A. L. ABBOTT & ASSOCIATES (PTY) LTD
Reg. No. 1982/004379/07 Established 1964
THE WATER & WASTE WATER SPECIALISTS

Consulting Analytical & Industrial Chemists
Specialists in Water & Waste Water Treatment
Telephone (021)448 6340/1
After Hours (083-3263887)
e-Mail Address :
info@alabbott.co.za

T0276

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

1 : Reservoir, Final, Post-Chlorination ex Ceres

DATE SAMPLED : 2021/05/12
DATE RECEIVED : 2021/05/13
DATE ANALYSIS COMMENCED : 2021/05/13

OUR REF. : 2021/05/12/12665
REPORT NO . : 2615

	Sample Number	12665		
Mthd ALA No.	**Analyses**	**Results**	**SANS 241-1:2015**	**% Uncertainty of Measurement**
19	pH (at 25 °C)	7.22	≥5 - ≤ 9.7 Operational	1.5
9	Conductivity (mS/m) (at 25 °C)	5.0	≤170 Aesthetic	4.5
27	Turbidity (NTU)	1.3	≤1 Operational : ≤5 Aesthetic	11
97	Colour (mg/l as Pt)	<4	≤15 Aesthetic	22
7	Total Dissolved Solids (mg/l)	30	≤1200 Aesthetic	-
92a	Iron (µg/l as Fe)	173	≤300 Aesthetic ≤2000 Chronic Health	4.9
92a	Manganese (µg/l as Mn)	<20	≤100 Aesthetic ≤400 Chronic Health	5.6
92a	Aluminium (µg/l as Al)	<40	≤300 Operational	4.9
66	Free Chlorine (mg/l)	0.68	≤5 Chronic Health	-
66	Total Chlorine (mg/l)	0.76	N/A	-
84	E.coli (count per 100 ml)	<1	Not Detected	0.11
85	Total Coliform Bacteria (count per 100 ml)	<1	≤10 Operational	0.21
88	Heterotrophic Plate Count (count per ml)	<1	≤1000 Operational	0.15

Notes:
1. 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.
2. 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".
3. 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.
4. Uncertainty of Measurement and Method Description will be provided upon request.
5. Results are reported at the 95% Confidence Interval with a Coverage Factor K = 2.
6. 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.
7. 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.
8. In the absence of customer specified limits, SANS 241-1:2015 or General Limits will appear, as applicable.
9. This report may not be reproduced, except in full, without the prior written approval of the laboratory.
10. 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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José Luis da Silva
Digitally signed by José Luis da Silva
Date: 2021.05.20 11:43:27 +02'00'

J.L. DA SILVA (Cert.Sci.Nat.)
TECHNICAL MANAGER
19 May 2021

TO: WITZENBERG MUNICPALITY
P O Box 44
CERES
6835

Att: S. FARMER

Sampler : M.Van Rhyn (ALA)

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