

**MICROBIOLOGICAL ANALYSIS
TEST REPORT**

Sample From: ARNOT POWERSTATION **Address:** Private Bag X 2
Rietkuil
1097

Date Received: 31-Oct-13

Date Analyzed: 31-Oct-13

Date Reported: 2-Nov-13

Quantity Analyzed: 2 **Ref No:** J / 1376 - 1377 / 13 / B

LAB NO	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	
		YES	NO	A / B				
J 1376	Potable Water	x		Nil	B	-	Nil	1
J 1377	Raw Water	x		96	B	-	5	169
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**

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

SANS
241-1
Edition 1
2011

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.**

REMARKS:

- a.) The **Potable water** fulfils the bacteriological criteria as specified by the SANS 241 Standard for drinking water.
- b.) The **Raw Water** sample contain all types of bacteria especially E-Coli bacteria. These bacteria are pathogenic in nature. DO Not drink this water until further treated with Chlorine.

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