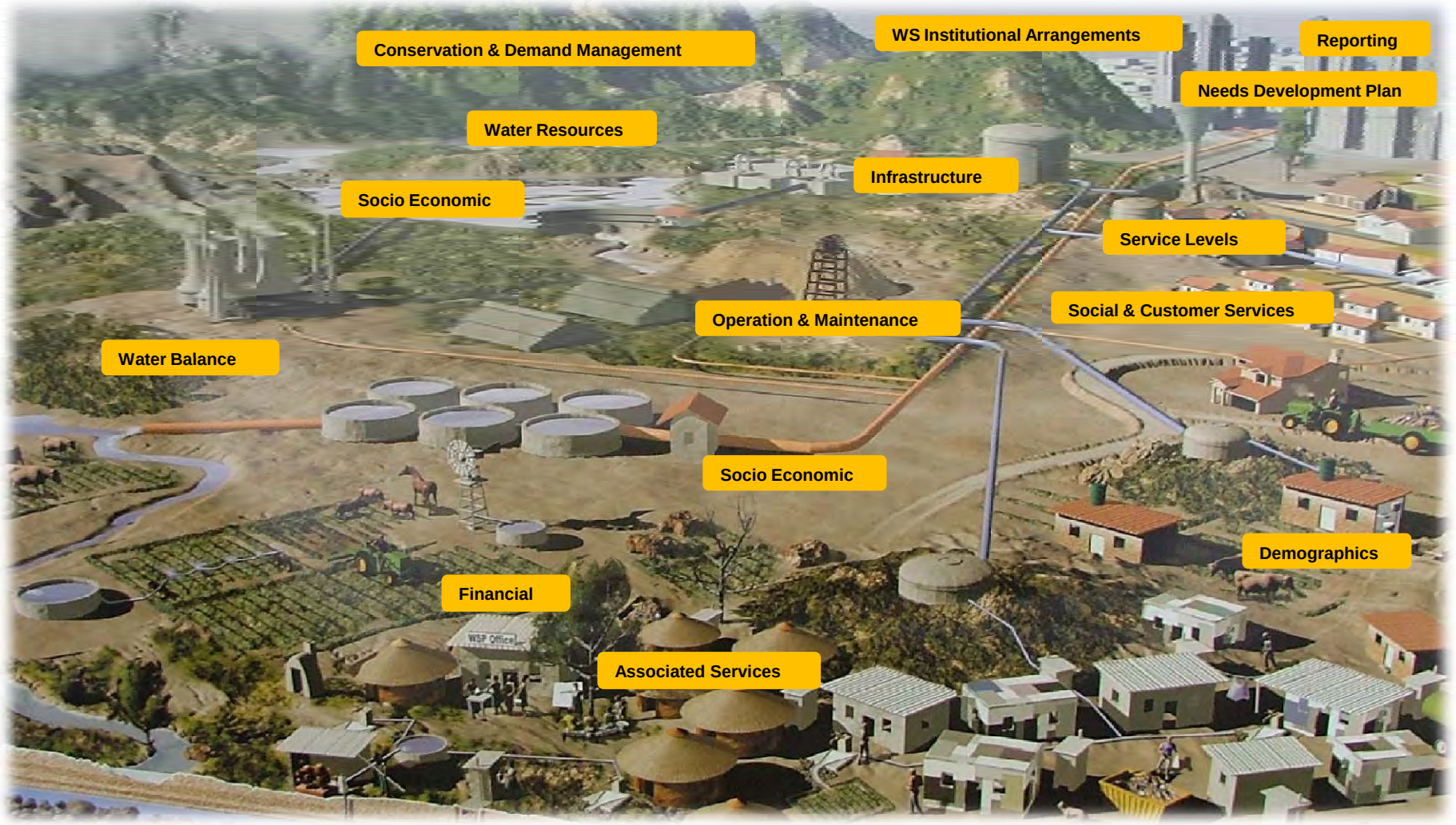
WATER SERVICES DEVELOPMENT PLAN

Metsimaholo Local Municipality 2012

Module 1: Overview and Assessment of the Status of Information and Strategies on a WSA Level



Document Date: FEBRUARY 2012

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WATER SERVICES DEVELOPMENT PLANNING CYCLE

II

Water Services Development Plan Requirements

Council Approval Status

Status: In Process, Completed, Outstanding, Approved

Approval: Signature, Name, Date

Knowledge

Obtain an in-depth knowledge of overall WSA Water Services situation. Evaluate information. Identify gaps and shortcomings

Information

Obtain detail information to address gaps identified in module 1. Incorporate into module 2

Strategies

Obtain existing Plans & Strategies.

Develop strategies identified as gaps in module 1. Incorporate into module 3

Development Plan

Reporting

Extract to produce strategic overview & Interpretation Reports

Report to DWA
Link reporting requirements to topics in

Inputs towards IDP & WSA Annual Business Plan

Update Knowledge Base

Module 1: Comprehensive Overview and Assessment

All related enabling factors per water services topic listed in a tabular format to present an overall status quo of information on a WSA level. The section also references the enabling factors against Compliancy and Needs development plan criteria to provide an overall WSA WSDP assessment
NB: This document should be completed on a pre-compiled electronic format available at www.dwa.gov.za and submitted as a data document, not image

Current Document

Completed | | | |

Module 2: Detail information on component level

This module will provide detail information regarding the different topics as well as house all information regarding certain aspects within a topic.

Knowledge Base: Detail Geo-Database structure to house information that module 1 is build on

Knowledge Assessment: Report on completeness and correctness of data

In Process | | | |

Module 3: WSDP

Index and Assessment per strategy:
Development Planning Process Status Quo Assessment Executive Summary per strategy

WSDP Strategic Process Flow:
Current Requirement Development Plans
Future Requirement Development Plans

WS Component Strategy Plans
Demographics, Service Levels, Socio Economic, WS Infrastructure, Operation & Maintenance, Associated Services , Conservation & Demand Management, Water Resources, Financial Profile, Water Services Institutional Arrangements , Social & Customer Service Requirements , Needs Development

Development Plan
Total Execution Plan fore year 1,2 & 3

WSDP Status Quo Knowledge Interpretation Report

Completed | | | |

In Process | | | |

Completed | | | |

In Process | | | |

Outstanding | | | |

THE WATER SERVICES BUSINESS

INDEX

METSIMAHOLO LOCAL MUNICIPALITY **WSDP 2012**

WSDP TOPICS

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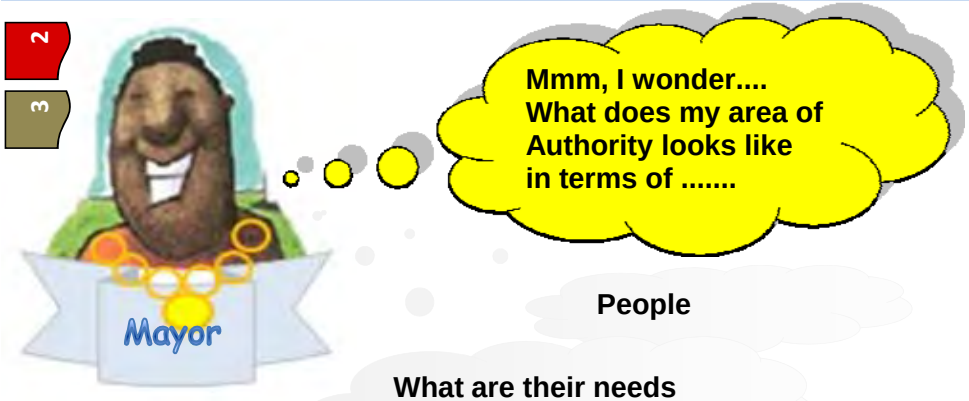
METSIMAHOLO LOCAL MUNICIPALITY WSDP 2012

Vision & Mission Statement:

Metsimaholo Municipality strives to be a leading Municipality in delivering effective, affordable and sustainable quality services to its communities.

What is the WSA's Vision & Mission Statement on Water Services?



Demographics	Total
Number of People	150132
Total Number of Settlements	8
Total Number People Urban	138091
Total Number People Rural	12041
Total Number of Settlements Urban	7
Total Number of Settlements Rural	1

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Water Category	Water Need Description	Settlements	Population	Households
10	No Service	0	0	0
7	Infrastructure Upgrade	3	5770	1697
7	Infrastructure Extension	3	14037	4070
7	Infrastructure Refurbishment			
6	O&M Need (Total Settlement)			
5	Water Resource Needs			
8	Infrastructure O&M Need			
9	Infrastructure & O&M Need & Water Resource Needs			
Adequate:	Stand Pipe			
Adequate:	Yard Connection			
Adequate:	House Connection	8	111480	32499
Informal Below	No Service	0	0	0
Informal Adequate	Temporary Services Provided	0	0	0

METSIMAHOLO LOCAL MUNICIPALITY **WSDP 2012**

What are their needs regarding sanitation?

Sanitation Category	Sanitation Need Description	Settlements	Population	Households
10	No Service			
7	Infrastructure Upgrade	6	6636	1952
7	Infrastructure Extension	6	23854	6831
7	Infrastructure Refurbishment	6	22865	6725
6	O&M Need (Total Settlement)			
5	Water Resource Needs			
8	Infrastructure O&M Need			
9	Infrastructure & O&M Need & Water Resource Needs			
Adequate:	Waterborne	6	73822	21521
Adequate:	Waterborne Low Flush			
Adequate:	Septic Tanks / Conservancy	2	6834	1981
Adequate:	Non-Waterborne	2	7566	2021
Informal Below	No Service			
Informal Adequate	Temporary Services Provided			

2

3

What is our water availability status to supply all the needs?

Water sources	Number of sources	Current abstraction (Ml/Day)	Licensed abstraction (Ml/Day)
Groundwater			
Surface Water	2		
External Sources (Bulk purchase)			
Water returned to resources			
How much water is re-used (Recycled Water)			

9

4. Water & Sanitation Infrastructure ....?

5

4.1. How does the infrastructure picture look in my WSA to distribute water to our people?

Topic 5: Water Infrastructure	Total
Total Number of Schemes	3
Total bulk pipeline km.	118
Total Number reservoirs	12
Total Number pump stations	21
Total Number of Water Treatment Works	3
Total Number of Waste Water Treatment Works	7

The general condition of WWTW	Total
1. Estimated cost to Upgrade	R 74 000 000.00
2. Estimated cost to Refurbish	R 8 000 000.00
3. Existing Budget	R 4 000 000.00

5. How sufficient is our Operation & Maintenance:

6

5.1. Do we have enough people to perform the function?

5.2. What is the % infrastructure not working due to O&M?

5.3. What is the problem?

Topic 6: Operation & Maintenance	Total
Total Number of O&M staff	58
Total Number of O&M staff sufficient? Yes/No	No
Total Number of O&M staff required	12
Statement on population and effluent release	

Define the Problem
The existing infrastructure is old and requires considerable upgrades. Orangeville was established in 1918, Deneysville in 1934, Sasolburg in 1953. The main issues is with capacity and breakdowns. The growth Zamdela is 20%pa - a clear indication of the impact on the overall infrastructure.

Statement on Polution and Effluent Release

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6. Do I pollute my environment

Topic 8: Conservation & Demand Management 8

	Y / N
Does the municipality have a Water Conservation Demand Management Plan(WCDM)?	N
Does the municipality have a strategy to meet 2014 targets?	Y
Is there an internal budget?	Y
Does the minicipality apply through IDP funds for WCDM?	N

7. 1. What is my total Water Services Budget?
7.2. Is my budget enough to eradicate backlog and maintain the WS infrastructure?
7.3. What is the shortfall?

Topic 10: Financial 10

Total Water Services Budget:	R 7 300 000.00
Is the budget enough to eradicate backlog and maintain the WS infrastructure? (Yes/No)	N
Shortfall:	R 2 878 300.00

METSIMAHOLO LOCAL MUNICIPALITY **WSDP 2012**

8. Do we have plans and projects in place to address the water services issues and requirements?

Topic 13: Project List 13

Total Number of Projects	10
Sufficient to eradicate backlog: (Yes/No)	N
Total Allocated Funds (Rm)	155.8

PROJECT NAME	Total Funds on Budget for Project	PROJECT NAME	Total Funds on Budget for Project
ACTIVE PROJECTS : MIG2011/2012 ; RBIG ; ACIP			
Zamdela:Sewerage Reticulation -Gortin	R 2 499 957.00		
Harry Gwala:Construction of sewerage network phase 2	R 6 717 979.00		
Gortin: Provision of sanitation for 5000 stands	R 12 711 000.00		
Gortin: Provision of sanitation for 11800 stands phase 3	R 31 924 032.00		
Amelia/Mooidrai: Bulk water supply Low cost housing dev	R 37 506 000.00		
Amelia: Water supply phase 2	R 8 550 000.00		
Refengkgotso: Augmentation of Bulk water supply	R 10 203 000.00		
Harry Gwala/Amelia:Water supply for low cost housing dev	R 6 840 000.00		
Harry Gwala:Standpipes to metered house connections	R 1 710 000.00		
Amelia:Sanitation phase 3	R 37 183 826.00		
CONCEPTUAL & AWAITING FUNDING PROJECTS			
Metsimaholo Sewer network for 340 sites	R 8 529 000.00		
Refengkgotso: San for 1952	R 5 680 954.00		
Amelia: Sewer Netwk, Toilet Structures,PmpStation	R 47 000 000.00		
Deneysville STW refurbishmet	R 700 000.00		
Metsimaholo Municipality - San Internal Bulk Ref (group est)	R 41 296 000.00		
Metsimaholo ext. 6 WWTW for 368 erven	R 28 259 084.88		
Extension of Metsimaholo WWTP	R 11 828 550.00		
Bulk reservoir for Sasolburg (10 Ml) planned for 2010	R 7 500 000.00		
Metsimaholo Municipality:Water Internal Bulk Ref (group est)	R 32 446 000.00		
Deneysville/Refengotso WTW to be upgraded	R 3 500 000.00		
Bulk reservoir for Zamdela Ext (5 Ml) planned for 2010	R 4 500 000.00		
Oranjeville: Water supply for 325 erven, Ext 5 & 6	R 1 269 182.40		

WSDP: Strategic Oversight

METSIMAHOLO LOCAL MUNICIPALITY **WSDP 2012**

Comments

The project summary (i.e. Number of and Allocated Funds) only indicates current projects for the current year (2011-2012).

PROJECT NAME	Total Funds on Budget for Project	PROJECT NAME	Total Funds on Budget for Project

WSDP: Strategic Oversight

X

METSIMAHOLO LOCAL MUNICIPALITY **WSDP 2012**

Critical Developments & Associated Factors that impacts our Area for the Immediate Future

Urban versus Rural Backlogs

There are currently 3 main development areas underway - Refengkgotso (Mooiplaas) - Deneysville 2500 stands - already occupied with limited services, ie communal taps, Zamdela (Mooidraai) 3,000 new stands with no infrastructure, Vaalpark - 131 high cost development stands and currently has no services.
Sasolburg Ext 60 (Naledi) will also require bulk infrastructure. The internal infrastructure will be done by the developer. Another new development within Sasolburg will also require infrasturcture. Metsimaholo Ext 6 for 368 stands for sanitation currently using Pit latrines and Zamdela Gordin we have approx 2,000 without sanitation, Amelia 3333 stands where there is water infrastructure, but no sanitation (the BP and technical report was submitted and approved for R37mil)
In Zandela there is an informal settlement with communal taps and they have to be relocated - approx 320 HH
In Deneysville the whole town is currently using septic tanks and funding will be required to upgrade.

Reliance on Water Resources available and Bulk Infrastructure

For Deneysville there is currently an approved and budgeted bulk water infrastructure on its way. There is an upgrade of the existing Potable Water Treatment Works and the 9mgl new Reservoir that is being built.
Sasolburg town and the older established areas the water and sanitation infrastructure is aging and currently using old asbestos pipes for water and old clay pipes for sanitation.
In Deneysville the extraction is 4,68mg and design capacity is 4,7, hence the upgrade. Deneysville is running out of water and the tourists are adding to the strain.

Links between Water Supply & Sanitation

In Sasolburg there is no water supply constraint, only in Deneysville where there is currently an upgrade in progress. However we still have a backlog of waterborne sewer works within Amelia, Gordin, Mooiplaas, Metsimaholo Ext6, Deneysville Town, Oranjeville Town and Mooidraai. In Vaalpark there is no sanitation. Overall the current sanitation need must be reassessed.
There is a contract between Sasol and Metsimaholo for the treatment of sewer and Metsimaholo is paying for that service. Eventually Metsimaholo will have to manage this plant and training capacity building must be put in place within approx the next 15 years.

Limited Implementation & Operating Capacity in Some Municipalities

Currently there are several small private developments next to the river and Vaal dam. Due to new demarcation boundaries, certain development areas is still being serviced by Emfuleni Municipality. These must be assessed and planned and provided for by Metsimaholo in the very near future.
New developments not being able to be serviced by the municipality is granted permission to have services to facilitate growth and development, but with the condition that they must connect to our services when it becomes available.
There is currently a Water Master Plan being drawn up.

WSDP: Strategic Oversight

METSIMAHOLO LOCAL MUNICIPALITY **WSDP 2012**

Critical Developments & Associated Factors that impacts our Area for the Immediate Future

Available Funding

The WS Budget, and Shortfall was calculated by the PSP as the information was not provided by the municipality. The methodology applied is in line with the MIG Guidelines that was downloaded from COGTA's website: "Municipal Infrastructure An Industry guide to Infrastructure Service Delivery Levels and Unit Costs" and utilised the different backlog figures as indicated on Pages 4 and 5 of this WSDP and includes Water and Sanitation. Where appropriate the unit cost per household was escalated by 10 % per annum.
For the next 3 years the MIG funding is already committed to ongoing projects. There is limited funding. Currently Metsimaholo only uses MIG funding for developing projects. There is no internal sources available.

Affordability of Service Levels (O&M Costs)

Metsimaholo has a high unemployment rate and the culture of paying for services is not enhanced. There is a big outstanding debtors for services.

Growing Backlog in Refurbishment of Existing Infrastructure

There is a growth of 427% over 21 years - 3500 stands in 1990 now 18600 in 2011. Planning and implementing is struggling to keep up with the development.
The municipality has untilised some internal funds to refurbish approximately 50% of the existing infrastructure.

Major Economic Development

There is new development in the industrial areas, township (private) and estate developments due to expansion. The Sasolburg area is a chemical related industry area and of concern.

Associated Population Growth & Water Demand

There is a growth of 20% pa this has an impact on the water demand. There is an influx from farm and foreign migrants, due to the perception of jobs available and the existince of a large industry like Sasol.

METSIMAHOLO LOCAL MUNICIPALITY **WSDP 2012**

An Overall Critical Self Evaluation of the Overall WSDP Knowledge Base

How does my WSA fare regarding knowledge and information of the building pillars of the Water Services Business?

A % summary evaluation derived from the WSDP Document C Module 1 per topic

OVERALL QUANTITY ASSESSMENT		71%	60%	41%	41%	50%	48%		32%	17%	12%	53%	32%	
OVERALL QUALITY ASSESSMENT		69%	58%	39%	46%	45%	41%		38%	17%	12%	53%	32%	

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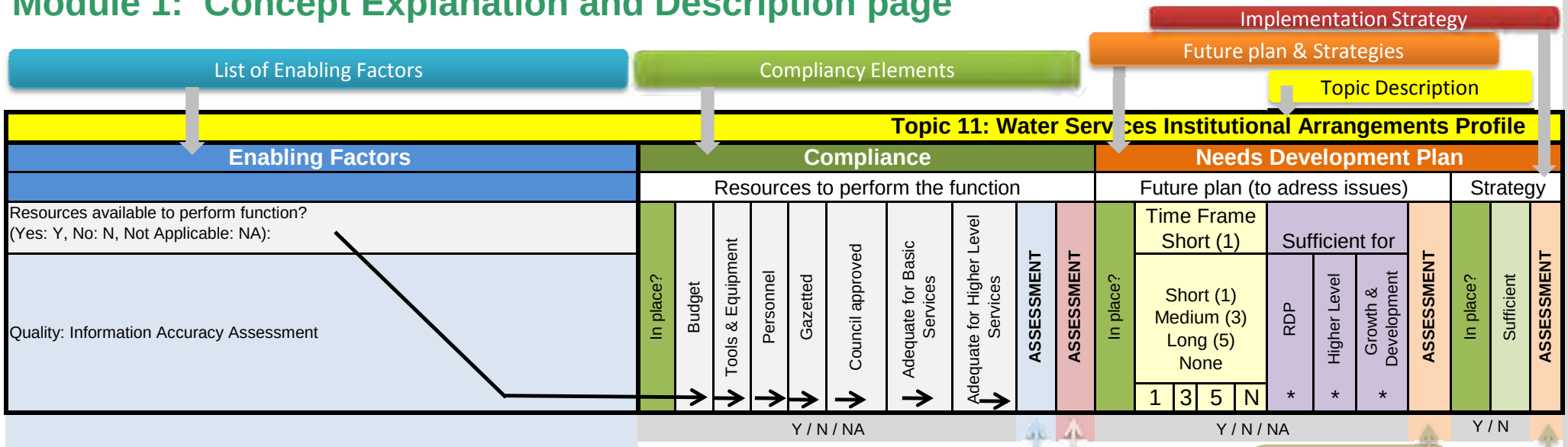
Module 1: Concept Explanation and Description page



INDEX: List of Topics

Each Topic has its own enabling factors that will make the Topic work

Quality Assessment
Assessment of Current Status measured against compliancy requirements
None 0%
Limited 20%
Partial 40%
Good 60%
Excellent 80%

Is there a Future Plan in Place?
(Physical document that addresses issues & shortcomings)

Is there an Implementation Strategy in Place?
(Must be a implementation plan of action that reflects in the budget with a time line)

Quantity Assessment
An indication of the representation of total area to address the issue
None: 0%
Limited 20%
Partially: 40%
Good coverage: 60%
Available for whole area: 80%

General Assesment on Scale 1-5
None 0%
Limited 20%
Partial 40%
Good 60%
Excellent 80%

METSIMAHOLO LOCAL MUNICIPALITY

	Status Tracking of WSDP											
	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		YEAR 6	
Status	Modules: All/1/2/3 or 4	Date Submitted	Modules: All/1/2/3 or 4	Date Submitted	Modules: All/1/2/3 or 4	Date Submitted	Modules: All/1/2/3 or 4	Date Submitted	Modules: All/1/2/3 or 4	Date Submitted	Modules: All/1/2/3 or 4	Date Submitted
Interim												
Draft	1	31 January 2012										
Adopted												
Annual Review												
Public Viewed												

Role Players Contact Details

POSITION	PERSON	TEL	FAX	CELL	EMAIL	Interaction Acknowledgement Yes / No	Interaction Acknowledgement Signature
Municipal Manager							
Executive Mayor	B. MAHLAKU	169738315	169762817	79095019	brutus.mahlaku@metsimaholo.gov.za		
Water services Councillor	N KUBHEKA	169738443	169763878	738185714	nomsa.kubheka@metsimaholo.gov.za		
WSDP Contact							
IDP Manager	S.MOKOENA	169738348	169765205	723064097	sello.mokoena@metsimaholo.gov.za		
PIMSS Senior Planner							
Technical Services	MC BOTHA	169738326	169763878	824590242	mc.botha@metsimsaholo.gov.za		
Treasurer							
WSDP Data Custodian							
WSDP Custodian	MM RAMOVHA	169738443	169763878	760767896	mmaseipati@vodamail.co.za		
Data official							
Acting Mayor							
Acting Municipal Manager	R. THEKISO	169738324	169763878	724929988	r.thekiso@metsimsaholo.gov.za		
PMU Manager	M.D NDABA	169738414	169763878	824590241	mduduzindaba@metsimaholo.gov.za		
Chief Financial Officer	T. MOKOENA	169738311	169763130	824590227	tshidimokoena@metsimaholo		
Acting Chief Financial Officer							
Mayor							
Housing							
Environmental							
Infrastructure	R. THEKISO	R. THEKISO	169763878	724929988	r.thekiso@metsimsaholo.gov.za		

Topic 1: Administration

Professional Service Provider (PSP)

Company			Pula Strategic Resource Management (Pty) Ltd		
Name of PSP WSDP Project Manager			Alet McCully		
Tel: 012 424 0900	Cell: 083 228 5260		Fax: 012 460 1205	E-mail:	alet@pula.co.za

Inputs

Components	Chapter	Name	Designation	Role	Contact address, and number

Name of PSP WSDP Information Systems Operator			Alet McCully		
Tel: 012 424 0900	Cell: 083 228 5260		Fax: 012 460 1205	E-mail:	alet@pula.co.za

* Sector Integration

Did this plan consult with other Sector Plans and incorporated their needs

* Sector	* Inter-action	* To which extend was it calculated? (Refer to Page 1: General Assessment on Scale 1-5)
Agri-Culture	60	There are farms, but to a smaller extent and we communicate through forums.
Mining	80	There are currently 2 new mines in discussion
Tourism	20	There is a considerable tourism attraction to this area, but the municipality has limited resources to unfold this effectively.
Other 1:	80	There are a number of big Industries in the Sasolburg area, i.e. Sasol, Karbochem, Omnia, etc.
Other 2:		
Other 3:		
Other 4:		

Comments

SETTLEMENT DEMOGRAPHICS

			Assessment	Assessment
* 2.1	**Total Population**	150132		
* 2.2	**Total number of households**	43767		
* 2.3	**Average household size**	3.45		
Quality: Information Accuracy Assessment				
Quantity: Assessment of Information Completeness				

2.4 Settlement Type		Number of settlements	Population per settlements type	Assessment	Assessment
Farming	Farming	**1**	**12041**	60%	60%
Urban	Metropolitan Area			80	80
	Urban - Formal Town	3	38046	60	60
	Urban - Former Township	4	100045	60	60
	Urban - Informal Settlements (Squatter Camp)			80	80
	Working Towns & Service Centres - Mines, Prisons etc.			80	80
	Urban	**7**	**138091**	72%	72%
Rural	Rural - Dense Village > 5000			80	80
	Rural - Small Village <= 5000			80	80
	Rural Scattered			80	80
	Rural Scattered Dense			80	80
	Rural Scattered Low Density			80	80
	Rural Scattered Very Low Density			80	80
	Rural - Informal Settlements (Squatter Camp)			80	80
	Rural	**0**	**0**	80%	80%

Comments

Public Amenities Consumer Types

2.5 Social Services type	No. of facilities	Area (Ha)	Assessment	Assessment
Police Stations	5		80	80
Magisterial Offices	1		80	80
Schools	46		60	80
Health Facilities	16		60	80
Prisons	4		80	80
Industries	4		60	60
Mining	10		60	60
Resorts and tourism	4		60	60
Agriculture dry land		62515	60	80
Agriculture irrigation		567	60	80
Agr. Intensive livestock/grazing		93368	60	80
Agr. Extensive livestock/grazing		5808.3	60	80
Conservation areas	0		60	60
		TOTAL	**65%**	**74%**

OVERALL QUALITY ASSESSMENT 69%

OVERALL QUANTITY ASSESSMENT 71%

3.1 SETTLEMENT WATER SERVICE LEVEL DEFINITIONS

Enabling Factors | Needs Development Plan

Quality: Information Accuracy Assessment

Quantity: Assessment of Information Completeness

DEFINITION	CLASSIFICATION	DESCRIPTION	CATEGORY	SETTLEMENTS	POPULATION	HOUSEHOLDS	ASSESSMENT %	ASSESSMENT %	Future plan (to address issues): In place?	Time Frame: Short (1) Medium (3) Long (5) None				Sufficient for: RDP *	Higher Level *	Growth & Development *	ASSESSMENT	Strategy: In place?	Sufficient	ASSESSMENT
										1	3	5	N							
									Y / N / NA								%	Y / N		%
FORMAL - BELOW	No Service	Whole community never had any formal (municipal) water supply system.	10	0	0	0	60	60	y	y	y	y		y	y	y	60	y	n	40
	Infrastructure Upgrade	Existing infra not on RDP std. 1.Network: too small pipes, 2.Storage: Add to exist / elevation 3.Source: Infra to increase exist yield	7	3	19806	5767	60	60	y	y	y	y		y	y	y	60	y	n	40
	Infrastructure Extension	Communities have grown structurally and there are households that do not have water : **TOTAL** 1.Network: new infra 2.Storage: new & adjacent	8																	
	Infrastructure Refurbishment	Water can be restored to RDP by: Repair/Replace with same existing infra	9																	
	O&M Need (Total Settlement)	(Total Settlement) Water can be restored to RDP (where infra ok) by: enough & efficient staff and sufficient funds for O&M (incl. eg: quality at wtw, machines working, etc)	6				60	60	y	y	y	y		y	y	y	60	y	n	40
	Water Resource Needs	Includes Source Development Local Available Source: New BH, pipe Conserving & Demand Management Needs Water Source Quality Drinking Water Quality	5				60	60	y	y	y	y		y	y	y	60	y	n	40
	Infrastructure & O&M Need		8				60	60	y	y	y	y		y	y	y	60	y	n	40
	Infrastructure & O&M Need & Water Resource Needs		9				60	60	y	y	y	y		y	y	y	60	y	n	40
			TOTAL FORMAL NEED	3	19806	5767	60%	60%									60%			40%
- ADEQUATE	StandPipe	Adequate Infra	1 (C) / 3	2	1685	441	60	60	y	y	y	y		y	y	y	60	y	n	40
	Yard Connection	Adequate Infra	1 (B) / 3		22037	6361	60	60	y	y	y	y		y	y	y	60	y	n	40
	House Connection	Adequate Infra	1 (A) / 3		124603	36492	60	60	y	y	y	y		y	y	y	60	y	n	40
			TOTAL FORMAL ADEQUATE	2	148325	43294	60%	60%									60%			40%
INFORMAL - BELOW	No Services	Permanent Housing must be provided	4	0	0	0	60	60	y	y	y	y		y	y	y	60	y	n	40
- ADEQUATE	Temporary Services Provided	Permanent Housing must be provided	2	0	0	0	60	60	y	y	y	y		y	y	y	60	y	n	40
			TOTAL NEED	3	19806	5767	61%	61%									61%			40%
			TOTAL ADEQUATE	**2**	**148325**	**43294**	61%	61%									61%			40%

Enabling Factors | Needs Development Plan

3.2 SETTLEMENT SANITATION SERVICE LEVEL DEFINITIONS

Quality: Information Accuracy Assessment
Quantity: Assessment of Information Completeness

Future plan (to address issues) — Time Frame: Short (1) Medium (3) Long (5) None — Sufficient for: RDP, Higher Level, Growth & Development — Strategy

DEFINITION	CLASSIFICATION	DESCRIPTION	CATEGORY	SETTLEMENTS	POPULATION	HOUSEHOLDS	ASSESSMENT %	ASSESSMENT %	In place?	1	3	5	N	RDP *	Higher Level *	Growth & Development *	ASSESSMENT %	In place?	Sufficient	ASSESSMENT %
									Y / N / NA									Y / N		
FORMAL - BELOW	No Service	Whole community never had any formal (municipal) sanitation supply system.	10				60	60	y	y	y	y		y	y	y	60	y	n	40
	Infrastructure Upgrade	Existing infra not on RDP std. Typically, unimproved pit or chemical toilet Communities have sanitation but below the minimum standard. This will normally be a bucket or an ecological toilet. Communities at RDP standard but not appropriate due to local circumstances e.g. shallow ground water levels	7	6	53354	15508	60	60	y	y	y	y		y	y	y	60	y	n	40
	Infrastructure Extension	Community partially served to RDP leve	8																	
	Infrastructure Refurbishment	Sanitation can be restored to RDP by: Repair/Replace with same existing infra	9																	
	O&M Need (Total Settlement)	Sanitation can be restored to RDP (where infra ok) by: enough & efficient staff and sufficient funds for O&M (incl. pit-emptying, + appropriate actions for waterborne)	6				60	60	y	y	y	y		y	y	y	60	y	n	40
	Water Resource Needs	Adequate Infra but not working due to inadequate water in the system.	5				60	60	y	y	y	y		y	y	y	60	y	n	40
	Infrastructure & O&M Need		8				60	60	y	y	y	y		y	y	y	60	y	n	40
	Infrastructure & O&M Need & Water Resource Needs		9				60	60	y	y	y	y		y	y	y	60	y	n	40
			TOTAL FORMAL NEED	6	53354	15508	60%	60%									60%			40%
FORMAL - ADEQUATE	Waterborne	Adequate Infra	1 (A) / 3	6	111249	32720	60	60	y	y	y	y		y	y	y	60	y	n	40
	Waterborne Low Flush	Adequate Infra	1 (B) / 3				60	60	y	y	y	y		y	y	y	60	y	n	40
	Septic Tanks / Conservancy	Adequate Infra	1 (C) / 3		6735	1981	60	60	y	y	y	y		y	y	y	60	y	n	40
	Non Waterborne (VIP)	Adequate Infra	1 (D) / 3		7566	2021	60	60	y	y	y	y		y	y	y	60	y	n	40
			TOTAL FORMAL ADEQUATE	6	125550	36722	60%	60%									60%			40%
INFORMAL - BELOW	No Services	Permanent Housing must be provided	4	0	0	0	60	60	y	y	y	y		y	y	y	60	y	n	40
INFORMAL - ADEQUATE	Temporary Services Provided	Permanent Housing must be provided	2	0	0		60	60	y	y	y	y		y	y	y	60	y	n	40
			TOTAL NEED	6	53354	15508	61%	61%									61%			40%
			TOTAL ADEQUATE	6	125550	36722	61%	61%									61%			40%

* BASELINE INFORMATION: COMPULSORY FIELDS

Topic 3: Service Levels Profile

3.3 Residential, Public Institutions and Industries

Quality: Information Accuracy Assessment

Quantity:

Enabling Factors						Compliance				Needs Development Plan												
										Future plan (to address issues)										Strategy		
											Time Frame				Sufficient for							
						Adequate for Basic Services	Adequate for Higher Level Services	ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None				RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
											1	3	5	N	*	*	*				
								%	%	Y / N / NA								%	Y / N		%
Public amenities consumer types	Type	No. Of consumer units (H-H)	No. Of consumer units with access to: None or inadequate Supply: Water	None or inadequate Supply: Sanitation	Communal supply	Controlled volume supply	Uncontrolled volume supply															
* Residential	Urban	40615	0	1952	4280	33749	2586	y	n	40	60	y	y	y	y		y	n	y	40	y	n	40
	Rural	3152	473	1496	0	0	2679	n	n	40	60	y	y	y	y		y	n	y	40	y	n	40
Police Stations	Urban	5	0	0	0	5	0	y	n	40	60	y	y	y	y		y	n	y	40	y	n	40
	Rural	0	0	0	0	0	0	n	n	40	60	y	y	y	y		y	n	y	40	y	n	40
Magistrate offices	Urban	1	0	0	0	1	0	y	n	40	60	y	y	y	y		y	n	y	40	y	n	40
	Rural	0	0		0	0	0	n	n	40	60	y	y	y	y		y	n	y	40	y	n	40
Businesses	Urban									40	60	y	y	y	y		y	n	y	40	y	n	40
	Rural									40	60	y	y	y	y		y	n	y	40	y	n	40
"Dry" Industries	Urban									40	60	y	y	y	y		y	n	y	40	y	n	40
	Rural									40	60	y	y	y	y		y	n	y	40	y	n	40
Office Buildings	Urban									40	60	y	y	y	y		y	n	y	40	y	n	40
	Rural									40	60	y	y	y	y		y	n	y	40	y	n	40
Prisons	Urban	1	0	0	0	1	0	y	n	40	60	y	y	y	y		y	n	y	40	y	n	40
	Rural	3	0	0	0	3	0	n	n	40	60	y	y	y	y		y	n	y	40	y	n	40
Schools	Urban	35	0	0	0	35	0	y	n	40	60	y	y	y	y		y	n	y	40	y	n	40
	Rural	11	1	9	0	0	1	n	n	40	60	y	y	y	y		y	n	y	40	y	n	40
Hospitals	Urban	3	0	0	0	3	0	y	n	40	60	y	y	y	y		y	n	y	40	y	n	40
	Rural	0	0	0	0	0	0	n	n	40	60	y	y	y	y		y	n	y	40	y	n	40
Clinics	Urban	12	3	3	0	9	3	y	n	40	60	y	y	y	y		y	n	y	40	y	n	40
	Rural	0	0	0	0	0	0	n	n	40	60	y	y	y	y		y	n	y	40	y	n	40
Health Centres	Urban	0	0	0	0	0	0	y	n	40	60	y	y	y	y		y	n	y	40	y	n	40
	Rural	0	0	0	0	0	0	n	n	40	60	y	y	y	y		y	n	y	40	y	n	40
"Wet" Industries	Urban									40	60	y	y	y	y		y	n	y	40	y	n	40
	Rural									40	60	y	y	y	y		y	n	y	40	y	n	40
Total	**Urban**	**40672**	**3**	**1955**	**4280**	**33803**	**2589**			40%	60%									40%			40%
	Rural	**3166**	**474**	**1505**	**0**	**3**	**2680**			40%	60%									40%			40%
									TOTAL	40%	60%									40%			40%

Enabling Factors	Compliance		Needs Development Plan		
	Status Quo		Future plan (to adress issues)		Strategy
OVERALL TOPIC ASSESSMENT	ASSESSMENT	ASSESSMENT		ASSESSMENT	ASSESSMENT
Quality: Information Accuracy Assessment					
Quantity: Assessment of Information Completeness					
3.1 SETTLEMENT WATER SERVICE LEVEL DEFINITIONS					
CATEGORY 10 - NO SERVICES (FORMAL)	60%	60%		60%	40%
CATEGORY 7 - INFRASTRUCTURE UPGRADE, EXTENSION & REFURBISHMENT	60%	60%		60%	40%
CATEGORY 6 - O&M NEED	60%	60%		60%	40%
CATEGORY 4 - NO SERVICES (INFORMAL)	60%	60%		60%	40%
3.2 SETTLEMENT SANITATION SERVICE LEVEL DEFINITIONS					
CATEGORY 10 - NO SERVICES (FORMAL)	60%	60%		60%	40%
CATEGORY 7 - INFRASTRUCTURE UPGRADE, EXTENSION & REFURBISHMENT	60%	60%		60%	40%
CATEGORY 6 - O&M NEED	60%	60%		60%	40%
CATEGORY 4 - NO SERVICES (INFORMAL)	60%	60%		60%	40%
3.3 RESIDENTIAL, PUBLIC INSTITUTIONS AND INDUSTRIES	40%	60%		40%	40%

NEEDS DEVELOPMENT PLAN ASSESSMENT	
Future plan	58%
Strategy	40%

OVERALL QUANTITY ASSESSMENT	60%
OVERALL QUALITY ASSESSMENT	58%

COMMENTS

The clinics indicated with inadequate water and sanitation relates to mobile clinics.

Topic 4: Socio Economic Background

Socio Economics

Quality of Information Assessment

Quantity: Assessment of Information Completeness

4.1 General				4.5 Household income				
4.1.1 Present population	150132	60	60	Definition of poor household by the municipality		% Population		
4.1.2 Current population growth rates	1	60	60	"Plight of the Poor" include an informal settlement, a poor person or an indigent, meaning a person lacking adequate money or means to live comfortably, residing on un-developed or developed municipal erven or open spaces, identifiable as the most needy of households, eligible for housing and the very poorest in the local community and that policies are aimed at providing as much assistance as possible or to provide in the urgent need for land on which to settle in a less formal manner.		0%	50	40
4.1.3 Projected Population growth rate: 5 years	1	60	60					
4.1.4 Projected Population growth rate: 10 years	1	60	60					
		60%	60%					
4.2 Age and gender Profile				§ Monthly household Income (*as per StatsOnline)*			50	60
4.2.1 Permanent resident population	150132	60	60	o R1 - R400		7790	50	60
4.2.2 Aged Residents (>65yrs)	4283	50	60	o R401 – R800		10224	50	60
4.2.3 Youth Residents (<18yrs)	44229	50	60	o R801 – R1600		7161	50	60
4.2.4 Male Residents	76696	50	60	o R1601 or more		15480	50	60
4.2.5 Female Residents	73435	50	60	o Collective living Quarters			0	0
		52%	60%					
4.3 Employment Profile				Water Affordability (Population not able to afford water)			0	0
4.3.1 Eligible Workforce (19 – 65 yrs)	31582	50	60	o Typical monthly Water Bill			0	0
4.3.2 Permanent residents – without jobs	18511	50	60	o Average % of monthly income	0%		0	0
4.3.3 Permanent farm workers	4816	50	60	Sanitation Affordability (Population not able to afford sanitation)			0	0
4.3.4 Permanent Industry workers	5964	50	60	o Typical monthly Sanitation Bill			0	0
4.3.5 Professional workers		0	0	o Average % of monthly income	0%		0	0
		40%	48%				21%	25%

4.6 Economics

Economic Sector (*As per Reserve Bank Quarterly Bulletins*)	% Contribution to Local GGP	Total No of Employees	No of Local Employees	No of Migrating labour		
4.4 Demographic trends and migration patterns						
4.4.1 Permanent resident population 150132 60 60	Agriculture, Forestry & Fishing	18%	2104			50 40
4.4.2 Peak daily labour migration (-) out / (+) in 0 0 0	Mining	13%	1611			50 40
4.4.3 Peak long-term labour migration (-) out / (+) in 0 0 0	Manufacturing	55%	6549			50 40
4.4.4 Permanent population changes (-) out / (+) in 0 0 0	Electricity, Gas & Water	0%	0			50 40
4.4.5 Holiday Population 0 0 0	Construction	14%	1730			50 40
12% 12%	Insurance	0%	0			50 40
	Finance	0%	0			50 40
						50% 40%

Comments

OVERALL QUALITY ASSESSMENT 39%

OVERALL QUANTITY ASSESSMENT 41%

Topic 5: Water Services Infrastructure Profile

Enabling Factors					Compliance												Needs Development Plan													
					Status Quo												Future plan (to address issues)									Strategy					
																		Time Frame				Sufficient for								
General Notes: The Enabling Factors below must be completed for the appropriate component compliancy section. All factors must be assessed and the Needs Development Plan section completed					Groundwater (Boreholes)	Surface water (Abstraction Points)	* WTW	Water Pumpstations	Sewer Pumpstations	Water Bulk pipeline	Sewer Bulk pipeline	Reservoirs	Water Reticulation	Sewer Reticulation	* WWTW	ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None				RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT			
Quality: Information Accuracy Assessment																		1	3	5	N	*	*	*						
Quantity: Assessment of Information Completeness					Y / N / NA											%	%	Y / N / NA							%	Y / N		%		
5.1 General Information					(No of Components)																									
* 5.1.1 Is there an Asset Register Monitoring Programme		Yes	y	No												60	60	y	y	y	y		y	y	y	60	y	n	40		
Does the plan address:					na	y	y	y	y	y	y	y	y	y	y	60	60														
* 5.1.2 Is there a disaster management plan		Yes	y	No												60	60	y	y	y	y		y	y	y	60	y	n	40		
Does the plan address:					na	y	y	y	y	y	y	y	y	y	y	60	60	y	y	y	y		y	y	y	60	y	n	40		
* 5.1.3 Is there a Water Quality Plan	To be obtained from Blue & Green Drop Reports	Yes	y	No	na	y	y	y	y						y	60	60	y	y	y	y		y	y	y	60	y	n	40		
Does the plan address:															y	60	60	y	y	y	y		y	y	y	60	y	n	40		
* 5.1.4 Is there a plan in place to manage untreated effluent		Yes	y	No	na	y	y	y	y						y	60	60														
Does the plan address:					na	y	y	y	y						y	60	60														
5.1.5 Total number of components / km of pipeline / units					0	2	3	6	15	47	71	12			7	60	40														
5.1.6 VIP toilets	TOTAL	2021														60	60														
5.1.7 Other dry sanitation toilets (below RDP)	TOTAL	776														60	60														
5.1.8 Septic tanks	TOTAL	1981														40	60														
Sub Topic 5.1 Compliancy & Needs Development Plans Assessment																58%	58%								60%			40%		
5.2 Operation																														
5.2.1 Previous incidents including Security Problems (**R**: Regular, **P**: Periodic, **S**: Sporadic, **N**: None)					na	s	s	s	s	s	s	s	s	s	s	60	60	y	y	y	y		y	y	y	60	y	n	40		
5.2.2 Is the abstraction registered with DWA?					y	y										60	60	y	y	y	y		y	y	y	60	y	n	40		
5.2.3 Is abstraction recorded?					na	y										60	60	y	y	y	y		y	y	y	60	y	n	40		
5.2.4 Safety inspection performed (R: Regular, P: Periodic, S: Sporadic, N: None)					na	p	p	p	p	p	p	p	p	p	p	60	60	y	y	y	y		y	y	y	60	y	n	40		
5.2.5 Average Operating hours per day (X hrs)							24								24	60	60	y	y	y	y		y	y	y	60	y	n	40		
Sub Topic 5.2 Compliancy & Needs Development Plans Assessment																60%	60%								60%			40%		
*** 5.3 Monitoring & Sample Failure**																														
* 5.3.1 Monitoring & Sample Failure:	To be obtained from Blue & Green Drop Reports															60	60	y	y	y	y		y	y	y	60	y	n	40		
5.3.1.1 Monitoring : % of tests performed as required by general limits /special limits/ license requirements (Average % over previous 12 months)							97.5								0	60	60	y	y	y	y		y	y	y	60	y	n	40		
5.3.1.2 Operational: % of tests performed as required by general limits /special limits/ license requirements (Average % over previous 12 months)							75.7								0	60	60	y	y	y	y		y	y	y	60	y	n	40		
5.3.1.3 Chemical (Results of tests performed. Average % sample failure over previous 12 months)							8								0	60	60	y	y	y	y		y	y	y	60	y	n	40		
5.3.1.4 Microbiological (Results of tests performed. Average % sample failure over previous 12 months)							99.9								0	60	60	y	y	y	y		y	y	y	60	y	n	40		
5.3.1.5 Physical Compliance (Results of tests performed. Average % sample failure over previous 12 months)							96								0	60	60	y	y	y	y		y	y	y	60	y	n	40		
* 5.3.2 Autherisation Compliance																0	0	y	y	y	y		y	y	y	60	y	n	40		
5.3.3 Are there any standby pumps available?								y	y							60	60	y	y	y	y		y	y	y	60	y	n	40		
5.3.4 How many illegal connections to date? (NR)																0	0	y	y	y	y		y	y	y	60	y	n	40		
5.3.5 What is the storage factor (x daily use)												2.8				60	60														

Topic 5: Water Services Infrastructure Profile

Enabling Factors	Compliance													Needs Development Plan												
	Status Quo													Future plan (to address issues)									Strategy			
															Time Frame				Sufficient for							
General Notes: The Enabling Factors below must be completed for the appropriate component compliancy section. All factors must be assessed and the Needs Development Plan section completed	Groundwater (Boreholes)	Surface water (Abstraction Points)	* WTW	Water Pumpstations	Sewer Pumpstations	Water Bulk pipeline	Sewer Bulk pipeline	Reservoirs	Water Reticulation	Sewer Reticulation	* WWTW	ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None				RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment															1	3	5	N	*	*	*					
Quantity: Assessment of Information Completeness	Y / N / NA											%	%	Y / N / NA								%	Y / N		%
5.3.6 % Effluent controled											100	60	60	y	y	y	y		y	y	y	60	y	n	40
5.3.7 Permitted effluent (Ml/day)												0	0	y	y	y	y		y	y	y	60	y	n	40
5.3.8 Solid waste disposal (m³/day)												0	0	y	y	y	y		y	y	y	60	y	n	40
5.3.9 Sludge produced (dry tonnes per day)												0	0	y	y	y	y		y	y	y	60	y	n	40
5.3.10 % Of the time that effluent is chlorinated											100	60	60	y	y	y	y		y	y	y	60	y	n	40
Sub Topic 5.3 Compliancy & Needs Development Plans Assessment												40%	40%									56%			37%
5.4 Functionality																										
5.4.1 General physical condition (**D**: Dysfunctional, **O**: Operational, **P**: Prime Condition, **V**: Vandalised)	na	na	o	o	o	o	o	o	o	o	o	60	60	y	y	y	y		y	y	y	60	y	n	40
5.4.2 Number of breakages / failures per year	na	na	0	2	2	0	0	0	0	0	2	60	60	y	y	y	y		y	y	y	60	y	n	40
5.4.3 Total refurbishment needs %	na	na	50	50	50	50	50	50	50	50	50	40	60	y	y	y	y		y	y	y	60	y	n	40
5.4.4 Total refurbishment needs cost (RM)	na	na	5	3	15							30	0	y	y	y	y		y	y	y	60	y	n	40
5.4.5 Total replacement needs %	na	na	25	25	25	25	25	25	25	25	50	30	60	y	y	y	y		y	y	y	60	y	n	40
5.4.6 Total replacement needs cost (RM)	na	na										30	0	y	y	y	y		y	y	y	60	y	n	40
Sub Topic 5.4 Compliancy & Needs Development Plans Assessment												42%	40%									60%			40%
5.5 Institutional Status																										
5.5.1 % Whereoff the WSA Self is the Current Owner	na	na	70	100	100	100	100	100	100	100	70	60	60	y	y	y	y		y	y	y	60	y	n	40
5.5.2 % Whereoff the WSA Self is Current Operator	na	na	70	100	100	100	100	100	100	100	70	60	60	y	y	y	y		y	y	y	60	y	n	40
Sub Topic 5.5 Compliancy & Needs Development Plans Assessment												60%	60%									60%			40%
5.6 Asset Assessment Spectrum																										
5.6.1 % Expected total lifespan: Short (1-3 yrs)	na	na										30	0	y	y	y	y		y	y	y	60	y	n	40
5.6.2 % Expected total lifespan: Medium (3 - 10 yrs)	na	na										30	0	y	y	y	y		y	y	y	60	y	n	40
5.6.3 % Expected total lifespan: Long (10 - 20 yrs)	na	na										30	0	y	y	y	y		y	y	y	60	y	n	40
*** 5.6.4 Estimated replacement value (RM)**	na	na										30	0	y	y	y	y		y	y	y	60	y	n	40
Sub Topic 5.6 Compliancy & Needs Development Plans Assessment												30%	0%									60%			40%
5.7 Type and Capacity																										
5.7.1 Capacity (m³) (WTW & WWTW: Ml/day and PumpStation: L/s)	na	na	55.6								39.558	40	20	y	y	y	y		y	y	y	60	y	n	40

Comments

Topic 5: Water Services Infrastructure Profile

Enabling Factors			Compliance: Status Quo											Needs Development Plan: Future plan (to address issues)									Strategy		
General Notes: The Enabling Factors below must be completed for the appropriate component compliancy section. All factors must be assessed and the Needs Development Plan section completed			Groundwater (Boreholes)	Surface water (Abstraction Points)	* WTW	Water Pumpstations	Sewer Pumpstations	Water Bulk pipeline	Sewer Bulk pipeline	Reservoirs	Water Reticulation	Sewer Reticulation	* WWTW	ASSESSMENT	ASSESSMENT	In place?	Time Frame: Short (1) Medium (3) Long (5) None				Sufficient for: RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment																	1	3	5	N	*	*	*				
Quantity: Assessment of Information Completeness			Y / N / NA											%	%	Y / N / NA								%	Y / N		%
5.7.2 Pipe material (Most common)	Water Pipeline:	pvc												60	60												
	Sewer Pipeline:	pvc												60	60												
5.7.3 How much capacity is still available for development? (%)			na	na										30	0	y	y	y	y		y	y	y	60	y	n	40
5.7.4 Design Capacity - Hydraulic Load (Ml/day)													39.558	20	50	y	y	y	y		y	y	y	60	y	n	40
5.7.5 Design Capacity - Organic Load (COD kg/day)														0	0	y	y	y	y		y	y	y	60	y	n	40
Sub Topic 5.7 Compliancy & Needs Development Plans Assessment														35%	32%									60%			40%

Comments

All infrastructure is in operation, but requires upgrade and replacement. Capacity on sanitation side is overloaded in Oranjeville and Deneysville. 90% of Metsimaholo water is provided by RandWater. The Water purification plant in Deneysville is over capacity.
A Water Master Plan is currently under development. Operators are being SITA trained at the moment.

OVERALL TOPIC ASSESSMENT

5.1 General Information	58%	58%
5.2 Operation	60%	60%
5.3 Monitoring & Sample Failure	40%	40%
5.4 Functionality	42%	40%
5.5 Institutional Status	60%	60%
5.6 Asset Assessment Spectrum	30%	0%
5.7 Type and Capacity	35%	32%

NEEDS DEVELOPMENT PLAN ASSESSMENT	
Future plan	59%
Strategy	40%

OVERALL QUALITY ASSESSMENT	46%
OVERALL QUANTITY ASSESSMENT	41%

Topic 6: Operation & Maintenance

STATUS QUO (S)
Z - Zero Compliance
1 - Below minimum requirement
2 - Minimum basic requirement
3 - Above minimum requirement
N/R Not Required

IMPACT (I)
C - Critical
M - Mediumal/High
L - Low
No - No Impact

Enabling Factors	Compliance												Needs Development Plan											
	Status Quo												Future plan (to address issues)									Strategy		
	Staff		External resources		Spare Parts		Tools & Equipment		Budget		ASSESSMENT	ASSESSMENT	In place?	Time Frame: Short (1) Medium (3) Long (5) None				Sufficient for: RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment																								
Quantity: Assessment of Information Completeness	S	I	S	I	S	I	S	I	S	I				1	3	5	N	*	*	*				
* 6.1 IS THERE A OPERATION & MAINTENANCE PLAN? (Y / N):													Y / N / NA								%	Y / N		%
6.2 WATER SERVICES INFRASTRUCTURE: OPERATIONAL& MAINTENANCE ASSESSMENT																								
6.2.1 Resources																								
6.2.1.1 Existing Groundwater Infrastructure : OPERATION	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	60	60	y	y	y	y		y	y	y	60	y	n	40
: MAINTENANCE	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	60	60	y	y	y	y		y	y	y	60	y	n	40
6.2.1.2 Existing Surface water Infrastructure : OPERATION	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	60	60	y	y	y	y		y	y	y	60	y	n	40
: MAINTENANCE	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	60	60	y	y	y	y		y	y	y	60	y	n	40
6.2.1.3 Existing Waste Water Treatment Works Infrastructure : OPERATION	3	N	3	N	2	M	2	M	3	M	55	60	y	y	y	y		y	y	y	60	y	n	40
: MAINTENANCE	2	M	2	M	2	M	2	M	2	C	50	60	y	y	y	y		y	y	y	60	y	n	40
6.2.1.4 Existing Water Treatment Works Infrastructure : OPERATION	3	N	3	N	2	M	2	M	3	M	55	60	y	y	y	y		y	y	y	60	y	n	40
: MAINTENANCE	2	M	2	M	2	M	2	M	2	C	50	60	y	y	y	y		y	y	y	60	y	n	40
6.2.1.5 Existing Pump Station Infrastructure : OPERATION	3	N	3	N	2	M	2	M	3	M	55	60	y	y	y	y		y	y	y	60	y	n	40
: MAINTENANCE	2	M	2	M	2	M	2	M	2	C	50	60	y	y	y	y		y	y	y	60	y	n	40
6.2.1.6 Existing Bulk Pipeline Infrastructure : OPERATION	3	N	3	N	2	M	2	M	3	M	55	60	y	y	y	y		y	y	y	60	y	n	40
: MAINTENANCE	2	M	2	M	2	M	2	M	2	C	50	60	y	y	y	y		y	y	y	60	y	n	40
6.2.1.7 Existing Tower & Reservoir Infrastructure : OPERATION	3	N	3	N	2	M	2	M	3	M	55	60	y	y	y	y		y	y	y	60	y	n	40
: MAINTENANCE	2	M	2	M	2	M	2	M	2	C	50	60	y	y	y	y		y	y	y	60	y	n	40
6.2.1.8 Existing Reticulation Infrastructure : OPERATION	3	N	3	N	2	M	2	M	3	M	55	60	y	y	y	y		y	y	y	60	y	n	40
: MAINTENANCE	2	M	2	M	2	M	2	M	2	C	50	60	y	y	y	y		y	y	y	60	y	n	40
Sub Topic 6.2.1 Compliancy & Needs Development Plans Assessment											54%	60%									60%			40%

COMMENTS

Staff is currently being trained, a new organogram is being compiled and this would result in more vacancies and training that will be required. As draw plans are available, but only in hard copy. The Supply Chain Management system has to be improved to work more effectively. Currently orders are placed and there is a delay in delivery.

STATUS QUO (S)
Z - Zero Compliance
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2 - Minimum basic requirement
3 - Above minimum requirement
N/R Not Required

IMPACT (I)
C - Critical
M - Mediumal/High
L - Low
No - No Impact

Enabling Factors		Compliance												Needs Development Plan											
		Status Quo												Future plan (to address issues)									Strategy		
		Manuals Available		Asset Register		As-Built Info.		Tools & Equipment		Contingency & Safety Plan		ASSESSMENT	ASSESSMENT	In place?	Time Frame: Short (1) Medium (3) Long (5) None				Sufficient for: RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
		S	I	S	I	S	I	S	I	S	I				1	3	5	N	*	*	*				
6.2.2 Information																									
6.2.2.1 Existing Groundwater Infrastructure	: OPERATION	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	60	60	y	y	y	y		y	y	y	60	y	n	40
	: MAINTENANCE	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	60	60	y	y	y	y		y	y	y	60	y	n	40
6.2.2.2 Existing Surface water Infrastructure	: OPERATION	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	60	60	y	y	y	y		y	y	y	60	y	n	40
	: MAINTENANCE	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	60	60	y	y	y	y		y	y	y	60	y	n	40
6.2.2.3 Existing Water Treatment Works Infrastructure	: OPERATION	2	N	2	N	2	L	2	L	2	L	50	60	y	y	y	y		y	y	y	60	y	n	40
	: MAINTENANCE	2	N	2	N	2	L	2	L	2	L	50	60	y	y	y	y		y	y	y	60	y	n	40
6.2.2.4 Existing Waste Water Treatment Works Infrastructure	: OPERATION	2	N	2	N	2	L	2	L	2	L	50	60	y	y	y	y		y	y	y	60	y	n	40
	: MAINTENANCE	2	N	2	N	2	L	2	L	2	L	50	60	y	y	y	y		y	y	y	60	y	n	40
6.2.2.5 Existing Pump Station Infrastructure	: OPERATION	2	N	2	N	2	L	2	L	2	L	50	60	y	y	y	y		y	y	y	60	y	n	40
	: MAINTENANCE	2	N	2	N	2	L	2	L	2	L	50	60	y	y	y	y		y	y	y	60	y	n	40
6.2.2.6 Existing Bulk Pipeline Infrastructure	: OPERATION	2	N	2	N	2	L	2	L	2	L	50	60	y	y	y	y		y	y	y	60	y	n	40
	: MAINTENANCE	2	N	2	N	2	L	2	L	2	L	50	60	y	y	y	y		y	y	y	60	y	n	40
6.2.2.7 Existing Tower & Reservoir Infrastructure	: OPERATION	2	N	2	N	2	L	2	L	2	L	50	60	y	y	y	y		y	y	y	60	y	n	40
	: MAINTENANCE	2	N	2	N	2	L	2	L	2	L	50	60	y	y	y	y		y	y	y	60	y	n	40
6.2.2.8 Existing Reticulation Infrastructure	: OPERATION	2	N	2	N	2	L	2	L	2	L	50	60	y	y	y	y		y	y	y	60	y	n	40
	: MAINTENANCE	2	N	2	N	2	L	2	L	2	L	50	60	y	y	y	y		y	y	y	60	y	n	40
Sub Topic 6.2.2 Compliancy & Needs Development Plans Assessment												53%	60%									60%			40%

COMMENTS

Staff is currently being trained, a new organogram is being compiled and this would result in more vacancies and training that will be required. As draw plans are available, but only in hard copy. The Supply Chain Management system has to be improved to work more effectively. Currently orders are placed and there is a delay in delivery.

Topic 6: Operation & Maintenance

STATUS QUO (S)
Z - Zero Compliance
1 - Below minimum requirement
2 - Minimum basic requirement
3 - Above minimum requirement
N/R Not Required

IMPACT (I)
C - Critical
M - Mediumal/High
L - Low
No - No Impact

Enabling Factors		Compliance: Status Quo												Needs Development Plan: Future plan (to address issues)									Strategy		
															Time Frame				Sufficient for						
															Short (1) Medium (3) Long (5) None										
		Procedures		Record keeping in place		Quality control procedures establ.		Risk Management		Reporting (data analysis & report generation establ.		ASSESSMENT	ASSESSMENT	In place?	1	3	5	N	RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quantity: Assessment of Information Completeness		S	I	S	I	S	I	S	I	S	I								*	*	*				
Quality: Information Accuracy Assessment												%	%	Y / N / NA								%	Y / N		%
6.2.3 Activity Control & Management																									
6.2.3.1 Existing Groundwater Infrastructure	: OPERATION	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	60	60	y	y	y	y		y	y	y	60	y	n	40
	: MAINTENANCE	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	60	60	y	y	y	y		y	y	y	60	y	n	40
6.2.3.2 Existing Surface water Infrastructure	: OPERATION	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	60	60	y	y	y	y		y	y	y	60	y	n	40
	: MAINTENANCE	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	60	60	y	y	y	y		y	y	y	60	y	n	40
6.2.3.3 Existing Water Treatment Works Infrastructure	: OPERATION	2	L	2	L	2	L	2	L	2	L	55	60	y	y	y	y		y	y	y	60	y	n	40
	: MAINTENANCE	1	M	1	M	2	M	1	M	1	M	40	60	y	y	y	y		y	y	y	60	y	n	40
6.2.3.4 Existing Waste Water Treatment Works Infrastructure	: OPERATION	2	L	1	M	2	M	1	M	1	M	55	60	y	y	y	y		y	y	y	60	y	n	40
	: MAINTENANCE	1	M	1	M	2	M	1	M	1	M	40	60	y	y	y	y		y	y	y	60	y	n	40
6.2.3.5 Existing Pump Station Infrastructure	: OPERATION	2	L	1	M	2	M	1	M	1	M	55	60	y	y	y	y		y	y	y	60	y	n	40
	: MAINTENANCE	1	M	1	M	2	M	1	M	1	M	40	60	y	y	y	y		y	y	y	60	y	n	40
6.2.3.6 Existing Bulk Pipeline Infrastructure	: OPERATION	2	L	1	M	2	M	1	M	1	M	55	60	y	y	y	y		y	y	y	60	y	n	40
	: MAINTENANCE	1	M	1	M	2	M	1	M	1	M	40	60	y	y	y	y		y	y	y	60	y	n	40
6.2.3.7 Existing Tower & Reservoir Infrastructure	: OPERATION	2	L	1	M	2	M	1	M	1	M	55	60	y	y	y	y		y	y	y	60	y	n	40
	: MAINTENANCE	1	M	1	M	2	M	1	M	1	M	40	60	y	y	y	y		y	y	y	60	y	n	40
6.2.3.8 Existing Reticulation Infrastructure	: OPERATION	2	L	1	M	2	M	1	M	1	M	55	60	y	y	y	y		y	y	y	60	y	n	40
	: MAINTENANCE	1	M	1	M	2	M	1	M	1	M	40	60	y	y	y	y		y	y	y	60	y	n	40
Sub Topic 6.2.3 Compliancy & Needs Development Plans Assessment												51%	60%									60%			40%

COMMENTS

Staff is currently being trained, a new organogram is being compiled and this would result in more vacancies and training that will be required. As draw plans are available, but only in hard copy. The Supply Chain Management system has to be improved to work more effectively. Currently orders are placed and there is a delay in delivery.

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N/R Not Required

IMPACT (I)
C - Critical
M - Mediumal/High
L - Low
No - No Impact

Enabling Factors		Compliance: Status Quo											Needs Development Plan: Future plan (to address issues)									Strategy		
		Policies & Procedures		Record keeping in Place		Quality Control Procedures Established		Risk Management		Reporting		ASSESSMENT	ASSESSMENT	In place?	Time Frame: Short (1) Medium (3) Long (5) None				Sufficient for: RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quantity: Assessment of Information Completeness		S	I	S	I	S	I	S	I	S	I				1	3	5	N	*	*	*				
Quality: Information Accuracy Assessment												%	%	Y / N / NA								%	Y / N		%
*** 6.3 Water Supply and Quality**	In Place Y / N																								
6.3.1 Water: Incident Management Protocol	y																								
6.3.2 Water: Process Control	y																								
6.3.3 Water: Monitoring Programme	y																								
6.3.4 Water: Sample Analysis (Credible: Scale 1 – 5 as per Blue Drop requirements)	4																								
6.3.5 Water: Failure Response Management	y																								
6.3.6 Blue Drop Status	n	ADD SCORE FROM BLUE DROP STATUS										49%	60%									60%			40%
*** 6.4 Waste Water Supply and Quality**	In Place Y / N																								
6.4.1 Waste Water: Incident Management Protocol	y																								
6.4.2 Waste Water: Process Control	y																								
6.4.3 Waste Water: Monitoring Programme	y																								
6.4.4 Waste Water: Sample Analysis (Credible: Scale 1 – 5 as per Green Drop requirements)	3																								
6.4.5 Waste Water: Failure Response Management	y																								
6.4.6 Green Drop Status	n	ADD SCORE FROM GREEN DROP STATUS										62%	60%									60%			40%

6.1 OPERATION & MAINTENANCE PLAN	0%	0%
6.2.1 RESOURCES	54%	60%
6.2.2 INFORMATION	53%	60%
6.2.3 ACTIVITY CONTROL & MANAGEMENT	51%	60%
6.3 WATER SUPPLY AND QUALITY (BLUE DROP)	49%	60%
6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DROP)	62%	60%

COMMENTS

A service provider has been appointed to address the Blue Drop and Green Drop procedures. Operators are being trained for certification. AS first time assessment on Blue Drop the score was 48%. With improvements made and testing done in Sasolburg this should improve considerably. The Green Drop score as first time assessment was 61% and with improvements this should improve considerably.

NEEDS DEVELOPMENT PLAN ASSESSMENT	
Future plan	60%
Strategy	40%

OVERALL QUALITY ASSESSMENT	45%
OVERALL QUANTITY ASSESSMENT	50%

* BASELINE INFORMATION: COMPULSORY FIELDS

Topic 7: Associated Services

Enabling Factors						Compliance		Needs Development Plan											
								Future plan (to address issues)								Strategy			
									Time Frame				Sufficient for						
Resources available to perform function? (Yes: Y, No: N, Not Applicable: NA):						ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None				RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment									1	3	5	N	*	*	*				
Quantity: Assessment of Information Completeness																			
7.1 Water Services						%	%	Y / N / NA								%	Y / N		%
Associated Services Facility	**Number of facilities**	**Facilities with adequate services**	**Facilities with no services**	**Facilities with inadequate services**	**Total Potential cost (basic level) (RM)**														
7.1.1 Education Plan																			
*** Schools**	46	45		1		50	60	y	y	y	y		y	y	y	60	y	n	40
Tertiary education facility						0	0	y	y	y	y		y	y	y	60	y	n	40
Total	**46**	**45**	**0**	**1**	**0**														
*** 7.1.2 Health Plan**																			
* Hospitals	3	3	0	0		60	60	y	y	y	y		y	y	y	60	y	n	40
* Health centres	0	0	0	0		60	60	y	y	y	y		y	y	y	60	y	n	40
* Clinics	12	9	0	3		40	60	y	y	y	y		y	y	y	60	y	n	40
Total	**15**	**12**	**0**	**3**	**0**														
Sub Topic 7.1 Compliancy & Needs Development Plans Assessment						42%	48%									60%			40%
7.2 Sanitation Services																			
7.2.1 Education Plan																			
*** Schools**	46	37	2	9		40	60	y	y	y	y		y	y	y	60	y	n	40
Tertiary education facility						0	0	y	y	y	y		y	y	y	60	y	n	40
Total	**46**	**37**	**2**	**9**	**0**														
*** 7.2.2 Health Plan**																			
* Hospitals	3	3	0	0		60	60	y	y	y	y		y	y	y	60	y	n	40
* Health centres	0	0	0	0		60	60	y	y	y	y		y	y	y	60	y	n	40
* Clinics	12	9	0	3		40	60	y	y	y	y		y	y	y	60	y	n	40
Total	**15**	**12**	**0**	**3**	**0**														
Sub Topic 7.2 Compliancy & Needs Development Plans Assessment						40%	48%									60%			40%

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Topic 7: Associated Services

Enabling Factors	Compliance		Needs Development Plan			
			Future plan (to address issues)		Strategy	
OVERALL TOPIC ASSESSMENT	ASSESSMENT	ASSESSMENT		ASSESSMENT		ASSESSMENT
Quality: Information Accuracy Assessment						
Quantity: Assessment of Information Completeness						
7.1 WATER SERVICES	42%	48%				
7.2 SANITATION SERVICES	40%	48%				

GENERAL COMMENTS

NEEDS DEVELOPMENT PLAN ASSESSMENT

Future plan	60%
Strategy	40%

OVERALL QUANTITY ASSESSMENT	48%
OVERALL QUALITY ASSESSMENT	41%

SALGA

* BASELINE INFORMATION: COMPULSORY FIELDS

Topic 8: Conservation & Demand Management

8

Enabling Factors	Compliance								Needs Development Plan											
	Status Quo								Future plan (to address issues)									Strategy		
										Time Frame				Sufficient for						
	Resources available to perform function? (Yes: Y, No: N, Partially: P, N/A: NA):	Urban Settlements		Rural Settlements		ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None				RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment		Number Of	% of Total	Number Of	% of Total														
Quantity: Assessment of Information Completeness									1	3	5	N	*	*	*				
8.1 Water Resource Management Interventions						%	%	Y / N / NA								%	Y / N		%
*** 8.1.1 Reducing unaccounted water and water inefficiencies**																			
8.1.1.1 Night flow metering	n					0	0	n								0			0
8.1.1.2 Day flow metering	n					0	0	n								0			0
8.1.1.3 Reticulation leaks	y					60	0	n								0			0
8.1.1.4 Illegal connections	y					60	0	n								0			0
8.1.1.5 Un-metered connections	y					60	0	n								0			0
8.1.1.6 Internal plumbing leaks	n					0	0	n								0			0
*** 8.1.2 Reducing high pressures for residential consumers** **Number of consumer units with water supply pressure of:**					TOTAL	30%	0%									0%			0%
8.1.2.1 <300kPa	n					40	0												
8.1.2.2 300 –600kPa	n					40	0												
8.1.2.3 600 –900kPa	n					40	0	n								0			0
8.1.2.4 >900kPa (>9Bar)	n					40	0	n								0			0
*** 8.1.3 Leak and meter repair programmes** **Consumer units targeted by:**					TOTAL	40%	0%									0%			0%
8.1.3.1 Leak repair assistance programme	n					0	0	n								0			0
8.1.3.2 Retro-fitting of water efficient toilets	n					0	0	n								0			0
8.1.3.3 Meter repair programme **Y / N :** y	y					0	0	n								0			0
8.1.4 Consumer/end-use demand management: Public Information & Education Programmes					TOTAL	0%	0%									0%			0%
8.1.4.1 Schools targeted by education programmes	n					0	0	n								0			0
8.1.4.2 Consumers targeted by public information programmes	y					0	0	n								0			0
*** 8.1.4.3 IS THERE A OPERATION & MAINTENANCE PLAN?**		**(Y / N):**	y			60%	60%									60%			40%
Sub Topic 8.1 Compliancy & Needs Development Plans Assessment						33%	15%									15%			10%

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Topic 8: Conservation & Demand Management

Enabling Factors	Compliance			Needs Development Plan										
	Status Quo			Future plan (to address issues)								Strategy		
					Time Frame				Sufficient for					
	Number of Settlements	ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None				RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
					1	3	5	N	*	*	*				
Quality: Information Accuracy Assessment															
Quantity: Assessment of Information Completeness															
	Number of	%	%	Y / N / NA								%	Y / N		%
8.1.5 Conjunctive use of surface – and groundwater															
Ground Water															
Surface Water	7														
Conjuctive Use															
Artificial Recharge	0														
Rain Water Harvesting	0														
8.1.6 Working for Water	Is there a Working for Water Programme in Place: **(Y / N) :** n														
Provide List of Projects:															
1)															
2)															
3)															
4)															
5)															
6)															
7)															

Comments

MOU between Sasol, Rand Water, DWA and Metsimaholo in total contributing R1,85m towards WCDM.

Topic 8: Conservation & Demand Management

Enabling Factors	Compliance	Needs Development Plan
General Notes: The compliancy and needs development plan section must be completed for each aspect listed	Status Quo	Future plan (to address issues) / Strategy

TOTAL: 19.970

Must be completed for Total. If required **this page** can be completed in multi copies to list and describe more than one system

Quality: Information Accuracy Assessment

Quantity: Assessment of Information Completeness

8.2 Water Balance (Volume Units in Mℓ/d)

Item	Ref	Value	ASSESSMENT (Quality) %	ASSESSMENT (Quantity) %	In place? Y/N/NA	Time Frame 1	3	5	N	Sufficient for RDP *	Higher Level *	Growth & Development *	ASSESSMENT %	In place? Y/N	Sufficient	ASSESSMENT %
Ground Water	7A	0	40	40	n								0	n		0
Purchased	7	0	40	40	n								0	n		0
Total bulk	8	18.153	40	40	n								0	n		0
Total Treatment at TW	6	18.153	40	40	n								0	n		0
TOTAL RURAL SUPPLY			40	40	n								0	n		0
Total Influent	5	19.571	40	40	n								0	n		0
Residential communal water supply			40	40	n								0	n		0
Residential controlled volume supply			40	40	n								0	n		0
Residential uncontrolled volume supply			40	40	n								0	n		0
Industrial Supply – Wet			40	40	n								0	n		0
Industrial Supply – Dry			40	40	n								0	n		0
Commercial supply			40	40	n								0	n		0
Other supply			40	40	n								0	n		0
TOTAL URBAN SUPPLY			40	40	n								0	n		0
TOTAL METERED WATER SUPPLIED (urban + rural)	9	18.153	40	40	n								0	n		0
TOTAL METERED CONSUMPTION (urban + rural)	10	15.067	40	40	n								0	n		0
Raw Water Supplied	4 / 11	0	40	40	n								0	n		0
Waste Water Treatment Works – Total recieved at WWTW		18.00	40	40	n								0	n		0
Total Discharged	11a	17.10	40	40	n								0	n		0
Other	12	0	40	40	n								0	n		0
Returned to source	13	17.100	40	40	n								0	n		0
Recycled	14	0	40	40	n								0	n		0
Ground water Abstracted	3	0	40	40	n								0	n		0
Surface water Abstracted	2	0	40	40	n								0	n		0
Surface water Purchased	1	19.970	40	40	n								0	n		0
Sub Topic 8.2 Compliancy & Needs Development Plans Assessment			40%	40%									0%			0%

* BASELINE INFORMATION: COMPULSORY FIELDS

Enabling Factors	Compliance	Needs Development Plan												
General Notes: The compliancy and needs development plan section must be completed for each aspect listed	Status Quo			Future plan (to address issues)								Strategy		
					Time Frame				Sufficient for					
TOTAL: 19.970		ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None				Basic	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Must be completed for Total. If required **this page** can be completed in multi copies to list and describe more than one system					1	3	5	N	*	*	*				
Quality: Information Accuracy Assessment															
Quantity: Assessment of Information Completeness		%	%	Y / N / NA								%	Y / N		%

8.3 Water Losses

8.3.1 - Raw Water Bulk Loss

Raw Water at Treatment		Total Raw Water Bulk Received		Raw Water Supplied			% LOSS															
5	-	(1+2+3+14)	-	4																		
19.571	-	19.970	-	0.000	=	-0.3994071	-2%	40	40	n								0	n		0

8.3.2 - Treated Water Loss :Bulk

Total Metered Supplied		(Total Treated at Treated Water + Purchased Treated Water)																				
9	-	8																				
18.153		18.153			=	0	0%	40	40	n								0	n		0

8.3.3 - Treated Water Loss :Internal

Metered Consumption		Metered Supplied																				
10	-	9																				
15.067	-	18.153			=	-3.0859344	-15%	40	40	n								0	n		0

8.3.4 - Water Balance

	Bulk		Usage		Discharged																	
Input	(1+2+3+7+7a)-4	-	9	+	13		Value															
	19.970		18.153		17.100		18.917801	95%	40	40	n								0	n		0

Sub Topic 8.3 Compliancy & Needs Development Plans Assessment	40%	40%											0%		0%

Topic 8: Conservation & Demand Management

8

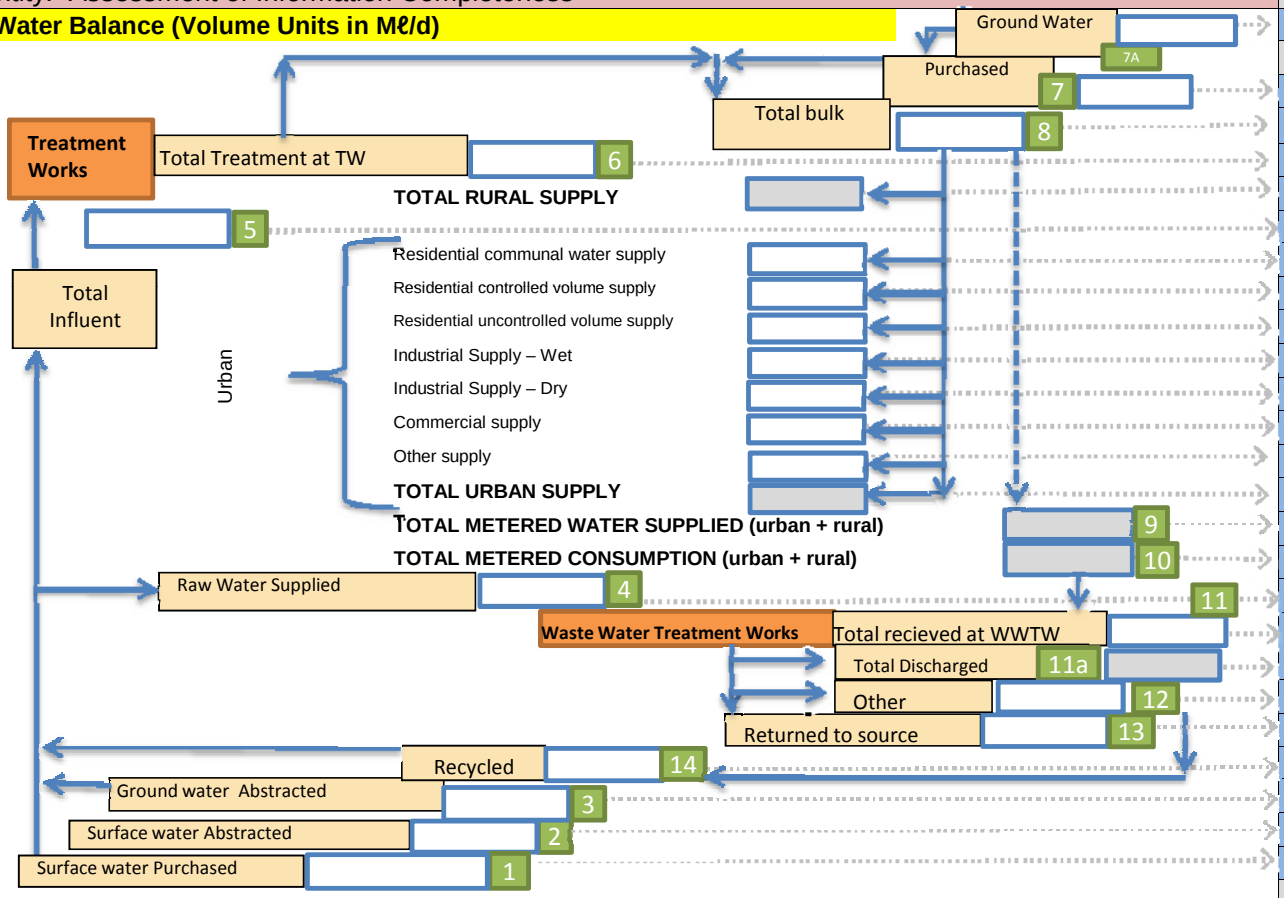
Enabling Factors	Compliance	Needs Development Plan
General Notes: The compliancy and needs development plan section must be completed for each aspect listed	Status Quo	Future plan (to address issues) / Strategy

TOTAL: _____

Must be completed for Total. If required **this page** can be completed in multi copies to list and describe more than one system

	ASSESSMENT	ASSESSMENT	In place?	Time Frame: Short (1) Medium (3) Long (5) None				Sufficient for: RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
				1	3	5	N	*	*	*				
Quality: Information Accuracy Assessment														
Quantity: Assessment of Information Completeness	%	%	Y / N / NA								%	Y / N		%

8.2 Water Balance (Volume Units in Mℓ/d)



Sub Topic 8.2 Compliancy & Needs Development Plans Assessment	0%	0%									0%			0%

8 Topic 8: Conservation & Demand Management

Enabling Factors	Compliance	Needs Development Plan												
General Notes: The compliancy and needs development plan section must be completed for each aspect listed	Status Quo			Future plan (to address issues)								Strategy		
					Time Frame				Sufficient for					
		ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None				Basic	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
					1	3	5	N	*	*	*				
Quality: Information Accuracy Assessment															
Quantity: Assessment of Information Completeness		%	%	Y / N / NA								%	Y / N		%

TOTAL: _____

Must be completed for Total. If required **this page** can be completed in multi copies to list and describe more than one system

8.3 Water Losses

8.3.1 - Raw Water Bulk Loss

Raw Water at Treatment	-	Total Raw Water Bulk Received	-	Raw Water Supplied		% LOSS
5	-	(1+2+3+14)	-	4		
	-		-		=	

8.3.2 - Treated Water Loss :Bulk

Total Metered Supplied	-	(Total Treated at Treated Water + Purchased Treated Water)		
9	-	8		
			=	

8.3.3 - Treated Water Loss :Interna

Metered Consumption	-	Metered Supplied		
10	-	9		
	-		=	

8.3.4 - Water Balance

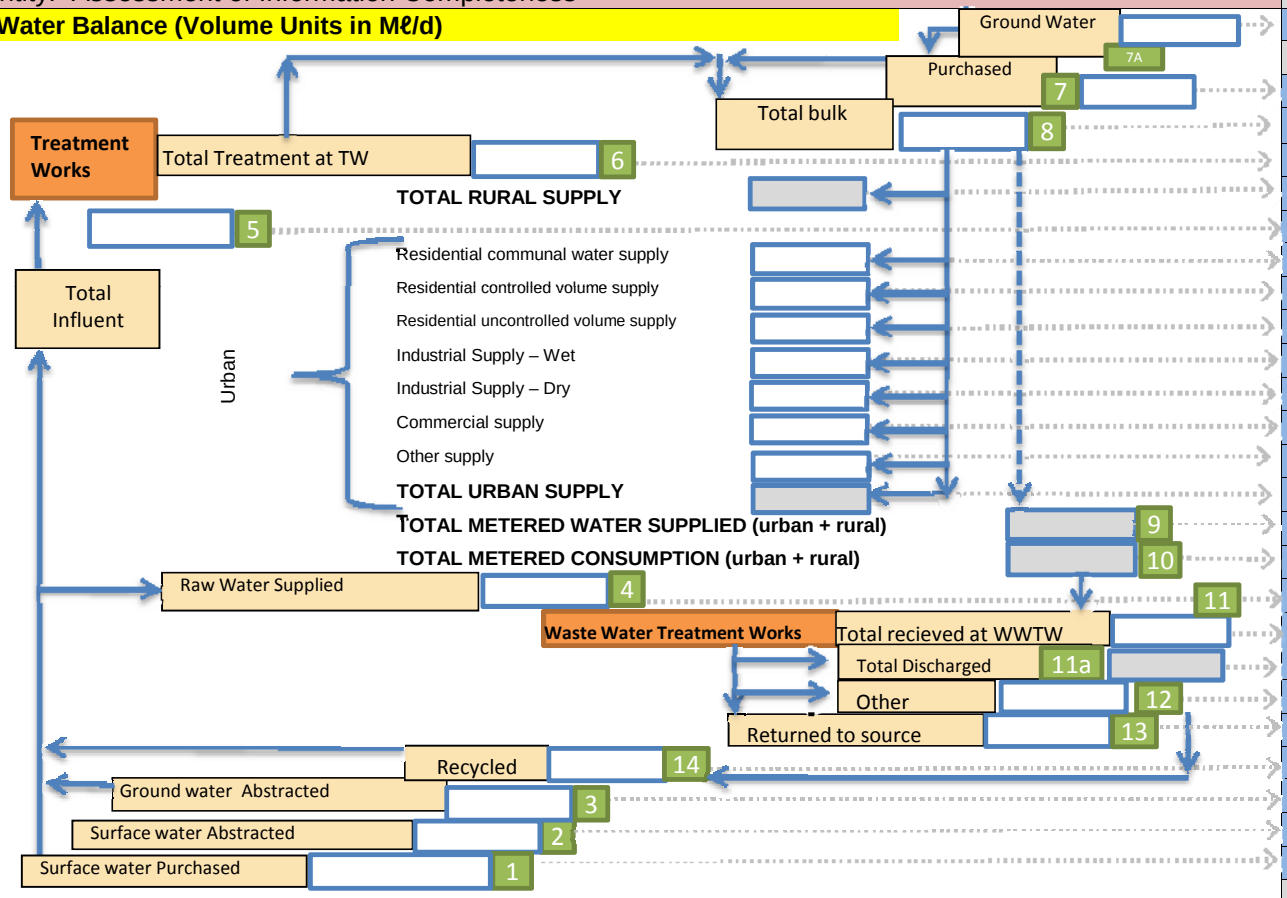
	Bulk		Usage	+	Discharged	
Input	(1+2+3+7+7a)-4	-	9	+	13	Value

Sub Topic 8.3 Compliancy & Needs Development Plans Assessment	0%	0%	0%	0%

Topic 8: Conservation & Demand Management

8

Enabling Factors	Compliance	Needs Development Plan														
	Status Quo	Future plan (to address issues)										Strategy				
			Time Frame				Sufficient for									
General Notes: The compliancy and needs development plan section must be completed for each aspect listed		ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None				RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
TOTAL: _____ Must be completed for Total. If required **this page** can be completed in multi copies to list and describe more than one system					1	3	5	N	*	*	*					
Quality: Information Accuracy Assessment																
Quantity: Assessment of Information Completeness		%	%	Y / N / NA								%	Y / N		%	
8.2 Water Balance (Volume Units in Mℓ/d)																



Sub Topic 8.2 Compliancy & Needs Development Plans Assessment		0%	0%									0%			0%	

8

Topic 8: Conservation & Demand Management

Enabling Factors	Compliance	Needs Development Plan												
General Notes: The compliancy and needs development plan section must be completed for each aspect listed	Status Quo			Future plan (to address issues)								Strategy		
		ASSESSMENT	ASSESSMENT	In place?	Time Frame: Short (1) Medium (3) Long (5) None				Sufficient for: Basic	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
					1	3	5	N	*	*	*				
Quality: Information Accuracy Assessment															
Quantity: Assessment of Information Completeness		%	%	Y / N / NA								%	Y / N		%

TOTAL: _____

Must be completed for Total. If required **this page** can be completed in multi copies to list and describe more than one system

8.3 Water Losses

8.3.1 - Raw Water Bulk Loss

Raw Water at Treatment		Total Raw Water Bulk Received		Raw Water Supplied			% LOSS
5	-	(1+2+3+14)	-	4	=		
	-		-				

8.3.2 - Treated Water Loss :Bulk

Total Metered Supplied		(Total Treated at Treated Water + Purchased Treated Water)			
9	-	8	=		
	-				

8.3.3 - Treated Water Loss :Interna

Metered Consumption		Metered Supplied			
10	-	9	=		
	-				

8.3.4 - Water Balance

	Bulk		Usage	+	Discharged		
Input	(1+2+3+7+7a)-4	-	9	+	13	Value	

Sub Topic 8.3 Compliancy & Needs Development Plans Assessment	0%	0%	0%	0%

Topic 8: Conservation & Demand Management

8

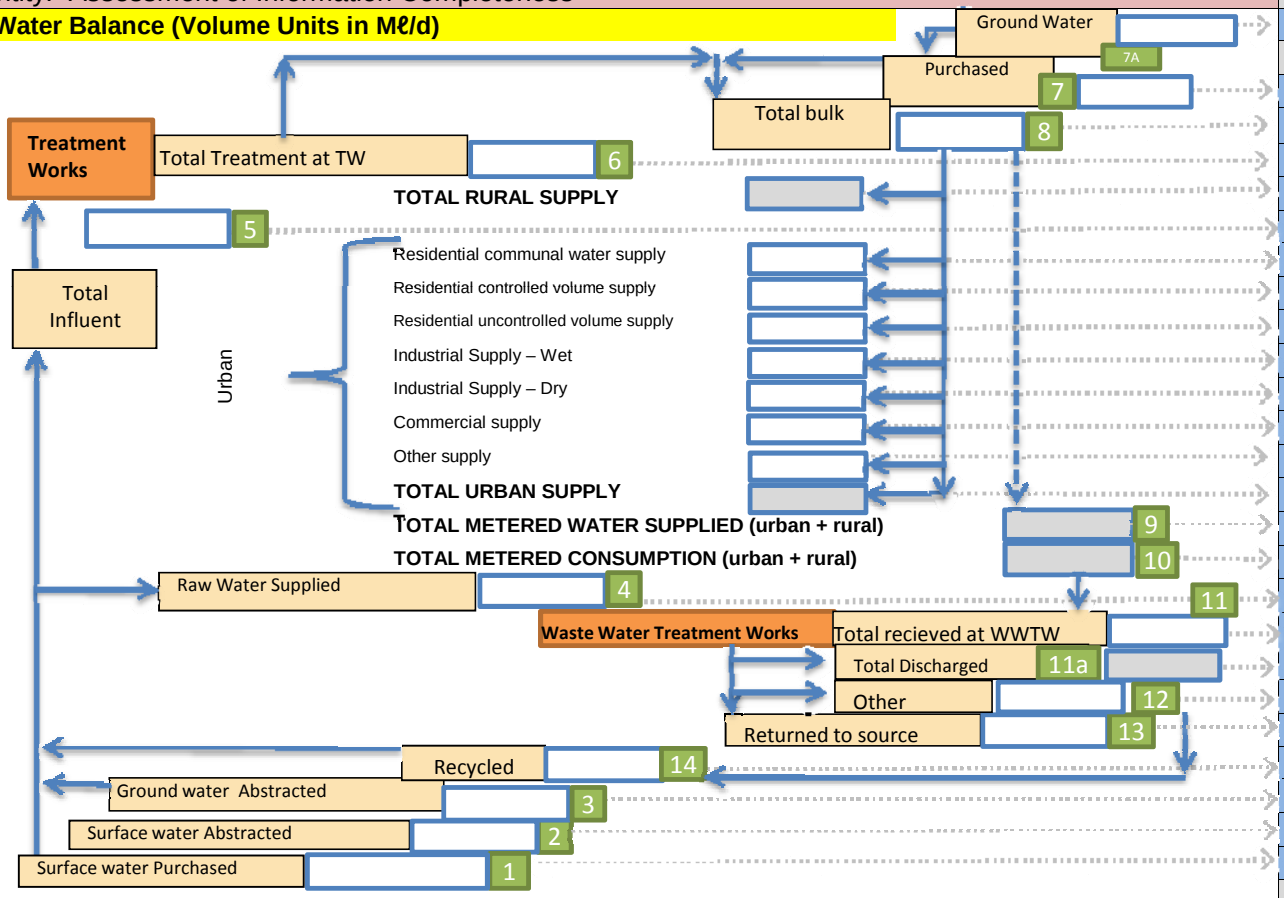
Enabling Factors	Compliance	Needs Development Plan
General Notes: The compliancy and needs development plan section must be completed for each aspect listed	Status Quo	Future plan (to address issues) / Strategy

TOTAL: _____

Must be completed for Total. If required **this page** can be completed in multi copies to list and describe more than one system

	ASSESSMENT	ASSESSMENT	In place?	Time Frame: Short (1) Medium (3) Long (5) None				Sufficient for: RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
				1	3	5	N	*	*	*				
Quality: Information Accuracy Assessment														
Quantity: Assessment of Information Completeness	%	%	Y / N / NA								%	Y / N		%

8.2 Water Balance (Volume Units in Mℓ/d)



Sub Topic 8.2 Compliancy & Needs Development Plans Assessment	0%	0%									0%			0%

Topic 8: Conservation & Demand Management

Enabling Factors	Compliance	Needs Development Plan												
General Notes: The compliancy and needs development plan section must be completed for each aspect listed	Status Quo			Future plan (to address issues)								Strategy		
					Time Frame				Sufficient for					
		ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None				Basic	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
					1	3	5	N	*	*	*				
Quality: Information Accuracy Assessment		%	%	Y / N / NA								%	Y / N		%
Quantity: Assessment of Information Completeness															

TOTAL: _____

Must be completed for Total. If required **this page** can be completed in multi copies to list and describe more than one system

8.3 Water Losses

8.3.1 - Raw Water Bulk Loss

Raw Water at Treatment		Total Raw Water Bulk Received		Raw Water Supplied		% LOSS
5	-	(1+2+3+14)	-	4	=	
	-		-			

8.3.2 - Treated Water Loss :Bulk

Total Metered Supplied		(Total Treated at Treated Water + Purchased Treated Water)		
9	-	8	=	

8.3.3 - Treated Water Loss :Interna

Metered Consumption		Metered Supplied		
10	-	9	=	
	-			

8.3.4 - Water Balance

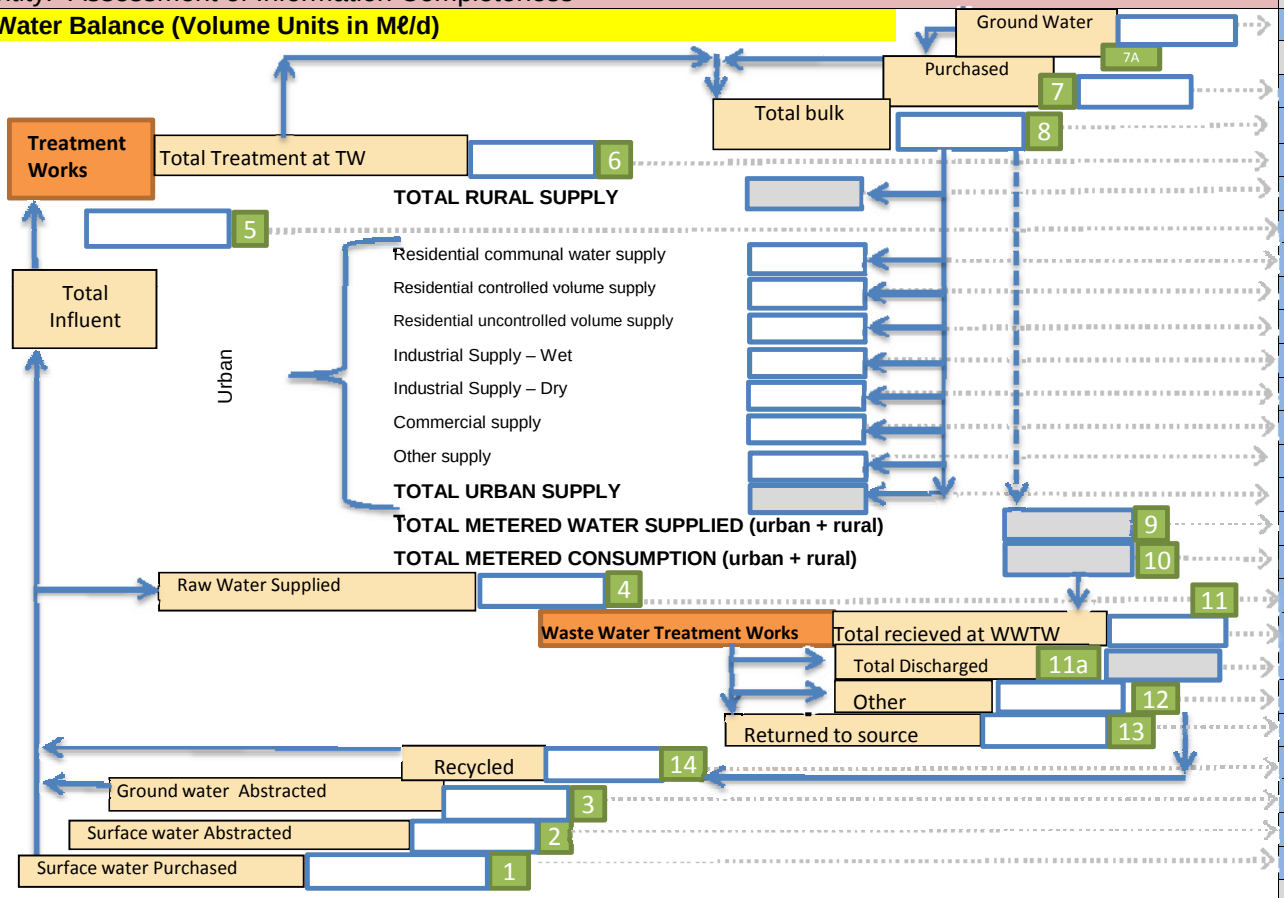
	Bulk		Usage	+	Discharged	
Input	(1+2+3+7+7a)-4	-	9	+	13	Value

Sub Topic 8.3 Compliancy & Needs Development Plans Assessment	0%	0%	0%	0%

Topic 8: Conservation & Demand Management

8

Enabling Factors	Compliance	Needs Development Plan														
	Status Quo	Future plan (to address issues)										Strategy				
			Time Frame				Sufficient for									
General Notes: The compliancy and needs development plan section must be completed for each aspect listed		ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None				RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT	
TOTAL: _____ Must be completed for Total. If required **this page** can be completed in multi copies to list and describe more than one system					1	3	5	N	*	*	*					
Quality: Information Accuracy Assessment																
Quantity: Assessment of Information Completeness		%	%	Y / N / NA								%	Y / N		%	
8.2 Water Balance (Volume Units in Mℓ/d)																



Sub Topic 8.2 Compliancy & Needs Development Plans Assessment		0%	0%									0%			0%	

8 Topic 8: Conservation & Demand Management

Enabling Factors	Compliance	Needs Development Plan												
General Notes: The compliancy and needs development plan section must be completed for each aspect listed	Status Quo			Future plan (to address issues)								Strategy		
					Time Frame				Sufficient for					
		ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None				Basic	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
					1	3	5	N	*	*	*				
Quality: Information Accuracy Assessment		%	%	Y / N / NA								%	Y / N		%
Quantity: Assessment of Information Completeness															

TOTAL: _____

Must be completed for Total. If required **this page** can be completed in multi copies to list and describe more than one system

8.3 Water Losses

8.3.1 - Raw Water Bulk Loss

Raw Water at Treatment	-	Total Raw Water Bulk Received	-	Raw Water Supplied		% LOSS
5	-	(1+2+3+14)	-	4	=	
	-		-			

8.3.2 - Treated Water Loss :Bulk

Total Metered Supplied	-	(Total Treated at Treated Water + Purchased Treated Water)		
9	-	8	=	

8.3.3 - Treated Water Loss :Interna

Metered Consumption	-	Metered Supplied		
10	-	9	=	
	-			

8.3.4 - Water Balance

	Bulk		Usage	+	Discharged	
Input	(1+2+3+7+7a)-4	-	9	+	13	Value

Sub Topic 8.3 Compliancy & Needs Development Plans Assessment	0%	0%	0%	0%

METSIMAHOLO LOCAL MUNICIPALITY

Topic 8: Conservation & Demand Management

8

Enabling Factors	Compliance		Needs Development Plan	
	Status Quo		Future plan (to address issues)	Strategy
OVERALL TOPIC ASSESSMENT	ASSESSMENT	ASSESSMENT	ASSESSMENT	ASSESSMENT
Quality: Information Accuracy Assessment				
Quantity: Assessment of Information Completeness				
8.1 WATER RESOURCE MANAGEMENT INTERVENTIONS	33%	15%		
8.2 WATER BALANCE	40%	40%		
8.3 WATER LOSSES	40%	40%		

Comments

NEEDS DEVELOPMENT PLAN ASSESSMENT	
Future plan	15%
Strategy	10%

OVERALL QUALITY ASSESSMENT	38%
OVERALL QUANTITY ASSESSMENT	32%

* 9.1 Sources & Volumes

* CURRENT Water sources	* Number of sources	* Current abstraction (Mm³/A)	* Licensed abstraction (Mm³/A)	* Community water supply		ASSESMENT	ASSESMENT
				Rural	Urban		
Groundwater	5						
Surface Water	3	6.8					
External Sources (Bulk purchase)							
Water returned to source							
Sub Topic 9.1 Compliancy & Needs Development Plans Assessment						0%	0%

Additional Source Available	* Number of sources	Potential Volume	* Licensed abstraction (Mm³/A)
Groundwater			
Surface Water			
External Sources (Bulk purchase)			

Enabling Factors		Compliance			Needs Development Plan											
		Status Quo			Future plan (to address issues)									Strategy		
					In place?	Time Frame				Sufficient for			ASSESSMENT	In place?	Sufficient	ASSESSMENT
Resources available to perform function? (Yes: Y, No: N, Partially: P, N/A: NA):	General Assesment on Scale 1-5 None 0% Limited 20% Partial 40% Good 60% Excellent 80%	Budget, Tools & Equipment & Personnel	ASSESSMENT	ASSESSMENT		Short (1) Medium (3) Long (5) None				RDP	Higher Level	Growth & Development				
Quality: Information Accuracy Assessment						1	3	5	N	*	*	*				
Quantity: Assessment of Information Completeness		Y / N / NA	%	%	Y / N / NA								%	Y / N		%
9.2 Monitoring	**Is there a Monitoring Plan in Place (Y / N):**															
9.2.1 % of water abstracted monitored: Surface water	80%		60	60	y	y	y	y		y	y	y	60	y	n	40
9.2.2 % of water abstracted monitored: Groundwater	n/r		60	60	y	y	y	y		y	y	y	60	y	n	40
9.2.3 % of water abstracted monitored: External Sources (Bulk purchase)	80%		60	60	y	y	y	y		y	y	y	60	y	n	40
9.2.4 Water levels (1: daily, 2: weekly, 3: monthly, 4: annually, 5: never)	80%	y	60	60	y	y	y	y		y	y	y	60	y	n	40
9.2.5 Water quality? (1: daily, 2: weekly, 3: monthly, 4: annually, 5: never)	80%	y	60	60	y	y	y	y		y	y	y	60	y	n	40
9.2.6 Borehole abstraction? (1: daily, 2: weekly, 3: monthly, 4: annually, 5: never)	n/r	n/r	60	60	y	y	y	y		y	y	y	60	y	n	40
*** 9.2.7 % Compliance to drinking water acceptable limits**	80%	y	60	60	y	y	y	y		y	y	y	60	y	n	40
*** 9.2.8 % Compliance to effluent release acceptable limits**	80%	y	60	60	y	y	y	y		y	y	y	60	y	n	40
9.2.9 Number of monitoring points for drinking water sufficient	y		60	60	y	y	y	y		y	y	y	60	y	n	40
9.2.10 Number of monitoring points for effluent release sufficient	y		60	60	y	y	y	y		y	y	y	60	y	n	40
Sub Topic 9.2 Compliancy & Needs Development Plans Assessment			60%	60%									60%			40%

Topic 9: Water Resources

Enabling Factors			Compliance			Needs Development Plan											
			Status Quo			Future plan (to address issues)									Strategy		
							Time Frame				Sufficient for						
Resources available to perform function? (Yes: Y, No: N, Partially: P, N/A: NA):	General Assesment on Scale 1-5 None 0% Limited 20% Partial 40% Good 60% Excellent 80%	In Place? Y/N	Budget, Tools & Equipment & Personnel	ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None				RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment							1	3	5	N	*	*	*				
Quantity: Assessment of Information Completeness		Y / N / NA		%	%	Y / N / NA								%	Y / N		%
9.3 Water Quality	**Is there a Water Quality Plan in Place (Y / N):**																
9.3.1 Reporting on quality of water taken from source: urban & rural		y	y	60	60	y	y	y	y		y	y	y	60	y	n	40
9.3.2 Quality of water returned to the resource: urban	80%			60	60	y	y	y	y		y	y	y	60	y	n	40
9.3.3 Quality of water returned to the resource: rural	80%			60	60	y	y	y	y		y	y	y	60	y	n	40
9.3.4 Is there a Pollution contingency measures plan in place?		y	y	60	60	y	y	y	y		y	y	y	60	y	n	40
9.3.5 Quality of water taken from source: urban - % monitored by WSA self?	10%		y	60	60	y	y	y	y		y	y	y	60	y	n	40
9.3.6 Quality of water taken from source: rural - % monitored by WSA self?	10%		y	60	60	y	y	y	y		y	y	y	60	y	n	40
9.3.7 Quality of water returned to the source: urban - % monitored by WSA self?	0%		y	60	60	y	y	y	y		y	y	y	60	y	n	40
9.3.8 Quality of water returned to the source: rural - % monitored by WSA self?	0%		y	60	60	y	y	y	y		y	y	y	60	y	n	40
9.3.9 Are these results available in electronic format? (Yes/no)		y		60	60	y	y	y	y		y	y	y	60	y	n	40
9.3.10 % Time (days) within SABS 241 standards per year	80%			60	60	y	y	y	y		y	y	y	60	y	n	40
Sub Topic 9.3 Compliancy & Needs Development Plans Assessment				60%	60%									60%			40%

General Comments

Metsimaholo is striving towards providing quality water and pursuing green drop and blue drop status

Topic 9: Water Resources

9.5 Wet Industries

Enabling Factors						ASSESSMENT	ASSESSMENT	Needs Development Plan											
								Future plan (to address issues)								Strategy			
								In place?	Time Frame: Short (1) Medium (3) Long (5) None				Sufficient for: RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment									1	3	5	N	*	*	*				
Quantity: Assessment of Information Completeness						%	%	Y / N / NA								%	Y / N		%
9.4 Wet Industries: Urban and Rural																			
Monthly Water use (ml/d) (Total)	**Water Quality Received: Raw (Total)**	**Filtered (Total)**	**Chlorinated (Total)**	**Fully Treated (Total)**	**Reliability (inadequate adequate, special treatment) (Total)**														
						0%	0%	y	y	y	y		y	y	y	60	y	n	40
9.5 'Raw' Water Consumers: Urban and Rural																			
Monthly Water use (ml/d) (Total)	**Water Quality Received: Raw (Total)**	**Filtered (Total)**	**Other (Total)**	**Tariff (R/ml) Total)**	**Reliability (inadequate adequate, special treatment) (Total)**														
						0%	0%	y	y	y	y		y	y	y	60	y	n	40
9.6 Industrial Consumer Units for Sanitation: Urban and Rural																			
Number of service units (Total)	**Monthly waste water (ml) (Total)**	**Monthly Sewage (ml) (Total)**	**Total Treated effluent (ml) (Total)**	**Total Untreated effluent (ml) (Total)**	**Total Return flow to river system (ml)**														
						0%	0%	y	y	y	y		y	y	y	60	y	n	40
9.7 Industries and their permitted effluent releases																			
Permitted volume (Mℓ/yr) (Total)	**Permitted effluent quality (units) (Total)**																		
						0%	0%	y	y	y	y		y	y	y	60	y	n	40

* BASELINE INFORMATION: COMPULSORY FIELDS

Topic 9: Water Resources

6

Enabling Factors	ASSESSMENT	ASSESSMENT
OVERALL TOPIC ASSESSMENT		
Quality: Information Accuracy Assessment		
Quantity: Assessment of Information Completeness		
9.1 Sources & Volumes	0%	0%
9.2 Monotoring	60%	60%
9.3 Water Quality	60%	60%
9.4 Wet Industries: Urban & Rural	0%	0%
9.5 'Raw' Water Consumers: Urban & Rural	0%	0%
9.6 Industrial Consumer Units for Sanitation: Urban & Rural	0%	0%
9.7 Industries and their permitted effluent releases	0%	0%

Needs Development Plan			
Future plan (to address issues)	ASSESSMENT	Strategy	ASSESSMENT

Comments

Rand Water provides 90% of the water in Metsimaholo and this is provided to Sasolburg only. The rest is extracted and purified by Metsimaholo.
The sewer effluent in Sasolburg is treated by Sasol under contract, and the rest is done by Metsimaholo.

NEEDS DEVELOPMENT PLAN ASSESSMENT	
Future plan	4020%
Strategy	2680%

OVERALL QUANTITY ASSESSMENT	17%
OVERALL QUALITY ASSESSMENT	17%

10 Topic 10: Financial Profile

10.1 Capital Funds

10.1.1 Income		Housing	Trading Services							Grand Total
			Environmental Protection	Waste Management (solid waste)	Waste water management	Road transport	Water	Electricity	Other Trading Services	
		RM	RM	RM	RM	RM	RM	RM	RM	RM
10.1.1.1	Subsidies From:									
10.1.1.2	National Government									
10.1.1.3	Provincial Government									
10.1.1.4	Local Government									
10.1.1.5	Other									
10.1.1.6	Grants (including the equitable share) from:									
10.1.1.7	National Government									
10.1.1.8	Provincial Government									
10.1.1.9	Local Government									
10.1.1.10	Other									
10.1.1.11	Spent conditional grants									
10.1.1.12	Metering & Billing Income									
10.1.1.13	Other Income									
10.1.1.14	Deficit									
	Total Income	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Comments

Topic 10: Financial Profile

10

Enabling Factors	Compliance										Needs Development Plan											
	Status Quo										Future plan (to address issues)									Strategy		
	Water				Sanitation				ASSESSMENT	ASSESSMENT	In place?	Time Frame				Sufficient for			ASSESSMENT	In place?	Sufficient	ASSESSMENT
												Short (1) Medium (3) Long (5) None				RDP	Higher Level	Growth & Development				
Quality: Information Accuracy Assessment	Urban		Rural		Urban		Rural					1	3	5	N	*	*	*				
Quantity: Assessment of Information Completeness																						
	Value Spend	% of Allocation	Value Spend	% of Allocation	Value Spend	% of Allocation	Value Spend	% of Allocation	%	%	Y / N / NA								%	Y / N		%
* 10.1.2 Capital Expenditure	% Allocation spend in last financial year																					
Values to be given in R million																						
Regional Bulk									0	0	y	y	y	y		y	y	y	60	y	n	40
Internal Bulk									0	0	y	y	y	y		y	y	y	60	y	n	40
Reticulation									0	0	y	y	y	y		y	y	y	60	y	n	40
Backlog Eradication									0	0	y	y	y	y		y	y	y	60	y	n	40
Total cost									0	0	y	y	y	y		y	y	y	60	y	n	40
Sub Topic 10.1 Compliancy & Needs Development Plans Assessment									0%	0%									60%			40%

10.2 Operation & Maintenance Budget

WATER			
ITEM		BUDGET	
		(R million)	
Income:	Sales, other	R	151.81
	Grants, subsidies, and other	R	28.48
	Other income	R	-9.92
	Total Income	R	170.36
Expenditure:	Employee related cost (salaries, allowances, bonuses, medical, pension etc.)	R	7.23
	Bulk water purchases	R	66.11
	General expenditure	R	38.69
	Municipal rates and services	R	-
	Operation and Maintenance cost	R	-
	Depreciation and financial cost	R	20.00
	Total Expenditure	R	132.03
	Surplus/Deficit	**R**	**38.33**

SANITATION			
ITEM		BUDGET	
		(R million)	
Income:	Sales, other	**R**	**26.60**
	Grants, subsidies, and other	**R**	**11.73**
	Other income	**R**	**-0.37**
	Total Income	**R**	**37.95**
Expenditure:	Employee related cost (salaries, allowances, bonuses, medical, pension etc.)	**R**	**6.15**
	Bulk waste water charges (external waste water treatment)	**R**	**-**
	General expenditure	**R**	**34.63**
	Municipal rates and services	**R**	**-**
	Operation and Maintenance cost	**R**	**-**
	Depreciation and financial cost	**R**	**2.00**
	Total Expenditure	R	42.78
	Surplus/Deficit	R	-4.82

Sub Topic 10.2 Assessment of the Existance and Status of a Proper Budget	Add scores for Water and Sanitation Budget	0%	0%	0%	0%

Comments

The Operation & Maintenance Budget information was completed by the PSP and extracted from the Statement of Capital and Operating Expenditure for the 4th Quarter ended 30 June 2011(Preliminary results) as extracted from National Treasury web page.

Topic 10: Financial Profile

Enabling Factors		Compliance											Needs Development Plan											
		Status Quo											Future plan (to address issues)									Strategy		
		Fixed Tariff		Volume Charges									Time Frame				Sufficient for							
				Block Definition 1 Kl per month from: 0 to 6		Block Definition 2 Kl per month from: 6 to 999999		Block Definition 3 Kl per month from: _____to_____		Block Definition 4 Kl per month from: _____to_____		ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None				RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment		Current	Previous	Current	Previous	Current	Previous	Current	Previous	Current	Previous													
Quantity: Assessment of Information Completeness		Year 2011	Year 2010												1	3	5	N	*	*	*			
		Y / N / NA										%	%	Y / N / NA								%	Y / N		%
10.3 Tariff & Charges		**Is there a Tariff & Charges Plan in Place for (Y / N):**						**y**				60	60	**y**	**y**	**y**	**y**		**y**	**y**	**y**	**60**	**y**	**n**	**40**
10.3.1 Residential		**Values to be given in R / kl for Current and Previous Financial Years**																						
Water	Communal Water Supply			0	0	12.6	11.76					60	60	y	y	y	y		y	y	y	60	y	n	40
	Controlled Volume Supply											60	60	y	y	y	y		y	y	y	60	y	n	40
	Uncontrolled Volume Supply											60	60	y	y	y	y		y	y	y	60	y	n	40
Sanitation	On site dry											60	60	y	y	y	y		y	y	y	60	y	n	40
	On site wet (conservancy tanks etc.)											60	60	y	y	y	y		y	y	y	60	y	n	40
	Water borne reticulated sanitation	74	69.15									60	60	y	y	y	y		y	y	y	60	y	n	40

Enabling Factors		Compliance											Needs Development Plan											
		Status Quo											Future plan (to adress issues)									Strategy		
		Fixed Tariff		Volume Charges									Time Frame				Sufficient for							
				Block Definition 1 Kl per month from: 0 to 999999		Block Definition 2 Kl per month from: _____to_____		Block Definition 3 Kl per month from: _____to_____		Block Definition 4 Kl per month from: _____to_____		ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None				RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment		Current	Previous	Current	Previous	Current	Previous	Current	Previous	Current	Previous													
Quantity: Assessment of Information Completeness		Year 2011	Year 2010												1	3	5	N	*	*	*			
		Y / N / NA										%	%	Y / N / NA								%	Y / N		%
10.3.2 Industrial		**Values to be given in R / kl for Current and Previous Financial Years**																						
	Water Industrial			13.46	12.57							60	60	y	y	y	y		y	y	y	60	y	n	40
	Sanitation Industrial	77.84	72.74									60	60	y	y	y	y		y	y	y	60	y	n	40

Comment

Topic 10: Financial Profile

Enabling Factors	Compliance												Needs Development Plan											
	Status Quo												Future plan (to address issues)									Strategy		
	Fixed Tariff		Volume Charges											Time Frame				Sufficient for						
			Block Definition 1 Kl per month from: 0 to 999999		Block Definition 2 Kl per month from: _____to_____		Block Definition 3 Kl per month from: _____to_____		Block Definition 4 Kl per month from: _____to_____					Short (1) Medium (3) Long (5) None										
	Current	Previous									ASSESSMENT	ASSESSMENT	In place?					RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment	Year 2011	Year 2010	Current	Previous	Current	Previous	Current	Previous	Current	Previous														
Quantity: Assessment of Information Completeness														1	3	5	N							
	Y / N / NA										%	%	Y / N / NA								%	Y / N		%
10.3.3 Commercial	**Values to be given in R / kl for Current and Previous Financial Years**																							
Water Commercial			11.82	11.5							60	60	y	y	y	y		y	y	y	60	y	n	40
Sanitation Commercial	77.84	72.74									60	60	y	y	y	y		y	y	y	60	y	n	40

Enabling Factors	Compliance												Needs Development Plan											
	Status Quo												Future plan (to adress issues)									Strategy		
	Fixed Tariff		Volume Charges											Time Frame				Sufficient for						
			Block Definition 1 Kl per month from: 0 to 999999		Block Definition 2 Kl per month from: _____to_____		Block Definition 3 Kl per month from: _____to_____		Block Definition 4 Kl per month from: _____to_____					Short (1) Medium (3) Long (5) None										
	Current	Previous									ASSESSMENT	ASSESSMENT	In place?					RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment	Year 2011	Year 2010	Current	Previous	Current	Previous	Current	Previous	Current	Previous														
Quantity: Assessment of Information Completeness														1	3	5	N							
	Y / N / NA										%	%	Y / N / NA								%	Y / N		%
10.3.4 Other	**Values to be given in R / kl for Current and Previous Financial Years**																							
Water			12.6	11.76							60	60	y	y	y	y		y	y	y	60	y	n	40
Sanitation	310	228									60	60	y	y	y	y		y	y	y	60	y	n	40
Sub Topic 10.3 Compliancy & Needs Development Plans Assessment											60%	60%									60%			40%
10.4 Free Basic Services	**Is there a Free Basic Services Policy in Place (Y / N):**																							
10.4.1 Subsidy Targeting Approach	**% of HH Targeted: Water**				**% of HH Targeted: Sanitation**																			
Rising block tariff											0	0												
Service level targeting											0	0												
* Credits to Water account											0	0												
* Credits to Sanitation account											0	0												
* Number of units requiring free basic services (Water)											0	0												
* Number of units requiring free basic services (Sanitation)											0	0												
Number of units with access to free basic services											0	0												
Sub Topic 10.4 Compliancy & Needs Development Plans Assessment											0%	0%									0%			0%

Comment

All Tariffs are inclusive of VAT. FBW is applicable to all. A different water tariff is applicable to Oranjeville. The Waterborne sewerage tariff varies for different towns. The indicated tariff is for Sasolburg.

Topic 10: Financial Profile

Enabling Factors	Compliance					Needs Development Plan												
	Status Quo					Future plan (to address issues)										Strategy		
WATER	Urban		Rural		TOTAL	ASSESSMENT	ASSESSMENT	In place?	Time Frame				Sufficient for			ASSESSMENT	In place?	Sufficient	ASSESSMENT
									Short (1) Medium (3) Long (5) None				RDP	Higher Level	Growth & Development				
Resources available to perform function? (Yes: Y, No: N, Not Applicable: NA):									1	3	5	N	*	*	*				
Quality: Information Accuracy Assessment	Current	Previous	Current	Previous															
Quantity: Assessment of Information Completeness						%	%	Y / N / NA								%	Y / N		%
10.5 Metering, Billing & Income																			
*** 10.5.1 Residential: Water**																			
* Units Supplied						0	0	y	y	y	y		y	y	y	60	y	n	40
* Metered %						0	0	y	y	y	y		y	y	y	60	y	n	40
* Billed %						0	0	y	y	y	y		y	y	y	60	y	n	40
* Not Metered						0	0	y	y	y	y		y	y	y	60	y	n	40
* Income Received %						0	0	y	y	y	y		y	y	y	60	y	n	40
* Non Payment %						0	0	y	y	y	y		y	y	y	60	y	n	40
10.5.2 Industrial & Commercial: Water																			
Units Supplied						0	0	y	y	y	y		y	y	y	60	y	n	40
Metered %						0	0	y	y	y	y		y	y	y	60	y	n	40
Billed %						0	0	y	y	y	y		y	y	y	60	y	n	40
Not Metered						0	0	y	y	y	y		y	y	y	60	y	n	40
Income Received %						0	0	y	y	y	y		y	y	y	60	y	n	40
Non Payment %						0	0	y	y	y	y		y	y	y	60	y	n	40

Comments

Topic 10: Financial Profile

Enabling Factors	Compliance							Needs Development Plan											
	Status Quo							Future plan (to address issues)								Strategy		
									Time Frame				Sufficient for						
SANITATION	Urban		Rural		TOTAL	ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None				RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Resources available to perform function? (Yes: Y, No: N, Not Applicable: NA):									1	3	5	N	*	*	*				
Quality: Information Accuracy Assessment	Fixed Charge	Value Charge	Fixed Charge	Value Charge															
Quantity: Assessment of Information Completeness						%	%	Y/ N / NA								%	Y / N		%
*** 10.5.3 Residential: Sanitation**																			
* Units Supplied						0	0	y	y	y	y		y	y	y	60	y	n	40
* Metered %																			
* Billed %						0	0	y	y	y	y		y	y	y	60	y	n	40
* Not Metered						0	0	y	y	y	y		y	y	y	60	y	n	40
* Income Received %						0	0	y	y	y	y		y	y	y	60	y	n	40
* Non Payment %						0	0	y	y	y	y		y	y	y	60	y	n	40
10.5.4 Industrial & Commercial: Sanitation																			
Units Supplied						0	0	y	y	y	y		y	y	y	60	y	n	40
Metered %																			
Billed %						0	0	y	y	y	y		y	y	y	60	y	n	40
Not Metered						0	0	y	y	y	y		y	y	y	60	y	n	40
Income Received %						0	0	y	y	y	y		y	y	y	60	y	n	40
Non Payment %						0	0	y	y	y	y		y	y	y	60	y	n	40
						0	0	y	y	y	y		y	y	y	60	y	n	40
Sub Topic 10.5 Compliancy & Needs Development Plans Assessment						0%	0%									60%			40%

Comments

10

Topic 10: Financial Profile

Enabling Factors	Compliance	Needs Development Plan	
	Status Quo	Future plan (to address issues)	Strategy

OVERALL TOPIC ASSESSMENT

Quality: Information Accuracy Assessment

Quantity: Assessment of Information Completeness

	ASSESSMENT	ASSESSMENT	ASSESSMENT	ASSESSMENT
10.1.2 CAPITAL EXPENDITURE	0%	0%		
10.2 OPERATION & MAINTENANCE BUDGET	0%	0%		
10.3 TARIFF & CHARGES	60%	60%		
10.4 FREE BASIC SERVICES	0%	0%		
10.5 METERING, BILLING, INCOME & SALES	0%	0%		

Comments

NEEDS DEVELOPMENT PLAN ASSESSMENT	
Future plan	36%
Strategy	24%
OVERALL QUALITY ASSESSMENT	12%
OVERALL QUANTITY ASSESSMENT	12%

Topic 11: Water Services Institutional Arrangements Profile

Enabling Factors	Compliance							Needs Development Plan											
WSA functions and outputs	Status Quo							Future plan (to address issues)									Strategy		
									Time Frame				Sufficient for						
Resources available to perform function? (Yes: Y, No: N, Not Applicable: NA):	Policy in Place	Budget	Personnel	Gazetted	Council approved	ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None				RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment									1	3	5	N	*	*	*				
Quantity: Assessment of Information Completeness	Y / N / NA					%	%	Y / N / NA								%	Y / N		%
11.1 General Functions																			
*** 11.1.1 Policy development**																			
* Indigent Policy	y				y	60	60	y	y	y	y		y	y	y	60	y	n	40
* Free basic water policy (including equitable share)	y				y	60	60	y	y	y	y		y	y	y	60	y	n	40
* Free basic sanitation policy	y				y	60	60	y	y	y	y		y	y	y	60	y	n	40
* Procurement policy	y				y	60	60	y	y	y	y		y	y	y	60	y	n	40
* Credit control & debt collection policy	y	y	y		y	60	60	y	y	y	y		y	y	y	60	y	n	40
*** 11.1.2 Regulation and tariffs**						60%	60%									60%			40%
* Water Services bylaws with conditions as required by the Water Services Act	y				y	60	60	y	y	y	y		y	y	y	60	y	n	40
* Mechanisms to ensure compliance with bylaws	y	y	y		y	60	60	y	y	y	y		y	y	y	60	y	n	40
* Tariff structure	y				y	60	60	y	y	y	y		y	y	y	60	y	n	40
* Tariffs promulgated	y	y	y		y	60	60	y	y	y	y		y	y	y	60	y	n	40
11.1.3 Infrastructure development (projects)						60%	60%									60%			40%
Mechanisms to undertake project / feasibility studies		y	y			60	60	y	y	y	y		y	y	y	60	y	n	40
Criteria for prioritising projects	y				y	60	60	y	y	y	y		y	y	y	60	y	n	40
Mechanisms to assess and approve project business plans	y	y	y			60	60	y	y	y	y		y	y	y	60	y	n	40
Mechanisms for selecting, contracting, managing and monitoring implementing agents	y	y	y		y	60	60	y	y	y	y		y	y	y	60	y	n	40
Mechanisms to monitor project implementation		y	y			60	60	y	y	y	y		y	y	y	60	y	n	40
11.1.4 Performance management and monitoring						60%	60%									60%			40%
Performance management systems	y	y	y		y	60	60	y	y	y	y		y	y	y	60	y	n	40
Water service monitoring and evaluation (M&E) system	y	y	y		y	60	60	y	y	y	y		y	y	y	60	y	n	40
11.1.5 WSDP						60%	60%									60%			40%
WSDP information system **Yes:** y **No:**						60	60	y	y	y	y		y	y	y	60	y	n	40
Mechanisms to monitor and report on WSDP implementation **Yes:** y **No:**						60	60	y	y	y	y		y	y	y	60	y	n	40
Mechanisms for stakeholder participation **Yes:** y **No:**						60	60	y	y	y	y		y	y	y	60	y	n	40
						60%	60%									60%			40%

11.2 Bulk & Retail Functions

Water Services Providers	* Name of Provider	* Contract type	Staffing Levels Appropriate	* % Consumers served by the WSP
11.2.1 Water Service providers (retail water)	Metsimaholo and Rand Water	Service	n	100%
11.2.2 Water service providers (sanitation)	Metsimaholo and Sasol	Service	n	100%
11.2.3 Water service providers (bulk water)				
11.2.4 Water service providers (bulk sanitation)				
11.2.5 Support service agents (water)				
11.2.6 Sanitation Promotion agent				
11.2.7 Support service contracts				
* 11.2.8 Water service institutions				
* 11.2.9 WSP staffing levels: water				
* 11.2.10 WSP staffing levels: sanitation				
11.2.11 WSP training programme				

Sub Topic 11.2 Compliancy & Needs Development Plans Assessment	20%	20%		20%		20%

Comments

Policies are adapted as needed.

11.1.1 POLICY DEVELOPMENT	60%	60%
11.1.2 REGULATION AND TARIFFS	60%	60%
11.1.3 INFRASTRUCTURE DEVELOPMENT (PROJECTS)	60%	60%
11.1.4 PERFORMANCE MANAGEMENT AND MONITORIN	60%	60%
11.1.5 WSDP	60%	60%
11.2 BULK AND RETAIL FUNCTIONS	20%	20%

NEEDS DEVELOPMENT PLAN ASSESSMENT	
Future plan	53%
Strategy	37%

OVERALL QUALITY ASSESSMENT	53%
OVERALL QUANTITY ASSESSMENT	53%

Topic 12: Social & Customer Service Requirements

Enabling Factors	Compliancy								Needs Development Plan											
	Status Quo								Future plan (to address issues)								Strategy			
	Urban Households			Rural Households			ASSESSMENT	ASSESSMENT	In place?	Time Frame				Sufficient for			ASSESSMENT	In place?	Sufficient	ASSESSMENT
Resources available to perform function? (Yes: Y, No: N,Not Applicable: NA):	Budget	Physical Resources	Personnel	Budget	Physical Resources	Personnel				Short (1) Medium (3) Long (5) None				RDP	Higher Level	Growth & Development				
Quality: Information Accuracy Assessment										1	3	5	N	*	*	*				
Quantity: Assessment of Information Completeness							%	%	Y / N								%	Y / N		%
12.1 Resources available to Perform this Function: Water & Sanitation	**Y / N**																			
12.1.1 Attending to Complaints for Water	y	y	y	y	y	y	60	60	y	y	y	y		y	y	y	60	y	n	40
12.1.2 Attending to Complaints for Sanitation	y	y	y	y	y	y	60	60	y	y	y	y		y	y	y	60	y	n	40
12.1.3 Attending to Complaints for Pit/Tank Pumping	y	y	y	y	y	y	60	60	y	y	y	y		y	y	y	60	y	n	40
Sub Topic 12.1 Compliancy & Needs Development Plans Assessment							60%	60%									60%			40%
12.2 Attending to Complaints for Water	**Number Of:**																			
12.2.1 Total number of consumer units							0	0	y	y	y	y		y	y	y	60	y	n	40
12.2.2 Number of queries/complaints received within the year							0	0	y	y	y	y		y	y	y	60	y	n	40
*** 12.2.3 % Queries responded to within 24 hours**	100			100			60	60	y	y	y	y		y	y	y	60	y	n	40
12.2.4 Number of major or visible leaks reported within the year							60	60	y	y	y	y		y	y	y	60	y	n	40
12.2.5 % Major or visible leaks repaired within 48 hours after being reported	100			100			60	60	y	y	y	y		y	y	y	60	y	n	40
* 12.2.6 Number of consumers experiencing greater than 7 days interruption in supply per year	0			0			60	60	y	y	y	y		y	y	y	60	y	n	40
12.2.7 Number of consumers receiving flow rate of less than 10 litres per minute	0			0			60	60	y	y	y	y		y	y	y	60	y	n	40
Sub Topic 12.2 Compliancy & Needs Development Plans Assessment							43%	43%									60%			40%
12.3 Attending to Complaints for Sanitation: Discharge to Treatment Works	**Number Of:**																			
12.3.1 Total number of consumer units							0	0	y	y	y	y		y	y	y	60	y	n	40
12.3.2 Number of queries/complaints received within the year							0	0	y	y	y	y		y	y	y	60	y	n	40
*** 12.3.3 % Queries responded to within 24 hours**	100			100			60	60	y	y	y	y		y	y	y	60	y	n	40
12.3.4 Number of blockages reported within the year							0	0	y	y	y	y		y	y	y	60	y	n	40
12.3.5 % Blockages repaired within 48 hours after being reported	100			100			60	60	y	y	y	y		y	y	y	60	y	n	40
*** 12.3.6 Number of consumers experiencing greater than 7 days interruption in supply per year**	0			0			60	60	y	y	y	y		y	y	y	60	y	n	40
12.3.7 Sanitation promotion and health and hygiene awareness							0	0	y	y	y	y		y	y	y	60	y	n	40
Sub Topic 12.3 Compliancy & Needs Development Plans Assessment							26%	26%									60%			40%
12.4 Attending to Complaints for Sanitation: Pit/Tank Pumping	**Number Of:**																			
12.4.1 Number of pits/ tanks							0	0	y	y	y	y		y	y	y	60	y	n	40
12.4.2 Number of calls received within the year for emptying							0	0	y	y	y	y		y	y	y	60	y	n	40
12.4.3 Number of calls received within the year for emergency maintenance to pits/ tanks							0	0	y	y	y	y		y	y	y	60	y	n	40
12.4.4 % Queries responded to within 24 hours							0	0	y	y	y	y		y	y	y	60	y	n	40
12.4.5 % Pits/tanks pumped within 48 hours of being reported							0	0	y	y	y	y		y	y	y	60	y	n	40
Sub Topic 12.4 Compliancy & Needs Development Plans Assessment							0%	0%									60%			40%

OVERALL TOPIC ASSESSMENT

			NEEDS DEVELOPMENT PLAN ASSESSMENT	
12.1 RESOURCES AVAILABLE TO PERFORM THIS FUNTION	60%	60%		
12.2 ATTENDING TO COMPLAINTS FOR WATER	43%	43%	Future plan	60%
12.3 ATTENDING TO COMPLAINTS FOR SANITATION: DISCHARGE TO TREATMENT WORKS	26%	26%	Strategy	40%
12.4 ATTENDING TO COMPLAINTS FOR SANITATION: PIT/TANK PUMPING	0%	0%		
		OVERALL QUALITY ASSESSMENT		32%
		OVERALL QUANTITY ASSESSMENT		32%

Comments

Topic 13: Needs Development Plan

LIST OF PROJECTS

Description		Program type	Wards	
Project Name	Project Number	Autonumber Water Internal Bulk Water Regional Bulk Water Reticulation Water Treatment Works Sanitation Services Housing	Wards Location of Project	Wards Benefit
ACTIVE PROJECTS : MIG2011/2012 ; RBIG ; ACIP				
Zamdela:Sewerage Reticulation -Gortin	MIG/FS0003/S/04/05	Internal Sanitation		
Harry Gwala:Construction of sewerage network phas	MIG/FS0007/S/04/05	Internal Sanitation		
Gortin: Provision of sanitation for 5000 stands	MIG/FS0317/S/07/08	Internal Sanitation		
Gortin: Provision of sanitation for 11800 stands phase	MIG/FS0629/S/08/09	Sanitation Bulk		
Amelia/Mooidrai: Bulk water supply Low cost housing	MIG/FS0751/W/09/10	Water Internal Bulk		
Amelia: Water supply phase 2	MIG/FS0431/W/06/08	Water Internal Bulk		
Refengkgotso: Augmentation of Bulk water supply	MIG/FS0747/W/09/10	Water Regional Bulk		
Harry Gwala/Amelia:Water supply for low cost housin	MIG/FS0157/W/05/07	Water Reticulation	42004002;42004006;42004008;42004009;42004010;42004011;42004	
Harry Gwala:Standpipes to metered house connectio	MIG/FS0001/W/04/05	Water Reticulation		
Amelia:Sanitation phase 3	MIG/FS0396/S/09/13	Water Reticulation		
CONCEPTUAL & AWAITING FUNDING PROJECTS				
Metsimaholo Sewer network for 340 sites	Temp_Actpl_00027	Internal Sanitation	42004020	
Refengkgotso: San for 1952	192223	Internal Sanitation		
Amelia: Sewer Netwk, Toilet Structures,PmpStation	Temp_Actpl_00056	Internal Sanitation		
Deneysville STW refurbishmet	fs_temp0910_0008	Sanitation Bulk	42004003;42004004	
Metsimaholo Municipality - San Internal Bulk Ref (gro	fs_temp0910_0277	Sanitation Bulk		
Metsimaholo ext. 6 WWTW for 368 erven	190949	Sanitation Bulk		
Extension of Metsimaholo WWTP	Temp_Actpl_00057	Sanitation Bulk		
Bulk reservoir for Sasolburg (10 Ml) planned for 2010	fs_temp0910_0010	Water Internal Bulk	42004007;42004015;42004016;42004017	
Metsimaholo Municipality:Water Internal Bulk Ref (gr	fs_temp0910_0298	Water Internal Bulk		
Deneysville/Refengotso WTW to be upgraded	fs_temp0910_0006	Water Internal Bulk		
Bulk reservoir for Zamdela Ext (5 Ml) planned for 201	fs_temp0910_0011	Water Internal Bulk		
Oranjeville: Water supply for 325 erven, Ext 5 & 6	MIG /FS/0563/W/06/08	Water Reticulation		

LIST OF PROJECTS

Total Allocation					
Tot1112	Tot1213	Tot1314	Tot1415	Tot1516	Tot1617
2101498.95	0	0	0		
5922639	0	0	0		
12711000	0	0	0		
0	0	0	0		
0	0	0	0		
8503370.55	0	0	0		
0	0	0	0		
6812513.34	0	0	0		
1500000	0	0	0		
0	0	0	0		
8154921	374079	0	0		
0	5680954	0	0		
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8259084.88	0	0	0		
11310000	518550	0	0		
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0	0	0	0		
0	0	0	0		
0	0	0	0		
0	0	0	0		

Topic 13: Needs Development Plan

LIST OF PROJECTS

Description		Program type	Wards Location of Project	
Project Name	Project Number	Autonumber Water Internal Bulk Water Regional Bulk Water Reticulation Water Treatment Works Sanitation Services Housing	Wards Location of Project	Wards Benefit

LIST OF PROJECTS

Total Allocation					
Tot1112	Tot1213	Tot1314	Tot1415	Tot1516	Tot1617

METSIMAHOLO LOCAL MUNICIPALITY

Reporting and assessment documents status

	Documents	Previous Reference date	Included in current WSDP version module 4	Current WSDP version module 4 submission date
1	IDP checklist framework version 2.4:	Completed & Submitted		
2	DWA Regulatory Performance Management System (RPMS)	Completed & Submitted		
3	WSA Checklist April2005	Not existing		
4	Blue Drop 20__ Assessment	Completed & Submitted		
5	Green Drop 20__ Assessment	Completed & Submitted		
6	Water Conservation & Demand Management	In process		
		Options	**Options**	
		In process	Not included	
		Not existing	Included (not complete)	
		Completed	Included (complete)	
		Completed & Submitted		
		Needs review		
		Completed		

General Comments

WSDP

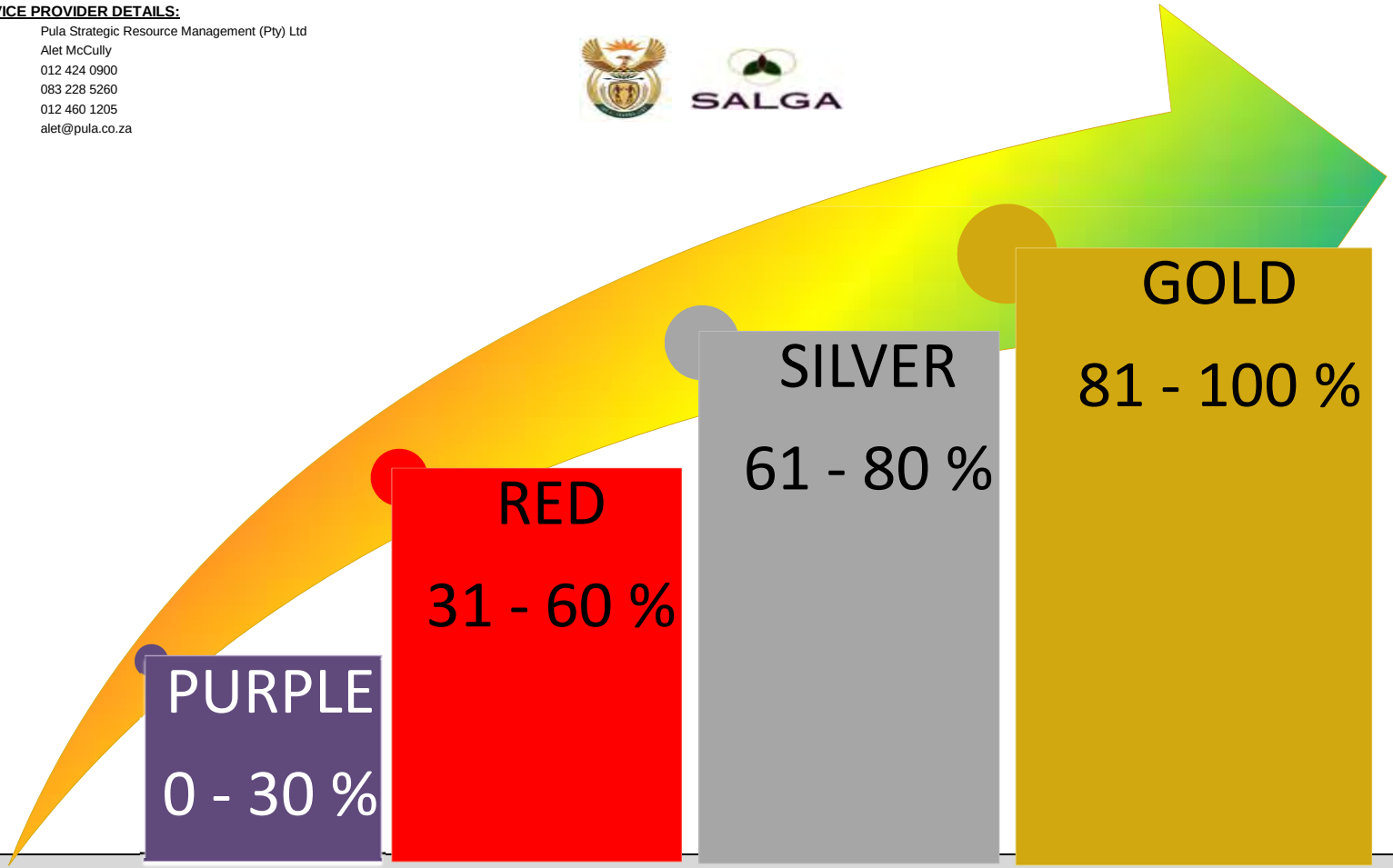
WSDP Status Quo Knowledge Interpretation Report

Overall Water Services Planning Status Bar Legend

METSIMAHOLO LOCAL MUNICIPALITY

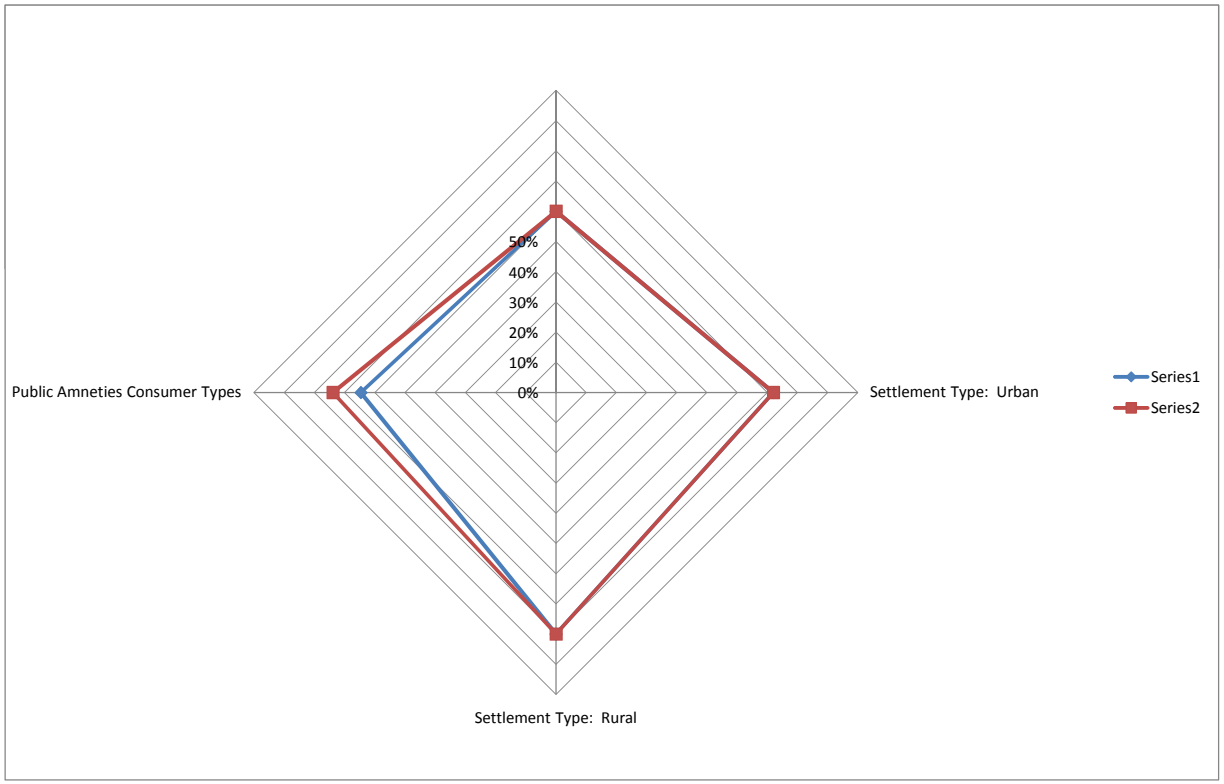
PROFESSIONAL SERVICE PROVIDER DETAILS:

COMPANY:	Pula Strategic Resource Management (Pty) Ltd
PSP PROJECT MANAGER:	Alet McCully
TEL:	012 424 0900
CELL:	083 228 5260
FAX:	012 460 1205
EMAIL:	alet@pula.co.za

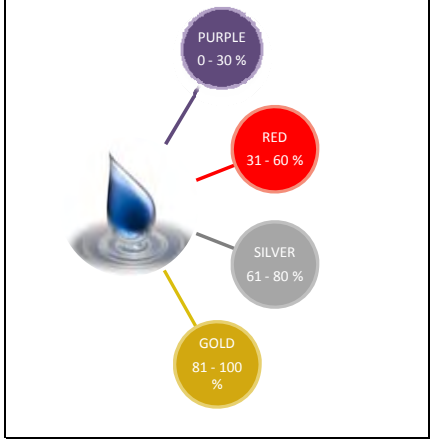


WSDP Status Quo Knowledge Interpretation Report: Demographics Profile (Topic 2)

	Assessment	
	Quality	Quantity
	SERIES 1	SERIES 2
Settlement Type: Farming	60%	60%
Settlement Type: Urban	72%	72%
Settlement Type: Rural	80%	80%
Public Amneties Consumer Types	65%	74%
	69%	71%



Water Service Planning Status Bar Legend



Service Levels Profile Average Total 70%

WSDP Status Quo Knowledge Interpretation Report: Demographics Profile (Topic 2)

Topic 2 - WSDP Strategic Interpretation Report

Strategic Interpretation, Implications and Solutions Derived from Spider Diagram

Settlement Type: FARMING

Interpret Situation Assessment:	Farming population was established by DM surveys and subsequently divided into LMs using Stats SA indicators. Metsimaholo is a relatively big industrial town and the town of Sasolburg forming the centre of the industrial and commercial heartland.
Define Strategy:	To establish farm population at farm level in order to establish backlog and determine and manage individual backlog eradication projects.
List Possible Projects:	Establish population per farm through house count on 5 meter resolution aerial photography of the NGI and the latest census data once released.

Settlement Type: URBAN

Interpret Situation Assessment:	All Urban areas has been formalised into 3 Formal Towns and 4 Townships. Metsimaholo Municipality has its head office in Sasolburg which is located in the heart of the worldly renowned coalfields. On a town based distribution the majority of people in the municipality are staying in Sasolburg (including Vaal Park and Zamdela), followed by those staying in Deneysville (including Refengkgotso) and Oranjeville (including Metsimaholo).
Define Strategy:	Manage urbanisation through active monitoring of migrating workers and through active monitoring and pro-active planning of human settlement.
List Possible Projects:	Establish location and population. Separate out from current urban town figures Determine migration patterns.

Settlement Type: RURAL

Interpret Situation Assessment:	Metsimaholo has no Rural communities.
Define Strategy:	
List Possible Projects:	

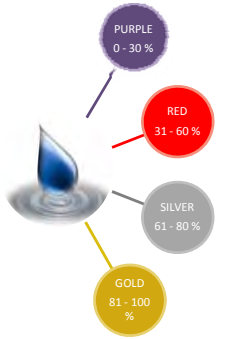
Public Amneties Consumer Types

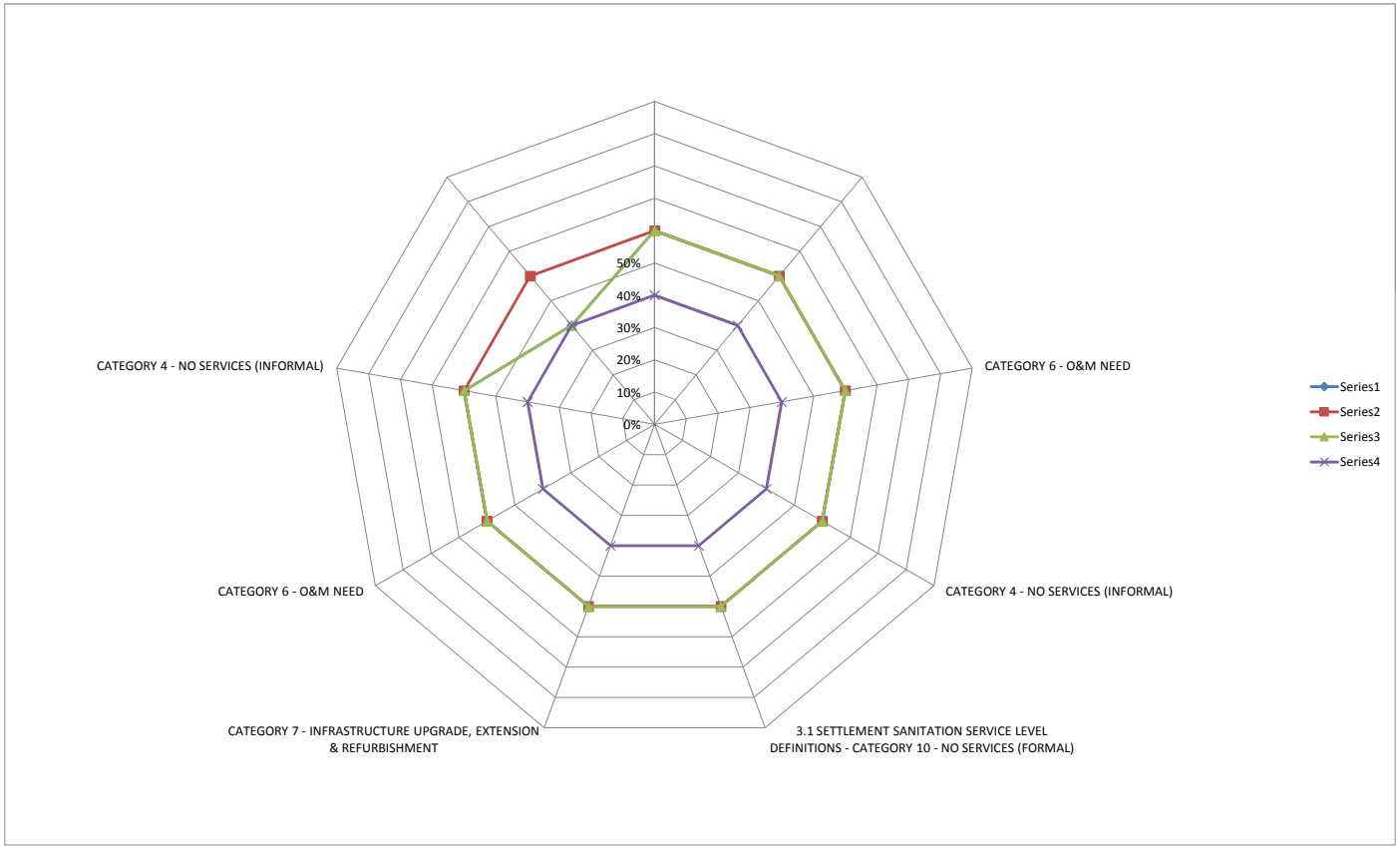
Interpret Situation Assessment:	This LM includes 10 mines, a number of industries, of which Sasol is very well known and the largest, a number of resorts and tourism areas, and these are the economic drivers of this area. The area consists of 5 police stations and 1 Magisterial office and these are all established within the water supply network. The area seems to be well serviced by Health facilities, Clinics and Schools. The area also have 4 prisons.
Define Strategy:	Manage population through active monitoring and pro-active planning of human settlement.
List Possible Projects:	Participate in integrated spatial planning to update amenities and service requirements. Consult with SDF to identify additional planned public services.

WSDP Status Quo Knowledge Interpretation Report: Service Levels Profile (Topic 3)

	Assessment		Future Plan Assessment	Strategy Assessment
	Quality	Quantity		
	SERIES 1	SERIES 2	SERIES 3	SERIES 4
3.1 SETTLEMENT WATER SERVICE LEVEL DEFINITIONS - CATEGORY 10 - NO SERVICES (FORMAL)	60%	60%	60%	40%
CATEGORY 7 - INFRASTRUCTURE UPGRADE, EXTENSION & REFURBISHMENT	60%	60%	60%	40%
CATEGORY 6 - O&M NEED	60%	60%	60%	40%
CATEGORY 4 - NO SERVICES (INFORMAL)	60%	60%	60%	40%
3.1 SETTLEMENT SANITATION SERVICE LEVEL DEFINITIONS - CATEGORY 10 - NO SERVICES (FORMAL)	60%	60%	60%	40%
CATEGORY 7 - INFRASTRUCTURE UPGRADE, EXTENSION & REFURBISHMENT	60%	60%	60%	40%
CATEGORY 6 - O&M NEED	60%	60%	60%	40%
CATEGORY 4 - NO SERVICES (INFORMAL)	60%	60%	60%	40%
3.3 RESIDENTIAL, PUBLIC INSTITUTIONS AND INDUSTRIES	40%	60%	40%	40%
	58%	60%	58%	40%

Water Service Planning Status Bar Legend





Service Levels Profile Average Total 54%

WSDP Status Quo Knowledge Interpretation Report: Service Levels Profile (Topic 3)

Topic 3 - WSDP Strategic Interpretation Report

Strategic Interpretation, Implications and Solutions Derived from Spider Diagram

3.1 SETTLEMENT WATER SERVICE LEVEL DEFINITIONS: WATER FORMAL

Interpret Situation Assessment:	Part of the municipality and parts of some communities are provided with water services by Rand Water. This creates in many aspects a challenge for the municipality with regards to development. The LM is relatively well serviced. There are areas with a large number of shared services and in future will require extensions.
Define Strategy:	Monitor levels of service and capacity and functionality from source to tap. To inform ongoing increases in service levels (upgrades, extension of existing networks and refurbishment)
List Possible Projects:	Monitor levels of services in consultation with housing and property development projects. Monitor functionality of services through technical services and client services / feedback.

3.2 SETTLEMENT WATER SERVICE LEVEL DEFINITIONS: WATER INFORMAL

Interpret Situation Assessment:	All informal areas has been formalised.
Define Strategy:	Monitor the growth of backyard dwellers and service extensions to determine impact on service delivery.
List Possible Projects:	Determine number of backyard dwellers through analysis of 0.5 meter aerial photography. Monitor the growth of backyard dwellers and service extensions through reviewing annual spot images.

3.2 SETTLEMENT SANITATION SERVICE LEVEL DEFINITIONS: SANITATION FORMAL

Interpret Situation Assessment:	Not all urban areas have been upgraded to waterborne. Due to water resource capacity and challenges with service delivery between different water source providers, alternative solutions must be considered.
Define Strategy:	Critical review of Waste Water treatment capacity in consultation with Green drop assessment.
List Possible Projects:	Eradicate all remaining bucket and pit latrines before 2014.

3.2 SETTLEMENT SANITATION SERVICE LEVEL DEFINITIONS: SANITATION INFORMAL

Interpret Situation Assessment:	Currently there are no informal settlements in this area.
Define Strategy:	Monitor the growth of backyard dwellers and informal settlements to determine impact on service delivery.
List Possible Projects:	Determine number of backyard dwellers through analysis of 0.5 meter aerial photography. Monitor the growth of backyard dwellers and service extensions through reviewing annual spot images.

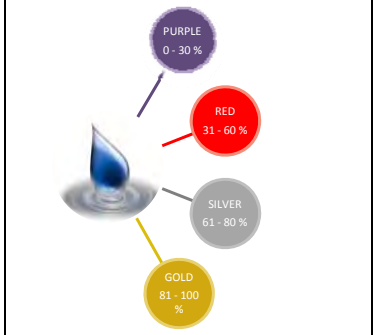
3.3 RESIDENTIAL, PUBLIC INSTITUTIONS AND INDUSTRIES

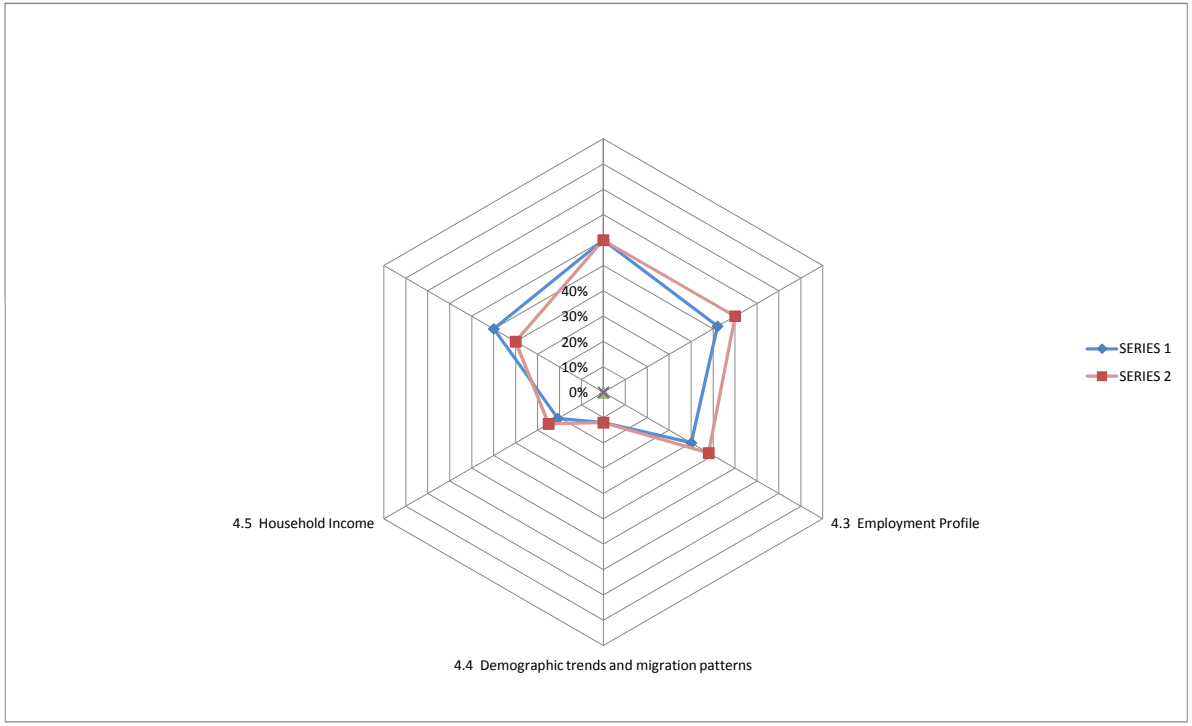
Interpret Situation Assessment:	All public amenities have access to basic services. It must be noted that Mobile clinics are included in the count of Urban Clinics. It is not clear if Mobile Clinics have access to basic services at all stops and this appears to be a backlog.
Define Strategy:	Regular update of service levels at public amenities through consultation with relevant sector departments / databases. Clarify policy on basic services along Mobile Clinic routes.
List Possible Projects:	Address remaining backlogs at schools and health facilities.

WSDP Status Quo Knowledge Interpretation Report: Economic Background (Topic 4)

	Assessment	
	Quality	Quantity
	SERIES 1	SERIES 2
4.1 General	60%	60%
4.2 Age and Gender Profile	52%	60%
4.3 Employment Profile	40%	48%
4.4 Demographic trends and migration patterns	12%	12%
4.5 Household Income	21%	25%
4.6 Economics	50%	40%
	39%	41%

Water Service Planning Status Bar Legend





Water Services Infrastructure Average Total 40%

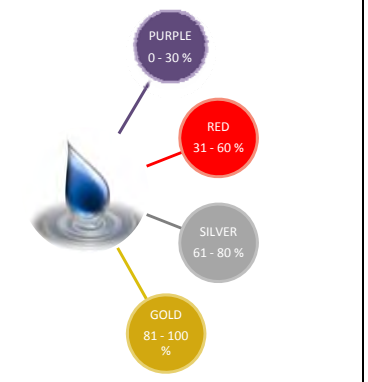
Topic 4 - WSDP Strategic Interpretation Report

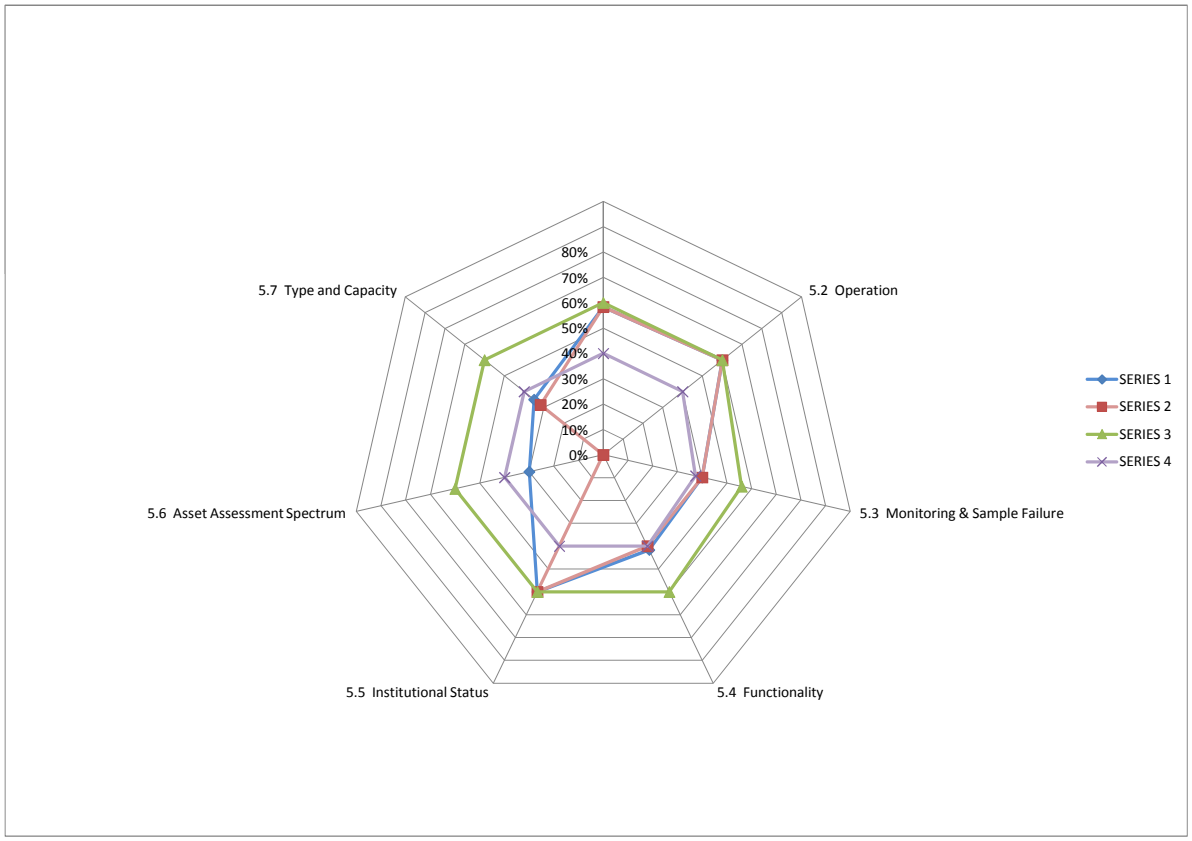
Strategic Interpretation, Implications and Solutions Derived from Spider Diagram

4.1 General		
	Interpret Situation Assessment:	On a town based distribution the majority of people in the municipality are staying in Sasolburg (including Vaal Park and Zamdela), followed by those staying in Deneysville (including Refengkgotso) and Oranjeville (including Metsimaholo). The population projections indicate that the population in the municipality is growing by 1% annually.
	Define Strategy:	To ensure that all planning documentation is maintained and regularly updated and the standards therein are maintained
	List Possible Projects:	Update and maintain documentation and address gaps.
4.2 Age and Gender Profile		
	Interpret Situation Assessment:	A large portion of the population in Metsimaholo is below the age 18 years and the largest portion being part of an eligible workforce. Interesting is that the male population is larger than the female residents.
	Define Strategy:	Plan education and job creation to accommodate high proportion of youth in the community.
	List Possible Projects:	Promote job creation in the water sector (eg Leak detection and Water Conservation)
4.3 Employment Profile		
	Interpret Situation Assessment:	Stats SA indicates an eligible workforce of 31582, with a large number of permanent residents withou jobs. There is a large number of farm workers and Industry workers in this area.
	Define Strategy:	Investigate and promote job opportunities
	List Possible Projects:	To see how water can support the development of the economy.
4.4 Demographic trends and migration patterns		
	Interpret Situation Assessment:	Migration is focused towards Sasolburg, Deneysville and Oranjeville. This is due to the existing job opportunities provided in these areas and their proximity to other economic opportunity areas such as Vereeniging and Vanderbijlpark and Johannesburg.
	Define Strategy:	Update town and regional planning to keep track of demographic change.
	List Possible Projects:	WSDP to consider and respond to demographic and migrational trends.
5.5 Household Income		
	Interpret Situation Assessment:	According to StatsSA, the largest groups of population falls within the income group of 401 - 800pm and R1601 and more. One can derive from this that the majority of the households are from a low income group.
	Define Strategy:	Active monitoring of household income and its impact on affordability of service delivery.
	List Possible Projects:	Setting of water and sanitation tariffs with consideration of household income and equitable share.
4.6 Economics		
	Interpret Situation Assessment:	Metsimaholo is diversified in its economies and although a large area remains agriculture, it is the only the second largest contributor to the Local GGP. The main town of Metsimaholo is Sasolburg it is truly a chemical city and despite the diversification of the industrial and commercial base since its establishment, its economy remains heavily reliant on Sasol Chemical Industries. Fairly recent estimates put Sasol's (including all their operations in Sasolburg) contribution to the total Sasolburg economy at between 50% and 60% of the town's GGP. Other large companies in the area around Sasolburg include: Karbochem (a division of Dow Sentrachem) which manufactures and distributes synthetic rubbers, mining chemicals, agricultural and industrial chemicals. Omnia Fertilizer which produces around a third of all fertilizer consumed in South Africa. The factory is also a major producer of explosive and chemical materials for other companies in the Omnia Group. Dow Plastics (a division of Dow Chemicals) which is one of the largest transnational chemical companies in the world, producing a range of products from agricultural chemicals to resins, plastics, rubbers, detergents, ammonia, and chlorine-based chemicals and speciality chemicals.
	Define Strategy:	To develop and expand on the existing economy and to improve on the processing of agricultural and mining products and the hospitality and tourism trade.
	List Possible Projects:	Support and promote the smaller scale entrepreneurs

	Assessment		Future Plan Assessment	Strategy Assessment
	Quality	Quantity		
	SERIES 1	SERIES 2	SERIES 3	SERIES 4
5.1 General Information	58%	58%	60%	40%
5.2 Operation	60%	60%	60%	40%
5.3 Monitoring & Sample Failure	40%	40%	56%	37%
5.4 Functionality	42%	40%	60%	40%
5.5 Institutional Status	60%	60%	60%	40%
5.6 Asset Assessment Spectrum	30%	0%	60%	40%
5.7 Type and Capacity	35%	32%	60%	40%
	46%	41%	59%	40%

Water Service Planning Status Bar Legend





Water Services Infrastructure Average Total **47%**

Topic 5 - WSDP Strategic Interpretation Report

Strategic Interpretation, Implications and Solutions Derived from Spider Diagram

5.1 General Information:

Interpret Situation Assessment:	Metsimaholo currently have all their main Water plans and operational documents in place. On face value they appear to be on a relatively acceptable standard.
Define Strategy:	To ensure that all documentation, plans and strategies are implemented and in practice, continuously enhanced, and appropriately updated. To strive towards a learning and integrated and planning culture. Striving towards constant improvement on all services.
List Possible Projects:	Ensure that a planning culture is established and maintained (Training?). Enhance and maintain existing and additional operational and strategic documents. Identify, assess and adjust gaps and weaknesses.

5.2 Operation:

Interpret Situation Assessment:	Metsimaholo has had sporadic incidents or security problems with regards to all of their infrastructure. All their abstractions are registered with DWA, and all relevant abstractions are recorded. Safety inspections are done periodically and the average operating hours for both WTW and WWTW is 24 hours.
Define Strategy:	To improve the incident and security status by identifying protection and increasing security inspections.
List Possible Projects:	Investigate increasing of security inspections and improvement on incident management. Ongoing recording and management of abstractions.

5.3 Monitoring & Sample Failure:

Interpret Situation Assessment:	Although not up to standard, Metsimaholo performed relatively well with regards to their Blue Drop Monitoring and credibility of their sample analysis - apart from Sasolburg where the monitoring is low and credibility of sample analysis is 0. The relatively high scores in Oranjeville and Deneysville were mainly due to relatively good performance in the disciplines of DWQ compliance, submission of data and asset management. A full SANS 241 analysis had not yet been done on all the supply systems to confirm the adequacy of monitoring. Although Metsimaholo did not perform up to standard with Green Drop as a whole, their monitoring scored exceptionally well. Credibility of sample analysys however for Oranjeville and Deneysville in this instance performed extremely low: 10% compared to the 55% from Sasolburg. The plants all have a negative impact on the receiving environment and their operational flows are not monitored. This was however their first submission and it is believed that it will improve. It must be noted that some of the water is supplied by Rand Water, and that Sasol Industries operate 1 of the WWTW plants that feed reasonably
Define Strategy:	To address the bigger business of drinking and wastewater management as far as qualitative monitoring, credibility of results, management and planning of drinking water and wastewater collection and treatment.
List Possible Projects:	Develop and implement satisfactory monitoring procedures and disciplines. Develop and implement sample analysis and submissions as prescribed by the standards as required by both GDS and BDS. In addition to asses all weaknesses and implement a Corrective Action Plan.

5.4 Functionality:

Interpret Situation Assessment:	The general functionality of all infrastratucture is Operational. Metsimaholo indicates that on average 50% of all their infrastructure requires refurbishment and with the exception of the WWTW that requires a 50% replacement, 25% of the infrastructure require replacement. There is a low incident rate of breakages and failures. The municipality did not provide estimated costs for refurbishment and replacemei
Define Strategy:	A risk-based approach needs to be adopted with integrated asset management principles.
List Possible Projects:	Develop and implement integrated asset management principles and a risk based approach. Address the refurbishment of water treatment and wastewater works and collector systems as a matter of urgency with an implementation plan over the next 1-5 years.

5.5 Institutional Status:

Interpret Situation Assessment:	Although there are some boreholes in Metsimaholo, they are not utilised. Rand Water provides an estimated 30% of the water and Sasol Industries an estimated 30% of the Waste water works.
Define Strategy:	Ensure that a planning culture is established and maintained (Training?). Enhance and maintain existing and additional operational and strategic documents. Identify, assess and adjust gaps and weaknesses.
List Possible Projects:	Provide ongoing staff training and monitor outputs. Raise awareness amongst managers and councillors and provide necessary decision support on priority intervention areas (eg water treatment works, wastewater works, affordable levels of services)

5.6 Asset Assessment Spectrum:

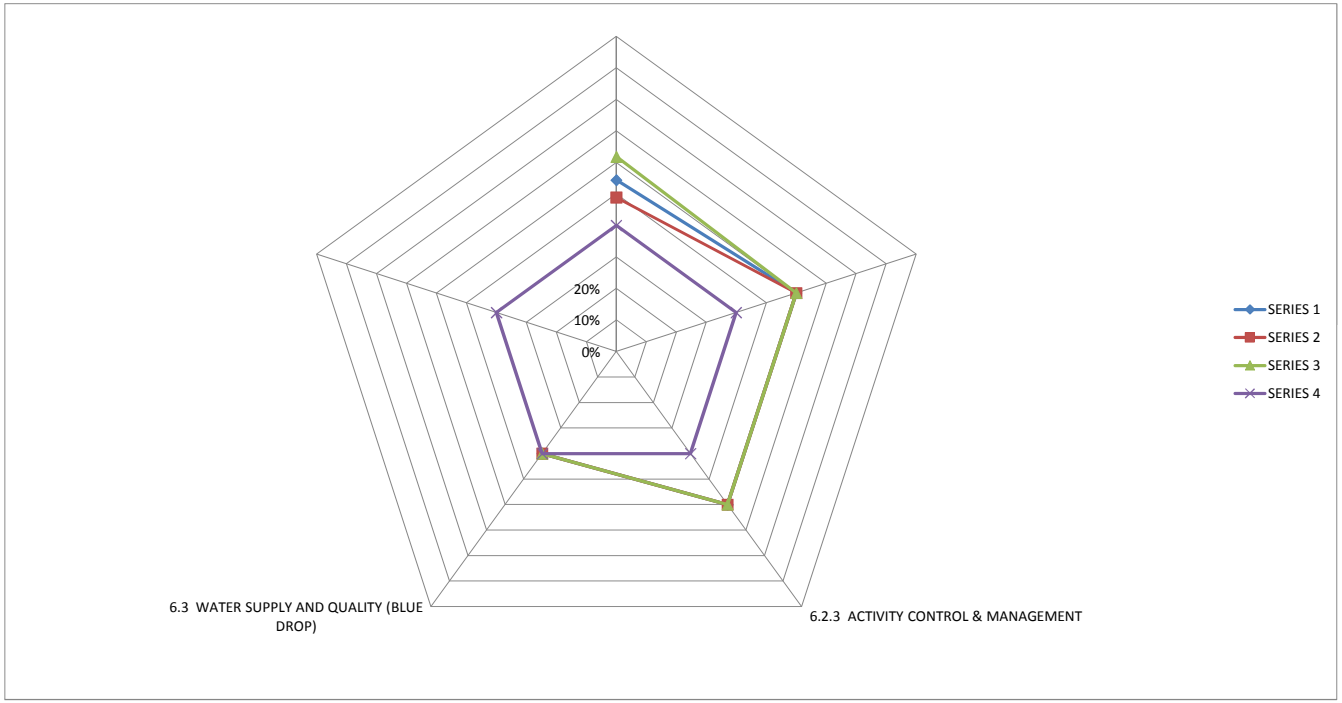
Interpret Situation Assessment:	The expected lifespan of the infrastructure and estimated replacement values were not provided.
Define Strategy:	To ensure that maintenance and staffing requirements are at a level to maintain effective and well cared for and operational equipment and to practice good integrated asset management principles.
List Possible Projects:	Establish and implement good asset management principles and processes with adequate levels of staff and capacity, and systematic maintenance and repairs.

5.7 Type and Capacity:

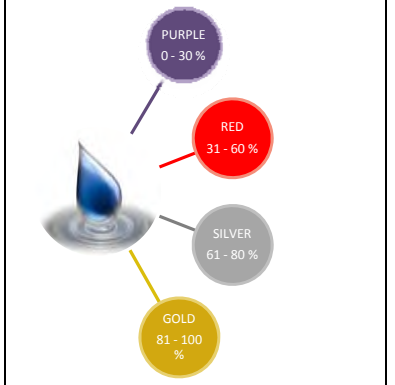
Interpret Situation Assessment:	Capacity for onloy the WTW and WWTW were provided, and no information was provided on the possibility of spare capacity. It was however mentioned that the WWTW capacity in Oranjeville and Deneysville, and the Water purification plant in Denwysville is overloaded.
Define Strategy:	Repairs and maintenance must consider replacing to latest standards. Output capacity with required standards must be managed and maintained.
List Possible Projects:	Ongoing enhancement and monitoring of capacity (a total view of the supply chain from source to tap must be considered).

WSDP Status Quo Knowledge Interpretation Report: Operation & Maintenance (Topic 6)

	Assessment		Future Plan Assessment	Strategy Assessment
	Quality	Quantity		
	SERIES 1	SERIES 2	SERIES 3	SERIES 4
6.1 OPERATION & MAINTENANCE PLAN	0%	0%		
6.2.1 RESOURCES	54%	60%	60%	40%
6.2.2 INFORMATION	53%	60%	60%	40%
6.2.3 ACTIVITY CONTROL & MANAGEMENT	51%	60%	60%	40%
6.3 WATER SUPPLY AND QUALITY (BLUE DROP)	49%	60%	60%	40%
6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DROP)	62%	60%	60%	40%
	45%	50%	60%	40%



Water Service Planning Status Bar Legend



Water Services Infrastructure Average Total **49%**

Topic 6 - WSDP Strategic Interpretation Report

Strategic Interpretation, Implications and Solutions Derived from Spider Diagram

6.1 OPERATION & MAINTENANCE PLAN

Interpret Situation Assessment:	Metsimaholo did not indicate if they have an Operation and Maintenance plan.
Define Strategy:	To ensure that an effective Operation and Maintenance plan is in place and enforced.
List Possible Projects:	To implement, manage and maintain an effective Operation and Maintenance plan.

6.2.1 RESOURCES

Interpret Situation Assessment:	The levels of staff for Operations is indicated as above the minimum requirement, and maintenance with the minimum basic requirement. External resources above the minimum requirement is utilised for operations and below minimun basic requirement for maintenance. Spare Parts, Tools and Equipment, and budget for maintenance are all below the minimum requirement. The impact of the minimum basic requirement for maintenance budget however is critical and must be addressed. Staff is currently being trained and a new organogram is being compiled that will result in more vacancies and training. It was also indicated that procurement is problematic and although orders are placed, that there is a delay in receiving thereof.
Define Strategy:	To manage operations and maintenance resources in order to maintain an acceptable impact. Investigate how the budget can be improved or better allocated between operations and maintenance. Ensure that sufficient level of staff with adequate capacity is maintained. To investigate and improve on procurement procedures.
List Possible Projects:	Ongoing management and assessment of resources to maintain a good standard level of impact - number of staff, level of skill, training, adequate utilisation, etc. Motivate and obtain sufficient budget to maintain an effective maintenance standard. Implement effective procurement procedures that will improve and speed up on the delivery of orders placed.

6.2.2 INFORMATION

Interpret Situation Assessment:	The status quo on information as a whole is all at a minimum basic requirement with no or a low impact. As draw plans are available, but only in hard copy.
Define Strategy:	To maintain and improve all information to achieve an above minimum requirement status. Determine best methods to have plans available electronically and preferably on a GIS.
List Possible Projects:	Ongoing maintenance and improvement of information Implement an electronic system for as drawn plans - preferably on a GIS.

6.2.3 ACTIVITY CONTROL & MANAGEMENT

Interpret Situation Assessment:	The overall indication is that Activity Control is below an acceptable level. Currently the impact thereof varies between Medium/High and Low, but will become critical in the long term. This needs to be addressed as a matter of urgency to improve the risk and quality in general.
Define Strategy:	To investigate and determine how management, procedures and monitoring can be achieved to improve the status quo of activities.
List Possible Projects:	Implement, manage and maintain effective Activity procedures, i.e. Record keeping, quality control, risk management, reporting, etc.

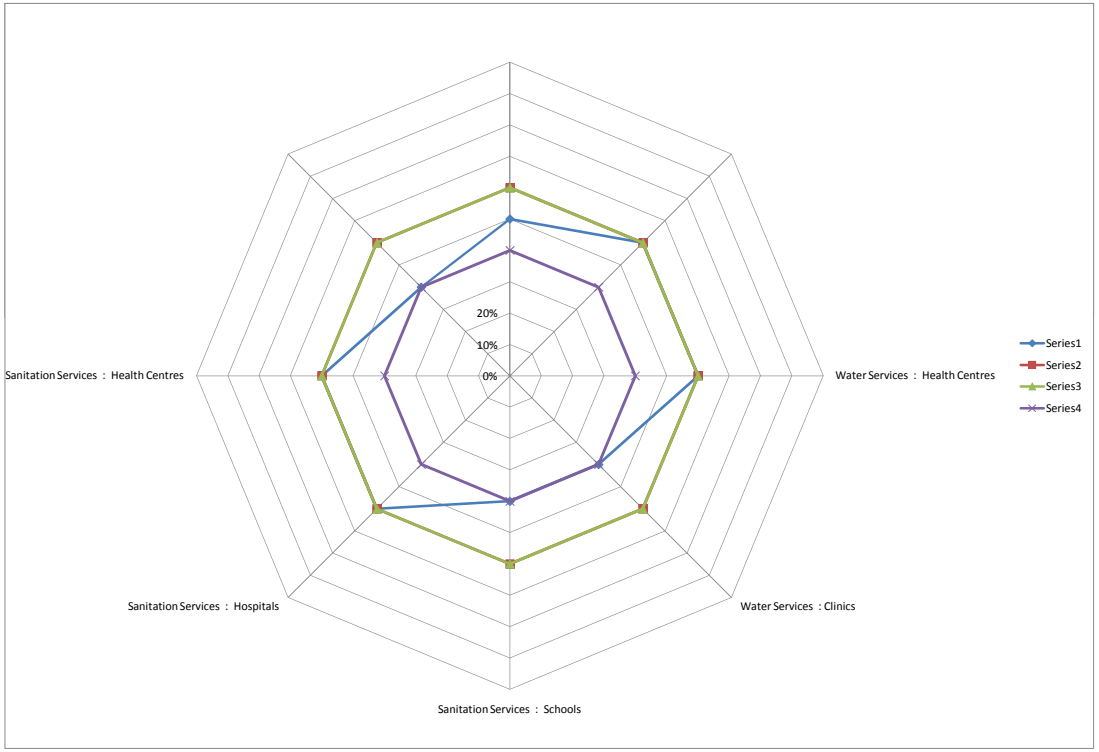
6.3 WATER SUPPLY AND QUALITY (BLUE DROP)

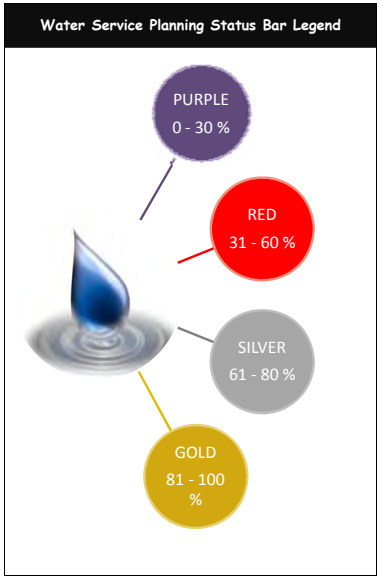
Interpret Situation Assessment:	The Blue Drop score for Metsimaholo for 2011 : 48.86%. Although Processes and procedures are in place, implementation, monitoring, incident response, asset management, and overall standards needs to improve considerably.
Define Strategy:	Ensure high level of supply and quality. Effective management and monitoring.
List Possible Projects:	Determine ongoing levels of improvement and implement, i.e. Water safety plan, roles and responsibilities, timeframes to implement managemengt actions, and budget as proof of municipal management commitment, etc. Maintain Blue Drop levels of standard.

6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DROP)

Interpret Situation Assessment:	The Green Drop score for Metsimaholo for 2011 : 61.8%. The key gaps are indicated to be pertaining to water quality and credibility of sample analyses and the Green Drop assessment recommended that the processes and practices of the Sasolburg plant be replicated in all the others. It was also indicated that the effluent quality is of a sub-standard quality and have a negative impact on the receiving environments.
Define Strategy:	To investigate and determine the gaps in order to achieve wastewater services at a level as required by the GDS.
List Possible Projects:	Implement and maintain ongoing levels of improvement with progressive corrective actions.

	Assessment		Future Plan	Strategy
	Quality	Quantity	Assessment	Assessment
	SERIES 1	SERIES 2	SERIES 3	SERIES 4
Water Services ; Schools	50%	60%	60%	40%
Water Services : Hospitals	60%	60%	60%	40%
Water Services : Health Centres	60%	60%	60%	40%
Water Services : Clinics	40%	60%	60%	40%
Sanitation Services : Schools	40%	60%	60%	40%
Sanitation Services : Hospitals	60%	60%	60%	40%
Sanitation Services : Health Centres	60%	60%	60%	40%
Sanitation Services : Clinics	40%	60%	60%	40%
	51%	60%	60%	40%





Water Services Infrastructure Average Total **53%**

Topic 7 - WSDP Strategic Interpretation Report

Strategic Interpretation, Implications and Solutions Derived from Spider Diagram

Water Services: Schools

Interpret Status Assessment:	The Schools in general are well serviced, although there are still a number of schools with inadequate and no services. It would appear as if these can mainly be attributed to farm schools.
Define Strategy:	Regular update of service levels through consultation with relevant sector departments / databases.
List Possible Projects:	Address remaining backlogs.

Water Services: Hospitals

Interpret Status Assessment:	Hospitals are all serviced.
Define Strategy:	Regular update of service levels through consultation with relevant sector departments / databases.
List Possible Projects:	Ensure levels of service is maintained.

Water Services: Health Centres

Interpret Status Assessment:	There are no Health Centres in this area.
Define Strategy:	
List Possible Projects:	

Water Services: Clinics

Interpret Status Assessment:	Clinics indicates some inadequate services and are mainly due to mobile clinics.
Define Strategy:	Regular update of service levels through consultation with relevant sector departments / databases. Clarify policy on basic services along Mobile Clinic routes.
List Possible Projects:	Address remaining backlogs and monitor service levels.

Sanitation Services: Schools

Interpret Status Assessment:	There are a number of schools with inadequate and no services. These can mainly be attributed to farm schools.
Define Strategy:	Regular update of service levels through consultation with relevant sector departments / databases.
List Possible Projects:	Address remaining backlogs

Sanitation Services: Hospitals

Interpret Status Assessment:	All Hospitals are serviced adequately.
Define Strategy:	Regular update of service levels through consultation with relevant sector departments / databases.
List Possible Projects:	Monitor service levels.

Sanitation Services: Health Centres

Interpret Status Assessment:	There are no Health Centres in this area.
Define Strategy:	
List Possible Projects:	

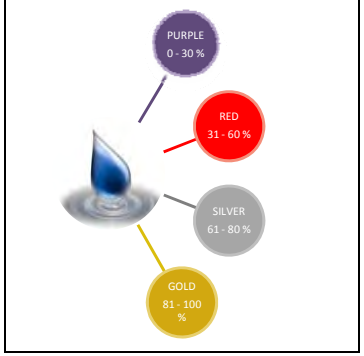
Sanitation Services: Clinics

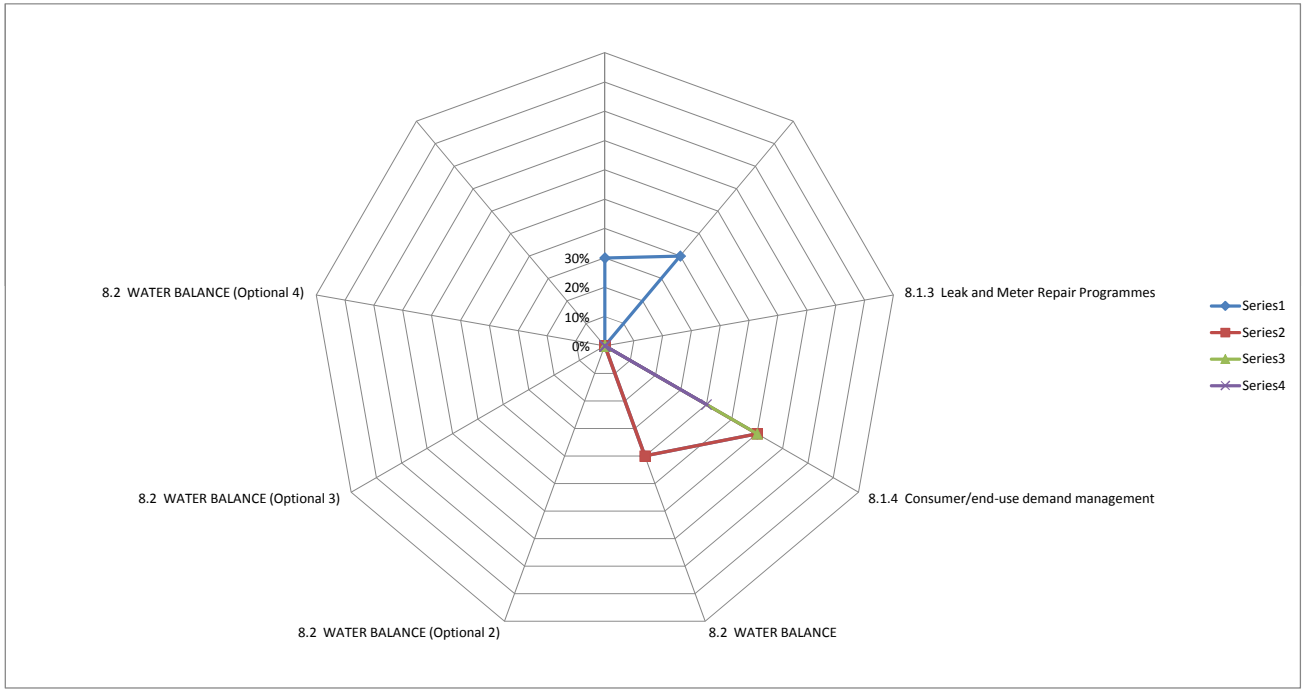
Interpret Status Assessment:	There are a number of clinics with inadequate services, but this is mainly contributed to mobile clinics.
Define Strategy:	Regular update of service levels consultation with relevant sector departments / databases. Clarify policy on basic services along Mobile Clinic routes.
List Possible Projects:	Monitor service levels.

Conservation & Demand Management & Water Balance

	Assessment		Future Plan Assessment	Strategy Assessment
	Quality	Quantity		
	SERIES 1	SERIES 2	SERIES 3	SERIES 4
8.1.1 Reducing unaccounted water and water inefficiencies	30%	0%	0%	0%
8.1.2 Reducing high pressures for residential consumers	40%	0%	0%	0%
8.1.3 Leak and Meter Repair Programmes	0%	0%	0%	0%
8.1.4 Consumer/end-use demand management	60%	60%	60%	40%
8.2 WATER BALANCE	40%	40%	0%	0%
8.2 WATER BALANCE (Optional 2)	0%	0%	0%	0%
8.2 WATER BALANCE (Optional 3)	0%	0%	0%	0%
8.2 WATER BALANCE (Optional 4)	0%	0%	0%	0%
8.2 WATER BALANCE (Optional 5)	0%	0%	0%	0%
	19%	11%	7%	4%

Water Service Planning Status Bar Legend





Water Services Infrastructure Average Total 10%

Topic 8 - WSDP Strategic Interpretation Report

Strategic Interpretation, Implications and Solutions Derived from Spider Diagram

8.1.1 Reducing unaccounted water and water inefficiencies

Interpret Situation Assessment:	The municipality indicates that there are no resources available to perform any flow metering, and although there are resources available for reticulation leaks, illegal connections, un-metered connections and internal plumbing leaks; no information on the amount and extent thereof was provided.
Define Strategy:	Flow metering procedures and monitoring needs to be established.
List Possible Projects:	Determine flow metering requirements and implement.

8.1.2 Reducing high pressures for residential consumers

Interpret Situation Assessment:	The municipality did not provide any information on the water supply pressure information.
Define Strategy:	Determine areas where water pressure is high and address. Ensure Pressurized supply to all consumers 100% of the time.
List Possible Projects:	Install Pressure Release Valves where required and monitor.

8.1.3 Leak and Meter Repair Programmes

Interpret Situation Assessment:	There is no leak repair assistance, however a meter repair programme is in place. Retro-fitting of efficient toilets are the responsibility of the public. No active leakage detection is currently undertaken.
Define Strategy:	Investigate the implementation of a leak repair assistance programme.
List Possible Projects:	Ongoing management, monitoring and implementation of the meter repair programme. Implement a leak repair assistance programme.

8.1.4 Consumer/end-use demand management

Interpret Situation Assessment:	Currently only consumers are targeted by public information programmes. There are no programmes in schools.
Define Strategy:	Investigate and determine the cost and effectiveness of existing programmes, and improvements that can be achieved. Investigate the possibility of cost effective and best methods to implement education programmes in schools.
List Possible Projects:	Allocate budget and implement cost effective education programmes in schools. Improve and maintain ongoing public information and education programmes.

8.2 WATER BALANCE :

Interpret Situation Assessment:	
Define Strategy:	
List Possible Projects:	

8.2 WATER BALANCE (Optional 2):

8.2 WATER BALANCE (Optional 3):

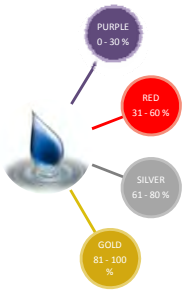
8.2 WATER BALANCE (Optional 4):

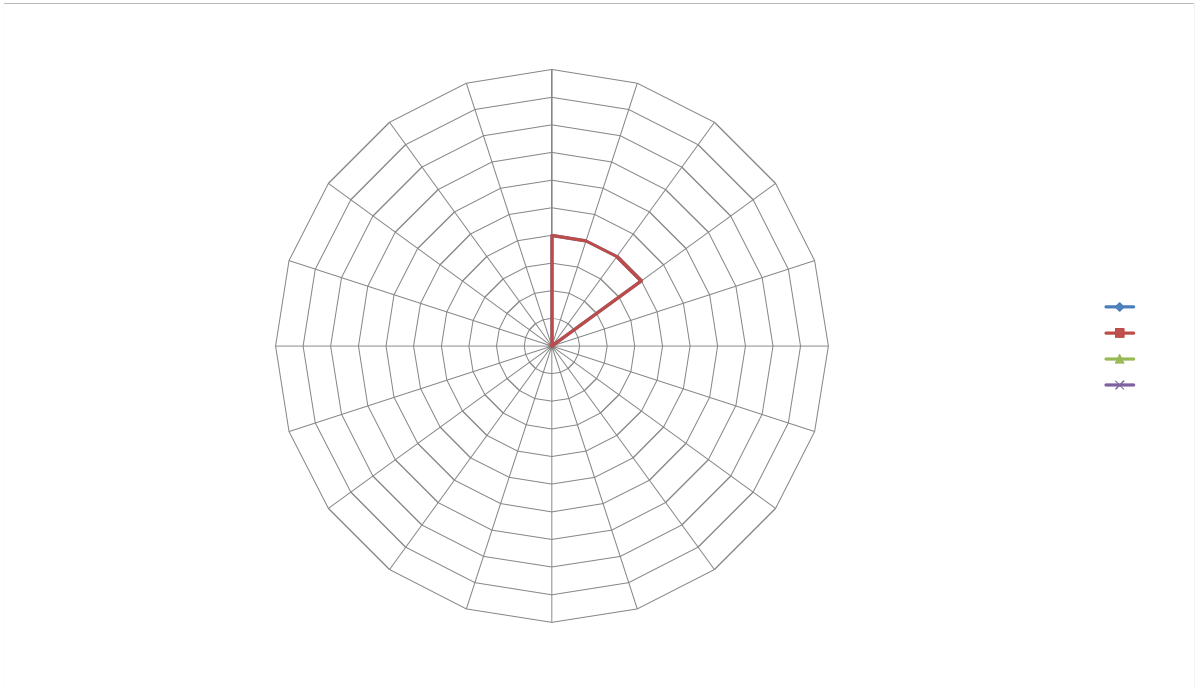
8.2 WATER BALANCE (Optional 5):

Water Losses

	Assessment		Future Plan Assessment	Strategy Assessment
	Quality	Quantity		
	SERIES 1	SERIES 2	SERIES 3	SERIES 4
8.3.1 Raw Water Bulk Loss	40%	40%	0%	0%
8.3.2 Treated Water Loss :Bulk	40%	40%	0%	0%
8.3.3 Treated Water Loss :Internal	40%	40%	0%	0%
8.3.4 Water Balance	40%	40%	0%	0%
8.3.1 Raw Water Bulk Loss (OPTION 2)	0%	0%	0%	0%
8.3.2 Treated Water Loss :Bulk	0%	0%	0%	0%
8.3.3 Treated Water Loss :Internal	0%	0%	0%	0%
8.3.4 Water Balance	0%	0%	0%	0%
8.3.1 Raw Water Bulk Loss (OPTION 3)	0%	0%	0%	0%
8.3.2 Treated Water Loss :Bulk	0%	0%	0%	0%
8.3.3 Treated Water Loss :Internal	0%	0%	0%	0%
8.3.4 Water Balance	0%	0%	0%	0%
8.3.1 Raw Water Bulk Loss (OPTION 4)	0%	0%	0%	0%
8.3.2 Treated Water Loss :Bulk	0%	0%	0%	0%
8.3.3 Treated Water Loss :Internal	0%	0%	0%	0%
8.3.4 Water Balance	0%	0%	0%	0%
8.3.1 Raw Water Bulk Loss (OPTION 5)	0%	0%	0%	0%
8.3.2 Treated Water Loss :Bulk	0%	0%	0%	0%
8.3.3 Treated Water Loss :Internal	0%	0%	0%	0%
8.3.4 Water Balance	0%	0%	0%	0%
	8%	8%	0%	0%

Water Service Planning Status Bar Legend





Water Services Infrastructure Average Total 4%

Topic 8 - WSDP Strategic Interpretation Report

Strategic Interpretation, Implications and Solutions Derived from Spider Diagram

8.3.1 Raw Water Bulk Loss

Interpret Situation Assessment:	
Define Strategy:	
List Possible Projects:	

8.3.2 Treated Water Loss :Bulk

Interpret Situation Assessment:	
Define Strategy:	
List Possible Projects:	

8.3.3 Treated Water Loss :Internal

Interpret Situation Assessment:	
Define Strategy:	
List Possible Projects:	

8.3.4 Water Balance

Interpret Situation Assessment:	
Define Strategy:	
List Possible Projects:	

8.3.1 Raw Water Bulk Loss (OPTION 2)

8.3.2 Treated Water Loss :Bulk

8.3.3 Treated Water Loss :Internal

8.3.4 Water Balance

8.3.1 Raw Water Bulk Loss (OPTION 3)

8.3.2 Treated Water Loss :Bulk

8.3.3 Treated Water Loss :Internal

8.3.4 Water Balance

8.3.1 Raw Water Bulk Loss (OPTION 4)

8.3.2 Treated Water Loss :Bulk

8.3.3 Treated Water Loss :Internal

8.3.4 Water Balance

8.3.1 Raw Water Bulk Loss (OPTION 5)

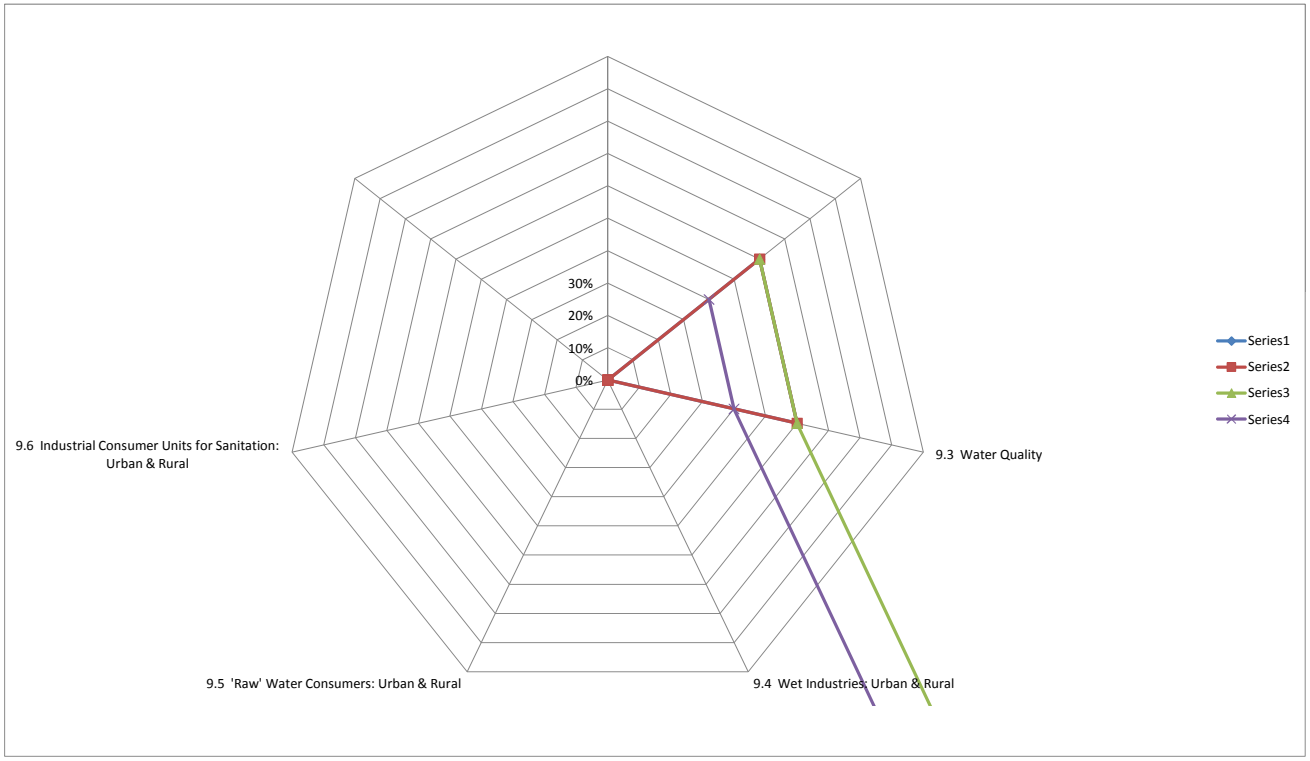
8.3.2 Treated Water Loss :Bulk

8.3.3 Treated Water Loss :Internal

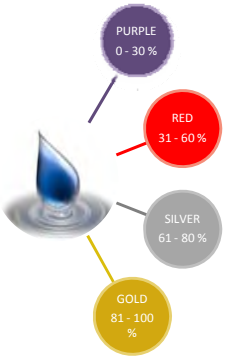
8.3.4 Water Balance

WSDP Status Quo Knowledge Interpretation Report: Water Resources (TOPIC 9)

	Assessment		Future Plan Assessment	Strategy Assessment
	Quality	Quantity		
	SERIES 1	SERIES 2	SERIES 3	SERIES 4
9.1 Sources & Volumes	0%	0%		
9.2 Monotoring	60%	60%	60%	40%
9.3 Water Quality	60%	60%	60%	40%
9.4 Wet Industries: Urban & Rural	0%	0%	6000%	4000%
9.5 'Raw' Water Consumers: Urban & Rural	0%	0%	6000%	4000%
9.6 Industrial Consumer Units for Sanitation: Urban & Rural	0%	0%	6000%	4000%
9.7 Industries and their permitted effluent releases	0%	0%	6000%	4000%
	17%	17%	4020%	2680%



Water Service Planning Status Bar Legend



Water Services Infrastructure Average Total 1684%

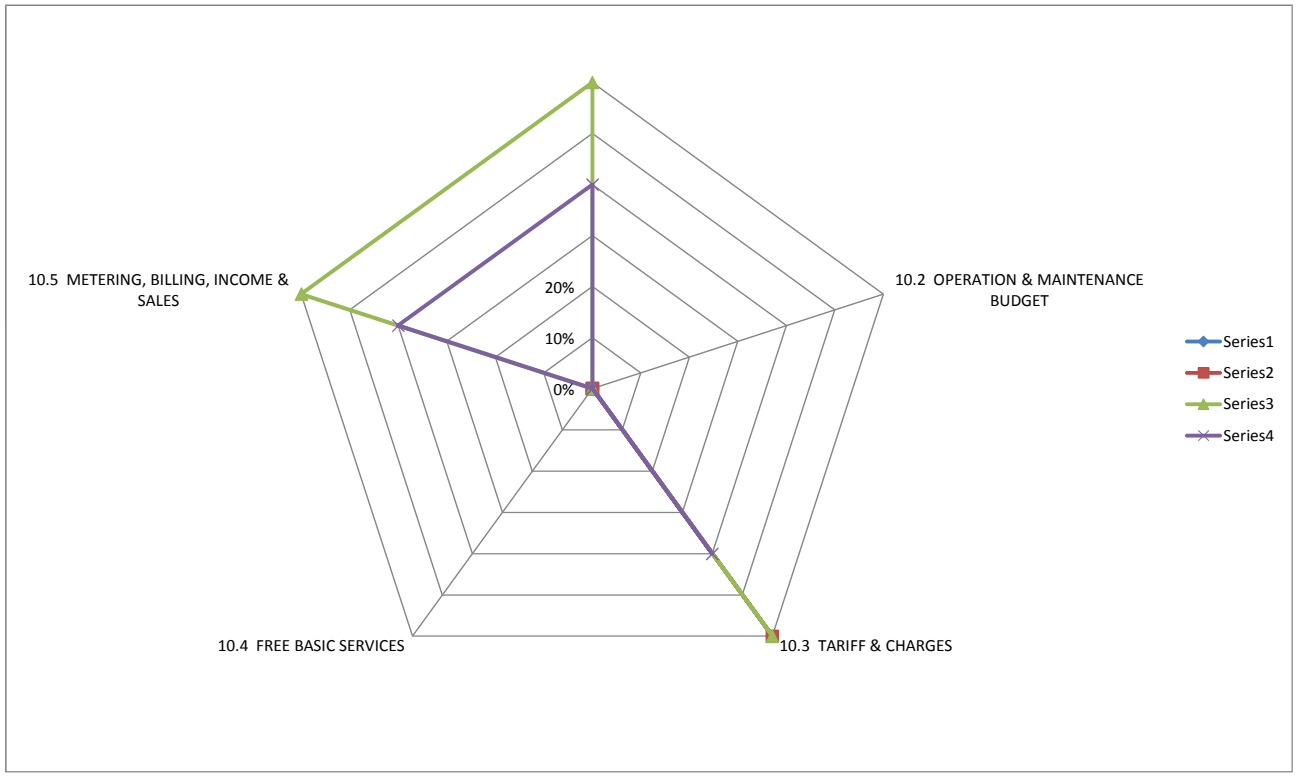
Topic 9 - WSDP Strategic Interpretation Report

Strategic Interpretation, Implications and Solutions Derived from Spider Diagram

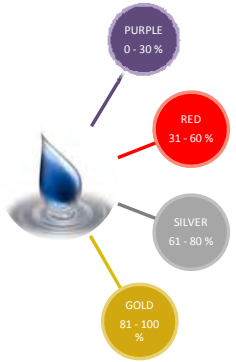
9.1 Sources & Volumes:		
	Interpret Situation Assessment:	Although Metsimaholo indicates a number of boreholes, all water is supplied from surface water. Rand Water provides 90% of the water in Metsimaholo and this is provided to Sasolburg only. The rest is extracted and purified by Metsimaholo.
	Define Strategy:	To determine and calculate the supply and requirements and assess any additional sources.
	List Possible Projects:	Determine, document, monitor and maintain abstractions.
9.2 Monotoring:		
	Interpret Situation Assessment	According to the information provided by Metsimaholo on the WSDP, all monitoring aspects are indicated as 'Excellent'. According to the Blue Drop and Green Drop, the municipality is improving but still require a lot of improvement before this can be acceptable.
	Define Strategy:	To address the management and monitoring aspects at all levels.
	List Possible Projects:	Implement good management principles and implement all monitoring procedures. Provide / obtain training where required and allocate sufficient staff.
9.3 Water Quality:		
	Interpret Situation Assessment	According to the information provided by Metsimaholo on the WSDP all quality aspects are addressed and indicated as mainly 'Excellent'. According to the Blue Drop and Green Drop, the municipality is improving but still require a lot of improvement before this can be acceptable. The lack of required data renders the credibility of the water quality. Currently the quality on effluent pose a significant risk to the receiving environment and publich health and although the WSDP indicates that there are Pollution contingency measures in place, the implementation and impact is questioned. 90% of the water in Metsimaholo is provided by Rand Water and this provided to Sasolburg only. The sewer effluent in Sasolburg is treated by Sasol Industries under contract, and the rest is done by Metsimaholo.
	Define Strategy:	To investigate the gaps on management and monitoring of quality aspects at all levels.
	List Possible Projects:	Prepare and implement a Corrective Action Plan.
9.4 Wet Industries: Urban & Rural:		
	Interpret Situation Assessment	No Wet Industries specified.
	Define Strategy:	
	List Possible Projects:	
9.5 'Raw' Water Consumers: Urban & Rural:		
	Interpret Situation Assessment:	No 'Raw' Water Consumers specified.
	Define Strategy:	
	List Possible Projects:	
9.6 Industrial Consumer Units for Sanitation: Urban & Rural:		
	Interpret Situation Assessment	No Industrial Consumers specified.
	Define Strategy:	
	List Possible Projects:	
9.7 Industries and their permitted effluent releases:		
	Interpret Situation Assessment:	No Industries and their permitted effluent releases specified.
	Define Strategy:	
	List Possible Projects:	

WSDP Status Quo Knowledge Interpretation Report: Financial Profile (Topic 10)

	Assessment		Future Plan Assessment	Strategy Assessment
	Quality	Quantity		
	SERIES 1	SERIES 2	SERIES 3	SERIES 4
10.1.2 CAPITAL EXPENDITURE	0%	0%	60%	40%
10.2 OPERATION & MAINTENANCE BUDGET	0%	0%	0%	0%
10.3 TARIFF & CHARGES	60%	60%	60%	40%
10.4 FREE BASIC SERVICES	0%	0%	0%	0%
10.5 METERING, BILLING, INCOME & SALES	0%	0%	60%	40%
	12%	12%	36%	24%



Water Service Planning Status Bar Legend



Water Services Infrastructure Average Total 21%

WSDP Status Quo Knowledge Interpretation Report: Financial Profile (Topic 10)

Topic 10 - WSDP Strategic Interpretation Report

Strategic Interpretation, Implications and Solutions Derived from Spider Diagram

10.1.2 CAPITAL EXPENDITURE:

Interpret Situation Assessment:	Metsimaholo provided no Financial information. Any information available on this topic was provided by the PSP.
Define Strategy:	It is recommended that a breakdown of expenditures is done for more effective management of funds.
List Possible Projects:	Establish a system where expenditure can be broken down further to assist with more effective budgeting and management of water services.

10.2 OPERATION & MAINTENANCE BUDGET:

Interpret Situation Assessment:	The information was extracted by the PSP from the Statement of Capital and Operating Expenditure for the 4th Quarter, ending 30 June 2011. It would appear as if no provision is made for O&M and depreciation. There also appears to be no provision for Municipal rates and services.
Define Strategy:	To determine a breakdown and provision for all expenses.
List Possible Projects:	Implement a further breakdown of budgeted expenses.

10.3 TARIFF & CHARGES:

Interpret Situation Assessment:	Metsimaholo has a flat rate tariff structure and block definitions does not apply. There is a different water tariff applicable to Oranjeville. The Waterborne sewerage tariff varies for different towns. The tariffs indicated in the WSDP is for Sasolburg only.
Define Strategy:	Ensure tariffs are in line with the cost of water and effluent and regular increase in line with CPI. Although regular increases would be the norm, the affordability must be ensured and high users penalised. To ring fence water sales revenue.
List Possible Projects:	Implement ring fencing of water sales revenue and investigate introducing water demand measures against excessive water use and water wastage.

10.4 FREE BASIC SERVICES:

Interpret Situation Assessment:	There is a Free Basic Services policy in place and it is applicable to all consumers.
Define Strategy:	To ensure that the level of non-revenue water remains effective.
List Possible Projects:	Effective monitoring of non-revenue water.

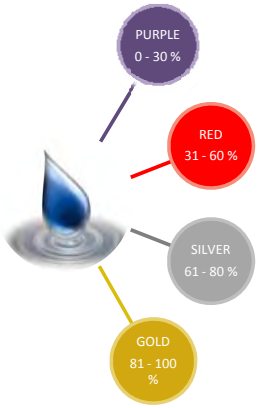
10.5 METERING, BILLING, INCOME & SALES:

Interpret Situation Assessment:	The municipality provided no information on Metering, Billing and Income.
Define Strategy:	Ensure 100% Residential, Commercial & industrial metering system that are in good working order. Improve on collecting outstanding payments.
List Possible Projects:	Maintain effective meter management and billing. Investigate and implement methods to improve debt collection.

WSDP Status Quo Knowledge Interpretation Report: Water Services Institutional Arrangements Profile (Topic 11)

	Assessment		Future Plan Assessment	Strategy Assessment
	Quality	Quantity		
	SERIES 1	SERIES 2	SERIES 3	SERIES 4
11.1.1 Policy Development	60%	60%	60%	40%
11.1.2 Regulation and Tariffs	60%	60%	60%	40%
11.1.3 Infrastructure Development (Projects)	60%	60%	60%	40%
11.1.4 Performance Management and Monitoring	60%	60%	60%	40%
11.1.5 WSDP	60%	60%	60%	40%
11.2 Bulk and Retail Functions	20%	20%	20%	20%
	53%	53%	53%	37%

Water Service Planning Status Bar Legend



Water Services Infrastructure Average Total 49%

Topic 11 - WSDP Strategic Interpretation Report

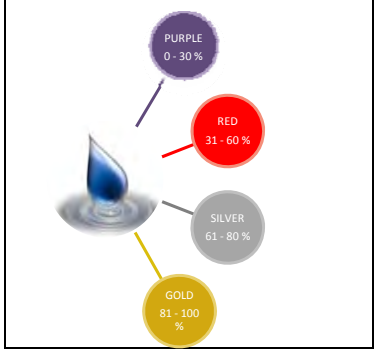
Strategic Interpretation, Implications and Solutions Derived from Spider Diagram

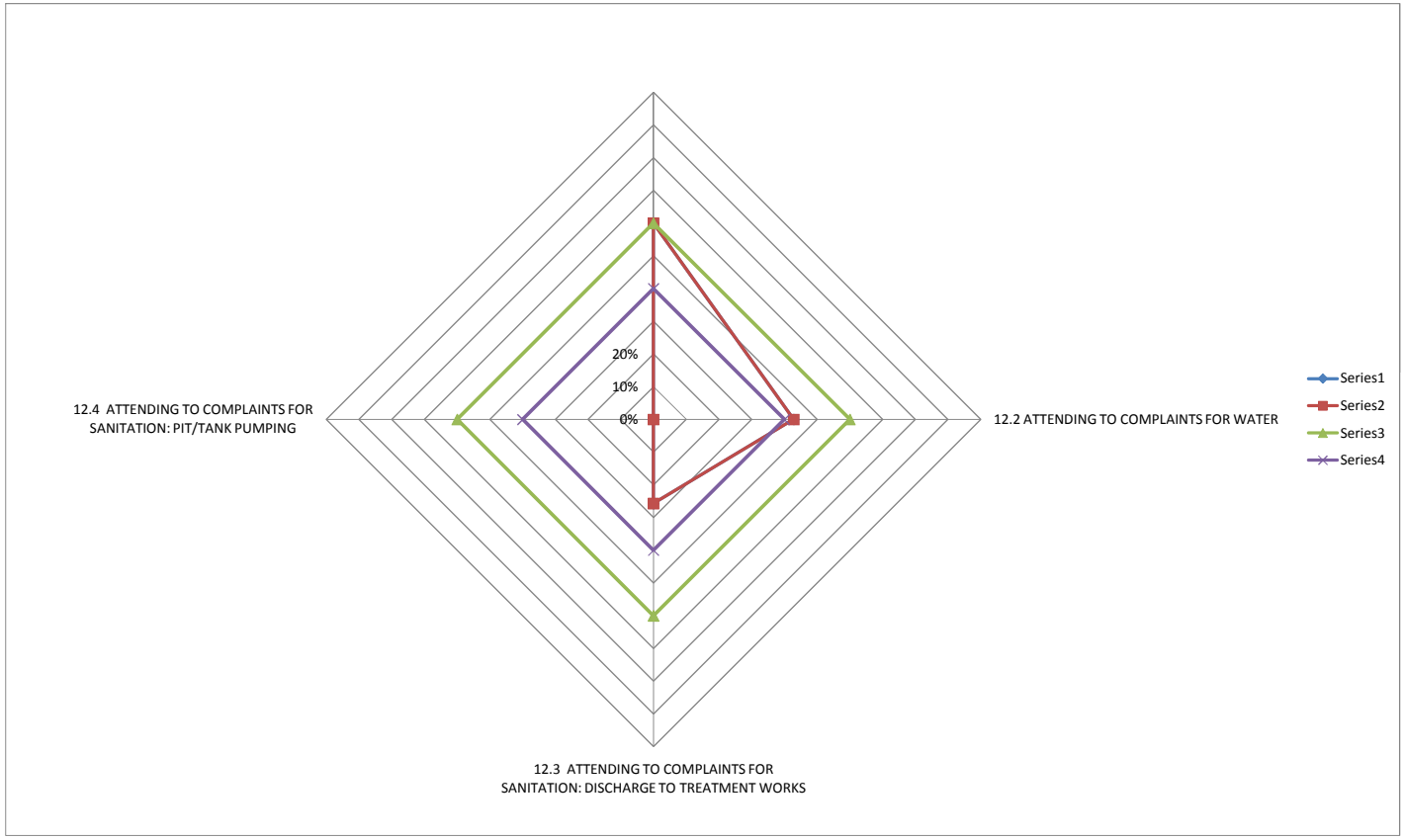
11.1.1 Policy Development	Interpret Situation Assessment:	All policies are in place.
	Define Strategy:	To ensure that policies are continuously maintained and improved and implemented.
	List Possible Projects:	Effective management of policies (i.e. Better debt collection). Continuous maintenance and improvement of Policies.
11.1.2 Regulation and Tariffs	Interpret Situation Assessment:	All Regulations and Tariffs appear to be in place.
	Define Strategy:	To ensure that Regulations and tariffs are maintained, improved and implemented.
	List Possible Projects:	Ensure effective management, implementation and maintenance of Regulations and Tariffs.
11.1.3 Infrastructure Development (Projects)	Interpret Situation Assessment:	All Infrastructure development procecures appears to be in place.
	Define Strategy:	To ensure that processes and mechanisms are continuously maintained, improved, implemented and adhered to.
	List Possible Projects:	Ensure effective management, implementation and maintenance of mechanisms and procedures.
11.1.4 Performance Management and Monitoring	Interpret Situation Assessment:	It would appear that a Performance Management system is in place.
	Define Strategy:	Ensure that Performance agreements are in place, implemented, regularly monitored and updated.
	List Possible Projects:	Ongoing improvement on Performance monitoring.
11.1.5 WSDP	Interpret Situation Assessment:	The FS province implemented P-Systems in all the Local Municipalities and all the mechanisms exist.
	Define Strategy:	To ensure utilisation and ongoing monitoring of WSDP implementation.
	List Possible Projects:	Effective management and implementation of WSDP requirements.
11.2 Bulk and Retail Functions	Interpret Situation Assessment:	Rand Water provides 90% of the water in Metsimaholo and this is provided to Sasolburg only. The rest is extracted and purified by Metsimaholo. The sewer effluent in Sasolburg is treated by Sasol Industries under contract and the rest is done by Metsimaholo. There are no Service Agents, Promotion agents or institutions utilised in the area.
	Define Strategy:	Ensure effective Asset Management and O&M procedures as well as water monitoring and quality standards.
	List Possible Projects:	Implement, maintain and manage effective Asset Management and O&M procedures. Maintain required Blue and Green Drop standards. Maintain existing contracts and ensure that new contracts are completed timeously.

WSDP Status Quo Knowledge Interpretation Report: Social & Customer Service Requirements (Topic 12)

	Assessment		Future Plan Assessment	Strategy Assessment
	Quality	Quantity		
	SERIES 1	SERIES 2	SERIES 3	SERIES 4
12.1 RESOURCES AVAILABLE TO PERFORM THIS FUNTION	60%	60%	60%	40%
12.2 ATTENDING TO COMPLAINTS FOR WATER	43%	43%	60%	40%
12.3 ATTENDING TO COMPLAINTS FOR SANITATION: DISCHARGE TO TREATMENT WORKS	26%	26%	60%	40%
12.4 ATTENDING TO COMPLAINTS FOR SANITATION: PIT/TANK PUMPING	0%	0%	60%	40%
	32%	32%	60%	40%

Water Service Planning Status Bar Legend





Water Services Infrastructure Average Total 41%

WSDP Status Quo Knowledge Interpretation Report: Social & Customer Service Requirements (Topic 12)

Topic 12 - WSDP Strategic Interpretation Report

Strategic Interpretation, Implications and Solutions Derived from Spider Diagram

12.1 RESOURCES AVAILABLE TO PERFORM THIS FUNTION

Interpret Situation Assessment:	Metsimaholo indicated that they have budget and resources resources available to perform their Water and Sanitation functions.
Define Strategy:	Ensure effective management and resource levels.
List Possible Projects:	Continuous monitoring of performance and pro-actively responding to deviations.

12.2 ATTENDING TO COMPLAINTS FOR WATER

Interpret Situation Assessment:	Although not all the questions were completed, it can be deduced that Water complaints are attended to timeously.
Define Strategy:	Ensure effective management, monitoring and improvement of services.
List Possible Projects:	Effectively manage and monitor and pro-actively responding to deviations and improvement

12.3 ATTENDING TO COMPLAINTS FOR SANITATION: DISCHARGE TO TREATMENT WORKS

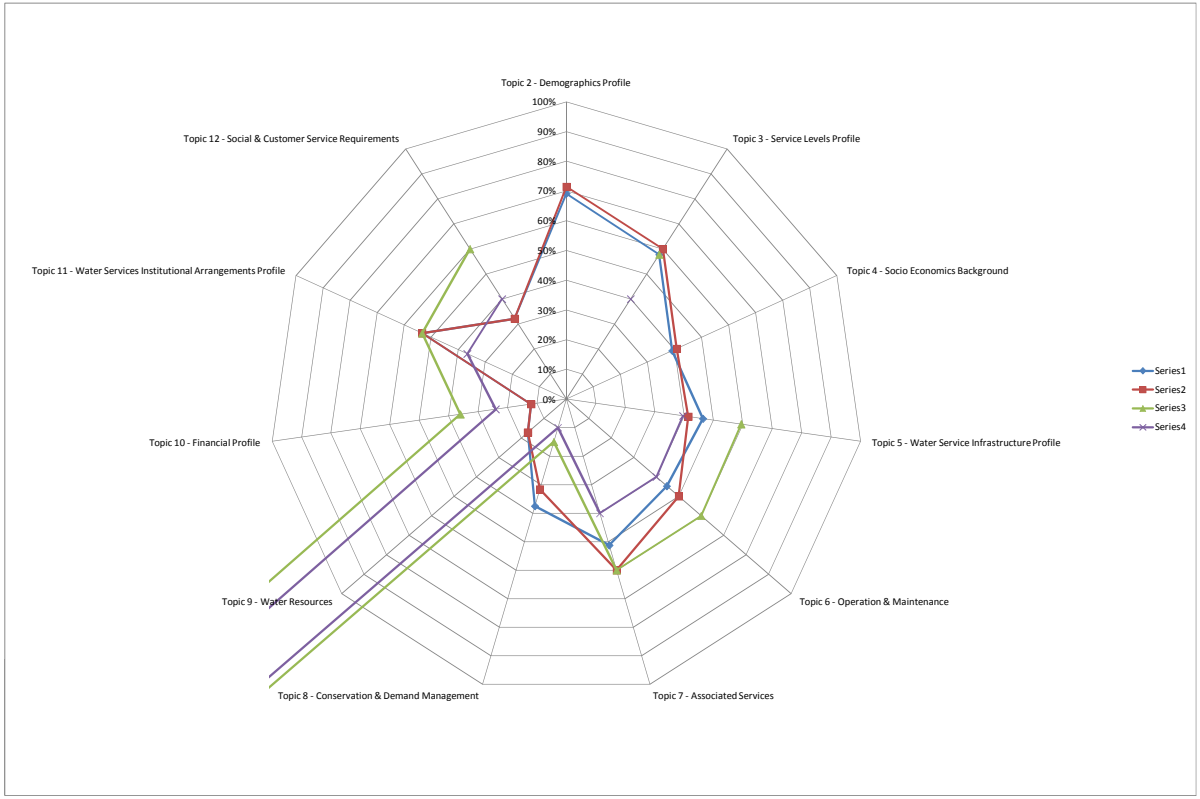
Interpret Situation Assessment:	According to the information provided, Sanitation complaints are attended to timeously.
Define Strategy:	Ensure effective management, monitoring and improvement of services.
List Possible Projects:	Effectively manage and monitor and pro-actively responding to deviations and improvement.

12.4 ATTENDING TO COMPLAINTS FOR SANITATION: PIT/TANK PUMPING

Interpret Situation Assessment:	No information was provided on Pit/Tank pumping.
Define Strategy:	Ensure effective management, monitoring and improvement of services.
List Possible Projects:	Effectively manage and monitor and pro-actively responding to deviations and improvement.

WSDP Status Quo Knowledge Interpretation Report

	TOTAL AVERAGES OF TOPICS			
	SERIES 1	SERIES 2	SERIES 3	SERIES 4
Topic 2 - Demographics Profile	69%	71%		
Topic 3 - Service Levels Profile	58%	60%	58%	40%
Topic 4 - Socio Economics Background	39%	41%		
Topic 5 - Water Service Infrastructure Profile	46%	41%	59%	40%
Topic 6 - Operation & Maintenance	45%	50%	60%	40%
Topic 7 - Associated Services	51%	60%	60%	40%
Topic 8 - Conservation & Demand Management	38%	32%	15%	10%
Topic 9 - Water Resources	17%	17%	4020%	2680%
Topic 10 - Financial Profile	12%	12%	36%	24%
Topic 11 - Water Services Institutional Arrangements Profile	53%	53%	53%	37%
Topic 12 - Social & Customer Service Requirements	32%	32%	60%	40%
	39%	40%	491%	328%



Water Services Infrastructure Average Total **225%**

Overall Water Services Planning Status Bar Legend