



RONEY HOFFMANN CONSULTANTS CC
WATER AND WASTE WATER PROCESS CONSULTANTS

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CLIENT	GEO-LOGIC TT
SAMPLE REF	WALKERVILLE
DATE SAMPLE SUBMITTED	26 MARCH 2010
RHC REF NO	PM 2010-3/26a

CHEMICAL TESTS	UNIT	WBH 2D	WBH 1D	SOUTH AFRICAN DRINKING WATER STANDARDS SABS 241 : 2006 : ABBREVIATED		
		BOREHOLE 2		Class I (recommended)	Class II (max. allowable)	Class II (max. period)
pH	-	7.1	6.9	5,0 - 9,5	4,0 - 10,0	No limit
Electric conductivity	mS/m	58	69	< 150	150 - 370	7 years
Total dissolved solids	mg/l	486	537	< 1 000	1 000 - 2 400	7 years
Colour	mg/l Pt	> 70	-	< 20	20 - 50	no limit
Turbidity	NTU	> 1 000	-	< 1	1 - 5	no limit
Suspended solids	mg/l	4 110	-	n.s.	n.s.	n.s.
Total hardness as CaCO ₃	mg/l	290	340	n.s.	n.s.	n.s.
Calcium hardness as CaCO ₃	mg/l	140	150	n.s.	n.s.	n.s.
Magnesium hardness as CaCO ₃	mg/l	150	190	n.s.	n.s.	n.s.
Total alkalinity as CaCO ₃	mg/l	250	290	n.s.	n.s.	n.s.
Sodium	mg/l	20	13	< 200	200 - 400	7 years
Calcium	mg/l	56	60	< 150	150 - 300	7 years
Magnesium	mg/l	36	46	< 70	70 - 100	7 years
Bicarbonate	mg/l	305	354	n.s.	n.s.	n.s.
Chloride	mg/l	35	35	< 200	200 - 600	7 years
Sulphate	mg/l	30	25	< 400	400 - 600	7 years
Nitrate	mg/l	3.5	3.9	< 10	10 - 20	7 years
Fluoride	mg/l	0.2	0.3	< 1	1 - 1.5	1 year

Ammonia nitrogen	mg/l	0.7	0.3	-	-	-
o-Phosphate as P	mg/l	1.7	-	-	-	-
COD	mg/l	480.0	10	-	-	-
Heterotrophic plate count	cfu/ml	15 520	7 040	-	-	-
Faecal coliform bacteria	cfu/100 ml	110	0	not detected	1	10

JRH Hoffmann -

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31 MARCH 2010