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**MICROBIOLOGICAL ANALYSIS
 TEST REPORT**

Sample From: EMAKHAZENI LOCAL MUNICIPALITY

Address: P O Box 17

Belfast

1100

Attention: Marianne Joubert

E-Mail: marianne.joubert2011@gmail.com

Date Received: 15 March 2019

Date Analyzed: 15 March 2019

Date Reported: 17 March 2019

Quantity Analyzed: 6

Ref No: C 831 - 836 / 19 B

LAB REFID	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	
		MACHADODORP	YES	NO		A / B			
D	C 831	EMH5/3/19: Leeuwspruit River Before Sewage	x		172	B	Nil	Nil	123
D	C 832	EMH7/3/19: Leeuwspruit River After Sewage	x		>200	B	Nil	Nil	176
S	C 833	EMH9/3/19: Sewage Water Outlet Final	x		-	B	>1000	-	-
METHOD USED					A- SANAS 5221 (CFU) OR B - COLILERT (MPN)	SANS 5221 (CFU)	COLILERT (MPN)	SANS 5221 (CFU)	
REGEN WATERS METHOD : MLPM 4A AND 4 B									

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:
 a.) Samples EMH5/3/19: Leeuwspruit River Before Sewage and EMH7/3/19: Leeuwspruit River After Sewage have Total Coliform counts not within the SANS 241:2015 limit. These bacteria are not pathogenic (disease forming) but it is advised to chlorinate these water samples for total disinfection.

P.L.G UYS / A. KOHRS
 Technical Signatory



T0156

CK. 89/14418/23

REGEN WATERS

LABORATORY • LABORATORIUM

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		WATERVALBOVEN	YES	NO		A / B		
S	C 834	EWB8/3/19:Sewer Outlet Final	x		-	B	>1000	-
D	C 835	EWB17/3/19: Elandsriver Before Sewer	x		>2420	B	110	88
D	C 836	EWB19/3/19: Elandsriver After	x		>2420	B	1100	921
METHOD USED					A- SANAS 5221 (CFU) OR B - COLILERT (MPN)	SANS 5221 (CFU)	COLILERT (MPN)	SANS 5221 (CFU)
REGEN WATERS METHOD : MLPM 4A AND 4 B								

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

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SANS 241 2015

These results relate only to samples tested.

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

REMARKS:

- a.) Samples EWB17/3/19: Elandsriver Before Sewer and EWB19/3/19: Elandsriver After tested positive for pathogenic bacteria (E.Coli/ Faecal coliform bacteria). These bacteria are disease forming and the water samples are not safe for human consumption. It is recommended to investigate the source of contamination and chlorinate these water samples for total disinfection. DO NOT DRINK THIS WATER.

P.L.G UYS / A. KOHRS
Technical Signatory