

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: **6-Jun-17**

Date Analyzed: **6-Jun-17**

Date Reported: **8-Jun-17**

Quantity Analyzed: **20**

Ref No: **F 255 + 258 A - 273 / 17 B**

LAB NO	DS	SAMPLE NAME	STERILIZED BOTTLE		STANDARD LIMITS				
					≤ 10		Nil	Nil	≤ 1000
					TOTAL COLIFORM BACTERIA PER / 100ML	A / B	FAECAL COLIFORM PER / 100 ML	ESCHERISCHIA COLIFORM PER 100 ML	HETEROTROPHIC PLATE COUNT PER 1.0 ML
			YES	NO					
F 255	3/6/17	Dullstroom Waterworks Final	x		Nil	B	Nil	Nil	123
F 256	16/6/17	Sakhelwe Reservoir	x		6	B	Nil	Nil	46
F 257	18/6/17	Dullstroom Reservoir	x		Nil	B	Nil	Nil	63
F 258 A	8/6/17 + 9/6/17	Dullstroom Sewer Final	x		-	B	Nil	-	-
					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.) These samples fulfill the bacteriological criteria as specified by SANS 241 Standard for Human Consumption.



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

Technical Signatory

SANS
241-1
Edition 2
2015

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	BF	BELFAST	YES	NO					
F 258	3/6/17	Belfast Waterworks Final	x		Nil	B	Nil	Nil	7
F 259	16/6/17	Siyathutuka Reservoir	x		Nil	B	Nil	Nil	13
F 260	18/6/17	Belfast Old Reservoir	x		Nil	B	Nil	Nil	14
F 261	20/6/17	Belfast New Reservoir	x		Nil	B	Nil	Nil	9
F 262	26/6/17	Belfast Old Age Home	x		Nil	B	Nil	Nil	3
F 263	8/6/17 + 9/6/17	Belfast Sewer Final	x		-	B	Nil	-	-
					A- SANAS 5221 OR B - COLILERT		SANS 5221	COLILERT	SANS 5221

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	BF	BELFAST		YES	NO				
F 258	3/6/17	Belfast Waterworks Final	x		Nil	B	Nil	Nil	7
F 259	16/6/17	Siyathutuka Reservoir	x		Nil	B	Nil	Nil	13
F 260	18/6/17	Belfast Old Reservoir	x		Nil	B	Nil	Nil	14
F 261	20/6/17	Belfast New Reservoir	x		Nil	B	Nil	Nil	9
F 262	26/6/17	Belfast Old Age Home	x		Nil	B	Nil	Nil	3
F 263	8/6/17 + 9/6/17	Belfast Sewer Final	x		-	B	Nil	-	-
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S.A.N.S. 241-1:2015 Ed 2 MICROBIOLOGICAL REQUIREMENTS Allowable compliance for DRINKING WATER

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				≤ 10 TOTAL COLIFORM BACTERIA PER / 100ML	Nil FAECAL COLIFORM PER / 100 ML	Nil ESCHERISCHIA COLIFORM PER 100 ML	≤ 1000 HETEROTROPHIC PLATE COUNT PER 1.0 ML			
	MH	MACHADODORP		YES	NO	A / B				
F 264	3/6/14 + 4/6/17	Waterworks Out Final	x			Nil	B	Nil	Nil	9
F 265	20/6/17 + 21/6/17	Cement Reservoir	x			Nil	B	Nil	Nil	8
F 266	22/6/17	Steel Tank	x			Nil	B	Nil	Nil	16
				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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F 267	16/6/17 + 17/6/17	Boven Reservoir	x		78	B	8	6	61
F 268	22/6/17 + 23/6/17	Waterworks Outlet	x		109	B	12	10	70
F 269	24/6/17	Stand 118	x		165	B	15	11	104
F 270	28/6/17	Khayalami Service Centre	x		>200	B	25	22	111
F 271	26/6/17	Missisipi Resturant	x		89	B	8	6	64
F 272	27/6/17	Technical Workshop Tap	x		101	B	10	9	80
F 273	28/6/17	Silwerdae Old Age Home	x		Nil	B	Nil	Nil	4
					A- SANAS 5221 OR B - COLILERT		SANS 5221	COLILERT	SANS 5221

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REMARKS:

- a.) These samples BOVEN RESEVOIR, WATERWORKS OUTLET, STAND 118, KHAYALAMI SERVICE CENTRE, MISSISIPi RESTURANT and TECHNICAL WORKSHOP TAP 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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