



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

4 Woltemade Street
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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 May 2019
 Date Analyzed: 23 May 2019
 Date Reported: 25 May 2019
 Quantity Analyzed: 11

Attention: Marianne Joubert
 Solly Links
 E-Mail : marianne.joubert2011@gmail.com
 Ref No: E 1245 - 1255 / 19 B

LAB REF ID	LAB NUMBER	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	
		DULLSTROOM	YES	NO		A / B			
D	E 1245	NDS1/5/19: Dullstroom Waterworks Inlet	X		1986	B	5	2	1400
D	E 1246	NDS3/5/19:Waterworks Final Treated	X		15	B	Nil	Nil	17
S	E 1247	NDS8/5/15: Sewage Works Final	X		-	B	30	-	-
D	E 1248	NDS10/5/19: Sakhelwe Clinic	X		Nil	B	Nil	Nil	12
D	E 1249	NDS11/5/19: Sakhelwe Community Hall	X		Nil	B	Nil	Nil	7
D	E 1250	NDS12/5/19: Sakhelwe Creche'	X		Nil	B	Nil	Nil	12
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:

- Sample NDS3/5/19:Waterworks Final Treated 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.
- Sample NDS1/5/19: Dullstroom 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 NDS10/5/19: Sakhelwe Clinic, NDS11/5/19: Sakhelwe Community Hall, NDS12/5/19: Sakhelwe Creche' complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. These water samples are bacteriologically suitable for domestic use.

P.L.G UYS / A.KOHR'S
 Technical Signatory



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					≤ 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	
		BELFAST	YES	NO		A / B			
D	E 1251	NDS13/5/19: La Bamba Centre	x		Nil	B	Nil	Nil	4
D	E 1252	NDS14/5/19: Municipal Office	x		Nil	B	Nil	Nil	5
D	E 1253	NDS16/5/19: SA Epilepsy Centre	x		1	B	Nil	Nil	6
D	E 1254	NDS18/5/19: Sakhelwe Reservoir	x		Nil	B	Nil	Nil	3
D	E 1255	NDS18/5/19: Dullstroom Reservoir	x		Nil	B	Nil	Nil	2
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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REMARKS:

- a.) Samples NDS13/5/19: La Bamba Centre, NDS14/5/19: Municipal Office, NDS16/5/19: SA Epilepsy Centre, NDS18/5/19: Sakhelwe Reservoir, NDS18/5/19: Dullstroom 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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