



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

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MICROBIOLOGICAL ANALYSIS TEST REPORT

Sample From:

Emakhazeni Town Council

Address: P O Box 17

Belfast

1100

Date Received:

30-May-18

Date Analyzed:

30-May-18

Date Reported:

1-Jun-18

Quantity Analyzed:

21

Ref No:

E 1359 - 1379 / 18 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	E 1359	BF3/5/18: Belfast Waterworks Final	X		15	B	Nil	Nil	87
S	E 1360	BF8/5/18: Belfast Sewerworks Final	X		-	B	Nil	-	-
D	E 1361	BF10/5/18: Siyathuthuka Clinic	X		70	B	Nil	Nil	96
D	E 1362	BF11/8/18: Leratong Creche'	X		83	B	Nil	Nil	128
D	E 1363	BF12/5/18: Stand 3423/3	X		78	B	Nil	Nil	81
D	E 1364	BF13/5/18: HA Grove Hospital	X		200	B	Nil	Nil	244
D	E 1365	BF14/5/18: Bottom End Liquor Store	X		200	B	Nil	Nil	284
D	E 1366	BF15/5/18: Belfast Old Age Home	X		>200	B	Nil	Nil	235
D	E 1367	BF16/5/18: Siyathuthuka Reservoir	X		70	B	Nil	Nil	130
D	E 1368	BF18/5/18: Belfast Old Reservoir	X		>200	B	Nil	Nil	448
D	E 1369	BF20/5/18: Belfast New Reservoir	X		>200	B	Nil	Nil	346
METHOD USED					A- SANAS 5221 OR B- COLILERT (MPN)		SANS 5221	COLILERT (MPN)	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.

REMARKS:

- a.) Samples BF10/5/18: Siyathuthuka Clinic, BF11/8/18: Leratong Creche', BF12/5/18: Stand 3423/3, BF13/5/18: HA Grove Hospital, BF14/5/18: Bottom End Liquor Store, BF15/5/18: Belfast Old Age Home, BF16/5/18: Siyathuthuka Reservoir , BF18/5/18: Belfast Old Reservoir and BF20/5/18: Belfast New Reservoir 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.

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

SANS
 241-1
 Edition 2
 2015



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MICROBIOLOGICAL ANALYSIS TEST REPORT

Sample From:

Emakhazeni Town Council

Address: P O Box 17

Belfast

1100

Date Received: 31-May-18

Date Analyzed: 31-May-18

Date Reported: 1-Jun-18

Quantity Analyzed: 21

Ref No: E 1359 - 1379 / 18 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
		DULLSTROOM	YES	NO					
D	E 1370	DS3/5/18: Dullstroom Waterworks Final	X		Nil	B	Nil	Nil	40
S	E 1371	DS8/5/18: Dullstroom Sewerworks Final	X		-	B	Nil	-	-
D	E 1372	DS10/5/18: Sakhelwe Clinic	X		Nil	B	Nil	Nil	18
D	E 1373	DS11/5/18: Cosmo General Dealer	X		Nil	B	Nil	Nil	36
D	E 1374	DS12/5/18: Sakhelwe Creche'	X		Nil	B	Nil	Nil	50
D	E 1375	DS13/5/18: La Bamba Centre	X		Nil	B	Nil	Nil	21
D	E 1376	DS14/5/18: Municipal Offices	X		Nil	B	Nil	Nil	15
D	E 1377	DS15/5/18: SA Epilepsy Centre	X		Nil	B	Nil	Nil	8
S	E 1378	DS16/5/18: Sakhelwe Reservoir	X		Nil	B	Nil	Nil	14
D	E 1379	DS18/5/18: Dullstroom Reservoir	X		Nil	B	Nil	Nil	12
METHOD USED					A- SANAS 5221 OR B- COLILERT (MPN)		SANS 5221	COLILERT (MPN)	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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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.) Samples DS3/5/18: Dullstroom Waterworks Final, DS10/5/18: Sakhelwe Clinic, DS11/5/18: Cosmo General Dealer, DS12/5/18: Sakhelwe Creche', DS13/5/18: La Bamba Centre, DS14/5/18: Municipal Offices, DS15/5/18: SA Epilepsy Centre, DS18/5/18: Dullstroom 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

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 Edition 2
 2015