



**MICROBIOLOGICAL ANALYSIS
 TEST REPORT**

Sample From:

**Nkangala District Municipality
 Municipal Health Services
 Emakhazeni Town Council**

**Address: Posbus 437
 Walter Sisulu
 Middelburg
 1050**

Date Received:

17-Jan-19

Date Analyzed:

17-Jan-19

Date Reported:

19-Jan-19

Quantity Analyzed:

21

Ref No: A 539 - 559 / 19 B

LAB REF ID	LAB NO	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	
		BELFAST	YES	NO						
D	A 539	NBF10/1/19: Siyathuthuka Clinic	X		Nil	B	Nil	Nil	12	
D	A 540	NBF11/1/19: Leratong Creshe'	X		Nil	B	Nil	Nil	18	
D	A 541	NBF12/1/19: Stand 3423/3	X		1	B	Nil	Nil	19	
D	A 542	NBF13/1/19: HA Grove Hospital	X		Nil	B	Nil	Nil	18	
D	A 543	NBF14/1/19: Bottom End Liqueur Store	X		Nil	B	Nil	Nil	20	
D	A 544	NBF15/1/19: Belfast Old Age Home	X		6	B	Nil	Nil	31	
D	A 545	NBF16/1/19: Siyathuthuka Reservoir	X		Nil	B	Nil	Nil	12	
D	A 546	NBF18/1/19: Belfast Old Reservoir	X		Nil	B	Nil	Nil	15	
D	A 547	NBF20/1/19: Belfast New Reservoir	X		Nil	B	Nil	Nil	7	
D	A 548	NBF22/1/19: Belfast Waterworks Final	X		Nil	B	Nil	Nil	6	
D	A 549	NBF1/1/19: Belfast Waterworks Inlet	X		>2420	B	310	206	1178	
METHOD USED					A - SANAS 5221 (CFU) OR B - COLILERT (MPN)		SANS 5221	COLILERT (MPN)	SANS 5221	
REGEN WATERS METHOD: MLPM 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 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:

- Sample NBF1/1/19: Belfast Waterworks Inlet tested positive for pathogenic bacteria (E.Coli/ Faecal coliform bacteria). These bacteria are disease forming and the water is not safe for human consumption. It is recommended to investigate the source of contamination and chlorinate the water for total disinfection. **DO NOT DRINK THIS WATER.**
- Samples NBF10/1/19: Siyathuthuka Clinic, NBF11/1/19: Leratong Creshe', NBF12/1/19: Stand 3423/3, NBF13/1/19: HA Grove Hospital, NBF14/1/19: Bottom End Liqueur Store, NBF15/1/19: Belfast Old Age Home, NBF16/1/19: Siyathuthuka Reservoir, NBF18/1/19: Belfast Old Reservoir, NBF20/1/19: Belfast New Reservoir, NBF22/1/19: Belfast Waterworks Final complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. These water samples are bacteriologically suitable for domestic use.

SANS
241-1
Edition 2
2015



CK. 89/14418/23
REGEN WATERS
 LABORATORY • LABORATORIUM

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					A / B				
WATERVALBOVEN					YES	NO			
D	A 550	NWB10/1/19: Stand P118 (602)	X		Nil	B	Nil	Nil	16
D	A 551	NWB11/1/19: Khayalami Service Centre	X		Nil	B	Nil	Nil	11
D	A 552	NWB12/1/19: Vulingcondo Stimulation Centre	X		Nil	B	Nil	Nil	143
D	A 553	NWB13/1/19: Mississipi Restaurant	X		Nil	B	Nil	Nil	68
D	A 554	NWB14/1/19: Technical Workshop	X		Nil	B	Nil	Nil	269
D	A 555	NWB15/1/19: Silverdays Old Age Home	X		Nil	B	Nil	Nil	39
D	A 556	NWB16/1/19: Watervalboven Reservoir	X		Nil	B	Nil	Nil	23
D	A 557	NWB02/1/19: Watervalboven Waterworks Final	X		1	B	Nil	Nil	36
S	A 558	NWB8/1/19: Watervalboven Sewerworks Final	X		-		>1000	-	-
D	A 559	NWB1/1/19: Watervalboven Waterworks Inlet	X		2420	B	220	141	142
METHOD USED					A- SANAS 5221 (CFU) OR B- COLILERT (MPN)		SANS 5221	COLILERT (MPN)	SANS 5221
REGEN WATERS METHOD: MLPM 4A AND 4B.									

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SANS
 241-1
 Edition 2
 2015

- a.) Sample NWB1/1/19: Watervalboven Waterworks Inlet tested positive for pathogenic bacteria (E.Coli/ Faecal coliform bacteria). These bacteria are disease forming and the water is not safe for human consumption. It is recommended to investigate the source of contamination and chlorinate the water for total disinfection. **DO NOT DRINK THIS WATER.**
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P.L.G UYS / A.KOHR'S
 Technical Signatory

(A signed copy of this report is available)