



Consulting Analytical & Industrial Chemists
 Specialists in Water & Waste Water Treatment
 Telephone (021)448 6340/1
 After Hours (083-3263887)
 e-Mail Address :
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T0276

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

Certificate of Analysis

PLETTENBERG BAY MUNICIPALITY

ANALYSES

KURLAND WTW-FINAL

DATE SAMPLED : 2022/07/01

REVISED

DATE RECEIVED : 2022/07/01

OUR REF. : 2022/07/01/18651

DATE ANALYSIS

2022/07/01

REPORT NO. : 3850

COMMENCED :

	Sample Number	18651		
Mthd ALA No.	Analyses	Results	SANS 241-1:2015	% Uncertainty of Measurement
97	Colour (mg/l as Pt)	<4	≤15 Aesthetic	22
9	Conductivity (mS/m) (at 25 °C)	15.2	≤170 Aesthetic	4.5
7	Total Dissolved Solids (mg/l)	102	≤1200 Aesthetic	-
19	pH (at 25 °C)	9.06	≥5 - ≤ 9.7 Operational	1.5
Calc	Nitrate Nitrogen (mg/l as N)	<0.20	≤11 Acute Health	3.4
99	Nitrite Nitrogen (mg/l as N)	<0.20	≤0.9 Acute Health	4
100	Nitrate & Nitrite Nitrogen (mg/l as N)	<0.20	≤12 Acute Health	10.2
N/A	Combined Nitrate plus Nitrite (mg/l as N)	0.22	≤1.0	-
102	Sulphate (mg/l as SO ₄)	7.2	≤250 Aesthetic ≤500 Acute Health	8.3
98	Fluoride (mg/l as F)	<0.50	≤1.5 Chronic Health	4.4
95	Ammonia Nitrogen (mg/l as N)	<0.10	≤1.5 Aesthetic	5.2
96	Chloride (mg/l as Cl)	24.4	≤300 Aesthetic	10
92	Sodium (mg/l as Na)	8.1	≤200 Aesthetic	2.6
92	Zinc (mg/l as Zn)	<0.01	≤5 Aesthetic	6.8
92	Antimony (µg/l as Sb)	<20	≤20 Chronic Health	6.7
92	Arsenic (µg/l as As)	<10	≤10 Chronic Health	4.8
92	Barium (µg/l as Ba)	<20	≤700 Chronic Health	3.5
47	Boron (mg/l as B)	<0.10	≤2.4 Chronic Health	-
92	Cadmium (µg/l as Cd)	<1	≤3 Chronic Health	3.6
92	Total Chromium (µg/l as Cr)	<20	≤50 Chronic Health	4.3

Sampler: CUSTOMER

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92	Copper (µg/l as Cu)	<20	≤2000 Chronic Health	3.7
51	Cyanide (µg/l as CN-)	<20	≤200 Acute Health	-
92	Lead (µg/l as Pb)	<10	≤10 Chronic Health	4.5
92	Manganese (µg/l as Mn)	<20	≤100 Aesthetic ≤400 Chronic Health	4.2
92	Mercury (µg/l as Hg)	<5	≤6 Chronic Health	-
92	Nickel (µg/l as Ni)	<20	≤70 Chronic Health	4
92	Selenium (µg/l as Se)	<10	≤40 Chronic Health	4
92	Uranium (µg/l as U)	<15	≤30 Chronic Health	-
92	Aluminium (µg/l as Al)	104	≤300 Operational	3.8
105	Total Organic Carbon (mg/l as C)	0.48	≤10 Chronic Health	0.07
N/A	Total Microcystin (µg/l)	<0.15	≤1	-
45	Phenols (mg/l)	<0.01	≤0.01 Aesthetic	-
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
66	Free Chlorine (mg/l)	<0.05	≤5 Chronic Health	-
N/A	Monochloramine (mg/l)	<0.05	≤3 Chronic Health	-
N/A	Trihalomethane (Bromodichloromethane) (µg/l)	<10.0	≤60 Chronic Health	-
N/A	Trihalomethane (Bromoform) (µg/l)	<10.0	≤100 Chronic Health	-
N/A	Trihalomethane (Chloroform) (µg/l)	<10.0	≤300 Chronic Health	-
N/A	Trihalomethane (Dibromochloromethane) (µg/l)	<10.0	≤100 Chronic Health	-
N/A	Combined Trihalomethanes (µg/l)	<0.40	≤1.0	-

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92	Iron (µg/l as Fe)	70	≤300 Aesthetic ≤2000 Chronic Health	5.1

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.

N. VAN BINSBERGEN (Pr.Sci.Nat.)
 DIRECTOR
 21 July 2022

TO: PLETTENBERG MUNICIPALITY

Attention : ETIENNE DE WAAL (edewaal@plett.gov.za)

Sampler : CUSTOMER

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