

Test Report

Client: Mqhaka Local Municipality
 Address: Mqhaka Municipality, Hill Street, Kroonstad
 Report no: 228403
 Project: Mqhaka Municipality

Date of report: 24 July 2025
 Date accepted: 16 July 2025
 Date completed: 23 July 2025
 Date received: 16 July 2025

Lab no:			284689	284690	284691	284692	284693	284694	284695		
Date sampled:			14-Jul-25	15-Jul-25	14-Jul-25	15-Jul-25	14-Jul-25	14-Jul-25	14-Jul-25		
Aquatico sampled:			Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Sample type:			Water	Water	Water	Water	Water	Water	Water		
Locality description:			Kroonstad Boitumelo Hosp	Kroonstad Brent Park Clinic	Kroonstad Correctional Gate	Kroonstad Tshepong Clinic	Kroonstad Suidrand Reservoir	Kroonstad Panorama Centre	Kroonstad Moakeng Reservoir		
Analyses			Unit	Method							
A	AQL	pH @ 25°C	pH	ALM 20	8.01	8.04	8.09	8.05	8.08	8.08	8.08
A	AQL	Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	39.9	40.8	40.2	40.6	40.0	40.4	40.6
A	AQL	Total Dissolved solids @ 180°C	mg/l	ALM 24	256	276	244	268	248	262	266
A	AQL	Total Alkalinity	mg CaCO ₃ /l	ALM 01	159	167	169	168	165	160	164
A	AQL	Chloride (Cl)	mg/l	ALM 02	18.5	18.7	18.8	18.5	18.3	11.7	15.7
A	AQL	Sulphate (SO ₄)	mg/l	ALM 03	29.7	30.0	29.8	29.7	25.7	31.1	31.4
A	AQL	Nitrate (NO ₃) as N	mg/l	ALM 06	0.296	0.270	0.309	0.276	0.293	0.341	0.302
A	AQL	Total oxidised nitrogen as N	mg/l	ALM 06	0.296	0.270	0.309	0.276	0.293	0.341	0.302
A	AQL	Ammonium (NH ₄) as N	mg/l	ALM 05	0.025	0.023	0.031	0.029	0.034	0.022	0.022
A	AQL	Fluoride (F)	mg/l	ALM 08	<0.263	0.307	0.393	<0.263	<0.263	0.347	<0.263
A	AQL	Acid Soluble Calcium (Ca)	mg/l	ALMA 30	30.6	33.0	37.8	32.1	33.2	32.1	30.5
A	AQL	Acid Soluble Magnesium (Mg)	mg/l	ALMA 30	15.7	16.7	18.7	16.7	14.9	14.7	15.7
A	AQL	Acid Soluble Sodium (Na)	mg/l	ALMA 30	23.5	24.0	30.8	24.1	22.3	21.9	23.1
A	AQL	Acid Soluble Potassium (K)	mg/l	ALMA 30	5.84	5.93	9.19	7.18	6.53	6.37	6.81
A	AQL	Acid Soluble Aluminium (Al)	mg/l	ALMA 31	0.088	0.483	0.134	0.157	0.135	0.183	0.068
A	AQL	Turbidity	NTU	ALM 21	1.18	14.3	1.59	2.08	1.71	2.69	0.481
A	AQL	True Colour	mg/l Pt-Co	ALM 22	6.00	5.00	<5.00	<5.00	<5.00	<5.00	<5.00
A	AQL	Langelier Saturation Index	LSI	ALM 26	-0.33	-0.25	-0.13	-0.24	-0.20	-0.23	-0.24

A = Accredited N = Not accredited Sub = Sub-contracted NR = Not requested RTF = Results to follow NATD = Not able to determine ATR = Alternative test report ; Results relate only to the items sampled and tested ; Results reported against the limit of detection; Results marked "Not SANAS Accredited" in this report are not covered by the Scope of Accreditation for this laboratory; Uncertainty of measurement available on request for all methods included in the SANAS Schedule of Accreditation; The report shall not be reproduced except in full without approval of the laboratory

M. Swanepoel
 Technical Signatory

Test Report

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Client: Moqhaka Local Municipality
Address: Moqhaka Municipality, Hill Street, Kroonstad
Report no: 228403
Project: Moqhaka Municipality

Date of report: 24 July 2025
Date accepted: 16 July 2025
Date completed: 23 July 2025
Date received: 16 July 2025

Lab no:				284696	284697	284698	284699
Date sampled:				14-Jul-25	15-Jul-25	15-Jul-25	14-Jul-25
Aquatico sampled:				Yes	Yes	Yes	Yes
Sample type:				Water	Water	Water	Water
Locality description:				Kroonheuwe I Plat Reservoir	Kroonstad Seisoville Clinic	Kroonstad Bhopelong Clinic	Kroonstad Moqhaka clinic
Analyses	Unit	Method					
A AQL pH @ 25°C	pH	ALM 20	8.19	8.07	7.90	7.91	
A AQL Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	40.3	41.0	40.7	40.6	
A AQL Total Dissolved solids @ 180°C	mg/l	ALM 24	250	270	268	278	
A AQL Total Alkalinity	mg CaCO ₃ /l	ALM 01	158	171	169	155	
A AQL Chloride (Cl)	mg/l	ALM 02	18.3	19.3	19.5	19.4	
A AQL Sulphate (SO ₄)	mg/l	ALM 03	28.9	30.3	29.5	28.2	
A AQL Nitrate (NO ₃) as N	mg/l	ALM 06	0.307	0.298	0.309	0.419	
A AQL Total oxidised nitrogen as N	mg/l	ALM 06	0.307	0.298	0.309	0.419	
A AQL Ammonium (NH ₄) as N	mg/l	ALM 05	0.017	0.021	0.025	0.025	
A AQL Fluoride (F)	mg/l	ALM 08	<0.263	<0.263	<0.263	<0.263	
A AQL Acid Soluble Calcium (Ca)	mg/l	ALMA 30	33.6	34.2	34.5	29.0	
A AQL Acid Soluble Magnesium (Mg)	mg/l	ALMA 30	12.8	17.3	17.6	15.1	
A AQL Acid Soluble Sodium (Na)	mg/l	ALMA 30	29.0	24.8	25.3	22.1	
A AQL Acid Soluble Potassium (K)	mg/l	ALMA 30	5.50	7.19	7.35	6.38	
A AQL Acid Soluble Aluminium (Al)	mg/l	ALMA 31	0.120	0.218	0.073	1.93	
A AQL Turbidity	NTU	ALM 21	1.95	2.37	0.519	21.0	
A AQL True Colour	mg/l Pt-Co	ALM 22	<5.00	<5.00	<5.00	<5.00	
A AQL Langelier Saturation Index	LSI	ALM 26	-0.11	-0.19	-0.36	-0.47	

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Test Report

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 Address: Moqhaka Municipality, Hill Street, Kroonstad
 Report no: 228400
 Project: Moqhaka Municipality

 Date of report: 22 July 2025
 Date accepted: 16 July 2025
 Date completed: 22 July 2025
 Date received: 16 July 2025

Lab no:				284684	284685	
Date sampled:				14-Jul-25	14-Jul-25	
Aquatico sampled:				Yes	Yes	
Sample type:				Water	Water	
Locality description:				Kroonstad WTW Raw	Kroonstad WTW Final	
Analyses		Unit	Method			
A	AQL	pH @ 25°C	pH	ALM 20	8.25	8.00
A	AQL	Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	40.6	40.8
A	AQL	Total Dissolved solids @ 180°C	mg/l	ALM 24	264	262
A	AQL	Total Alkalinity	mg CaCO ₃ /l	ALM 01	164	183
A	AQL	Chloride (Cl)	mg/l	ALM 02	13.8	19.0
A	AQL	Sulphate (SO ₄)	mg/l	ALM 03	30.0	29.5
A	AQL	Nitrate (NO ₃) as N	mg/l	ALM 06	0.260	0.290
A	AQL	Total oxidised nitrogen as N	mg/l	ALM 06	0.260	0.290
A	AQL	Ammonium (NH ₄) as N	mg/l	ALM 05	0.027	0.020
A	AQL	Fluoride (F)	mg/l	ALM 08	<0.263	<0.263
A	AQL	Acid Soluble Calcium (Ca)	mg/l	ALMA 30	33.9	40.5
A	AQL	Acid Soluble Magnesium (Mg)	mg/l	ALMA 30	17.3	20.0
A	AQL	Acid Soluble Sodium (Na)	mg/l	ALMA 30	24.8	28.7
A	AQL	Acid Soluble Potassium (K)	mg/l	ALMA 30	6.27	7.45
A	AQL	Acid Soluble Aluminium (Al)	mg/l	ALMA 31	0.102	0.161
A	AQL	Turbidity	NTU	ALM 21	11.8	4.21
A	AQL	True Colour	mg/l Pt-Co	ALM 22	39.0	14.0
A	AQL	Langelier Saturation Index	LSI	ALM 26	-0.03	-0.16

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