

## Test Report

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**Client:** Witzenberg Municipality  
**Address:** 50 Voortrekker Street, Ceres, 6835  
**Report no:** 223534  
**Project:** Witzenberg Drinking Water

**Date of report:** 11 June 2025  
**Date accepted:** 02 June 2025  
**Date completed:** 11 June 2025  
**Date received:** 02 June 2025

Lab no:					Uncertainty of measure- ment %	SANS 241- 1:2015	260096
Date sampled:							02-Jun-25
Aquatico sampled:							Yes
Sample type:							Water
Locality description:							PAH Reservoir Final - Post Chlorination
Analyses				Unit	Method		
A	AQCL	pH @ 25°C	pH	ALM 20	2.33	5 - 9.7	6.04
A	AQCL	Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	4.92	< 170	4.19
A	AQCL	Total Dissolved solids @ 180°C	mg/l	ALM 24	9.42	< 1200	24
A	AQCL	Chloride (Cl)	mg/l	ALM 02	7.57	< 300	6.78
A	AQCL	Sulphate (SO <sub>4</sub> )	mg/l	ALM 03	8.45	< 500	<0.141
A	AQCL	Nitrate (NO <sub>3</sub> ) as N	mg/l	ALM 06	9.46	< 11	<0.194
A	AQCL	Nitrite (NO <sub>2</sub> ) as N	mg/l	ALM 07	7.73	< 0.9	<0.065
A	AQCL	Ammonium (NH <sub>4</sub> ) as N	mg/l	ALM 05	8.46	< 1.5	0.010
N	AQCL	Un-ionized Ammonia as N	mg/l	ALM 26			<0.005
A	AQCL	Fluoride (F)	mg/l	ALM 08	9.76	< 1.5	<0.263
A	AQCL	Acid Soluble Sodium (Na)	mg/l	ALMA 30	7.96	< 200	3.57
A	AQCL	Acid Soluble Aluminium (Al)	mg/l	ALMA 31	7.08	< 0.3	0.017
A	AQCL	Acid Soluble Iron (Fe)	mg/l	ALMA 31	7.16	< 0.3	0.017
A	AQCL	Acid Soluble Manganese (Mn)	mg/l	ALMA 31	6.34	< 0.1	0.002
A	AQL	Total Chromium (Cr)	mg/l	ALMT 31	7.37	< 0.05	<0.010
A	AQCL	Acid Soluble Copper (Cu)	mg/l	ALMA 31	5.15	< 2	<0.002
A	AQCL	Acid Soluble Nickel (Ni)	mg/l	ALMA 31	6.45	< 0.07	0.014
A	AQCL	Acid Soluble Zinc (Zn)	mg/l	ALMA 31	6.65	< 5	0.007
A	AQCL	Acid Soluble Cobalt (Co)	mg/l	ALMA 31	5.54		<0.003
A	AQCL	Acid Soluble Cadmium (Cd)	mg/l	ALMA 31	7.19	< 0.003	<0.002
A	AQCL	Acid Soluble Lead (Pb)	mg/l	ALMA 31	7.09	< 0.01	<0.004
A	AQCL	E.coli	CFU/100ml	ALM 40	7.74	0	<1
A	AQCL	Total coliform	CFU/100ml	ALM 40	7.76	< 10	<1
A	AQCL	Heterotrophic plate count	CFU/ml	ALM 45	2.22	< 1000	<1
A	AQCL	Turbidity	NTU	ALM 21	5.9	< 1	0.272

A = Accredited N = Not accredited Sub = Sub-contracted NR = Not requested RTF = Results to follow NATD = Not able to determine ATR = Alternative test report ; Results relate only to the items sampled and tested ; Results reported against the limit of detection; Results marked "Not SANAS Accredited" in this report are not covered by the Scope of Accreditation for this laboratory; Uncertainty of measurement available on request for all methods included in the SANAS Schedule of Accreditation; The report shall not be reproduced except in full without approval of the laboratory

AQL = Aquatico Laboratories ; AQCL = Aquatico Cape Laboratories

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Analyses				Unit	Method		
N	AQCL	Total Chlorine (Cl <sub>2</sub> )	mg/l	ALM 23	5.94		0.76
A	AQCL	Free chlorine (Cl <sub>2</sub> )	mg/l	ALM 23	5.94	< 5	0.76
A	AQCL	True Colour	mg/l Pt-Co	ALM 22	8.74	< 15	<5.00
A	AQL	Total Cyanide (CN)	mg/l	ALM 16	10.36	< 0.2	<0.005
N	AQL	Phenol	mg/l	ALM 71		< 0.01	<0.01
A	AQL	Total organic carbon (TOC)	mg/l	ALM 63	6.46	< 10	2.85
A	AQCL	Acid Soluble Arsenic (As)	mg/l	ALMA 34	10.93	< 0.01	<0.006
A	AQCL	Acid Soluble Selenium (Se)	mg/l	ALMA 34	11.42	< 0.04	<0.002
A	AQCL	Acid Soluble Mercury (Hg)	mg/l	ALMA 34		< 0.006	<0.005
A	AQCL	Acid Soluble Boron (B)	mg/l	ALMA 33	8.93	< 2.4	<0.013
A	AQCL	Acid Soluble Barium (Ba)	mg/l	ALMA 33	6.13	< 0.7	0.010
A	AQCL	Acid Soluble Uranium (U)	mg/l	ALMA 37	10.98	< 0.03	<0.015
A	AQCL	Acid Soluble Antimony (Sb)	mg/l	ALMA 36	6.19	< 0.02	<0.001
A	AQL	Trihalomethanes (THM)	µg/l	OLM 02	12.24		13
A	AQL	Bromoform	µg/l	OLM 02	11.28	< 100	<2
A	AQL	Chloroform	µg/l	OLM 02	13.73	< 300	8
A	AQL	Dibromochloromethane	µg/l	OLM 02	11.83	< 100	<2
A	AQL	Bromodichloromethane	µg/l	OLM 02	12.11	< 60	5
A	AQL	Combined Bromoform	ratio	OLM 02			<0.020
A	AQL	Combined Chloroform	ratio	OLM 02			0.028
A	AQL	Combined Dibromochloromethane	ratio	OLM 02			<0.020
A	AQL	Combined Bromodichloromethane	ratio	OLM 02			0.078
A	AQL	THM Sum of rations	ratio	OLM 02		< 1	0.106
N	AQCL	Monochloramine	mg/l	ALM 67		< 3	0.14
N	AQL	Microcystin	µg/l	ALM 68		< 1	<0.5

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Sample type:							Water
Locality description:							PAH Reservoir Final - Post Chlorination
Analyses				Unit	Method		
N	AQL	Combined Nitrate plus Nitrite		ratio	ALM 26		< 1
A	AQL	HNO3-Microwave digestion		mg/l	ALM 90		<1.00
							Yes

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## TEST REPORT

### Water

#### Aquatico Cape Laboratories (Pty) Ltd

Attn: Ian Belford

Unit 1, Ground Floor  
Somerset West  
Block H, The Grove Business Park  
7130  
+27636804788



@VinlabSA

#### Sample Details

SampleID	W64259				
Water Type	Not indicated				
Water Source					
Sample Temperature					
Description	PAH Reservoir Final - Post Chlorination				
Batch Number					
PO Number	AQCL 2025 5				
Date Received	2025-06-04				
Condition	Good				

#### Water - Micro

	Unit	Method	Uncertainty	Limits	Results	Results	Results	Results	Results
Cryptosporidium	per 10L	VIN-05-MW12			nd				
Giardia	per 10L	VIN-05-MW13			nd				
Somatic coliphages (Water)*	pfu/100mL				nd				
Date Tested					2025-06-05				

#### Comments

W64259  
Two Samples received,

Alanah Hartzer  
Senior Analyst

VIN-05-M01, M02, M04, M05, M08, M10,  
M28, M40, M48, M49, M50, M51, M52,  
M53, M54, M55, MW01, MW02, MW03,  
MW04, MW08, MW09, MW10, MW12,  
MW13, MW14, MW43

Please click [here](#) for SANS241-1:2015 drinking water limits

Test results relate only to the items tested as received. This Document shall not be reproduced without the written approval of Vinlab (Pty) Ltd. Opinions and interpretations expressed herein are outside the scope of SANAS accreditation. Results for methods VIN-05-MW12, 13 and 14, are based on Cq values, a positive result (detected) indicates a Cq value <35 and a negative result (non-detected) indicates a Cq value of >35.

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Vinlab is not liable to any client for any loss or damages suffered which could, directly or remotely, be linked to our services. Alcohol results are obtained using the most appropriate or a combination of one of the following methods: Py= pycnometer; W=winescan; Al=alcolyzer. W = Winescan. Micro results: Enumeration of yeast: WL nutrient, 3 days unless otherwise specified, 30°C. Samples that have had prior microbiological spoilage or treatment for spoilage should always be sterile filtered at bottling. SO2 additions less than 10 days may depress the growth of microbes in culture although they are viable/active in the wine. Some microbes, especially lactobacilli, may not grow in culture even where viable/potentially active in the wine.

^ - Conductivity <1000mS/m = ±1mS/m, >1000mS/m = ±9mS/m  
^^ - COD, LR = ±16mg/L, MR = ±48mg/L, HR = ±477mg/L  
^^^ - pH ± 0.1