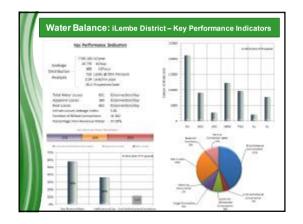
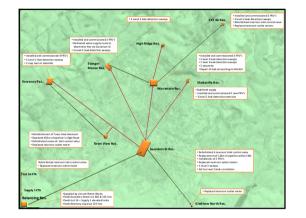
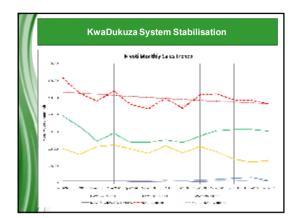


	Authorised	Billed Authorised Consumption ±12.0%	Billed Metered Consumption	Revenue Water ±12.09	
System Input	Consumption	8938 128	Billed Unmetered Consumption ±5.0% 0	8 938 128	
Volume	±9.4%	Unbilled Authorised Consumption ±6.8%	Unbilled Metered Consumption	Non- Revenue Water	
	11 543 021	2 604 893	Unbilled Unmetered Consumption ±10.0% 1719 229		
±8.0%	Water Losses	Apparent Losses ±12.6%	Illegal Connections ±15.0% 1621 399	±10.79	
	±13.5%	1934 233	Metering Inoccuracies ±3.5% 312834		
21 058 419		Real Losses	Mains Leaks ±10.0% 5 306 815	12 120 291	
	9 515 398	±7.2%	Reservoir Overflows ±5.0% 37906	12 120 291	
		7581 165 KING SHAKA	Service Connection Leaks ±5.0% 2 236 444		



	-					Line		1		111		
1.00	19.15	- ar			$\mathbf{x} \in \{x_i\}$		1.00				· · ·	
1.41.5	•	-										
2012/01	- 53			÷.	2.2		- C1	122		100		
					Sec. 24			- 12				
And some fields					N 1 1			1.54				
Second Second		- 14	SI		160.000			1.1	441			
1.1			3.2	÷.	a. a	a -	122	- 5	35		12	
	Anno Norselle Millerette	11	-	Name of Column	-		tere tertana dana 191		3	ċ		
	Anno Karashi Jarinatu	tine to the test							3			
	Amer Manatol Million Million Million Million Million	0.00	-	4.10	144	1.10			3	::		
	1010	10.00		410	140	11 MM 12 MM 12 MM			2			
	1010	0.00 1000 1010	10	418 210 110 110	100	119 200 200			1.0	1		
	1010	10.00		410	140	11 MM 12 MM 12 MM			1	13°		
	1010	0.00 0.00 0.00 0.00	1122	110 100 100	100	1000			1			
	11111111111111111111111111111111111111	110010	111211	10000000		1121222				11		
	010	100 100 100 100 100	1122	11111	1000000	1121111						





System Monitoring

- Monthly computation of Water Balance throughout district
- Monthly evaluation and tracking of Billing data
- Burst record tracking where possible
- Permanent logging of priority areas using GSM loggers
- Routine logging for analysis of Real Losses
- Ad hoc reactive logging as necessary for system stabilisation /
- leak detection exercises
- Compilation of Operations and Maintenance Manual
- Capturing field/system data onto GIS (ongoing)





- Length of mains relaid in KwaDukuza, CBD East: 3 029m
- Length of mains relaid in KwaDukuza, CBD Central: 9 173m
- Length of mains relaid in KwaDukuza, Ogle Road: 450m
- Length of mains relaid in Zinkwazi, Nkwazi Drive: 1 800m
- Length of mains to be relaid in Mandini (due to start) : 4 400m



Pressure Reduction Programmes

- Installation of 16 new Pressure Reducing Valves in KwaDukuza
- These valves equate to an annual saving of R 4 228 772
- Installation of advanced controllers enables water provision to low income zones on a demand analysis.





Leak Detection Programme



Repairs to Reservoirs and Level Control Valves

- Replaced 9 Reservoir inlet level control valves
- Complete refurbishment of Town View Reservoir
- Repaired Leaks on Kearsney Reservoir

Replacement of 6 Reservoir outlet flow meters



Public Awareness Programme

Consumer awareness programme (Be Water Wise / Report Leaks)
Distribution of educational / awareness material
Interaction with various Ward Councillors and Schools
Training and development of local contractors



Addressing illegal connections

- Identification of illegal connections
- Regularisation of illegal connections
- Community education and awareness



KPI's	Tasks	Critical Success Factors	Objectives	s GOAL	
System Stabilising	Analysis of various systems Installation of flow loggers Updating of records/plans Regulation of water supply	System Measurement & Stabilisation	• Quality Assurance		
Reduction of pressure and leakage	Leak detection programme Pressure reduction program Pipe replacement / refurbis programme		• Monitoring and Evaluation	Reduce	
Service Delivery Efficiency	Computation of Water Bala improvement of Billing syst Reduction of illegal connec Raising of community awareness Sustained intervention &	ems Water Conservation	• Financial Management	to 25% by Volume	
Increased revenue	Maintenance IDM Internal capacity MTEF budget allocations Alternate funding	Approval of required budget	• Resource / Institutional Management		