

Name: Khayakazi Nonkonyana  
Tel: 043 702 8209/043 101 0750  
Email: khayakazi@elidz.co.za  
www.elidz.co.za

## Certificate Of Analysis

Report NO: EM-2026-00527	Sample Description: Potable Water
Customer: Makana Municipality	No. of Samples: 02
Address: City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition: Cold
Contact: Siphokazi Shicilela Somagu	Sample Identification: James Kleynhans
Phone: 046 603 6068 Fax: 046 6229 488	Date Received: 30-Apr-2026 Test Date: 30-Apr-2026
Order No:	Date Completed: 01-May-2026

				SAMPLE IDENTIFICATION	
				EM-2026-00527-01	EM-2026-00527-02
				Raw James Kleynhans	Final James Kleynhans
Analysis	Unit	Method	Lab No Sample ID UoM		
E. coli	MPN/100mL	MM-MIC002	0.067	13	<1
Total Coliforms	MPN/100mL	MM-MIC002	0.075	517	<1

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## Certificate Of Analysis

Report NO: EM-2026-00528	Sample Description: Potable Water
Customer: Makana Municipality	No. of Samples: 02
Address: City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition: Cold
Contact: Siphokazi Shicilela Somagu	Sample Identification: Alicedale
Phone: 046 603 6068 Fax: 046 6229 488	Date Received: 30-Apr-2026 Test Date: 30-Apr-2026
Order No:	Date Completed: 01-May-2026

				SAMPLE IDENTIFICATION	
				Lab No	Sample ID
				EM-2026-00528-01	EM-2026-00528-02
				Alicedale Raw	Alicedale Final
Analysis	Unit	Method	UoM		
E. coli	MPN/100mL	MM-MIC002	0.067	6	<1
Total Coliforms	MPN/100mL	MM-MIC002	0.075	488	<1

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## Certificate Of Analysis

Report NO: EM-2026-00529	Sample Description: Potable Water
Customer: Makana Municipality	No. of Samples: 02
Address: City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition: Cold
Contact: Siphokazi Shicilela Somagu	Sample Identification: Riebeeck East
Phone: 046 603 6068 Fax: 046 6229 488	Date Received: 30-Apr-2026 Test Date: 30-Apr-2026
Order No:	Date Completed: 01-May-2026

				SAMPLE IDENTIFICATION	
				Lab No	EM-2026-00529-01
				Sample ID	EM-2026-00529-02
					Raw Riebeeck East
					Final Riebeeck East
Analysis	Unit	Method	UoM		
E. coli	MPN/100mL	MM-MIC002	0.067	<1	<1
Total Coliforms	MPN/100mL	MM-MIC002	0.075	<1	<1

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ELIDZ Environmental Microbiology

## Certificate Of Analysis

Report NO: EM-2026-00530	Sample Description: Potable Water
Customer: Makana Municipality	No. of Samples: 12
Address: City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition: Cold
Contact: Siphokazi Shicilela Somagu	Sample Identification: Grahamstown
Phone: 046 603 6068 Fax: 046 6229 488	Date Received: 30-Apr-2026 Test Date: 30-Apr-2026
Order No:	Date Completed: 01-May-2026

				SAMPLE IDENTIFICATION			
				EM-2026-00530-01	EM-2026-00530-02	EM-2026-00530-03	EM-2026-00530-04
				Raw Waainek	Final Waainek	Nyaluza High School	Tanjie Clinic
Analysis	Unit	Method	UoM				
E. coli	MPN/100mL	MM-MIC002	0.067	10	<1	<1	<1
Total Coliforms	MPN/100mL	MM-MIC002	0.075	1986	<1	<1	<1

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Customer: Makana Municipality	No. of Samples: 12
Address: City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition: Cold
Contact: Siphokazi Shicilela Somagu	Sample Identification: Grahamstown
Phone: 046 603 6068 Fax: 046 6229 488	Date Received: 30-Apr-2026 Test Date: 30-Apr-2026
Order No:	Date Completed: 01-May-2026

				SAMPLE IDENTIFICATION			
				EM-2026-00530-05	EM-2026-00530-06	EM-2026-00530-07	EM-2026-00530-08
				Healthcare Center	J-Street	Extension 7 Clinic	Raglan Road Clinic
Analysis	Unit	Method	Lab No Sample ID UoM				
E. coli	MPN/100mL	MM-MIC002	0.067	<1	<1	<1	16
Total Coliforms	MPN/100mL	MM-MIC002	0.075	<1	<1	<1	1203

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Customer: Makana Municipality	No. of Samples: 12
Address: City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition: Cold
Contact: Siphokazi Shicilela Somagu	Sample Identification: Grahamstown
Phone: 046 603 6068 Fax: 046 6229 488	Date Received: 30-Apr-2026 Test Date: 30-Apr-2026
Order No:	Date Completed: 01-May-2026

Analysis	Unit	Method	UoM	SAMPLE IDENTIFICATION			
				Lab No Sample ID	EM-2026-00530-09 Joza Clinic	EM-2026-00530-10 Blackbeard street	EM-2026-00530-11 Extension 10 tap
E. coli	MPN/100mL	MM-MIC002	0.067	<1	6	<1	<1
Total Coliforms	MPN/100mL	MM-MIC002	0.075	<1	31	<1	<1

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ELIDZ Environmental Chemistry Laboratory

## Certificate Of Analysis

Report NO: EC-2026-00380	Sample Description: Potable Water
Customer: Makana Municipality	No. of Samples: 02
Address: City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition: Cold
Contact: Siphokazi Shicilela Somagu	Sample Identification: James Klynhanns WTW
Phone: 046 603 6068 Fax: 046 6229 488	Date Received: 30-Apr-2026 Test Date: 30-Apr-2026
Order No:	Date Completed: 15-May-2026

Analysis	Unit	Method	UoM	SAMPLE IDENTIFICATION	
				Lab No Sample ID	EC-2026-00380-01 James Klynhanns WTW Raw
Chloride	mg/L	MM-CHE026	0.039	88.0	88.6
Total Alkalinity	mg/L as CaCO <sub>3</sub>	MM-CHE027	2.41	186	183
Aluminium	µg/l	Sub	4.9	529	<20
Calcium	mg/l as Ca	Sub	5.6	31.8	32.8
Chlorine (free) *	mg/L	MM-CHE021		0.18	0.06
Electrical conductivity	mS/M	MM-CHE002	3.31	83.7	84.5
Iron	µg/l	Sub	4.9	358	<20
Magnesium	mg/l	Sub	5.1	23.4	23.1
Manganese	µg/l	Sub	5.6	29.0	<20
Turbidity	NTU	MM-CHE008	5.80	47.3	0.55
pH	pH units	MM-CHE005	0.145	8.49	8.26
Sulphate	mg/l as SO <sub>4</sub>	MM-CHE014	0.15	61.0	61.8
Temperature	°C	MM-CHE005		22.3	23.3

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ELIDZ Environmental Chemistry Laboratory

## Certificate Of Analysis

Report NO: EC-2026-00381	Sample Description: Potable Water
Customer: Makana Municipality	No. of Samples: 02
Address: City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition: Cold
Contact: Siphokazi Shicilela Somagu	Sample Identification: Riebeek East WTW
Phone: 046 603 6068 Fax: 046 6229 488	Date Received: 30-Apr-2026 Test Date: 30-Apr-2026
Order No:	Date Completed: 15-May-2026

Analysis	Unit	Method	UoM	SAMPLE IDENTIFICATION	
				Lab No Sample ID	Lab No Sample ID
				EC-2026-00381-01 Riebeek East WTW Raw	EC-2026-00381-02 Riebeek East WTW Final
Chloride	mg/L	MM-CHE026	0.039	163	133
Total Alkalinity	mg/L as CaCO <sub>3</sub>	MM-CHE027	2.41	75.6	61.6
Aluminium	µg/l	Sub	4.9	<40	<40
Calcium	mg/l as Ca	Sub	5.6	12.3	11.7
Chlorine (free) *	mg/L	MM-CHE021		0.09	0.06
Electrical conductivity	mS/M	MM-CHE002	3.31	87.1	73.8
Iron	µg/l	Sub	4.9	3421	91.0
Magnesium	mg/l	Sub	5.1	24.1	20.1
Manganese	µg/l	Sub	5.6	354	<20
Turbidity	NTU	MM-CHE008	5.80	22.1	0.44
pH	pH units	MM-CHE005	0.145	6.41	7.76
Sulphate	mg/l as SO <sub>4</sub>	MM-CHE014	0.15	46.4	39.1
Temperature	°C	MM-CHE005		22.7	23.5

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## Certificate Of Analysis

Report NO: EC-2026-00382	Sample Description: Potable Water
Customer: Makana Municipality	No. of Samples: 02
Address: City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition: Cold
Contact: Siphokazi Shicilela Somagu	Sample Identification: Alicedale WTW
Phone: 046 603 6068 Fax: 046 6229 488	Date Received: 30-Apr-2026 Test Date: 30-Apr-2026
Order No:	Date Completed: 15-May-2026

Analysis	Unit	Method	UoM	SAMPLE IDENTIFICATION	
				Lab No Sample ID	EC-2026-00382-01 Alicedale WTW Raw
Chloride	mg/L	MM-CHE026	0.039	89.0	107
Total Alkalinity	mg/L as CaCO <sub>3</sub>	MM-CHE027	2.41	97.4	92.9
Aluminium	µg/l	Sub	4.9	173	<40
Calcium	mg/l as Ca	Sub	5.6	28.8	30.6
Chlorine (free) *	mg/L	MM-CHE021		0.25	0.07
Electrical conductivity	mS/M	MM-CHE002	3.31	59.5	66.6
Iron	µg/l	Sub	4.9	380	<20
Magnesium	mg/l	Sub	5.1	13.6	14.7
Manganese	µg/l	Sub	5.6	143	<20
Turbidity	NTU	MM-CHE008	5.80	44.0	0.67
pH	pH units	MM-CHE005	0.145	7.74	7.48
Sulphate	mg/l as SO <sub>4</sub>	MM-CHE014	0.15	16.2	18.0
Temperature	°C	MM-CHE005		23.6	23.0

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Report NO: EC-2026-00383	Sample Description: Potable Water
Customer: Makana Municipality	No. of Samples: 12
Address: City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition: Cold
Contact: Siphokazi Shicilela Somagu	Sample Identification: Grahamstown
Phone: 046 603 6068 Fax: 046 6229 488	Date Received: 30-Apr-2026 Test Date: 30-Apr-2026
Order No:	Date Completed: 15-May-2026

Analysis	Unit	Method	UoM	SAMPLE IDENTIFICATION			
				Lab No Sample ID	EC-2026-00383-01 Waainek WTW Raw	EC-2026-00383-02 Waainek WTW Final	EC-2026-00383-03 Extension 7 Clinic
Chloride	mg/L	MM-CHE026	0.039	62.0	66.0	91.0	89.8
Total Alkalinity	mg/L as CaCO <sub>3</sub>	MM-CHE027	2.41	32.0	21.4	181	177
Aluminium	µg/l	Sub	4.9	<40	<40	<40	<40
Calcium	mg/l as Ca	Sub	5.6	8.20	8.20	31.6	32.8
Chlorine (free) *	mg/L	MM-CHE021		0.13	0.18	0.06	0.07
Electrical conductivity	mS/M	MM-CHE002	3.31	32.9	33.4	83.4	83.5
Iron	µg/l	Sub	4.9	837	26.0	<20	<20
Magnesium	mg/l	Sub	5.1	6.9	6.7	23.0	23.4
Manganese	µg/l	Sub	5.6	322	301	<20	<20
Turbidity	NTU	MM-CHE008	5.80	10.1	1.02	0.37	0.33
pH	pH units	MM-CHE005	0.145	7.21	6.94	8.38	8.35
Sulphate	mg/l as SO <sub>4</sub>	MM-CHE014	0.15	6.93	7.00	62.2	63.2
Temperature	°C	MM-CHE005		22.7	22.3	21.6	21.3

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Name: Khayakazi Nonkonyana  
Tel: 043 702 8209/ 043 101 0750  
Email: khayakazi@elidz.co.za  
www.elidz.co.za

ELIDZ Environmental Chemistry Laboratory

## Certificate Of Analysis

Report NO: EC-2026-00383	Sample Description: Potable Water
Customer: Makana Municipality	No. of Samples: 12
Address: City Hall 8 High Street Makhanda Makhanda 6139 South Africa	Sample Condition: Cold
Contact: Siphokazi Shicilela Somagu	Sample Identification: Grahamstown
Phone: 046 603 6068 Fax: 046 6229 488	Date Received: 30-Apr-2026 Test Date: 30-Apr-2026
Order No:	Date Completed: 15-May-2026

Analysis	Unit	Method	UoM	SAMPLE IDENTIFICATION			
				EC-2026-00383-05 Black beard street	EC-2026-00383-06 Nyaluza High School	EC-2026-00383-07 Siyazama Pre-School	EC-2026-00383-08 Raglan Road Clinic
Chloride	mg/L	MM-CHE026	0.039	89.0	88.8	88.7	88.8
Total Alkalinity	mg/L as CaCO <sub>3</sub>	MM-CHE027	2.41	181	181	178	181
Aluminium	µg/l	Sub	4.9	<40	<40	<40	<40
Calcium	mg/l as Ca	Sub	5.6	32.9	32.3	32.9	33.1
Chlorine (free) *	mg/L	MM-CHE021		0.05	0.06	0.06	0.07
Electrical conductivity	mS/M	MM-CHE002	3.31	83.9	83.0	83.1	83.0
Iron	µg/l	Sub	4.9	<20	<20	<20	<20
Magnesium	mg/l	Sub	5.1	23.5	23.7	23.3	23.9
Manganese	µg/l	Sub	5.6	<20	<20	<20	<20
Turbidity	NTU	MM-CHE008	5.80	0.43	0.50	0.89	0.86
pH	pH units	MM-CHE005	0.145	8.45	8.38	8.42	8.39
Sulphate	mg/l as SO <sub>4</sub>	MM-CHE014	0.15	62.5	62.3	61.1	61.5
Temperature	°C	MM-CHE005		22.8	21.0	21.2	21.4

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Tel: 043 702 8209/ 043 101 0750  
Email: khayakazi@elidz.co.za  
www.elidz.co.za

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## Certificate Of Analysis

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Phone: 046 603 6068 Fax: 046 6229 488	Date Received: 30-Apr-2026 Test Date: 30-Apr-2026
Order No:	Date Completed: 15-May-2026

Analysis	Unit	Method	UoM	SAMPLE IDENTIFICATION			
				EC-2026-00383-09 Joza Clinic	EC-2026-00383-10 Healthcare Office	EC-2026-00383-11 Extension 10 tap	EC-2026-00383-12 J-Street tap
Chloride	mg/L	MM-CHE026	0.039	88.2	65.6	89.5	89.4
Total Alkalinity	mg/L as CaCO <sub>3</sub>	MM-CHE027	2.41	177	25.5	177	181
Aluminium	µg/l	Sub	4.9	<40	<40	<40	<40
Calcium	mg/l as Ca	Sub	5.6	32.6	8.90	33.3	32.4
Chlorine (free) *	mg/L	MM-CHE021		0.06	0.10	0.06	0.07
Electrical conductivity	mS/M	MM-CHE002	3.31	83.4	33.4	83.0	82.9
Iron	µg/l	Sub	4.9	<20	20.2	<20	<20
Magnesium	mg/l	Sub	5.1	23.4	6.9	24.3	23.3
Manganese	µg/l	Sub	5.6	<20	83.6	<20	<20
Turbidity	NTU	MM-CHE008	5.80	0.57	0.86	0.44	0.29
pH	pH units	MM-CHE005	0.145	8.32	7.02	8.41	8.33
Sulphate	mg/l as SO <sub>4</sub>	MM-CHE014	0.15	62.9	6.72	62.6	62.2
Temperature	°C	MM-CHE005		22.5	22.5	21.2	21.0

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