


**MICROBIOLOGICAL ANALYSIS  
 TEST REPORT**

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

Date Received: **4-Dec-17**  
 Date Analyzed: **4-Dec-17**  
 Date Reported: **6-Dec-17**  
 Quantity Analyzed: **11**

 Ref No: **L 113 - 123 / 17 B**

LAB REF ID	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	
					YES	NO	A / B		
<b>WATERVALBOVEN</b>									
D	K 113	WB03/12/17: Watervalboven Waterworks Final	x		Nil	B	Nil	7	
S	K 114	WB8/12/17: Watervalboven Sewer Works Final	x		-	B	>1000	-	
D	K 115	WB10/22/17: Stand P118 (602)	x		Nil	B	Nil	6	
D	K 116	WB11/12/17: Khayalami Service Centre	x		Nil	B	Nil	36	
D	K 117	WB12/12/17: Vulindcondo Stimulation Centre	x		Nil	B	Nil	61	
D	K 118	WB13/12/17: Mississippi Resturant	x		Nil	B	Nil	9	
D	K 119	WB14/12/17: Technical Workshop	x		Nil	B	Nil	6	
D	K 120	WB15/12/17: Silverdays Old Age Home	x		Nil	B	Nil	9	
D	K 121	WB16/12/17: Boven Reservoir	x		>200	B	70	59	
METHOD USED					A - SANAS 5221 OR B - COLILERT		SANS 5221	COLILERT	SANS 5221

**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 species : 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.

SANS  
241-1  
Edition 2  
2015

**REMARKS:**

- Sample WB16/12/17: Boven Reservoir tested positive for Faecal coliform. These bacteria are pathogenic (disease forming) in nature 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.**
- Sample WB16/12/17: Boven Reservoir does not comply with the limit for E.coli in drinking water as set out in the SANS 241:2015 standard. These bacteria are pathogenic (disease forming) in nature 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 WB03/12/17: Watervalboven Waterworks Final, WB10/22/17: Stand P118 (602), WB11/12/17: Khayalami Service Centre, WB12/12/17: Vulindcondo Stimulation Centre, WB13/12/17: Mississippi Resturant , WB14/12/17: Technical Workshop, WB15/12/17: Silverdays Old Age Home complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. The water is bacteriologically suitable for domestic use.

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



CK. 89/14418/23

**REGEN WATERS**  
 LABORATORY • LABORATORIUM

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WATERVALBOVEN					YES	NO	A / B		
S	L 122	WB18/12/17: Elandsrivier Upstream From Sewer	x		>2420	B	650	461	880
S	L 123	WB20/12/17:Elandsrivier Downstream From Sewer	x		2420	B	585	411	420
METHOD USED					A - SANAS 5221 OR B - COLILERT		SANS 5221	COLILERT	SANS 5221

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