



CK. 89/14418/23  
**REGEN WATERS**  
 LABORATORY • LABORATORIUM

4 Woltemade Street  
 P.O. Box 8328  
 WITBANK 1035  
 Tel.: 013-690-1487  
 Fax: 013-656-5050  
 E-mail: regenlab@mweb.co.za

### MICROBIOLOGICAL ANALYSIS TEST REPORT

Sample From:

**Nkangala District Municipality  
 Municipal Health Services  
 Emakhazeni Town Council**

**Address: Posbus 437  
 Walter Sisulu  
 Middelburg  
 1050**

Date Received:

29-Aug-18

Date Analyzed:

29-Aug-18

Date Reported:

31-Aug-18

Quantity Analyzed:

11

Ref No: H 1195 - 1205 / 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
<b>MACHADODORP</b>			YES	NO					
H 1195	MH5/8/18:	Leeuwspruit before Sewerworks	x		>2420	B	90	77	1860
H 1196	MH7/6/18:	Leeuwspruit after Sewerworks	x		>2420	B	2200	1986	1786
H 1197	MH36/8/18:	Emthonjeni Sewerworks Finalk	x		-	B	Nil	-	-
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:

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

**SANS**  
**241-1**  
**Edition 2**  
**2015**



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		<b>WATERVALBOVEN</b>	YES	NO		A / B			
H1198	WB25/8/18:	Elandsrivier Before Sewerworks	x		>2420	B	350	206	1470
H1199	WB27/8/18:	Elandsrivier After Sewerworks	x		>2420	B	990	866	1289
METHOD USED					A- SANAS 5221 OR B - COLILERT (MPN)		SANS 5221	COLILERT (MPN)	SANS 5221

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		<b>BELFAST</b>	YES	NO		A / B			
	H 1200	BF8/8/18: Belfast Sewerworks Final	X		-	B	Nil	-	-
D	H 1201	BF14/8/18: Bottom End Liquor Store	X		Nil	B	Nil	Nil	10
D	H 1202	BF18/8/18: Belfast Old Reservoir	X		Nil	B	Nil	Nil	17
D	H 1203	BF20/8/18: Belfast New Reservoir	X		Nil	B	Nil	Nil	14
D	H 1205	BF22/8/18: Belfast Waterworks Final	X		Nil	B	Nil	Nil	14
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*

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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 BF14/8/18: Bottom End Liquor Store, BF18/8/18: Belfast Old Reservoir, BF20/8/18: Belfast New Reservoir, BF22/8/18: Belfast Waterworks Final 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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		<b>RA</b>	YES	NO		A / B			
<b>D</b>	<b>H 1204</b>	<b>RA1/8/18: Sunbuny School</b>	<b>x</b>		<b>2</b>	<b>B</b>	<b>Nil</b>	<b>Nil</b>	<b>13</b>
METHOD USED					A- SANAS 5221 OR B - COLILERT (MPN)	SANS 5221	COLILERT (MPN)	SANS 5221	

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**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.

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

REMARKS:

- a.) Sample RA1/8/18: Sunbuny School 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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