

CERTIFICATE OF MICROBIOLOGICAL ANALYSIS TEST REPORT

Sample From: **Nkangala District Municipality** **Address: Posbus 437**
Municipal Health Services **Walter Sisulu**
Emakhazeni Town Council **Middelburg**
1050

Date Received: **16-May-17**
Date Analyzed: **16-May-17**
Date Reported: **18-May-17**
Quantity Analyzed: **8** **Ref No: E 897 - 904 / 17 B**

LAB NO	SAMPLE NAME	STERILIZED BOTTLE		STANDARD LIMITS					
				≤ 10	Nil	Nil	≤ 1000		
				TOTAL COLIFORM BACTERIA PER / 100ML	FAECAL COLIFORM PER / 100 ML	ESCHERISCHIA COLIFORM PER 100 ML	HETEROTROPHIC PLATE COUNT PER 1.0 ML		
	MH	MACHADODORP	YES	NO		A / B			
E 897	12/5/17	Sewage Works Final	X		>2420	B	710	548	2840
E 898	15/5/17	TPA Offices Tap	X		Nil	B	Nil	Nil	6
				A - SANAS 5221 OR B - COLILERT		SANS 5221	COLILERT	SANS 5221	

S.A.N.S. 241-1:2015 Ed 2 MICROBIOLOGICAL REQUIREMENTS Allowable compliance for *DRINKING WATER*

Determinant	Risk	Unit	Standard limits
Escherichia Coliform / or Faecal Coliform bacteria	Acute Health - 1	Count per 100 ml	Not Detected
Heterotrophic Plate Count	Operational	Count per 1 ml	≤ 1 000
Total Coliform Bacteria	Operational	Count per 100 ml	≤ 10

Results exceeding alert levels will require immediate remedial action and follow-up sampling.

EFFLUENT WATER

Regional Standard (Department Water Affairs and Forestry) of 26 March 2004 No.399 for Waste water specifies : Waste water or Effluent shall **not** contain more than 1000 Faecal Coliform per 100 ml.

These results relate only to samples tested.
Opinions and interpretations expressed herein are outside the scope of SANAS accreditation.
- Samples highlighted in grey are not within the limits as specified.

REMARKS:

- a.) The sample **SEWAGE WORKS TAP** contains all types of bacteria. These bacteria are pathogenic (disease forming) in nature. It is advisable to chlorinate this water to achieve complete disinfection.



P.L.G UYS (M.D.)

Technical Signatory

SANS
241-1
Edition 2
2015

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			YES	NO	A / B				
E 899	8/5/17	Dullstroom Sewage Final	X		-	B	460	-	-
E 900	10/5/17	Sakhelwe Clinic	X		Nil	B	Nil	Nil	6
E 901	13/5/17	La Bamba Centre	X		Nil	B	Nil	Nil	7
E 902	14/5/17	Municipal Offices	X		Nil	B	Nil	Nil	9
					A- SANAS 5221 OR B - COLILERT		SANS 5221	COLILERT	SANS 5221

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REMARKS:

- a.) The sample DULLSTROOM SEWAGE FINAL contains high levels of Faecal Coliform Bacteria. These bacteria are pathogenic.



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			YES	NO	≤ 10 TOTAL COLIFORM BACTERIA PER / 100ML	A / B	Nil FAECAL COLIFORM PER / 100 ML	Nil ESCHERISCHIA COLIFORM PER 100 ML	≤ 1000 HETEROTROPHIC PLATE COUNT PER 1.0 ML
E 903	10/5/17	P118 Stand	X		>200	B	30	21	390
E 904	13/5/17	Mississippi Restaurant Tap	X		187	B	22	19	613
					A - SANAS 5221 OR B - COLILERT		SANS 5221	COLILERT	SANS 5221

S.A.N.S. 241-1:2015 Ed 2 MICROBIOLOGICAL REQUIREMENTS Allowable compliance for *DRINKING WATER*

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REMARKS:

- a.) These samples contain all types of bacteria. These bacteria are pathogenic (disease forming) in nature. DO NOT use this water for Human Consumption. It is advisable to Chlorinate this water to achieve complete disinfection.



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