

MOGALE CITY LOCAL MUNICIPALITY						TABLE A11
APPROVED WATER & SANITATION: 2009/2010						
WATER				2008/09	2009/10	INCREASE
Domestic Water Tariffs				R	R	
0-6 kl				0	0	0%
7-5 kl				7.21	8.32	15.3%
16-30 kl				8.94	10.31	15.3%
31-45 kl				10.41	12.00	15.3%
46-60 kl				11.48	13.24	15.3%
61 kl				12.55	14.47	15.3%
Sectional titles(Residential)						
0-500 kl					12.02	15.3%
501-50000 kl					9.02	15.3%
50000 kl					9.02	15.3%
Other consumers: Schools, NGO's and Hospitals						
Per kl				8.36	9.64	15.3%
Business and industrial consumers						
0-500 kl				10.43	12.02	15.3%
501-50000 kl				7.82	9.02	15.3%
50000 kl				7.82	9.02	15.3%
Fire hydrant charges						
Temporary stanpipe connection to fire hydrant				2,426.98	2,798.30	15.3%
Using a fire service connection for purposes not related to fire extinguishing fire				To be quoted	To be quoted	
Resealing of fire hose reel and hydrant when they are broken				0	0	
Hire of fire services per month				0	0	
Other water related services						
Pre-paid water token				121.35	139.92	15.3%
Conlog water token				121.35	139.92	15.3%
Kent water token				121.35	139.92	15.3%
Laserotech water token				121.35	139.92	15.3%
Water connections						
15mm (pre-paid water meter)				3,033.72	3,497.88	15.3%
25mm (not combo meter)				To be quoted	To be quoted	
50mm (not combo meter)				To be quoted	To be quoted	
80mm				To be quoted	To be quoted	
100mm				To be quoted	To be quoted	
Testing of water meters						
15mm				412.13	475.18	15.3%
25mm				428.16	493.66	15.3%
50mm				483.11	557.02	15.3%
80mm				509.44	587.38	15.3%
100mm				773.88	892.29	15.3%
Installation of water lines						
25mm				To be quoted	To be quoted	
50mm				To be quoted	To be quoted	
75mm				To be quoted	To be quoted	
110mm				To be quoted	To be quoted	
160mm				To be quoted	To be quoted	
Domestic water tariffs						
200mm				723.51	834.21	15.3%
250mm				724.66	835.53	15.3%

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Pre-paid water meters					
Vandalised			3,033.72	3,497.88	15.3%
Tampered with			3,033.72	3,497.88	15.3%
Services Fines					
Obstructed			3,033.72	3,497.88	15.3%
By-passed			3,033.72	3,497.88	15.3%
Removed/theft			3,033.72	3,497.88	15.3%
Termination of water meter			437.31	504.22	15.3%
Deposit for construction site connection			2,426.98	2,798.30	15.3%
False water/sewer complaint			467.08	538.54	15.3%
Pressure test			424.72	489.70	15.3%
Meter test			To be quoted	To be quoted	
Pipeline inspection - water / sewer: 1st inspection per hour			To be quoted	To be quoted	
Pipeline inspection - water / sewer: 2 nd inspection per hour			500.00	576.50	15.3%
SANITATION					
Sanitation tariff structure			R	R	
per kl/month					
0-6			0	0	0%
7-15			31.34	34.47	10%
16-30			74.87	82.36	10%
31-45			109.69	120.66	10%
46-60			113.56	124.92	10%
60			121.31	133.44	10%
Wastewater tariff structure					
Residential Consumers			450.00	495.00	10%
Additional sewage fixed usage of 301kl per month			91.22	100.34	10%
Basic charge per m2			0.01	0.01	10%
Additional sewage for Rievallei/ Lusaka/Ga-Mohale			45.62	50.18	10%
Business, Schools, NGO, Hospital Consumers Additional sewage 6 months average kl usage/month			3.05	3.35	10%
Sewer Connections					
110 mm			To be quoted	To be quoted	
160 mm			To be quoted	To be quoted	
Higher /lower of manhole on private property			To be quoted	To be quoted	
Termination of sewer connection			1,500.00	1,650.00	10%
Indication of sewer connection			750.00	825.00	10%
Vacuum Tank Services					
Removal of soil-water and wastewater within 15 km from town hall					
Sewage per kl hauled			36.40	40.05	10%
Per Hole			182.02	200.23	10%
Removal of soil and wastewater 15 km from Town Hall					
Per kl hauled			43.69	48.05	10%
Per Hole			218.43	240.27	10%
Industrial effluent per kl hauled			66.74	73.42	10%
Per Hole			364.05	400.45	10%
Council purposes per kl hauled			36.40	40.05	10%
Per Hole			145.62	160.18	10%
Outside the jurisdiction per kl hauled			36.40	40.05	10%
Per Hole			1,213.49	1,334.84	10%
Water and Wastewater Analytical Charges					
Full Chemical & Bacteriological Analyses			1,287.90	1,416.69	10%
Full Chemical Analyses			1,070.39	1,177.43	10%

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Full Bacteriological Analyses			366.34	402.97	10%
Report			84.24	92.66	10%
Activated sludge			207.36	228.10	10%
Alkalinity(Talk)			39.96	43.96	10%
Aluminium (Al)			56.16	61.78	10%
Bacteria-Escherichia coli (EC)			79.92	87.91	10%
Bacteria- Faecal Coliforms (FC)			79.92	87.91	10%
Bacteria-Faecal Streptococci (FS)			88.56	97.42	10%
Bacteria-Heterotropic count (SPC)			79.92	87.91	10%
Bacteria-Total Coliforms (TC)			79.92	87.91	10%
Bacteria Swab Analysis (SPC,TC,EC)			221.40	243.54	10%
Beryllium (Be)			46.44	51.08	10%
Boron (B)			56.16	61.78	10%
Cadmium (Cd)			41.04	45.14	10%
Calcium (Ca)			46.44	51.08	10%
Chemical Oxygen Demand (COD) Filtered			88.56	97.42	10%
Chemical Oxygen Demand (COD) Total			79.92	87.91	10%
Chloride (Cl)			46.44	51.08	10%
Chlorine (Cl2)			23.76	26.14	10%
Chlorine (Cl2) Total			23.76	26.14	10%
Chromium-hexavalent			41.04	45.14	10%
Chromium-total (Cr)			56.16	61.78	10%
Cobalt (Co)			41.04	45.14	10%
Colour			22.68	24.95	10%
Copper (Cu)			41.04	45.14	10%
Cyanide-free (CN)			56.16	61.78	10%
Cyanide-total (CN)			61.56	67.72	10%
Electricity Conductivity (EC)			23.76	26.14	10%
Fluoride (F)			56.16	61.78	10%
Hardness-Calcium			8.64	9.50	10%
Hardness-Magnesium			8.64	9.50	10%
Hardness-total			8.64	9.50	10%
Iron (Fe)			41.04	45.14	10%
Langelier Index			9.72	10.69	10%
Lead (Pb)			41.04	45.14	10%
Magnesium (Mg)			41.04	45.14	10%
Manganese(Mn)			41.04	45.14	10%
Mercury (Hg)			221.40	243.54	10%
Microscopic Analysis			79.92	87.91	10%
Nickel (Ni)			41.04	45.14	10%
Nitrogen-Ammonia			39.96	43.96	10%
Nitrogen-Kjeldahl			97.20	106.92	10%
Nitrogen-Nitrate			56.16	61.78	10%
Nitrogen-Nitrate			56.16	61.78	10%
Odour(Volatile)			12.96	14.26	10%
Oil & Crease			133.92	147.31	10%
Osec Determination			56.16	61.78	10%
Oxygen-Dissolved			39.96	43.96	10%
Oxygen Uptake Rate			9.72	10.69	10%
PH			25.38	27.92	10%
Phenol			56.16	61.78	10%
Phosphate-Ortho			45.90	50.49	10%
Phosphate Total			74.52	81.97	10%
Potassium			41.04	45.14	10%
Precipitation Potential			9.72	10.69	10%
Ryznar Index			9.72	10.69	10%
Silicon (Si)			56.16	61.78	10%
Sludge Volume Index (SVI)			25.38	27.92	10%
Sodium (Na)			41.04	45.14	10%
Sodium absorption ratio			8.64	9.50	10%
Solids-Mixed Liquor Suspended			43.20	47.52	10%

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Solids-Mixed Liquor Volatile Suspended				46.98	51.68		10%
Solids-Suspended (SS)				41.04	45.14		10%
Solids-Total (TS)				41.04	45.14		10%
Solids-Total Dissolved				49.68	54.65		10%
Solids-Volatile (VS)				43.20	47.52		10%
Standard Oxygen Requirement				9.72	10.69		10%
Sulphate				56.16	61.78		10%
Sulphide				56.16	61.78		10%
Temperature				12.96	14.26		10%
Total Metal Content				9.73	10.70		10%
Turbidity				22.90	25.19		10%
Volatile Fatty Acids				66.40	73.04		10%
Zinc (Zn)				41.21	45.33		10%
DWS FLIP HUMAN WATER CARE WORKS							
Capital cost of network (R) / Total area served by network (Sa)				71.71	78.88		10%
Capital cost of outfall sewers (S) / total annual sewage flow to works (Sb)				0.08	0.09		10%
Capital cost of sewage works (T) / total annual sewage flow to works (Sb)				1.63	1.79		10%
Overhead costs of sewage network including 40% of overhead costs of works and laboratory (X) / total annual sewage flow to works (Sb)				1.06	1.17		10%
Overhead costs of sewage network including 60% of overhead costs of works and laboratory (Z) / total annual sewage flow to works (Sb)				0.74	0.82		10%
S + T +X				2.76	3.04		10%
Total area served by network (Sa)				32,000,000	35,200,000		10%
Effluent flow from premises (b)				N/A	N/A		
Total annual sewage flow to works (Sb)				15,000,000	16,200,000		8%
The monthly arithmetical average of the Chemical Oxygen Demand of the effluent measured in mg/l (COD)				N/A	N/A		
Average Chemical Oxygen Demand of the raw sewage flowing to the works measured in mg/l (COD5)				1000	1100		10%