



Consulting Analytical & Industrial Chemists
Specialists in Water & Waste Water Treatment
Telephone (021)448 6340/1
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e-Mail Address :
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T0276

Doc.No. 7.8 # 1 Rev.4

No. 1, Vine Park
Vine Road
7925
P.O. Box 483
WOODSTOCK, CAPE
7915

Certificate of Analysis

WITZENBERG MUNICIPALITY : BID 08/2/12/30&32

Witzenberg Municipality Reticulation Waters

22 : Water Treatment Works. Final ex Tulbagh

DATE SAMPLED : 2022/10/05

DATE RECEIVED : 2022/10/06

DATE ANALYSIS

COMMENCED : 2022/10/06

OUR REF. : 2022/10/05/31683

REPORT NO. : 6203

	Sample Number	31683		
Mthd ALA No.	Analyses	Results	SANS 241-1:2015	% Uncertainty of Measurement
19	pH (at 25 °C)	6.19	≥5 - ≤ 9.7 Operational	1.5
9	Conductivity (mS/m) (at 25 °C)	11.9	≤170 Aesthetic	4.5
27	Turbidity (NTU)	3.1	≤1 Operational : ≤5 Aesthetic	11
97	Colour (mg/l as Pt)	<4	≤15 Aesthetic	22
7	Total Dissolved Solids (mg/l)	70	≤1200 Aesthetic	-
92a	Iron (µg/l as Fe)	59	≤300 Aesthetic ≤2000 Chronic Health	4.9
92a	Manganese (µg/l as Mn)	<20	≤100 Aesthetic ≤400 Chronic Health	5.6
92	Aluminium (µg/l as Al)	<40	≤300 Operational	3.8
66	Free Chlorine (mg/l)	2.0	≤5 Chronic Health	-
66	Total Chlorine (mg/l)	2.2	N/A	-
84	E.coli (count per 100 ml)	<1	Not Detected	4.9
85	Total Coliform Bacteria (count per 100 ml)	<1	≤10 Operational	4.2
88	Heterotrophic Plate Count (count per ml)	1	≤1000 Operational	5.1

Notes:

- Test marked with an asterisk (*) on attached Appendix 1 (Doc. 7.8#3) are SANAS Accredited and are included in the SANAS Schedule of Accreditation for this laboratory.
- Schedule of Accreditation excludes sampling. Where applicable pH and Free & Total Chlorine Residual results are supplied by the sampling officer and will be indicated on the Certificate of Analysis. This is marked as "Field".
- Sampling plans are as requested by the customer. Sampling is done according to A.L. Abbott and Associates (Pty) Ltd sampling procedures which are available on request.
- Uncertainty of Measurement and Method Description will be provided upon request.
- Results are reported at the 95% Confidence Interval with a Coverage Factor K = 2.
- The laboratory does not normally issue any statement of conformity, unless by prior arrangement.
Decision Rule: Results reflecting on the Certificate of Analysis are actual results as obtained at the time of testing and do not include any uncertainty consideration.
- The quality and integrity of samples submitted has a direct correlation on the results reported. Results reflected on this report therefore relate only to the sample as received.
- In the absence of customer specified limits, SANS 241-1:2015 or General Limits will appear, as applicable.
- This report may not be reproduced, except in full, without the prior written approval of the laboratory.
- Opinions and interpretations are not included in the Certificate of Analysis.

Sampler : M. Van Rhyn (ALA)

This report relates only to the samples tested and is issued subject to the company's standard terms and conditions of business.



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N. VAN BINSBERGEN (Pr.Sci.Nat.)
DIRECTOR
17 October 2022

TO: WITZENBERG MUNICIPALITY
P O Box 44
CERES
6835

Att: S. FARMER