



SWEP
PTY. LTD.

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**ANALYTICAL
LABORATORIES**

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MICRONIX OZONE 03 GENERATOR TEST

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FILE NO : 070351494, 070351495

DATE ISSUED 10/04/2007

GATEMASTER OZONE
SHOP 39-A, HUB AIRCADE
21 LANGHORNE ST
DANDENONG, VIC 3175

CLIENT ID TAS005
PHONE : 9701 7144

DATE RECEIVED : 27/03/2007
ANALYSIS REQUIRED : Full + Biological

As Requested:

The original water sample (070351494) was analysed without any prior treatment. This sample was then treated for 30 minutes (070351495) using the Micronix Ozone 03 Generator machine.

Please Note:

Only normal air oxygen (21%) was used as the machine was running, no other treatment was used in the process.

BIOLOGICAL RESULTS

**The Biological bacteria was extremely high in the original sample. Once this sample was treated the biological result was then brought to Zero.*

BEFORE TREATMENT

*TOTAL COLIFORMS	cfu	100,000,000(1X10 ⁸ cfu)	Extremely High
*E. COLI (Escherichia Coli)	cfu	2,000,000(2x10 ⁶ cfu)	Extremely High
	cfu	= colony forming unit	

AFTER TREATMENT

*TOTAL COLIFORMS	cfu	Nil	Zero
*E. COLI (Escherichia Coli)	cfu	Nil	Zero
	cfu	= colony forming unit	

OTHER ELEMENTS TESTED

**Before Treatment the Turbidity and Suspended solids tested too high for Human Consumption.*

**All other elements tested in both samples (Before Treatment, and After Treatment) are under the 'Maximum Allowable Concentration' for Human Consumption, according to the World Health Organisation.*

ITEMS	ABBREVIATION	UNIT	RESULTS	RESULTS
File No:			070351494	070351495
			<i>Before Treatment</i>	<i>After Treatment</i>
pH			6.9	5.8
			<i>Slightly Acidic</i>	<i>Moderately Acidic</i>
Electrical Conductivity		µS/cm	188	216
TOTAL CARBONATE	CO ₃	mg/litre	Nil	Nil
TOTAL BICARBONATE	HCO ₃	mg/litre	55	31
TOTAL CHLORIDE	Cl	mg/litre	34	43
TOTAL FLOURIDE	F	mg/litre	0.24	0.94
SULPHATE	SO ₄	mg/litre	4.8	5.4
PHOSPHATE	PO ₄	mg/litre	3	2.5
TOTAL SILICA	Si	mg/litre	0.92	1.44
NITRATE	NO ₃	mg/litre	0.9	1.2
AMMONIUM	NH ₄	mg/litre	1.66	14.2
TOTAL HARDNESS as CaCO ₃			35.7	44.82
ION BALANCE: Total Anions		meq/litre	1.96	1.83
Total Cations		meq/litre	1.39	1.84
TOTAL ALUMINIUM	Al	mg/litre	0.04	0.07
TOTAL CALCIUM	Ca	mg/litre	11	13
TOTAL IRON	Fe	mg/litre	0.19	0.17
TOTAL MAGNESIUM	Mg	mg/litre	2	3
TOTAL POTASSIUM	K	mg/litre	6	6
TOTAL STRONTIUM	Sr	mg/litre	0.06	0.06
TOTAL BARIUM	Ba	mg/litre	0.02	0.03
TOTAL MANGANESE	Mn	mg/litre	0.01	0.009
TOTAL SODIUM	Na	mg/litre	12	18
TURBIDITY		NTU	16.9	4.81
			high	low
SUSPENDED SOLIDS		mg/litre	48.1	19
			high	low
TOTAL DISSOLVED SOLIDS	TDS	mg/litre	120	138

COMMENTS

Before testing, the water sample was extremely high with bacteria and suspended solids. This produced a level of turbidity which was too high for human consumption. After treating the water for 30 mins with the Micronix Ozone O3 Generator, the bacterial content in the water was brought to zero and the turbidity and suspended solids was dramatically reduced to below the Maximum Allowable Concentration for Human Consumption, according to the World Health Organization.

As a result from using the Micronix Ozone O3 Generator, bacterial contamination was eliminated and turbidity and suspended solids reduced to below the maximum acceptable levels - thus making the water suitable for human consumption.

Signed: 

E.H. (Ted) Mikhail

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