


**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-Jan-18
 Date Analyzed: 25-Jan-18
 Date Reported: 27-Jan-18
 Quantity Analyzed: 20**
Ref No: **A 1364 - 1383 / 18 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	
		DULLSTROOM	YES	NO		A / B			
D	A 1364	DS3/1/18: Dullstroom Waterworks Final	x		Nil	B	Nil	Nil	13
S	A 1365	DS8/1/18: Dullstroom Sewerworks Final	x		-	A	Nil	-	-
D	A 1366	DS10/1/18: Sakhelwe Clinic	x		Nil	B	Nil	Nil	6
D	A 1367	DS11/1/18: Cosmo General Dealer	x		Nil	B	Nil	Nil	1
D	A 1368	DS12/1/18: Sakhelwe Creche'	x		Nil	B	Nil	Nil	3
D	A 1369	DS13/1/18: La Bamba Centre	x		Nil	B	Nil	Nil	41
D	A 1370	DS14/1/18: Municipal Offices	x		Nil	B	Nil	Nil	37
D	A 1371	DS15/1/18: SA Epilepsy Centre	x		Nil	B	Nil	Nil	20
D	A 1372	DS16/1/18: Sakhelwe Reservoir	x		Nil	B	Nil	Nil	9
D	A 1373	DS18/1/18: Dullstroom Reservoir	x		>200	B	30	24	243
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 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.) Sample DS18/1/18: Dullstroom 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.**
- b.) Sample DS18/1/18: Dullstroom 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.**
- c.) Samples DS3/1/18: Dullstroom Waterworks Final, DS10/1/18: Sakhelwe Clinic, DS11/1/18: Cosmo General Dealer, DS12/1/18: Sakhelwe Creche', DS13/1/18: La Bamba Centre, DS14/1/18: Municipal Offices, DS15/1/18: SA Epilepsy Centre, DS16/1/18: Sakhelwe Reservoir 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

SANS
241-1
Edition 2
2015



CK. 89/14418/23
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					TOTAL COLIFORM BACTERIA PER / 100ML	A / B	FAECAL COLIFORM PER / 100 ML	ESCHERICHIA COLIFORM PER 100 ML	HETEROTROPHIC PLATE COUNT PER 1.0 ML
		WATERVALBOVEN	YES	NO					
D	A 1374	WB22/01/18: Watervalboven Waterworks Final	X		Nil	B	Nil	Nil	9
D	A 1375	WB23/1/18: Boven Reservoir	X		Nil	B	Nil	Nil	6
D	A 1376	WB24/1/18: Stand P118 (602)	X		Nil	B	Nil	Nil	3
D	A 1377	WB25/1/18: Khayalami Service Centre	X		Nil	B	Nil	Nil	7
D	A 1378	WB26/1/18 : Vulingcondo Stimulation Centre	X		Nil	B	Nil	Nil	6
D	A 1379	WB27/1/18: Mississippi Restaurant	X		Nil	B	Nil	Nil	7
D	A 1380	WB28/1/18: Technical Workshop	X		Nil	B	Nil	Nil	3
D	A 1381	WB29/1/18: Silverdays Old Age Home	X		Nil	B	Nil	Nil	3
D	A 1382	WB33/1/18: Leeuwspruit before Sewerworks	X		2420	B	92	74	2354
D	A 1383	WB35/1/18: Leeuwspruit after Sewerworks	X		>2420	B	1830	1414	2660
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
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SANS
 241-1
 Edition 2
 2015

REMARKS:

- a.) Samples WB33/1/18: Leeuwspruit before Sewerworks and WB35/1/18: Leeuwspruit after Sewerworks 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.
- b.) Samples WB33/1/18: Leeuwspruit before Sewerworks and WB35/1/18: Leeuwspruit after Sewerworks 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.
- c.) Samples WB22/01/18: Watervalboven Waterworks Final, WB23/1/18: Boven Reservoir, WB24/1/18: Stand P118 (602), WB25/1/18: Khayalami Service Centre, WB26/1/18 : Vulingcondo Stimulation Centre, WB27/1/18: Mississippi Restaurant, WB28/1/18: Technical Workshop, WB29/1/18: 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.

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