

Water, Sewage & Industrial Effluent Testing Laboratory

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ILembe District Municipality
Stanger Bacteriological Sample

L/PR/ROUTINE/2014 20-05-2014
 21-05-2014
 EMAIL: GROUP DETAILS

Attention: Mr. H N Maphumulo

Dear Sir

PRELIMINARY BACTERIOLOGICAL RESULTS

Find to follow the bacteriological results for Stanger bacteriological sample collected on 20-05-2014 that does not comply with the bacteriological requirements as per **SANS-241-2011**.

SAMPLE NAME	TEST PERFORMED				
	Method No (P09/103) Total Plate Count / 1ml	Method No (P09/102) Total Coliform Bacteria / 100 ml	Method No (P09/046) Faecal Coliform Bacteria / 100ml	Method No (P09/046) E Coli Type 1 Bacteria / 100 ml	Method No (P09/023) Free residual Chlorine mg/l
5953 Lindelani Ext 46 Saunders Street (STB 2)	In progress	1	1	1	1.22
SANS 241-1:2011 Microbiological Determinands					
	1	2	3	4	5
1 Determinand	Total Plate Count	Total Coliform Bacteria	Faecal Coliform Bacteria (a)	E.coli Type 1 Bacteria (b)	Free Residual Chlorine
2 Risk	Operational	Operational	Acute health -1	Acute health -1	Chronic health
3 Units	cfu/1ml	cfu/100ml	cfu/100ml	cfu/100ml	mg/l
4 Standard Limit	≤1000	≤10	<i>Not detected</i>	<i>Not detected</i>	≤5

a = Indicator of unacceptable microbial water quality, could be tested instead of *E.coli*, but is not the preferred Indicator of faecal pollution. Also provides information on treatment efficiency and aftergrowth in distribution Networks.

b = Definitive, preferred indicator of faecal pollution.

Laboratory Comment:

The presence of faecal coliforms & *E.coli* bacteria pose a health hazard if consumed as these are disease causing bacteria of faecal origin. The water should be boiled prior to consumption. A resample of the water should be analyzed to confirm corrective actions. Please instruct laboratory ASAP.



Dawn Bester
B.N.Kirk (Natal)cc
Laboratory Manager



Lisa Govender
Microbiologist