b.n. kirk (natal) cc Reg.No. CK 94/15428/23

Water, Sewage & Effluent Treatment Specialists Consulting Chemists, Process Engineers

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CLIENT:	Rust Bullet	BNK Ref.	Lab/Misc/Rust Bullet
ATTENTION	Richard Bate	Date Received:	27-06-2011
e-mail	richard@rustbulletsouthernat	frica.com Report date:	30-06-2011
ORDER NUMBER	Cash client		

BACTERIOLOGICAL RESULTS

SANS 241 - 2006

		I	Allowable compliance contribution (A)		
Determinand	Units	95% if sample, min	samples.		
1	2	3	4	5	
Faecal Coliforms (C)	counts /100 ml	not detected	1	10	
eColi Bacteria (B)	counts /100 ml	not detected	not detected	1	

- A = The allowable compliance contribution shall be at least 95% to the limits indicated in column 3, with a maximum of 4% and 1% respectively, to the limits indicated in column 4 and column 5. The objective of disinfection should nevertheless be to attain
- $\mathbf{B} = \text{Definitive}$, preferred indicator of faecal pollution.
- C= 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 after growth in distribution networks.

Determinand	Unit		Operational Water Quality Alert Values			
1	2		3			
Residual Chlorine	mg/l		0.5 (a)			
Heterotrophic plate count (b)	count / ml		5000			
(Total) Coliform Bacteria ©	count /	′ 100ml		10	10	
Sample 27-06-2011	Free Residual Chlorine mg/l	Total Residual Chlorine mg/l	Total Plate Count count / 1ml	Total Coliform Bacteria count / 100ml	Faecal Coliform Bacteria count / 100ml	E.Coli Bacteria count / 100ml
Sample 1	no data	no data	0	0	0	0
KEY: ns = not specified			** = Too nu	merous to	c## = atypica	l colonies

Note: Bacteriological Quality

- a) dependent on network caracteristics and chloirine demand. A residual of 0.5mg/l applies to the waterwork's final water. The appropriate level in distribution system is 0.2mg/l. where other disinfectants are used, appropriate alert values should be sele
- b) Process indicator that provides information on treatment efficiency and aftergrowth in distribution networks.
- c) Indicates potential faecal pollution and provides information on treatment efficiency and aftergrowth.

for and on behalf of B N KIRK (Natal)cc

30-06-2011

Laboratory Manager

Dated

Disclaimer:

- 1. While every reasonable precaution is taken in obtaining these results the Company does not accept responsibility
- 2. In the case of sample/s submitted by the client, the results expressed in this certificate represent only the sample/s
- 3. This certificate shall not be reproduced except in full, without the written approval of the Company