

**CERTIFICATE OF MICROBIOLOGICAL ANALYSIS
TEST REPORT**

Sample From: **STEVE TSHWETE MUNICIPALITY** Address: **P.O. Box 14 MIDDELBURG 1050**
 Date Received: **16-Sep-14**
 Date Analyzed: **16-Sep-14**
 Date Reported: **18-Sep-14** ATT: **Zelda Louw**
 Quantity Analyzed: **34** Ref No: **I / 737 - 772 / 14 B**

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
		YES	NO					
I 737	Aerorand	x		Nil	A	Nil	-	6
I 738	Dennesig	x		6	A	Nil	-	84
I 739	Doornkop 1	x		Nil	A	Nil	-	9
I 740	Doornkop 2	x		Nil	A	Nil	-	4
I 741	Eastdene	x		12	A	Nil	-	46
I 742	Ext 4	x		Nil	A	Nil	-	46
I 743	Groenkol	x		10	A	Nil	-	10
I 744	Graspan Reservoir	x		Nil	A	Nil	-	29
I 745	Hendrina	x		Nil	A	Nil	-	6
I 746	Hendrina potable Plant Water	x		Nil	A	Nil	-	7
I 747	Komati	x		Nil	A	Nil	-	3
METHOD USED				A- SANAS 5221 OR B- COLILERT		SANS 5221	COLILERT	SANS 5221

S.A.N.S. 241-1:2011 MICROBIOLOGICAL REQUIREMENTS Allowable compliance for <i>DRINKING WATER</i>			
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
241-1
Edition 1
2011

These results relate only to samples tested.
Opinions and interpretations expressed herein are outside the scope of SANAS accreditation.

REMARKS:

- a.) The **Eastdene** sample contain excess levels of Total Coliform bacteria. These bacteria are not pathogenic (disease forming) in nature, however it is advisable to Chlorinate this water to achieve complete disinfection.
- b.) All of the other samples fulfill the bacteriological criteria as specified by the SANS 241 Standard for human consumption.


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

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		YES	NO					
I 748	Kranspoort	x		Nil	A	Nil	-	6
I 749	Kwaza	x		Nil	A	Nil	-	3
I 750	Loskop Final	x		Nil	A	Nil	-	329
I 751	Loskop Raw	x		33	A	Nil	-	787
I 752	Mhluzi	x		4	A	Nil	-	119
I 753	Nasaret Reservoir	x		Nil	A	Nil	-	16
I 754	Nasaret	x		7	A	Nil	-	25
I 755	Newtown	x		4	A	Nil	-	60
I 756	Presidentrus WTP	x		Nil	A	Nil	-	31
I 757	Pullenshope Clinic	x		Nil	A	Nil	-	24
I 758	Rietkuil	x		Nil	A	Nil	-	9
I 759	Service Centre	x		5	A	Nil	-	65
METHOD USED				A- SANAS 5221 OR B - COLILERT		SANS 5221	COLILERT	SANS 5221

**S.A.N.S. 241-1:2011 MICROBIOLOGICAL REQUIREMENTS
Allowable compliance for DRINKING WATER**

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REMARKS:

- a.) The Loskop Raw sample contain excess levels of Total Coliform bacteria. These bacteria are not pathogenic(disease forming) in nature however it is advisable to Chlorinate this water to achieve complete disinfection
- b.) All of the other samples fulfill the bacteriological criteria as specified by SANS 241 Standard for Human Consumption.



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		YES	NO	A / B				
I 760	Tosca	x		Nil	A	Nil	-	51
I 761	Vaalbank Final	x		Nil	A	Nil	-	49
METHOD USED				A- SANAS 5221 OR B - COLILERT	SANS 5221	COLILERT	SANS 5221	

/ or Faecal Coliform bacteria	Acute Health - 1	Count per 100 ml	Not Detected
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EFFLUENT WATER
 Regional Standard (Department Water Affairs and Forestry) of 26 March 2004 No.399 for Waste water specifies :
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REMARKS:

- a.) Both samples above fulfill the bacteriological criteria as specified by the SANS 241 Standard for human consumption.


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		YES	NO	A / B				
I 762	Vaalbank WTP Raw	x		Nil	A	Nil	-	156
I 763	Bankfontein	x		Nil	A	Nil	-	351
I 764	Komati Reservoir	x		Nil	A	Nil	-	10
I 765	Kranspoort Raw	x		310	A	25	-	226
I 766	Krugersdam WTP Final	x		Nil	A	Nil	-	12
I 767	Krugersdam WTP Raw	x		15	A	1	-	141
I 768	Lesedi	x		Nil	A	Nil	-	22
I 769	Mafube	x		Nil	A	Nil	-	12
I 770	Naledi	x		Nil	A	Nil	-	12
I 771	Presidentsrus WTP Raw	x		80	A	Nil	-	350
I 772	Presidentsrus Village	x		Nil	A	Nil	-	141
METHOD USED				A- SANAS 5221 OR B - COLILERT		SANS 5221	COLILERT	SANS 5221

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REMARKS:

- The Kranspoort Raw and Krugersdam WTP Raw samples contain high levels of pathogenic (disease forming) bacteria.
- The Presidentsrus WTP Raw sample contain excess levels of Total Coliform bacteria. These bacteria are not pathogenic (disease forming) in nature.
- All of the other samples fulfill the bacteriological criteria as specified by the SANS 241 Standard for drinking water.


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