061H	15,0							
Total Dissolved Solids (TDS)	mg/L	Calculation	161	< 1200	1000-2400	7 years			<450	
Temperature	°C	Thermometer	21,0							
Turbidity	NTU	YE082TB	<0.28	< 1	1 - 5	No limit			< 1	
Calcium	mg Ca/L	YE060ICP	4,84	< 150	150 - 300	7 years			< 32	
Chloride	mg Cl/L	YE070AK	4,92	< 300	200 - 600	7 years			<100	
Magnesium	mg Mg/L	YE060ICP	3,64	< 70	70 - 100	7 years			< 30	
Nitrate and Nitrite (TON)	mg N/L	YE070AK	0,82	< 12	10 - 20	7 years	< 15	<1.5	< 6	
Potassium	mg K/L	YE060ICP	56,3	< 50	50 - 100	7 years			< 50	
Sodium	mg Na/L	YE060ICP	12,9	< 200	200 - 400	7 years			< 70	
Sulphate	mg SO ₄ /L	YE070AK	<0.5	< 500	400 - 600	7 years			< 200	
Aluminium	mg Al/L	YE060ICP	<0.01	< 0.3	0.3 - 0.5	1 year			< 0.15	
Antimony	mg Sb/L	YE060ICP	<0.01	<0.02						
Arsenic	mg As/L	YE060ICP	<0.009	<0.01			<0.02	<0.01	<0.01	
Barium	mg Ba/L	YE060ICP	<0.01							
Boron	mg B/L	YE060ICP	<0.01	< 0.3			<1.0	<0.5	<0.5	
Cadmium	mg Cd/L	YE060ICP	<0.002	<0.003			<0.005	<0.001	<0.005	
Chromium	mg Cr/L	YE060ICP	<0.01	<0.05			<0.05	<0.02		
Copper	mg Cu/L	YE060ICP	<0.01	< 2			<0.01	<0.002	< 0.2	
Fluoride	mg F/L	YE070AK	<0.09	< 1.5	1.0 - 1.5	1 year	<1.0	<1.0	<1.0	
Iron	mg Fe/L	YE060ICP	<0.01	< 2	0.2 - 2.0	7 years	<0.3	<0.3	< 0.1	
Lead	mg Pb/L	YE060ICP	<0.01	< 0.01			< 0.01	<0.006	< 0.01	
Manganese	mg Mn/L	YE060ICP	<0.01	< 0.4	0.1 - 1.0	7 years	< 0.1	< 0.1	< 0.02	
Mercury	mg Hg/L	060ICP	<0.003	<0.006			<0.005	<0.001	<0.001	
Molybdenum	mg Mo/L	YE060ICP	<0.01	< 0.07						
Nickel	mg Ni/L	YE060ICP	<0.01	< 0.07					< 0.2	
Selenium	mg Se/L	YE060ICP	<0.01	< 0.04			< 0.02	< 0.02	< 0.02	
Zinc	mg Zn/L	YE060ICP	<0.01	< 5			<0.1	<0.04	< 1	
Langelier Index (indicative, not SANS)	Calculation		-0.42	-0.5 - 0.5	negative: water may corrode surfaces; positive: water may form scale on surfaces					
pHs (indicative, not SANS)	Calculation		8.71		Saturation pH (used in calculations)					
Sodium Absorption Ratio (indicative)	Calculation		1.07	< 1.5	Relevant in irrigation and					
TDS to EC Ratio (indicative, not SANS)	Calculation		5.66		Analytical indicator					
Corrosion Ratio (indicative, not SANS)	Calculation		0.11	0 - 0.3	A.k.a. Larson-Skold Index; >0.3: water may (>1.2 would) corrode surfaces due to					
Ryznar Index (indicative, not SANS)	Calculation		9.14	6 - 7	< 6: water may form scale on surfaces; > 7: water may corrode surfaces					
Anion Sum			2,68							
Cation Sum			2,55							
Difference			-0,13							
% Difference			-2,47%							

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SAMPLE DESCRIPTION		Waterfela Atmospheric Water Sample 1						
SAMPLE NUMBER		E70846-001						
SAMPLED	Test Method **	2024/02/12 00:00						

Methods adapted to accommodate local laboratory conditions.
 SM refers to the Standard Methods for the Examination of Water and Wastewater.
 Unless analysis is indicated as "Total", tests are performed on filtered samples as per ISO 11885.
 Ion balance is not used as QC check where pH<3.5.
 ** Methods Starting with YE are accredited, and based on ISO, SANS, and/or other national or international standards, please see <http://www.yanka.co.za/TestsAndStandards.htm> .
 For ranges, uncertainties, etc., please contact us.



YANKA LABORATORIES

MICROBIOLOGY TEST RESULTS



LABORATORY NUMBER			SpOguru 1	STANDARD LIMIT SANS 241:2015	ALLOWABLE COMPLIANCE CONTRIBUTION DOMESTIC USE 241:2006 Max Allowance 4% of	ALLOWABLE COMPLIANCE CONTRIBUTION DOMESTIC USE 241:2006 Max Allowance of 1% of	SEWAGE LIMIT GENERAL LIMIT	SEWAGE LIMIT SPECIAL LIMIT
SAMPLE DESCRIPTION			Waterfela Atmospheric Water Sample 1					
SAMPLE NUMBER			E70846-001					
SAMPLED	Test Method		2024/02/12 00:00					
Remarks			Clear					
Standard Plate Count or Heterotrophic Pl. Count	count/mL	YE100SPC / ISO 9308 based	>3000	< 1000	No Limit	Alert 5000		
Total Coliforms	CFU/100mL	YE101TC / ISO 9308 based	0	< 10	No Limit	Alert 10		
Faecal Coliforms	CFU/100mL	YE102FC / ISO 9308 based	0	0	0	1	<1000	0
e.Coli	CFU/100mL	YE104EC / ISO 9308 based	0	0	0	1	<1000	

Methods adapted to accommodate local laboratory conditions.

SM refers to the Standard Methods for the Examination of Water and Wastewater.

*** Methods Starting with YE are accredited. For ranges, uncertainties, etc., please contact us.*

Results are reported as 0 where no growth was detected.