


**MICROBIOLOGICAL ANALYSIS
 TEST REPORT**

Sample From:

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

Date Received:

25-Sep-18

Date Analyzed:

25-Sep-18

Date Reported:

27-Sep-18

Quantity Analyzed:

10

Ref No: I 1454 - 1463 / 18 B

LAB REF ID	LAB NO	SAMPLE NAME	STERILIZED BOTTLE		STANDARD LIMITS				
					≤ 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	
		BELFAST	YES	NO		A / B			
D I 1454	BF22/9/18: Belfast Waterworks Final	X			>200	B	Nil	Nil	891
D I 1455	BF23/9/18: Siyathuthuka Clinic	X			29	B	Nil	Nil	24
D I 1456	BF24/9/18: Leratong Creche'	X			36	B	Nil	Nil	34
D I 1457	BF25/9/18: Stand 3423/3	X			31	B	Nil	Nil	32
D I 1458	BF26/9/18: HA Grove Hospital	X			Nil	B	Nil	Nil	33
D I 1459	BF27/9/18: Bottom End Liquor Store	X			Nil	B	Nil	Nil	15
D I 1460	BF28/9/18: Belfast Old Age Home	X			Nil	B	Nil	Nil	20
D I 1461	BF29/9/18: Siyathuthuka Reservoir	X			145	B	Nil	Nil	150
D I 1462	BF30/9/18: Belfast Old Reservoir	X			1	B	Nil	Nil	15
D I 1463	BF31/9/18: Belfast New Reservoir	X			1	B	Nil	Nil	13
METHOD USED					A - SANAS 5221 (CFU) OR B - COLILERT (MPN)		SANS 5221	COLILERT (MPN)	SANS 5221
REGEN WATERS METHOD: MLPN 4A AND 4B.									

**S.A.N.S. 241-1:2015 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 WATERRegional 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.) Samples BF25/9/18: Stand 3423/3 and BF29/9/18: Siyathuthuka Reservoir has a Total Coliform count not within the SANS 241:2015 limit. These bacteria are not pathogenic (disease forming) but it is advised to chlorinate the water for total disinfection.
- b.) Samples BF26/9/18: HA Grove Hospital, BF27/9/18: Bottom End Liquor Store, BF28/9/18: Belfast Old Age Home, BF30/9/18: Belfast Old Reservoir, BF31/9/18: Belfast New Reservoir complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. The water is bacteriologically suitable for domestic use.

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241-1
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P.L.G UYS / A.KOHRIS

Technical Signatory

(A signed copy of this report is available)