



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

## PLETTENBERG BAY MUNICIPALITY

### ANALYSES

### GANSEVALLEI WWTW- FINAL WATER

**DATE SAMPLED :** 2023/06/13

**DATE RECEIVED :** 2023/06/13

**DATE ANALYSIS**

**COMMENCED :** 2023/06/13

**OUR REF. :** 2023/06/13/18130

**REPORT NO. :** 3863

	Sample Number	18130		
Mthd ALA No.	Analyses	Results	SANS 241-1:2015	% Uncertainty of Measurement
97	Colour (mg/l as Pt)	12	≤15 Aesthetic	22
9	Conductivity (mS/m) (at 25 °C)	95.7	≤170 Aesthetic	4.5
7	Total Dissolved Solids (mg/l)	644	≤1200 Aesthetic	-
27	Turbidity (NTU)	3.7	≤1 Operational : ≤5 Aesthetic	11
19	pH (at 25 °C)	7.23	≥5 - ≤ 9.7 Operational	1.5
66	Free Chlorine (mg/l)	<0.05	≤5 Chronic Health	-
N/A	Monochloramine (mg/l)	<0.05	≤3 Chronic Health	-
Calc	Nitrate Nitrogen (mg/l as N)	3.3	≤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)	3.5	≤12 Acute Health	10.2
N/A	Combined Nitrate plus Nitrite (mg/l as N)	0.52	≤1.0	-
102	Sulphate (mg/l as SO <sub>4</sub> )	72.2	≤250 Aesthetic ≤500 Acute Health	8.3
98	Fluoride (mg/l as F)	0.71	≤1.5 Chronic Health	4.4
95	Ammonia Nitrogen (mg/l as N)	3.8	≤1.5 Aesthetic	5.2
96	Chloride (mg/l as Cl)	164	≤300 Aesthetic	10
92a	Sodium (mg/l as Na)	119	≤200 Aesthetic	5.1
92a	Zinc (mg/l as Zn)	0.01	≤5 Aesthetic	5.4
92a	Antimony (µg/l as Sb)	<20	≤20 Chronic Health	5.2
92a	Arsenic (µg/l as As)	<10	≤10 Chronic Health	10.9
92a	Barium (µg/l as Ba)	<20	≤700 Chronic Health	5.2
47	Boron (mg/l as B)	<0.10	≤2.4 Chronic Health	-

Sampler : CUSTOMER

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92a	Cadmium (µg/l as Cd)	<1	≤3 Chronic Health	4.2
92a	Total Chromium (µg/l as Cr)	<20	≤50 Chronic Health	4.9
92a	Copper (µg/l as Cu)	<20	≤2000 Chronic Health	5.3
51	Cyanide (µg/l as CN-)	<20	≤200 Acute Health	-
92a	Iron (µg/l as Fe)	94	≤300 Aesthetic ≤2000 Chronic Health	4.9
92a	Lead (µg/l as Pb)	<10	≤10 Chronic Health	4.9
92a	Manganese (µg/l as Mn)	45	≤100 Aesthetic ≤400 Chronic Health	5.6
92a	Mercury (µg/l as Hg)	<5	≤6 Chronic Health	-
92a	Nickel (µg/l as Ni)	<20	≤70 Chronic Health	5.5
92a	Selenium (µg/l as Se)	<10	≤40 Chronic Health	5.5
92	Uranium (µg/l as U)	<15	≤30 Chronic Health	-
92a	Aluminium (µg/l as Al)	53	≤300 Operational	4.9
105	Total Organic Carbon (mg/l as C)	0.28	≤10 Chronic Health	0.07
N/A	Trihalomethane (Chloroform) (µg/l)	<10.0	≤300 Chronic Health	-
N/A	Trihalomethane (Bromoform) (µg/l)	<10.0	≤100 Chronic Health	-
N/A	Trihalomethane (Dibromochloromethane) (µg/l)	<10.0	≤100 Chronic Health	-
N/A	Trihalomethane (Bromodichloromethane) (µg/l)	<10.0	≤60 Chronic Health	-
N/A	Combined Trihalomethanes (µg/l)	<0.40	≤1.0	-
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

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Mthd ALA No.	Analyses	Results	SANS 241-1:2015	% Uncertainty of Measurement
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
N/A	Somatic Coliphages (count per 10 ml)	<1	Not Detected Operational	-
N/A	Protozoan Parasites (Giardia Species) (count per 10 litres)	<1	Not Detected Acute Health	-
N/A	Protozoan Parasites (Cryptosporidium Species) (count per 10 litres)	<1	Not Detected Acute Health	-
92a	Calcium (mg/l as Ca)	35.5	N/A	5.6
92a	Magnesium (mg/l as Mg)	11.6	N/A	5.1
92a	Potassium (mg/l as K)	16.1	N/A	4.5
94	Total Alkalinity (mg/l as CaCO <sub>3</sub> )	114	N/A	4
Calc	Langelier Saturation Index (at 25 °C)	-0.66	N/A	-

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**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.

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N. VAN BINSBERGEN ( Pr.Sci.Nat.)  
DIRECTOR  
23 June 2023

TO: PLETTENBERG BAY MUNICIPALITY

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