

## Appendix D4.2 Waterlab Results

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**CERTIFICATE OF ANALYSES**

**GENERAL WATER QUALITY PARAMETERS**

Date received: 2021-09-02

Project number: 1000

Report number: 103377

Date completed: 2021-09-20

Order number:

Client name: EWOC

Address: 27 Polo Crescent, Silverlakes, 0084

Telephone: 072 915 1464

Facsimile:

Contact person: Mr. F. Jooste

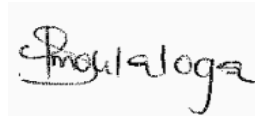
e-mail: fransjooste1@gmail.com

Mobile: 072 915 1464

Analyses in mg/l (Unless specified otherwise)	UOM %	Method ID	Risk	SANS 241 : 2015 Limits	Sample Identification	
					Borehole Water	
Sample Number					138174	
Date/Time Sampled					N/A	
pH - Value @ 25 °C	A	7.7	WLAB065	Operational	≥5 to ≤ 9.7	7.8
Electrical Conductivity in mS/m @ 25°C	A	7.0	WLAB002	Aesthetic	≤170	99.0
Total Dissolved Solids @ 180°C	A	5.6	WLAB027	Aesthetic	≤1200	584
Colour in PtCo Units	N	---	WLAB006	Aesthetic	≤15	4
Turbidity in N.T.U	A	7.6	WLAB005	Operational/Aest	≤1 / ≤5	0.3
Total Alkalinity as CaCO <sub>3</sub>	A	10	WLAB007	---	---	424
Langelier Index at 25°C	A	---	WLAB053	---	---	0.5
Chloride as Cl	A	8.0	WLAB046	Aesthetic	≤300	69
Sulphate as SO <sub>4</sub>	A	8.4	WLAB046	Acute health/Aest	≤500 / ≤250	33
Fluoride as F	N	---	WLAB014	Chronic health	≤1.5	2.5↓
Nitrate as N	A	4.8	WLAB046	Acute health	≤11	<0.1
Nitrite as N	A	3.0	WLAB046	Acute health	≤0.9	0.05
Combined Nitrate & Nitrite	A	---	WLAB046	Acute health	≤1	<0.1
Silica as SiO <sub>2</sub>	N	---	WLAB046	---	---	31
Total Organic Carbon as C	N	---	WLAB060	Chronic health	≤10	<1.0
E. coli (100 ml)	A	5.0	WLAB021	Acute health	Not detected	0
Free and Saline Ammonia as N	A	10	WLAB046	Aesthetic	≤1.5	0.1
Sodium as Na	A	8.3	WLAB015	Aesthetic	≤200	144
Potassium as K	A	7.9	WLAB015	---	---	3.2
Calcium as Ca	A	9.5	WLAB015	---	---	44
Magnesium as Mg	A	9.5	WLAB015	---	---	24
Aluminium as Al (µg/l)	A	8.1	WLAB015	Operational	≤300	<100
Antimony as Sb (µg/l)	A	9.4	WLAB050	Chronic health	≤20	<1
Arsenic as As (µg/l)	A	9.6	WLAB050	Chronic health	≤10	16↓
Barium as Ba (µg/l)	A	9.4	WLAB015	Chronic health	≤700	216
Boron as B (µg/l)	A	9.7	WLAB015	Chronic health	≤2400	147
Cadmium as Cd (µg/l)	A	8.5	WLAB015	Chronic health	≤3	<1



A. van de Wetering - Chemical Technical Signatory



D.O. Mohlaloga - Microbiological Technical Signatory

A = Accredited N = Not Accredited S = Subcontracted UoM=Uncertainty Of Measurement ↑ = Lower Limit exceeded ↓ = Upper Limit exceeded

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Results marked "Subcontracted Test" in this report are not included in the SANAS Schedule of accreditation for this Laboratory.

Sample condition acceptable unless specified on the report.

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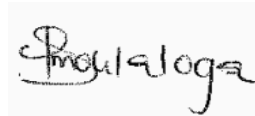
Facsimile:

Contact person: Mr. F. Jooste  
e-mail: fransjooste1@gmail.com  
Mobile: 072 915 1464

Analyses in mg/l (Unless specified otherwise)	UOM %	Method ID	Risk	SANS 241 : 2015 Limits	Sample Identification	
					Borehole Water	
Sample Number					138174	
Date/Time Sampled					N/A	
Total Chromium as Cr (µg/l)	A	7.8	WLAB015	Chronic health	≤50	<25
Copper as Cu (µg/l)	A	7.7	WLAB015	Chronic health	≤2000	<10
Iron as Fe (µg/l)	A	8.1	WLAB015	Chronic health/Aest	≤ 2000 / ≤300	<25
Lead as Pb (µg/l)	A	9.7	WLAB015	Chronic health	≤10	<1
Manganese as Mn (µg/l)	A	8.3	WLAB015	Chronic health/Aest	≤ 400 / ≤100	<25
Mercury as Hg (µg/l)	A	16	WLAB047	Chronic health	≤6	<1
Nickel as Ni (µg/l)	A	7.7	WLAB015	Chronic health	≤70	<25
Selenium as Se (µg/l)	A	9.4	WLAB050	Chronic health	≤40	1
Uranium as U (µg/l)	A	8.5	WLAB050	Chronic health	≤ 30	2
Zinc as Zn	A	8.0	WLAB015	Aesthetic	≤5	<0.025
% Balancing	N	---	---	---	---	96.7



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