



(PTY) LTD 2018/379064/07  
**REGEN WATERS**  
 LABORATORY • LABORATORIUM

4 Woltemade Street  
 P.O. Box 8328  
 WITBANK 1035  
 Tel.: 013-690-1487  
 Fax: 013-656-5050  
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**MICROBIOLOGICAL ANALYSIS  
 TEST REPORT**

Sample From: Nkangala District Municipality Municipal Health Services  
 Emakhazeni Town Council

Address: Posbus 437  
 Walter Sisulu  
 Middelburg  
 1050

Date Received: 23 April 2019  
 Date Analyzed: 23 April 2019  
 Date Reported: 25 April 2019  
 Quantity Analyzed: 22

Attention: Marianne Joubert  
 Solly Links  
 E-Mail : [marianne.joubert2011@gmail.com](mailto:marianne.joubert2011@gmail.com)  
 Ref No: D 1211 - 1232 / 19 B

LAB REF ID	LAB NUMBER	SAMPLE NAME	STERILIZED BOTTLE		STANDARD LIMITS				
			YES	NO	≤ 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	
		<b>WATERVALBOVEN</b>				A / B			
D	D 1211	NWB1/4/19: Watervalboven Waterworks Inlet	X		>2420	B	850	649	1344
D	D 1212	NWB3/4/19: Watervalboven Waterworks Final	X		Nil	B	Nil	Nil	6
S	D 1213	NWB5/4/19: Watervalboven Sewerworks Final	X		-	B	>1000	-	-
D	D 1214	NWB10/04/19: Stand P118 (602)	X		Nil	B	Nil	Nil	6
D	D 1215	NWB11/4/19: Khayalami Service Centre	X		Nil	B	Nil	Nil	11
D	D 1216	NWB12/4/19: Vulingcondo Stimulation Centre	X		Nil	B	Nil	Nil	6
D	D 1217	NWB13/4/19: Municipal Offices/Clinic	X		Nil	B	Nil	Nil	10
D	D 1218	NWB14/4/19: FET Collage	X		Nil	B	Nil	Nil	9
D	D 1219	NWB15/4/19: Silwerdays Old Age Home	X		Nil	B	Nil	Nil	944
D	D 1220	NWB16/4/19: Watervalboven Reservoir	X		Nil	B	Nil	Nil	7
METHOD USED					A- SANAS 5221 (CFU) OR B - COLILERT (MPN)		SANS 5221 (CFU)	COLILERT (MPN)	SANS 5221 (CFU)
REGEN WATERS METHOD: MLPM 4A AND 4B.									

**S.A.N.S. 241:2015 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.

**SANS 241  
 2015**

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.) Sample NWB1/4/19: 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.**
- b.) Samples NWB3/4/19: Watervalboven Waterworks Final , NWB10/04/19: Stand P118 (602), NWB11/4/19: Khayalami Service Centre, NWB12/4/19: Vulingcondo Stimulation Centre, NWB13/4/19: Municipal Offices/Clinic, NWB14/4/19: FET Collage, NWB15/4/19: Silwerdays Old Age Home, NWB16/4/19: Watervalboven Reservoir complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. These water samples are bacteriologically suitable for domestic use.



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<b>BELFAST</b>					YES	NO	A / B		
D	D 1221	NBF1/4/19:Belfast Waterworks Inlet	x		2420	B	110	88	1140
D	D 1222	NBF3/4/19: Belfast Waterworks Final	x		>200	B	15	10	111
D	D 1223	NBF8/4/19: Belfast Sewerworks Final	x		-	B	>1000	-	-
D	D 1224	NBF10/4/19:Siyathuka Clinic	x		Nil	B	Nil	Nil	10
D	D 1225	NBF11/4/19: Leratong Creche'	x		1	B	Nil	Nil	14
D	D 1226	NBF12/4/19: Siyathuthuka Community Hall	x		4	B	Nil	Nil	20
D	D 1227	NBF13/4/19:HA Grove Hospital	x		200	B	6	5	111
D	D 1228	NBF14/4/19: Bottom End Liquer Store	x		Nil	B	Nil	Nil	9
D	D 1229	NBF15/4/19: Belfast Old Age Home	x		Nil	B	Nil	Nil	13
D	D 1230	NBF16/4/19: Siyathuthuka Reservoir	x		3	B	Nil	Nil	19
D	D 1231	NBF18/4/19: Belfast Old Reservoir	x		Nil	B	Nil	Nil	30
D	D 1232	NBF20/4/19: Belfast Reservoir	x		Nil	B	Nil	Nil	13
METHOD USED					A- SANAS 5221 (CFU) OR B - COLILERT (MPN)		SANS 5221 (CFU)	COLILERT (MPN)	SANS 5221 (CFU)
					REGEN WATERS METHOD: MLPM 4A AND 4B.				

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# - Samples highlighted in grey are not within the limits as specified.

REMARKS:

- a.) Samples NBF1/4/19:Belfast Waterworks Inlet, NBF3/4/19: Belfast Waterworks Final, NBF8/4/19: Belfast Sewerworks Final and NBF13/4/19:HA Grove Hospital tested positive for pathogenic bacteria (E.Coli/ Faecal coliform bacteria). These bacteria are disease forming and the water samples are not safe for human consumption. It is recommended to investigate the source of contamination and chlorinate these water samples for total disinfection. **DO NOT DRINK THIS WATER.**
- b.) Samples NBF10/4/19:Siyathuka Clinic, NBF11/4/19: Leratong Creche', NBF12/4/19: Siyathuthuka Community Hall, NBF14/4/19: Bottom End Liquer Store, NBF15/4/19: Belfast Old Age Home, NBF16/4/19: Siyathuthuka Reservoir complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. These water samples are bacteriologically suitable for domestic use.