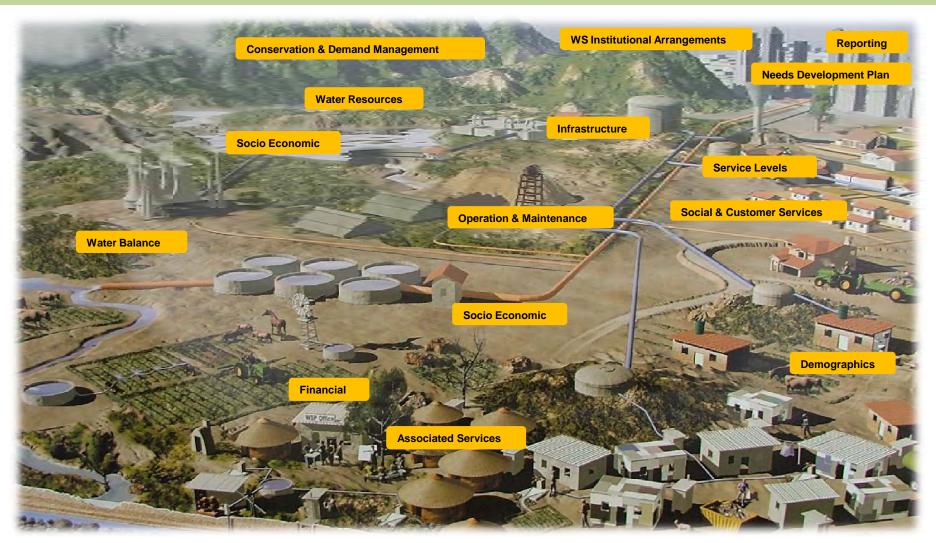
WATER SERVICES DEVELOPMENT PLAN

Pumelela Local Municipality 2012

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



Document Date: FEBRUARY 2012





THE WATER SERVICES BUSINESS

PUMELELA LOCAL MUNICIPALITY

WSDP 2012

DRIVERS

CLIENT

NEEDS



ASSETS

RESOURCE DEVELOPMENT

INFRASTRUCTURE



MANAGEMENT

EFFECTIVE MANAGEMENT

- Water Use
- Conservation & Demand Management
- Social & Customer Services Requirements
- Return Flow
- Sanitation



PLANNING & REPORTING

NEEDS DEVELOPMENT PLAN









WSDP TOPICS

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5. Water Service Infrastructures

9.	Water	Resources	24

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Management	
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Institutional Arrangements	

12. Social & Customer	37
Service Requirements	

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(Program List)	

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		. •



Administration	2	1
Demographics	4	2
Service Levels	5	m
Socio Economic Background	9	4



10





















PUMELELA LOCAL MUNICIPALITY

WSDP 2012

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



What are their needs regarding water?



Vision & Mission Statement:

Vision: To be self-reliant, integrated, well governed local municipality with a crime free and sustainable community in which all residents can maintain a healthy, high standard of living through economic growth (agricultural and tourism), infrastructure and education and live together in peace and harmony.

Demographics	Total
Number of People	56598
Total Number of Settlements	8
Total Number People Urban	41896
Total Number People Rural	14701
Total Number of Settlements Urban	7
Total Number of Settlements Rural	1







Mayor









Water Category	Water Need Description	Settlements	Population	Households
10	No Service	0	0	0
7	Infrastructure Upgrade			
7	Infrastructure Extension	3	26444	6675
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	7	17053	4648
Informal Below	No Service	0	0	0
Informal Adequate	Temporary Services Provided	1	1179	408



PUMELELA LOCAL MUNICIPALITY

WSDP 2012

What are their needs regarding sanitation?



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

Sanitation Category	Sanitation Need Description	Settlements	Population	Households
10	No Service			
7	Infrastructure Upgrade	3	6097	1947
7	Infrastructure Extension	3	21186	6075
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:	Waterborne	5	20788	5666
Adequate:	Waterborne Low Flush			
Adequate:	Septic Tanks / Conservancy	2	2679	705
Adequate:	Non-Waterborne	2	1888	594
Informal Below	No Service			
Informal Adequate	Temporary Services Provided			





Water sources	Number of sources	Current abstraction (MI/Dav)	Licensed abstraction (MI/Dav)
Groundwater	21		
Surface Water	3	3.54	
External Sources (Bulk purchase)			
Water returned to resources			
How much water is re-used (Recycled Water)			





PUMELELA LOCAL MUNICIPALITY

WSDP 2012



4. Water & Sanitation Infrastructure?

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

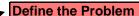


The general condition of WWTW		<u>Total</u>
Estimated cost to Upgrade	R	15 000 000.00
Estimated cost to Refurbish	R	2 100 000.00
3. Existing Budget	R	-

>	Topic 6: Operation & Maintenance	<u>Total</u>
	Total Number of O&M staff	51
	Total Number of O&M staff sufficient? Yes/No	Yes
	Total Number of O&M staff required	0
	Statement on population and effluent release	

5. How sufficient is our Operation & Maintenance:

- 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?



There is no programme for active leakage control and a record of response times between the reporting of a leak and the repair in the Municipality. The status of the bulk infrastructure and water reticulation systems within the municipality requires maintenance and upgrade. The purification works needs to be upgraded to effectively treat water to potable standards. Maintenance of infrastructure (off-channel storage dam) is also required. Currently much of the water losses are from leaks in old pipelines. The municipality will have to reconcile the volumes treated versus the current water demand.

Statement on Polution and Effluent Release

The municipality has prioritised the allocation of funds to implement WC/WDM management measures as a priority activity.





6. Do I pollute my environment





Topic 8: Conservation & Demand Management		(
	Y/N	
Does the municipality have a Water Conservation Demand Management Plan(WCDM)?	N	
Does the municipality have a strategy to meet 2014 targets?	N	
Is there an internal budget?	N	
Does the mUnicipality 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: FinancialTotal Water Services Budget:

Is the budget enough to eradicate backlog and maintain the WS infrastructure? (Yes/No)

Shortfall:

N R 173 550 000.00

8 000 000.00









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	7	
	Sufficient to eradicate backlog: (Yes/No)	N	
	Total Allocated Funds (Rm)	127.3	

PROJECT NAME	Total Funds on Budget for	PROJECT NAME	Total Funds on Budget for
PROJECT NAME	Project	PROJECT NAME	Project
ACTIVE PROJECTS: MIG2011/2012; RBIG; ACIP	-		
Thembalihle: Construction of sewer network -1827 stands	R 15 168 655.00		
Vrede/Thembalilhe:Upgrading of sewer pumpstation	R 1 282 300.00		
Warden (Ezenzeleni): Upgrading of bulk sewer	R 11 290 000.00		
Memel/Zamani: Sewer outfall pumps and rising main	R 8 027 132.00		
Warden Bulk Water Supply	R -		
Phumelela Bulk Water Supply	R 86 700 000.00		
Memel/Zamani: Comp of the water purification plant	R 4 895 160.00		
CONCEPTUAL & AWAITING FUNDING PROJECTS			
Ezenzeleni: Bucket eradication for 980 sites	R 5 012 946.00		
Ezenzeleni: Bkt erad for 980 stands phase 1 (Additional funding)	R 6 916 186.00		
Memel: Zamani WWTW (354) -2650 erven	R 3 400 000.00		
Vrede: Constr of WWTW in Thembalilhe Ext 4 (004) -2 200 VIP	R 11 970 000.00		
Warden: Construction of WWTW for 1500 erven (002)	R 8 892 000.00		
Water-Sewer Network in Ezenzeleni. 350 stands	R 5 000 000.00		
Phumelela Municipality :San Internal Bulk Ref(group est)	R 33 546 000.00		
Phumelela Municipality - Water Internal Bulk Ref (group est)	R 26 358 000.00		
New Storage Reservoir and Rising Main in Zamani	R 7 391 281.75		
New Storage Reservoir in Thembalihle Ext 4&5	R 3 000 000.00		
Ezenzeleni: Pressure water tank	R 2 153 175.00		
Install 4000 water meters in unmetered stands	R 2 200 000.00		
Warden: Upgrading of Purification Works	R 4 000 000.00		



Λ	SD	P:	Str	ate	qic	Ov	ersigh	t
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WSDP 2012

$\overline{}$	_			_		
C	o	m	m	е	n	IT:

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
	110,000		110,000





PUMELELA LOCAL MUNICIPALITY

WSDP 2012

Critical Developments & Associated Factors that impacts our Area for the Immediate Future
Urban versus Rural Backlogs
Reliance on Water Resources available and Bulk Infrastructure
Links between Water Supply & Sanitation
Limited Implementation & Operating Capacity in Some Municipalities

WSDP 2012

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

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. Affordability of Service Levels (O&M Costs)

Growing Backlog in Refurbishment of Existing Infrastructure

Major Economic Development

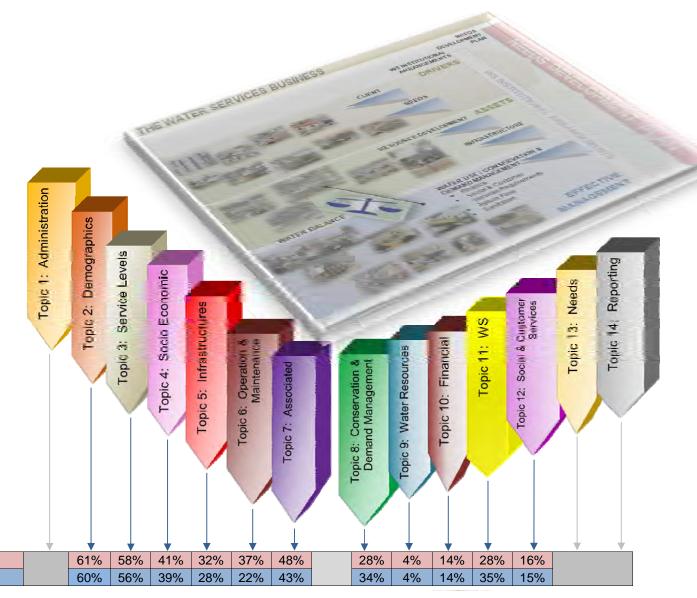
Associated Population Growth & Water Demand

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

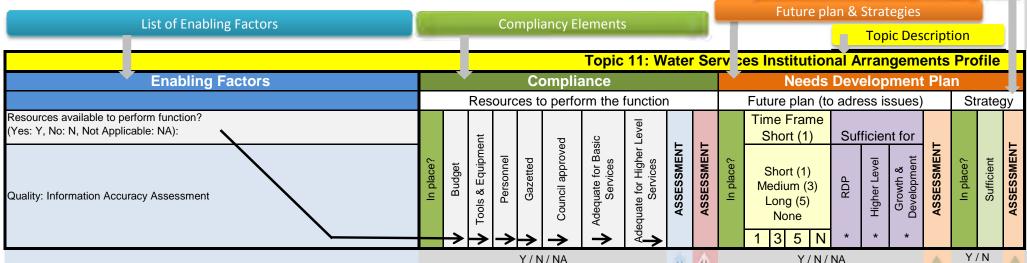




OVERALL QUANTITY ASSESSMENT

OVERALL QUALITY ASSESSMENT

Module 1: Concept Explanation and Description page



INDEX: List of Topics

- 1. Administration
- Demographic
- Service Levels
- Socio Economic Background
- Infrastructure
- **Operation & Maintenance**
- **Associated Services**
- **Conservation & Demand Management**
- **Water Resources**
- 10. Financial
- 11. Water Services Institutional Arrangements
- 12. Social & Customer Service Requirements
- 13. Needs Development Plan
- 14. Reporting

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%

SE SE

Limited 20%

Partial 40% Good 60% Excellent 80%

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%

is there a Future Plan in Place?

(Physical document that addresses issues & shortcomings)

Implementation Strategy

Is there an Implementation Strategy in Place?

(Must be a implementation plan of action that reflects in the budget with a time line)

General Assesment

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





		Status Tracking of WSDP											
	YEAR 1 YEAR 2 YEAR 3 YEAR 4 YEAR 5 YEAR 6										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										٠			

Role Players Contact Details

POSITION	PERSON	TEL	FAX	CELL	EMAIL	Interaction Acknowledgement Yes / No	Interaction Acknowledgement Signature
Municipal Manager							
Executive Mayor	Hnr TJ Motaung	058 913 8313	058 913 3601	072 934 5224	TJMotaung@Phumelela.gov.za		
Water services Councillor							
WSDP Contact							
IDP Manager							
PIMSS Senior Planner							
Technical Services	Mr LH Mthembu	058 913 8317	058 913 3601	083 289 4487	LHMthembu@Yahoo.com		
Treasurer							
WSDP Data Custodian							
WSDP Custodian							
Data official							
Acting Mayor							
Acting Municipal Manager	Mr LH Mthembu	058 913 8317	058 913 3601	083 289 4487	LHMthembu@Yahoo.com		
PMU Manager	Mr M Nthompe	058 913 8318	058 913 2317				
Chief Financial Officer	Mr M Moremi	058 913 8325	058 913 3601	082 809 9046	Mosesmail123@gmail.com		
Acting Chief Financial Officer							
Mayor							
Housing							
Environmental							
Infrastructure							



				ion

Professiona	I Service	Provider	(PSP)
-------------	-----------	----------	-------

Comp	any				Pula Sti	rategic Resource Mana	agement ((Pty) Ltd	
Name	of PSP WSDP	Project Ma	nager		Alet Mc	:Cully			
Tel:	012 424 (0900	Cell:	083 228 5260	Fax:	012 460 1205		E-mail:	alet@pula.co.za
Inputs	s								
Comp	onents	Chapter		Name	Designa	ation	Role	Contact ad	Idress, and number

E-mail:

alet@pula.co.za

Name of PSP WSDP	Information Systems	Operator	Alet McCully	

Tel: 012 424 0900 | Cell: 083 228 5260 | Fax: 012 460 1205

* 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		
Mining		
Tourism		
Other 1:		
Other 2:		
Other 3:		
Other 4:		

Comments



Population per

60%

60

60 60

60 60

60%

60 60

60

60

60

60

60

60%

60 60

60 60

60

60% 60

60

60

60

60

60

60

60% 60%

Topic 2: Demographics Profile

SETTLEMENT DEMOGRAPHICS

* 2.1 Total Population	56598
* 2.2 Total number of households	15426
* 2.3 Average household size	3.8

Quality: Information Accuracy Assessment

Quantity: Assessment of Information Completeness

2.4 Settler	nent Type	settlements	settlements type
Farming	Farming	1	14701
	Metropolitan Area		
	Urban - Formal Town	3	7122
Lluban	Urban - Former Township	3	33595
Urban	Urban - Informal Settlements (Squatter Camp)	1	1179
	Working Towns & Service Centres - Mines, Prisons etc.		
	Urban	7	41896
	Rural - Dense Village > 5000		
	Rural - Small Village <= 5000		
	Rural Scattered		
Rural	Rural Scattered Dense		
Nulai	Rural Scattered Low Density		
	Rural Scattered Very Low Density		
	Rural - Informal Settlements (Squatter Camp)		
	Rural	0	0

2.5 Social Services type	No. of facilities	Area (Ha)		
Police Stations	5		70	80
Magisterial Offices	3		70	80
Schools	102		70	80
Health Facilities	7		70	80
Prisons	0		70	80
Industries	3		50	50
Mining	0		60	60
Resorts and tourism	26		50	50
Agriculture dry land		168937	60	60
Agriculture irrigation		751	60	60
Agr. Intensive livestock/grazing		506374	60	60
Agr. Extensive livestock/grazing		120187	60	60
Conservation areas	6		50	50

Public Amenities Consumer Types

There is no definite predominant urban concentration of people, although Vrede has slightly higher population numbers. Warden is situated in a strong agricultural area on the N3 route to Durban and these two factors have been the main reasons for business development.

The area has a tremendous potential for tourism development. The Seekoeivlei wetlands bird sanctuary forms part of the tourist attractions. A conservation area is planned between the two dams of Vrede.

> OVERALL QUALITY ASSESSMENT **OVERALL QUANTITY ASSESSMENT**

60%

TOTAL 62% 65%



PUMELELA LO	OCAL MUNICIPALIT	Υ						WSD	P 201	2											
Topic 3: Serv	ice Levels Profile		Funktion Factors												l.		-4 Dia				
			Enabling Factors									Future		eeds C			nt Pia	n	St	rategy	一
												Time Fr	ame		Suff	icient f	for				
		2.4 CET	TI EMENT WATER SERVICE I EVEL I	DEFINITIONS				Ë	Ë			Chart	(4)			- Ne	ent	Ä		i i	- Z
		3.1 SEI	TLEMENT WATER SERVICE LEVEL I	DEFINITIONS	•			SSMI	SSMI	ce?		Short Medium			RDP	Higher Lev	Growth & evelopme	SSMI	ice?	Sient	SSIMI
								ASSE	ASSESSMENT	In pla		Long (High	Gro	ASSESSMENT	ln pla	Suffic	ASSESSMENT
Overlite v. Jefe ees								•	4			1						٩			`
	nation Accuracy Asse essment of Informatio										1	3	5	N	*	*	*				
													•								П
DE	FINITION	CLASSIFICATION	DESCRIPTION	CATEGORY	SETTLEMENTS	POPULATION	HOUSEHOLDS	%	%				Y/N	/ NA				%	1\Y	1 9	%
FORMAL		No Service	Whole community never had any formal	10 →	0	0	0	60	60	у	у	у	у		у	у	у	60	у	n 4	40
			(municipal) water supply system.																		
			Existing infra not on RDP std.																		
		Infrastructure Upgrade	Network: too small pipes, Storage: Add to exist / elevation																		
			3.Source: Infra to increase exist yield																		
			Communities have grown structurally and there	7	3	26444	6675	60	60	у	у	у	у		у	у	у	60	у	n 4	40
		Infrastructure Extension	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:																		
		illinastructure Reluibisiillielit	Repair/Replace with same existing infra	9																	Щ
			(Total Settlement) Water can be restored to RDP (where infra ok)																		
	- BELOW	O&M Need (Total Settlement)	by: enough & efficient staff and sufficient funds	6				60	60	у	у	у	у		у	у	у	60	у	n 4	40
		, ,	for O&M (incl. eg: quality at wtw, machines														-		-		
			working, etc)																		
			Includes Source Development Local Available Source: New BH, pipe																		
		Water Resource Needs	Conserving & Demand Management Needs	(5)				60	60	у	у	у	у		у	у	у	60	у	n 4	40
			Water Source Quality							,	1				,	,	Í		1		
			Drinking Water Quality																		
		Infrastructure & O&M Need		$\boxed{8}$				60	60	у	у	у	у		у	у	у	60	у	n 4	40
		Infrastructure & O&M Need &																	-		=
		Water Resource Needs		9	İ			60	60	у	У	У	у		У	У	у	60	у	n 4	40
			TOTAL	FORMAL NEED	3	26444	6675	60%	60%									60%		40	0%
		StandPipe	Adequate Infra	1(C)/3		3484	1060	60		у	у	,	у		у	у	у	60	у		40
	- ADEQUATE	Yard Connection	Adequate Infra	1(B)/3 1(A)/3	7	6718	2104 11091	60 60	60 60	y V	y V		y V		y V	y V	У	60 60	у		40 40
		House Connection	Adequate Infra	(/: -	7	43012				у	у	у	у		у	у	у		У		
				MAL ADEQUATE		53214	14255	60%							1			60%	_		0%
INFORMAL	- BELOW	No Services	Permanent Housing must be provided	4	0	0	0	60	60	У	У		у		у	у	у	60	У		40
	- ADEQUATE	Temporary Services Provided	Permanent Housing must be provided	2 TOTAL NEED	1	1179	408	60		У	у	у	у		у	у	у	60	у		40
				TOTAL NEED	-	26444	6675	61%	61%									61%		40	0%
			ТОТ	TAL ADEQUATE	8	54393	14663	61%	61%									61%		40	0%

	PUMELELA LOC	CAL MUNICIPALITY										\	NSDP	2012						
·																	3: Ser	vice Le	evels	rof
			Enabling Factors									Futuro		eeds De to addres			Plan	1	Ctroto	
												Time F				ient for			Strate	Ť
										_							_			١.
		3.2 SETTL	EMENT SANITATION SERVICE LEVE	EL DEFINITIO	NS			ASSESSMENT	ASSESSMENT	In place?		Short Mediur Long Non	n (3) (5)			Growth &	udo NSS	In place?	Sufficient	PSSESSMEN
	ation Accuracy Asse										1	3	5	N ,	,	* 1				
uantity: Asses	ssment of Information	on Completeness				<u> </u>								.,						4
DEF	FINITION	CLASSIFICATION	DESCRIPTION	CATEGORY	SETTLEMENTS	POPULATION	HOUSEHOLDS	%	%				Y/N/	/ NA			%	Y	/ N	%
ORMAL		No Service	Whole community never had any formal (municipal) sanitation supply system.	10 →				60	60	у	у	у	у	2	,	у !	60	у	n	4
		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 8	3	27282	8022	60	60	у	у	у	у		,	у !	y 60	у	n	40
		Infrastructure Extension	Community partially served to RDP leve	9																
		Infrastructure Refurbishment	Sanitation can be restored to RDP by: Repair/Replace with same existing infra																	
	- BELOW	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	у	у	у	у	2	′ ;	у !	y 60	у	n	40
		Water Resource Needs	Adequate Infra but not working due to inadequate water in the system.	5				60	60	у	у	у	у	!	,	у !	60	у	n	40
		Infrastructure & O&M Need		8				60	60	у	у	у	у		,	у !	60	у	n	40
		Infrastructure & O&M Need & Water Resource Needs		9				60	60	у	у	у	у	2	,	у !	60	у	n	4
			TOTAL	FORMAL NEED	3	27282	8022	60%	60%		,						60%	5		40
		Waterborne	Adequate Infra	1(A)/3		29508	7197	60	60	у	у	у	у		,	y !	/ 60	у	n	40
	- ADEQUATE	Waterborne Low Flush	Adequate Infra	1(B)/3	5			60	60	у	у	у	у	,	,	y :			n	40
	ADEQUAIE	Septic Tanks / Conservancy	Adequate Infra	1(C)/3		2890	705	60	60	у	у	у	у			y y	, 00		n	40
		Non Waterborne (VIP)	Adequate Infra	1(D)/3		1888	594	60	60	у	у	у	у		,	у	/ 60	у	n	40
			TOTAL FORM	IAL ADEQUATE	5	34286	8496	60%	60%								60%			40
NFORMAL	- BELOW	No Services	Permanent Housing must be provided	4	0	0	0	60	60	у	у	у	у	2	,	у у	60	у	n	40
	- ADEQUATE	Temporary Services Provided	Permanent Housing must be provided	2				60	60	у	у	у	у		,	y !	60	у	n	40
				TOTAL NEED	3	27282	8022	61%	61%								61%	5		40
			тот	TAL ADEQUATE	5	34286	8496	61%	61%								619			40
SALGA														* BASI	LINE IN	IFORMAT	TION: CO	IPULSOR	Y FIELD	5

WSDP 2012 PUMELELA LOCAL MUNICIPALITY Topic 3: Service Levels Profile **Enabling Factors Needs Development Plan** Compliance Future plan (to address issues) Strategy Time Frame Sufficient for Adequate for Higher Level Services Adequate for Basic Services 3.3 Residential, Public Institutions and Industries ASSESSMENT ASSESSMENT Growth & Development ASSESSMENT Higher Level Sufficient In place? Short (1) RDP Medium (3) Long (5) None Quality: Information Accuracy Assessment 3 5 Ν Quantity: % % Y/N/NA % Y/N % No. Of consumer units with access to: **Public amenities** No. Of consumer None or inadequate Supply Type Controlled volume Uncontrolled consumer types units (H-H) Communal supply volume supply supply Water Sanitation Urban 10339 0 1536 1820 6145 2375 40 60 60 n 40 n * Residential Rural 5087 763 4636 0 0 4324 n n 40 60 У У У У у У У 60 У n 40 Urban 5 0 0 0 5 0 40 60 60 n 40 У n У у у Police Stations Rural 0 0 0 0 0 0 40 60 60 40 n У У У У У У n 3 40 Urban 0 0 0 0 60 У n 40 Magistrate offices Rural 0 0 0 0 0 0 40 60 у 60 у n 40 n 40 Urban 0 0 У У У У У У У 60 У n Businesses Rural 0 0 у у у у у 60 у n 40 Urban 0 0 У у У У У у У 60 у n 40 "Dry" Industries 0 Rural 0 60 40 У У ٧ У У У ٧ У n 0 60 40 Urban 0 у У У У У У У У n Office Buildings Rural 0 60 40 0 У У У У у У У У n Urban 0 0 0 0 0 0 n 40 60 У У У у У У 60 У n 40 У У Prisons Rural 0 0 0 0 0 0 n n 40 60 у у у 60 n 40 Urban 8 0 0 0 8 0 40 60 У У 60 у n 40 У У Schools Rural 94 0 71 0 0 23 40 60 у У 60 n 40 Urban 1 0 0 0 1 0 40 60 60 40 n У У У У У У n Hospitals 0 0 0 0 0 40 60 40 Rural 0 n 60 У у У у У У У У n n Urban 6 0 0 0 6 0 40 60 60 n 40 n У У у У У У Clinics 0 0 0 40 Rural 0 0 0 40 60 У у У у У У 60 У n n n У 0 0 Urban 0 0 0 0 40 60 60 40 У У У У n Health Centres Rural 0 0 0 0 0 0 40 60 у у у у 60 у n 40 n n У У У 60 40 Urban 0 0 у У у у у У у n У "Wet" Industries Rural 0 0 60 n 40 У у У Urban 10362 1536 1820 6168 2375 Total Rural 5181 763 4707 0 0 4347 40%

TOTAL

40%

PUMELELA LOCAL MUNICIPALITY				SDP 2012	
Enabling Factors Compliance			Topic 3: Needs Developmen	Service Le	evels Prof
Status Quo			Future plan (to adress issues)	t Flair	Strategy
OVERALL TOPIC ASSESSMENT	ASSESMENT	ASSESSMENT		ASSESSMENT	TIVE
tuality: Information Accuracy Assessment					
luantity: Assessment of Information Completeness					
.1 SETTLEMENT WATER SERVICE LEVEL DEFINITIONS					
ATEGORY 10 - NO SERVICES (FORMAL)	60%	60%		60%	40
ATEGORY 7 - INFRASTRUCTURE UPGRADE, EXTENSION & REFURBISHMENT	60%	60%		60%	40
ATEGORY 6 - O&M NEED	60%	60%		60%	40
ATEGORY 4 - NO SERVICES (INFORMAL)	60%	60%		60%	40
.2 SETTLEMENT SANITATION SERVICE LEVEL DEFINITIONS					
ATEGORY 10 - NO SERVICES (FORMAL)	60%	60%		60%	40
ATEGORY 7 - INFRASTRUCTURE UPGRADE, EXTENSION & REFURBISHMENT	60%	60%		60%	40
ATEGORY 6 - O&M NEED	60%	60%		60%	40
ATEGORY 4 - NO SERVICES (INFORMAL)	60%	60%		60%	4
.3 RESIDENTIAL, PUBLIC INSTITUTIONS AND INDUSTRIES	27%	40%		60%	4
			NEEDS DEVELOPMENT PLAN		г
			Future plan	60%	
				Strategy	40
			OVERALL QUANTITY ASSESS	MENT	58
OMMENTS			OVERALL QUALITY ASSESSM		56



PUMELELA LOCAL MUNICIPALITY WSDP 2012 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 56598 60 60 Definition of poor household by the municipality % Population 4.1.2 Current population growth rates 60 59 4.1.3 Projected Population growth rate: 5 years 59 60 Poor household is where there is no single person living in the house with a job. (They do 70% 4.1.4 Projected Population growth rate: 10 years 60 60 not have work). 59 60% 60% 60 60 50 60 4.2 Age and gender Profile § Monthly household Income (as per StatsOnline) 4.2.1 Permanent resident population 56598 60 60 o R1 - R400 7000 50 60 4.2.2 Aged Residents (>65yrs) 50 60 o R401 – R800 50 2889 6125 4.2.3 Youth Residents (<18yrs) 23732 50 60 o R801 – R1600 1010 50 60 4.2.4 Male Residents 26755 60 o R1601 or more 2110 50 60 4.2.5 Female Residents 29844 50 60 o Collective living Quarters 0 0 60% 4.3 Employment Profile Water Affordability (Population not able to afford water) 50 60 4.3.1 Eligible Workforce (19 – 65 yrs) 60 o Typical monthly Water Bill 50 130 60 60 10585 4.3.2 Permanent residents – without jobs 5540 60 o Average % of monthly income 50 0% 0 0 60 Sanitation Affordability (Population not able to afford sanitation) 4.3.3 Permanent farm workers 5880 0 4.3.4 Permanent Industry workers 0 o Typical monthly Sanitation Bill 0 0 4.3.5 Professional workers 0 o Average % of monthly income 0 0 0% 4.6 Economics Economic Sector (As per Reserve % Contribution Total No of No of Local No of Migrating Bank Quarterly Bulletins) to Local GGP **Employees Employees** labour 4.4 Demographic trends and migration patterns Agriculture, Forestry & Fishing 92% 4336 50 40 4.4.1 Permanent resident population 56598 60 Mining 10 50 40 0% 4.4.2 Peak daily labour migration (-) out / (+) in 0 0 Manufacturing 3% 158 50 40 4.4.3 Peak long-term labour migration (-) out / (+) in 0 Electricity, Gas & Water 50 0% 40 0 4.4.4 Permanent population changes (-) out / (+) in Construction 50 0 5% 224 4.4.5 Holiday Population 0 0 Insurance 50 40 0% 0 12% Finance 0% 50 Comments Residential expansion is one priority that was identified for all the towns within Phumelela Local Municipality. There is a growing need to constantly provide new erven in urban areas. This can be linked to the increase in population growth, high rate of influx of farm workers into the urban areas and the perceived high economic potential of the urban areas. **OVERALL QUALITY ASSESSMENT OVERALL QUANTITY ASSESSMENT**

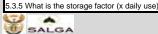


PUMELELA LOCAL MUNICIPALITY WSDP 2012 Topic 5: Water Services Infrastructure Profile **Enabling Factors** Compliance **Needs Development Plan** Status Quo Strategy Future plan (to address issues) Sewer Bulk pipeline Time Frame Sufficient for Sewer Reticulation Water Reticulation Water Pumpstations Sewer Pumpstations Water Bulk (Abstraction Points) Groundwater (Boreholes) Surrace water Reservoirs ASSESSMENT ASSESSMENT ASSESSMENT General Notes: The Enabling Factors below must be completed for the appropriate component compliancy section. All factors must WWTW Higher Level pipeline Growth & Developmen In place? Sufficient Short (1) be assessed and the Needs Development Plan section completed RDP Medium (3) Long (5) None Information Accuracy Assessment 3 5 Ν % % Y/N/NA % Quantity: Assessment of Information Completeness Y/N Y/N/NA 5.1 General Information (No of Components) 60 60 No 60 n 40 * 5.1.1 Is there an Asset Register Monitoring Programme Yes 60 60 Does the plan address: V 40 40 * 5.1.2 Is there a disaster management plan Yes n No n 20 n 0 40 40 20 n 0 n n n n Does the plan address: n n n n n n n To be obtained from Blue & 40 * 5.1.3 Is there a Water Quality Plan Yes у No У ٧ У У У У 60 60 ٧ У У У У У У 60 У n Green Drop Reports 60 40 60 60 ٧ Does the plan address: V n Yes No 60 60 5.1.4 Is there a plan in place to manage untreated effluent У У У У У Does the plan address: 60 60 ν ٧ ٧ У 21 3 11 20 9.6 4 50 40 3 4 5.1.5 Total number of components / km of pipeline / units TOTAL 594 40 60 5.1.6 VIP toilets 5.1.7 Other dry sanitation toilets (below RDP) **TOTAL** 1947 60 60 **TOTAL** 705 40 5.1.8 Septic tanks 60 44% Sub Topic 5.1 Compliancy & Needs Development Plans Assessment 53% 24% 5.2 Operation 5.2.1 Previous incidents including Security Problems (R: Regular, P: Periodic, S: Sporadic, N: None) n n n n n n n n n n n 60 60 У У У 60 У n 40 60 60 60 40 У У У У у У У У У У n 5.2.2 Is the abstraction registered with DWA? 60 60 40 5.2.3 Is abstraction recorded? ٧ У У У У ٧ ٧ n 60 60 60 n 5.2.4 Safety inspection performed (R: Regular, P: Periodic, S: Sporadic, N: None) r r r r r r у у У У V У У У 24 24 60 60 60 40 У У У У У У У У n 5.2.5 Average Operating hours per day (X hrs) Sub Topic 5.2 Compliancy & Needs Development Plans Assessment 60% 5.3 Monitoring & Sample Failure To be obtained from Blue & Green Drop Reports 60 60 60 0 5.3.1 Monitoring & Sample Failure: ٧ V У У У У n 5.3.1.1 Monitoring: % of tests performed as required by general limits /special limits/ license requirements (Average % over previous 0 0 0 60 у У У У 60 n 0 У У У 5.3.1.2 Operational: % of tests performed as required by general limits /special limits/ license requirements (Average % over 0 0 0 60 0 60 У У У У У n У У 0 0 0 0 60 60 5.3.1.3 Chemical (Results of tests performed. Average % sample failure over previous 12 months) ٧ ٧ У ٧ ٧ 0 0 0 60 60 n 0 5.3.1.4 Microbiological (Results of tests performed. Average % sample failure over previous 12 months) У У У У У У У 0 0 60 у У 60 0 У У У У У n 5.3.1.5 Physical Compliance (Results of tests performed. Average % sample failure over previous 12 months) 0 60 0 У У У У n * 5.3.2 Autherisation Compliance 40 ٧ 60 60 У У 60 У 5.3.3 Are there any standby pumps available? V V У V У ٧ n 0 0 60 60 ٧ У У У У У 60 У n 40 5.3.4 How many illegal connections to date? (NR)

1

20

40



PUMELELA LOCAL MUNICIPALITY WSDP 2012 **Topic 5: Water Services Infrastructure Profile Enabling Factors** Compliance Needs Development Plan Status Quo Future plan (to address issues) Strategy Time Frame Sufficient for Surface water (Abstraction Points) Bulk pipeline Bulk pipeline Sewer Reticulation Water Reticulation Water Pumpstations Pumpstations Groundwater (Boreholes) Reservoirs ASSESSMENT ASSESSMENT WWTW General Notes: The Enabling Factors below must be completed for the appropriate component compliancy section. All factors must Higher Level Growth & Development * WTW Sufficient In place? Sewer Short (1) be assessed and the Needs Development Plan section completed Medium (3) Long (5) Water I Sewer None Quality: Information Accuracy Assessment 1 3 5 N % % Y/N/NA Y/N Quantity: Assessment of Information Completeness Y/N/NA 60 40 5.3.6 % Effluent controled 100 60 у у У 60 У n 4 60 60 60 n 40 у у У 5.3.7 Permitted effluent (MI/day) У У У 1 60 60 60 40 У n 5.3.8 Solid waste disposal (m³/day) у у У У У У У 2 60 60 у у у У У 60 У n 40 5.3.9 Sludge produced (dry tonnes per day) 60 60 60 40 5.3.10 % Of the time that effluent is chlorinated 100 y y ٧ ٧ V ٧ ٧ n Sub Topic 5.3 Compliancy & Needs Development Plans Assessment 55% 5.4 Functionality 5.4.1 General physical condition (D: Dysfunctional, O: Operational, P: Prime Condition, V: Vandalised) 50 60 60 y n 40 0 0 0 0 0 0 0 0 0 0 У У 0 60 V n 40 5.4.2 Number of breakages / failures per vear У У V 60 60 20 20 60 40 у у у у У У У У n 5.4.3 Total refurbishment needs % 0 у у у У У У 60 У n 40 5.4.4 Total refurbishment needs cost (RM) 0 60 5.4.5 Total replacement needs % у у у у У У n 0 60 0 40 5.4.6 Total replacement needs cost (RM) y y V V V ٧ ٧ n Sub Topic 5.4 Compliancy & Needs Development Plans Assessment 12% 13% 5.5 Institutional Status 0 0 5.5.1 % Whereoff the WSA Self is the Current Owner 0 0 5.5.2 % Whereoff the WSA Self is Current Operator Sub Topic 5.5 Compliancy & Needs Development Plans Assessment 0% 0% 5.6 Asset Assessment Spectrum 5.6.1 % Expected total lifespan: Short (1-3 yrs) 0 У 60 5.6.2 % Expected total lifespan: Medium (3 - 10 yrs) 60 y 0 0 у у У У n 40 5.6.3 % Expected total lifespan: Long (10 - 20 yrs) У У У 0 0 60 y 40 у у у у У У У n 5.6.4 Estimated replacement value (RM) Sub Topic 5.6 Compliancy & Needs Development Plans Assessment 60% 0% 5.7 Type and Capacity

12.8

3.252

40 40 у у

у у

Comments

There is a Disaster Management plan on the District level.

5.7.1 Capacity (m³) (WTW & WWTW: MI/day and PumpStation: L/s)

The status of the infrastructure on the bulk and reticulation systems within the municipality requires the upgrade of the purification infrastructure and equipment.

Ground water resources in the area have not been explored as water requirements have been met and will in the short term be met by surface water resources.



У

60 y

PUMELELA LOCAL MUNICIPALITY		WSDP 2012
un \		Topic 5: Water Services Infrastructure Profile
Enabling Factors	Compliance	Needs Development Plan
	Status Quo	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 Quality: Information Accuracy Assessment	Groundwater (Boreholes) Surface water (Abstraction Points) * wTw Water Pumpstations Sewer Pumpstations Reservoirs Water Reticulation Sewer Reticulation * wwTw * wwTw	ASSESSMENT In place? Short (1) Wedium (3) Long (5) None 1 3 5 N * * *
Quantity: Assessment of Information Completeness		
5.7.2 Pipe material (Most common) Water Pipeline: PVC	17117101	% Y/N/NA % Y/N %
Sewer Pipeline: PVC		60
5.7.3 How much capacity is still available for development? (%)		0 y y y y y y 60 y n 40
5.7.4 Design Capacity - Hydraulic Load (MI/day)		40 y y y y y y y 60 y n 40
5.7.5 Design Capacity - Organic Load (COD kg/day)		40 y y y y y y 60 y n 40
Sub Topic 5.7 Compliancy & Needs Development Plans Assessment	37%	40% 60% 40%
A WCDM Strategy document was produced in Feb 2010 and currently the municipality is using WCDM projects in progress that will address some of the issues.	nis as a guide. The Strategy document identified some required technical int	terventions and currently the municipality have some
OVERALL TOPIC ASSESSMENT 5.1 General Information 5.2 Operation 5.3 Monitoring & Sample Failure 5.4 Functionality 5.5 Institutional Status 5.6 Asset Assessment Spectrum 5.7 Type and Capacity	60% 6 33% 5 12% 1 0% 0%	55% 60% NEEDS DEVELOPMENT PLAN ASSESSMENT 55% 13% Future plan 9% Strategy 29% 40%

OVERALL QUALITY ASSESSMENT
OVERALL QUANTITY ASSESSMENT

PUMELELA LOCAL MUNICIPALITY Topic 6: Operation & Maintenance																WS	DP 2	012				9
Enabling Factors						C	omi	nliar	200						Need	e Dev	/elon	men	nt Pla	2	\rightarrow	
Lilability i actors							Statu							Futur	re plan (to				it i iai		Strate	eav.
							Siait	الع حد	uo						e Frame		ficien				Juan	-gy
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		#		External resources		Spare Parts		Tools & Equipment		Budget	ASSESSMENT	ASSESSMENT	In place?	S Me L	hort (1) edium (3) ong (5) None	RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment																		Gro				
Quantity: Assessment of Information Completeness		S	-1	S I	L	S	L	S	1	S I				1 :	3 5 N	*	*	*				
6.1 IS THERE A OPERATION & MAINTENANCE (Y/N):					,			•							V/N/N				0/		/ N.I	04
5.2 WATER SERVICES INFRASTRUCTURE: OPERATIONAL& MAINTENAM	ICE ASSESSMENT												_		Y/N/N	А			%	Υ,	/ N	%
5.2.1 Resources																						_
S.2.1.1 Existing Groundwater Infrastructure	: OPERATION	2	М	N/r N	lo :	2	М	2	М	2 C	40	40	У	У	уу	У	У	У	60	У	n	40
	: MAINTENANCE	2		N/r N						2 C	40	40	у		уу	у	у	у	60	у	n	40
2.1.2 Existing Surface water Infrastructure	: OPERATION	2	М	N/r N						2 C	40	40	у		уу	у	у	у	60	у	n	40
	: MAINTENANCE	2		N/r N						2 C	40	40	у		уу	у	у	у	60	у	n	40
6.2.1.3 Existing Waste Water Treatment Works Infrastructure	: OPERATION	2	М							2 C	40	40	у	у	уу	у	у	У	60	у	n	40
	: MAINTENANCE	2		N/r N		2				2 C		40	у		у у	у	У	у	60	у	n	40
5.2.1.4 Existing Water Treatment Works Infrastructure	: OPERATION	2	M							2 C	40	40	у	у	уу	у	У	у	60	у	n	40
	: MAINTENANCE	2	М	N/r N	10				М	2 C		40	у	У !	у у	У	У	у	60	у	n	40
S.2.1.5 Existing Pump Station Infrastructure	: OPERATION	2	М			2	М	2		2 C	40	40	У	у	уу	у	У	у	60	у	n	40
	: MAINTENANCE	2	М	N/r N	10	2 1	M	2	М	2 C	40	40	у	у	уу	у	У	у	60	У	n	40
5.2.1.6 Existing Bulk Pipeline Infrastructure	: OPERATION	2	М	N/r N	lo :	2	М	2	М	2 C	40	40	У	у	у у	у	у	у	60	у	n	40
	: MAINTENANCE	2	М	N/r N	lo :	2	М	2	М	2 C	40	40	У		у у	У	У	У	60	У	n	40
5.2.1.7 Existing Tower & Reservoir Infrastructure	: OPERATION	2	М	N/r N	lo :	2	М	2	М	2 C	40	40	У		уу	У	у	у	60	У	n	40
	: MAINTENANCE	2	М	N/r N						2 C	40	40	у		уу	у	у	у	60	у	n	40
5.2.1.8 Existing Reticulation Infrastructure	: OPERATION	2	М	N/r N	10	2	М	2	М	2 C	40	40	у	у	уу	У	у	у	60	у	n	40
	: MAINTENANCE	2	М	N/r N	10	2	М	2	М	2 C	40	40	У		у у	у		у	60	у	n	40
Sub Topic 6.2.1 Compliancy & Needs Development Plans Assessment											40%	40%							60%			40
COMMENTS																						



PUMELELA LOC	CAL MUNICIPALITY																		P 20			
σ \																			ion &		nten	ance
Enabling Factors						Com													t Plan			
						Stat	tus C	Quo	<u>.</u>					re plar						S	trate	gy
STATUS QUO (S) Z - Zero Compliance 1 - Below minimum requirement 2 - Minimum basic requirement 3 - Above minimum requirement N/R Not Required M - Mediumal/High L - Low No - No Impact		Manuals Available		Asset Register	S As-Built Info.	1	Tools &	Equipment	Contingency & Safety Plan	ASSESSMENT	ASSESSMENT	In place?	S Mi L	Short (1 edium (ong (5 None 3 5) 3)	Suffi	* Higher Level aio	t for Bevelopment *	ASSESSMENT	In place?	Sufficient	ASSESSMENT
6.2.2 Information		<u> </u>							I					<u> </u>								
6.2.2.1 Existing Groundwater Infrastructure	: OPERATION	2 N	И :	3 No	N/r	С	1	М	N/r C	40	60	у	у	у у		у	у	у	60	у	n	40
	: MAINTENANCE		И :				1	М	N/r C	40	60	у		у у		у	у	у	60	У	n	40
6.2.2.2 Existing Surface water Infrastructure	: OPERATION		И :			С	1		N/r C	40	60	у	-	уу		у	У	у	60	у	n	40
	: MAINTENANCE		И (N/r				N/r C	40	60	у		уу	_	у	у	у	60	y	n	40
6.2.2.3 Existing Water Treatment Works Infrastructure	: OPERATION				N/r		1		N/r C	40	60	у		уу		у	У	у	60	у	n	40
· ·	: MAINTENANCE					С	1		N/r C	40	60	у		уу		у	у	у	60	V	n	40
6.2.2.4 Existing Waste Water Treatment Works Infrastructure	: OPERATION					С	1		N/r C	40	60	V		уу		У	У	у	60	V	n	40
	: MAINTENANCE	2 N				С	1		N/r C	40	60	V	-	y y	_	V	٧	v	60	v	n	40
6.2.2.5 Existing Pump Station Infrastructure	: OPERATION	2 N	и :				1		N/r C	40	60	у	y	уу		y	у	у	60	у	n	40
	: MAINTENANCE						1		N/r C	40	60	У		уу		У	У	У	60	v	n	40
6.2.2.6 Existing Bulk Pipeline Infrastructure	: OPERATION					С	1		N/r C	40	60	У	у	уу		У	у	у	60	У	n	40
	: MAINTENANCE		И :			С	1		N/r C	40	60	У		уу		у	у	у	60	У	n	40
6.2.2.7 Existing Tower & Reservoir Infrastructure	: OPERATION		И :			С	1		N/r C	40	60	У		у у		у	у	у	60	У	n	40
	: MAINTENANCE		И :		N/r				N/r C	40	60	у		у у		у	у	у	60	у	n	40
6.2.2.8 Existing Reticulation Infrastructure	: OPERATION		И :		N/r		1		N/r C	40	60	у		у у		у	у	у	60	у	n	40
	: MAINTENANCE		И :		N/r				N/r C	40	60	у		у у		у		y	60	у	n	40
Sub Topic 6.2.2 Compliancy & Needs Development Plans Assessment										40%	60%			, ,					60%			40%
COMMENTS																						



PUMELELA LOCAL MUNICIPALITY																				WSI	DP 20	12		
Topic 6: Operation & Maintenance																							\neg	9
Enabling Factors							Coi	npli	ance)							Need	s Dev	elop	mer	it Pla	n		
							Sta	atus	Quo						Fut	ure p	olan (to	addre	ss is	sues)		5	Strate	gy
				а	D	S				જ	÷				Ti	me F	rame	Suf	ficier	t for				
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		Confederation	89 DD	Record keening in place	record recepting in place	Quality control procedures		:	Kisk Management	Reporting (data analysis &	ıerati	ASSESSMENT	ASSESSMENT	In place?	1	Long No	m (3) y (5) ne	RDP	* Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quantity: Assessment of Information Completeness		S	1	S	_	s	1	S	1	S	1					3	5 N	1						
Quality: Information Accuracy Assessment											-	%	%				Y/N/N	A			%	Y	/ N	%
6.2.3 Activity Control & Management									-															
6.2.3.1 Existing Groundwater Infrastructure	: OPERATION	2	М	2	М	2	М	1	М	2	М	50	60	у	у	у	у	у	у	у	60	У	n	40
	: MAINTENANCE	1	М	1	М	2	М	1	М	1	М	40	60	у	у	У	у	у	У	у	60	У	n	40
6.2.3.2 Existing Surface water Infrastructure	: OPERATION	2	М	2	М	2	М	1	М	2	М	50	60	у	у	У	У	У	у	у	60	У	n	40
	: MAINTENANCE	1	М	1	М	2	М	1	М	1	М	40	60	у	у	У	У	У	У	у	60	У	n	40
6.2.3.3 Existing Water Treatment Works Infrastructure	: OPERATION	2	М	2	М	2	М	1	М	2	М	50	60	у	у	у	У	у	у	у	60	у	n	40
	: MAINTENANCE	1	М	1	М	2	М	1	М	1	М	40	60	у	у	у	У	у	У	у	60	у	n	40
6.2.3.4 Existing Waste Water Treatment Works Infrastructure	: OPERATION	2	М	2	М	2	М	1	М	2	М	50	60	у	у	У	У	у	У	у	60	у	n	40
	: MAINTENANCE	1	М	1	М	2	М	1	М	1	М	40	60	у	у	у	У	у	у	у	60	у	n	40
6.2.3.5 Existing Pump Station Infrastructure	: OPERATION	2	М	2	М	2	М	1	М	2	М	50	60	у	у	у	У	у	у	у	60	у	n	40
	: MAINTENANCE	1	М	1	М	2	М	1	М	1	М	40	60	у	у	у	У	у	у	у	60	у	n	40
6.2.3.6 Existing Bulk Pipeline Infrastructure	: OPERATION	2	М	2	М	2	М	1	М	2	М	50	60	у	у	у	У	у	У	у	60	У	n	40
	: MAINTENANCE	1	М	1	М	2	М	1	М	1	М	40	60	у	у	у	У	у	у	у	60	у	n	40
6.2.3.7 Existing Tower & Reservoir Infrastructure	: OPERATION	2	М	2	М	2	М	1	М	2	М	50	60	у	у	у	У	у	У	у	60	У	n	40
	: MAINTENANCE	1	М	1	М	2	М	1	М	1	М	40	60	у	у	у	У	у	у	у	60	у	n	40
6.2.3.8 Existing Reticulation Infrastructure	: OPERATION	2	М	2	М	2	М	1	М	2	М	50	60	у	у	у	у	у	у	у	60	у	n	40
	: MAINTENANCE	1	М	1	М	2	М	1	М	1	М	40	60	у	у	у	У	у	у	у	60	у	n	40
Sub Topic 6.2.3 Compliancy & Needs Development Plans Assessment												45%	60%								60%			40%

COMMENTS

In all our assets in term of water and sewer, they are not properly maintained, but the municipality try their best to solve the problems encountered. There are however certain aspects not attended to. Some of our assets, like for instance the plant need upgrading and repair.



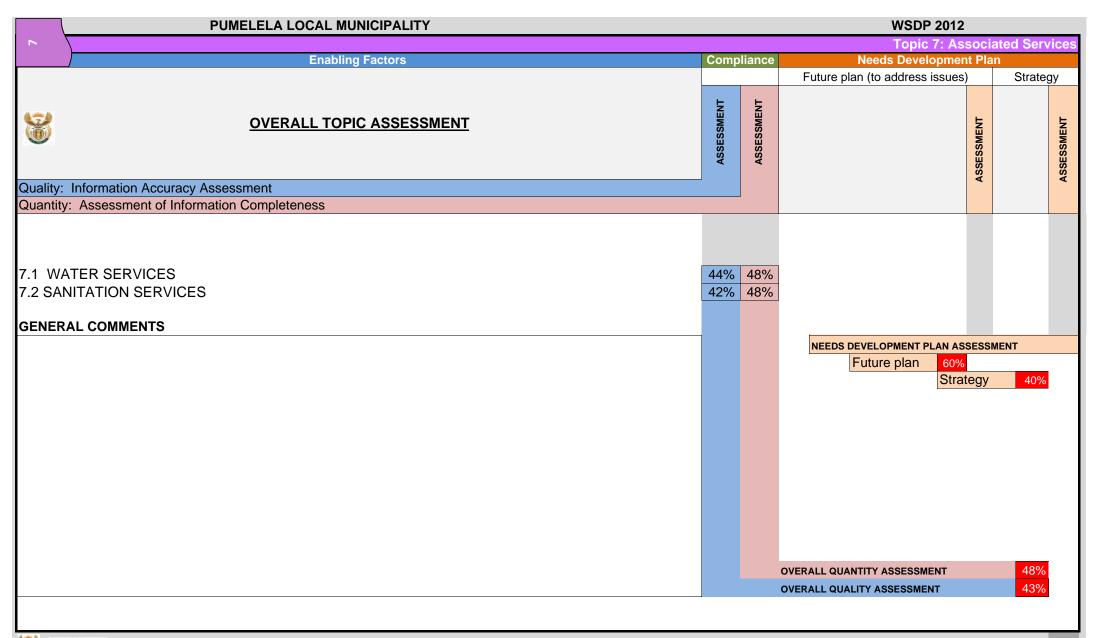
ELELA LOCAL MUNICIPALITY																W	SDP	2012		
υ \																: Oper			iinten	ance
Enabling Factors							nplian							Needs				lan		
							atus Qu	0						Future plan (to a					Strate	gy
STATUS QUO (S)		9	3	ace		pec	4							Time Frame	Suffi	icient fo	or			
Z - Zero Compliance 1 - Below minimum requirement 2 - Minimum basic requirement 3 - Above minimum requirement N/R Not Required C - Critical M - Mediumal/High L - Low No - No Impact		Dolivies & Drocedures	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Record keeping in Place	Quality Control	Procedures Establish	Risk Management		Reporting	ASSESSMENT		ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None	RDP	Higher Level Growth &	Development	In place?	Sufficient	ASSESSMENT
Quantity: Assessment of Information Completeness		S	-1	S I	S	-1	S	S		L				1 3 5 N	*	* *	۲			
Quality: Information Accuracy Assessment										%		%		Y / N / NA	4		%	6 Y	′/N	%
* 6.3 Water Supply and Quality	In Place Y / N																			
6.3.1 Water: Incident Management Protocol	n																			
6.3.2 Water: Process Control	n																			
6.3.3 Water: Monitoring Programme	n																			
6.3.4 Water: Sample Analysis (Credible: Scale 1 – 5 as per Blue Drop	0																			
requirements)	U																			
6.3.5 Water: Failure Response Management	n																		_	
6.3.6 Blue Drop Status	N	ΑE	DD S	CORE F	ROM	BLU	E DRO	P ST	ATL	JS 4	%	60%					60	0%		0%
* 6.4 Waste Water Supply and Quality	In Place																			
	Y/N																			
6.4.1 Waste Water: Incident Management Protocol	n																			
6.4.2 Waste Water: Process Control	n	4																		
6.4.3 Waste Water: Monitoring Programme	n																			
6.4.4 Waste Water: Sample Analysis (Credible: Scale 1 – 5 as per Green Drop requirements)	0																			
6.4.5 Waste Water: Failure Response Management	n																		_	
6.4.6 Green Drop Status	N	ADD	SCC	ORE FRO	OM G	REE	N DRO	P ST	ATL	JS 5	%	0%					60	0%		0%
6.1 OPERATION & MAINTENANCE PLAN 6.2.1 RESOURCES 6.2.2 INFORMATION 6.2.3 ACTIVITY CONTROL & MANAGEMENT 6.3 WATER SUPPLY AND QUALITY (BLUE DROP) 6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DROCOMMENTS	PP)									0% 40% 40% 45% 4% 5%	6 4 6 6	0% 40% 60% 60% 60% 0%			ture pl	lan	60 Str	_		24%
														OVERALL QUA						22%
														OVERALL QUA	NTITY	ASSESS	SMENT			37%



PUMELELA LOCAI	MUNICIPALITY											WS	DP 2	2012				
Topic 7: Associated Services	6																	7
		Enabling Factors	;			Comp	liance			1	Need:	s De	velo	pmer	it Pla	n		
								F		e plar)	(i)	Strate	ду
									Tin	ne Fra	ame	Sut	fficier	nt for				
	Resources available to pe	rform function? (Yes: Y	, No: N, Not Applicable	: NA):		ASSESSMENT	ASSESSMENT	In place?	M	Short (edium ong (None	(3) 5)	RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy						•	•					*	*	*	⋖			٨
Quantity: Assessment of Information	mation Completen	ess							1	3 5	5 N							
7.1 Water Services						%	%			Y	/ N / N.	A			%	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	102	102	11	0		40	60	у	у	уу	,	у	у	у	60	у	n	40
Tertiary education facility	0	0	0	0		0	0	у	у	у у	/	у	у	у	60	у	n	40
Total	102	102	11	0	0					<u> </u>	_					<u> </u>		
* 7.1.2 Health Plan																		
* Hospitals	1	1	0	0		60	60	у	у	у у	/	у	у	у	60	у	n	40
* Health centres	0	0	0	0		60	60	у	у	у у	/	у	у	у	60	у	n	40
* Clinics	6	6	0	0		60	60	у	у	у у		у	у	у	60	у	n	40
Total	7	7	0	0	0		'	•	•		<u> </u>							
Sub Topic 7.1 Compliancy & Needs Develo	opment Plans Assessmer	nt				44%	48%								60%			40%
7.2 Sanitation Services																		
7.2.1 Education Plan			1		1									Г	ı			
* Schools	102	31	47	71		30	60	у	У	у у		у	у	У	60	у	n	40
Tertiary education facility	0	0	0	0		0	0	у	у	уу	/	у	у	У	60	у	n	40
Total	102	31	47	71	0													
* 7.2.2 Health Plan			1		1					ı								
* Hospitals	1	1	0	0		60	60	у	у	у у		у	у	У	60	у	n	40
* Health centres	0	0	0	0		60	60	у	у	у у		у	у	У	60	у	n	40
* Clinics	6	6	0			60	60	у	у	у у	/	у	у	у	60	у	n	40
Total	7	7	0	0	0													
Sub Topic 7.2 Compliancy & Needs Development	opment Plans Assessmer	nt				42%	48%								60%			40%





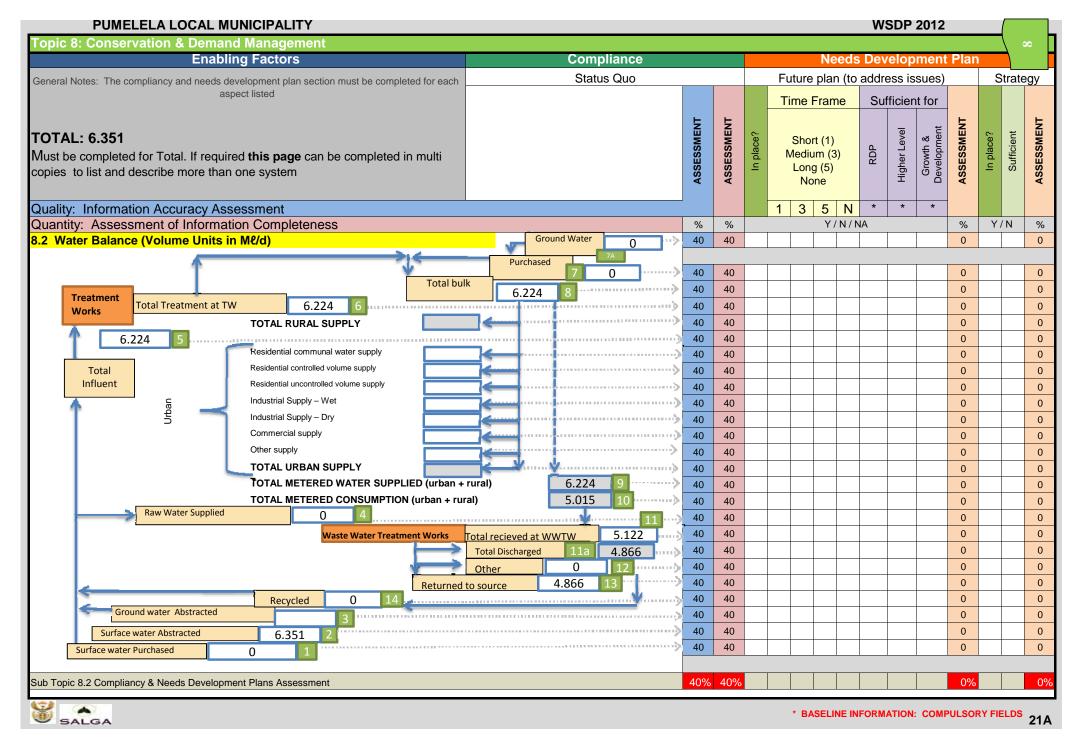


PUMELELA LOCAL MUNICIPALITY												WS	DP 2	2012			
Topic 8: Conservation & Demand Management																$\overline{}$	∞
Enabling Factors			Complia							Ne	eds	Deve	elopi	ment	Plan		
			Status Q	uo					Futu	ıre plar	า (to a					Str	ategy
									Tir	me Fra	me	Suf	ficier	nt for			
	Resources available to perform function? (Yes: Y, No: N, Partially: P, N/A: N/A):	Urban Set	tlements	Rural Se	ettlements	ASSESSMENT	ASSESSMENT	In place?	M	Short (1 ledium Long (5 None	(3) 5)	RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient ASSESSMENT
Quality: Information Accuracy Assessment	Res.	Number Of	% of Total	Number Of	% of Total					0 5	. 1	*	*	*			
Quantity: Assessment of Information Completeness	2								1	3 5	i N	Î	^	<u> </u>			
8.1 Water Resource Management Interventions						%	%			Y	/ N / N#	Ą			%	Y/N	۱ %
* 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	у					40	0	n							0		0
8.1.1.3 Reticulation leaks	n					0	0	n							0		0
8.1.1.4 Illegal connections	n					0	0	n							0		0
8.1.1.5 Un-metered connections	n					0	0	n							0		0
8.1.1.6 Internal plumbing leaks	у					40	0	n							0		0
* 8.1.2 Reducing high pressures for residential consumers Number of consumer units with water supply pressure of:					TOTAL	13%	0%								0%		0%
8.1.2.1 <300kPa						0	0										
8.1.2.2 300 –600kPa						0	0										
8.1.2.3 600 –900kPa						0	0	n							0		0
8.1.2.4 >900kPa (>9Bar)						0	0	n							0		0
* 8.1.3 Leak and meter repair programmes Consumer units targeted by:					TOTAL	0%	0%								0%		0%
8.1.3.1 Leak repair assistance programme	у					40	0	n							0		0
8.1.3.2 Retro-fitting of water efficient toilets	у					40	0	n							0		0
8.1.3.3 Meter repair programme Y/N: y						40	0	n							0		0
8.1.4 Consumer/end-use demand management: Public Information & Education Programmes					TOTAL		0%						ı		0%		0%
8.1.4.1 Schools targeted by education programmes	У					40	20	n						1	0		0
8.1.4.2 Consumers targeted by public information programmes	у					40	20	n						<u> </u>	0		0
* 8.1.4.3 IS THERE A OPERATION & MAINTENANCE PLAN?		(Y / N):	У			40%									0%		0%
Sub Topic 8.1 Compliancy & Needs Development Plans Assessment						23%	5%								0%		0%



	PUMELELA LOCAL MUNICIPALITY										พอบเ	2012				
∞									То	pic 8:	Conser	vation	& Der	nand I	lanag	ement
	Enabling Factors	Con	nplian	ce					Need	ds Dev	elopme	nt Plar	1			
		Sta	tus Qu	0			Futu	re plan	(to a	ddress i	ssues)				Strateg	y
							Time F	Frame		S	ufficient	for				
		Number of Settlements	ASSESSMENT	ASSESSMENT	In place?		Shor Mediu Long No	ım (3) g (5)		RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
		qwn	ĕ	ĕ							-	rowt	ĕ			¥
Quality: Info	ormation Accuracy Assessment	Z				1	3	5	N			Ö				
	sessment of Information Completeness									*	*	*				
,		Number of	%	%			1	Y / N	I/NA				%	Y	' N	%
8.1.5 Conjunctiv	ve use of surface – and groundwater															
Ground Water																
Surface Water		7														
Conjuctive Use																
Artificial Recharç	ge	0														
Rain Water Harv	vesting	0														
8.1.6 Working fo	or Water	Is the	re a Wor	king for V	Vater Pro	gramme	in Place:		(Y/N):						
Provide List of P	rojects:									<u> </u>						
1)																
2)																
3)																
4)																
5)																
6)																
7)																
Comments																
	ntly WC/WDM plans to reduce water losses and monitor leakages and to improve the water use effice met by surface water resources. The municipality does utilise own revenue for infrastructure. Then										ater requi	ements h	ave beer	n met and	will in	





Enabling Factors	Compliance	Needs Development	Plan
General Notes: The compliancy and needs development plan section must be completed for each	Status Quo	Future plan (to address issues)	Strategy
aspect listed		Time Frame Sufficient for	
TOTAL: 6.351	ASSESSMENT	Growth & Development Growth & Growth & Development Growth & G	ASSESSMENT In place? Sufficient ASSESSMENT
Must be completed for Total. If required this page can be completed in multi		Long (5)	Suff Suff
copies to list and describe more than one system	AS	None	AS
Quality: Information Accuracy Assessment		1 3 5 N * * *	
Quantity: Assessment of Information Completeness	% 0	% Y/N/NA	% Y/N %
8.3 Water Losses			
8.3.1 ●- Raw Water Bulk Loss			
Raw Water at - Water Bulk - Raw Water Treatment - Water Bulk - Supplied Received	% LOSS		
5 - (1+2+3+14) - 4			
6.224 - 6.351 - 0.000 =	-0.12702 -2%	40	0 0
8.3.2 •- Treated Water Loss :Bulk			
Total Metered Supplied - (Total Treated at Treated Water + Purcha	ased Treated Water)		
9 - 8			
6.224 6.224 =	0 0%	40	0 0
8.3.3 ● - Treated Water Loss :Internal			
Metered Consumption - Metered Supplied			
10 - 9			
5.015 - 6.224 =	-1.208827 -19% 40 4	40	0 0
8.3.4 • - Water Balance Bulk Usage + Discharged			
Bulk /\ Usage + Discharged Input (1+2+3+7+7a)-4 - 9 + 13	Value		
6.351 6.224 4.866		40	0 0
0.331 0.224 4.800	7.3331214	1	0
Sub Topic 8.3 Compliancy & Needs Development Plans Assessment	40% 4	0%	0%

PUMELELA LOCAL MUNICIPALITY							VVS	שטפ	2012		- 1		
Topic 8: Conservation & Demand Management												×	
Enabling Factors	Compliance				Ne	eds	Deve	lopn	nent F	Plan			
General Notes: The compliancy and needs development plan section must be completed for each	Status Quo				Future plar	n (to a	addre	ss iss	ues)		Str	ateg	y
aspect listed					Time Fran	ne	Suf	ficien	t for				
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?	Short (1) Medium (3 Long (5) None	3)	RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment					1 3 5	N	*	*	*		24.1		
Quantity: Assessment of Information Completeness	Ground Water	%	%		Y	/ N / N	IA			%	Υ/	N	%
8.2 Water Balance (Volume Units in Mℓ/d)	70												
1	Purchased					T I							
Total bul	lk												
Treatment Total Treatment at TW	8												
TOTAL RURAL SUPPLY	—												
TOTAL ROTAL COLLET													
Residential communal water supply	7												
Total Residential controlled volume supply	()												
Influent Residential uncontrolled volume supply	——————————————————————————————————————												
Industrial Supply – Wet)												
Industrial Supply – Wet Industrial Supply – Dry	()												
Commercial supply	———												
Other supply	—												
TOTAL URBAN SUPPLY													
TOTAL METERED WATER SUPPLIED (urban +	rural) 9												
TOTAL METERED CONSUMPTION (urban + rur	ral) 10												
Raw Water Supplied 4													
Waste Water Treatment Works	Total recieved at WWTW												
	Total Discharged 11a												
	Other 12												
Returned	to source 13												
Recycled 14													
Surface water Abstracted 2	·····												
Surface water Purchased 1	2												
		004	00/							004			004
Sub Topic 8.2 Compliancy & Needs Development Plans Assessment		0%	0%							0%			0%



PUMELELA LOCAL MUNICIPALITY					WS	DP 2012	2		
∞ \			Top	oic 8: Conserva	ation 8	& Dema	nd M	anaç	jement
Enabling Factors	Compliance			Needs	Devel	lopment	Plar		
General Notes: The compliancy and needs development plan section must be completed for each	Status Quo			Future plan (to	addres	ss issues)		St	ategy
aspect listed				Time Frame	Suffi	icient for			
TOTAL: 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		ASSESSMENT ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None	Basic *	* Higher Level * Growth & Development	ASSESSMENT	In place?	Sufficient ASSESSMENT
Quantity: Assessment of Information Completeness		% %		Y/N/N	NA A		%	Υ/	N %
8.3 Water Losses 8.3.1 •- Raw Water Bulk Loss Raw Water at Treatment 5 - (1+2+3+14) - 4	% LOSS = urchased Treated Water) =								
8.3.3 • - Treated Water Loss: Interna Metered Consumption - Metered Supplied 10 - 9 - Sulk Usage + Discharged Input (1+2+3+7+7a)-4 - 9 + 13 Sub Topic 8.3 Compliancy & Needs Development Plans Assessment	- Value	0% 0%					0%		0%

PUMELELA LOCAL MUNICIPALITY							VVS	שטפ	2012		- (
Topic 8: Conservation & Demand Management												×	
Enabling Factors	Compliance				Ne	eds	Deve	lopn	nent F	Plan			
General Notes: The compliancy and needs development plan section must be completed for each	Status Quo				Future plar	າ (to a	addre	ss iss	ues)		Str	ateg	y
aspect listed					Time Fran	ne	Suf	ficien	t for				
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?	Short (1) Medium (3 Long (5) None	3)	RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment					1 3 5	N	*	*	*		24.4		
Quantity: Assessment of Information Completeness	Ground Water	%	%		Υ.	/ N / N	IA			%	Υ/	N	%
8.2 Water Balance (Volume Units in Mℓ/d)	70												
1	Purchased					T							
Total bul	k												
Treatment Total Treatment at TW	8												
TOTAL RURAL SUPPLY													
101AE ROMAE GOTTET													
Residential communal water supply	7												
Total Residential controlled volume supply													
Influent Residential uncontrolled volume supply	—												
Industrial Supply – Wet	()												
Industrial Supply – Wet Industrial Supply – Dry													
Commercial supply	()												
Other supply	—												
TOTAL URBAN SUPPLY	─												
TOTAL METERED WATER SUPPLIED (urban +	rural) 9												
TOTAL METERED CONSUMPTION (urban + rur	al) 10												
Raw Water Supplied 4													
Waste Water Treatment Works	Total recieved at WWTW												
	Total Discharged 11a												
	Other 12												
Returned	to source 13												
Recycled 14													
Ground water Abstracted 3													
Surface water Abstracted 2													
Surface water Purchased 1													
										207			
Sub Topic 8.2 Compliancy & Needs Development Plans Assessment		0%	0%							0%			0%



	PUMELELA LOCAL MUNICIPALITY						W	SDP 2	2012			
· · · ·				1	Горі	ic 8: Conserva	ation	& De	man	d Mai	nagen	nent
	Enabling Factors	Compliance				Needs	Deve	lopm	ent l	Plan		
General	Notes: The compliancy and needs development plan section must be completed for each	Status Quo				Future plan (to	addre	ss iss	ues)		Strate	gy
	aspect listed					Time Frame	Suf	ficient	for			
									nent			
ТОТА			ASSESSMENT	ASSESSMENT	.e.	Short (1)	O	Higher Level	Growth & Development	ASSESSMENT	Sufficient	ASSESSMENT
	e completed for Total. If required this page can be completed in multi		SS	SS	place?	Medium (3)	Basic	Jer I	De	SS	place?	SS
copies	to list and describe more than one system		SSI	SSI	=	Long (5) None	_	Hig	₽ &	SSI	≣ ଉ	SSI
						None			Grow			•
Quality	: Information Accuracy Assessment					1 3 5 N	*	*	*			
Quanti	ty: Assessment of Information Completeness		%	%		Y/N/N	1A			%	Y/N	%
0 2 \Ma	nter Losses											
	3.1 •- Raw Water Bulk Loss											
	Total Raw											
	Raw Water at - Water Bulk - Supplied Received	% LOSS										
	5 - (1+2+3+14) - 4											
		=										
8	.3.2 ●- Treated Water Loss :Bulk											
	Total Metered Supplied - (Total Treated at Treated Water + P	Purchased Treated Water)										
	9 - 8											
		=										
8	.3.3 ● - Treated Water Loss :Interna											
	Metered Consumption - Metered Supplied											
	10 - 9											
		=										
8	Bulk Usage + Discharged											
	Input (1+2+3+7+7a)-4 - 9 + 13	Value										
	. (1121011114) 4											
O l. T	a C. 2 Compliance: 9 Needs Development Plans Assessment		00/	00/						00/		00/

PUMELELA LOCAL MUNICIPALITY							VVS	שטפ	2012		- (
Topic 8: Conservation & Demand Management												×	
Enabling Factors	Compliance				Ne	eds	Deve	lopn	nent F	Plan			
General Notes: The compliancy and needs development plan section must be completed for each	Status Quo				Future plar	າ (to a	addre	ss iss	ues)		Str	ateg	y
aspect listed					Time Fran	ne	Suf	ficien	t for				
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?	Short (1) Medium (3 Long (5) None	3)	RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment					1 3 5	N	*	*	*		24.4		
Quantity: Assessment of Information Completeness	Ground Water	%	%		Υ.	/ N / N	IA			%	Υ/	N	%
8.2 Water Balance (Volume Units in Mℓ/d)	70												
1	Purchased					T							
Total bul	k												
Treatment Total Treatment at TW	8												
TOTAL RURAL SUPPLY													
101AE ROMAE GOTTET													
Residential communal water supply	7												
Total Residential controlled volume supply													
Influent Residential uncontrolled volume supply	—												
Industrial Supply – Wet	()												
Industrial Supply – Wet Industrial Supply – Dry													
Commercial supply	()												
Other supply	—												
TOTAL URBAN SUPPLY	——————————————————————————————————————												
TOTAL METERED WATER SUPPLIED (urban +	rural) 9												
TOTAL METERED CONSUMPTION (urban + rur	al) 10												
Raw Water Supplied 4													
Waste Water Treatment Works	Total recieved at WWTW												
	Total Discharged 11a												
	Other 12												
Returned	to source 13												
Recycled 14													
Ground water Abstracted 3													
Surface water Abstracted 2													
Surface water Purchased 1													
										207			
Sub Topic 8.2 Compliancy & Needs Development Plans Assessment		0%	0%							0%			0%



PUMELELA LOCAL MUNICIPALITY				WSDP 201	12		
_ ∞		То	pic 8: Conserva	tion & Dema	and Ma	anagei	nent
Enabling Factors	Compliance		Needs	Developmen	nt Plan		
General Notes: The compliancy and needs development plan section must be completed for each	Status Quo		Future plan (to a	address issues	s)	Strat	egy
aspect listed			Time Frame	Sufficient for			
TOTAL: 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		ASSESSMENT ASSESSMENT In place?	Short (1) Medium (3) Long (5) None	* Basic * Higher Level * Growth & Development		In place?	ASSESSMENT
Quantity: Assessment of Information Completeness		% %	Y/N/N	ıA	%	Y/N	%
8.3 Water Losses 8.3.1 •- Raw Water Bulk Loss Raw Water at Treatment - Water Bulk - Supplied 5 - (1+2+3+14) - 4	% LOSS = *urchased Treated Water) =						
8.3.3 • - Treated Water Loss :Interna Metered Consumption - Metered Supplied 10 - 9 - Supplied 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%

PUMELELA LOCAL MUNICIPALITY							VVS	שטפ	2012		- (
Topic 8: Conservation & Demand Management												×	
Enabling Factors	Compliance				Ne	eds	Deve	lopn	nent F	Plan			
General Notes: The compliancy and needs development plan section must be completed for each	Status Quo				Future plar	າ (to a	addre	ss iss	ues)		Str	ateg	y
aspect listed					Time Fran	ne	Suf	ficien	t for				
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?	Short (1) Medium (3 Long (5) None	3)	RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment					1 3 5	N	*	*	*		24.4		
Quantity: Assessment of Information Completeness	Ground Water	%	%		Υ.	/ N / N	IA			%	Υ/	N	%
8.2 Water Balance (Volume Units in Mℓ/d)	70												
1	Purchased					T							
Total bul	k												
Treatment Total Treatment at TW	8												
TOTAL RURAL SUPPLY													
101AE ROMAE GOTTET													
Residential communal water supply	7												
Total Residential controlled volume supply													
Influent Residential uncontrolled volume supply	—												
Industrial Supply – Wet	()												
Industrial Supply – Wet Industrial Supply – Dry													
Commercial supply	()												
Other supply	—												
TOTAL URBAN SUPPLY	——————————————————————————————————————												
TOTAL METERED WATER SUPPLIED (urban +	rural) 9												
TOTAL METERED CONSUMPTION (urban + rur	al) 10												
Raw Water Supplied 4													
Waste Water Treatment Works	Total recieved at WWTW												
	Total Discharged 11a												
	Other 12												
Returned	to source 13												
Recycled 14													
Ground water Abstracted 3													
Surface water Abstracted 2													
Surface water Purchased 1													
										207			
Sub Topic 8.2 Compliancy & Needs Development Plans Assessment		0%	0%							0%			0%



PUMELELA LOCAL MUNICIPALITY WSDP 2012										
∞	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 Status Quo	Future plan (to address issues) Strategy									
aspect listed	Time Frame Sufficient for									
TOTAL: 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	ASSESSMENT									
Quantity: Assessment of Information Completeness	% % Y/N/NA % Y/N %									
8.3.1 • Raw Water Bulk Loss Raw Water at Treatment 5 - (1+2+3+14) - 4										
8.3.3 • - Treated Water Loss: Interna Metered Consumption - Metered Supplied 10 - 9 -	0% 0%									

PUMELELA LOCAL MUNICIPALITY			PUME	LELA LOCAL MUNICIPALITY			
Topic 8: Conservation & Demand Management						∞ ∞	
Enabling Factors	Compliance			Needs Developme	nt Pla	n	
	Status Quo			Future plan (to address issues	s)	Strategy	<u>/</u>
OVERALL TOPIC ASSESSME Quality: Information Accuracy Assessment	<u>:NT</u>	ASSESSMENT	ASSESSMENT		ASSESSMENT	PAGE	ASSESSMENT
Quantity: Assessment of Information Completeness							
8.1 WATER RESOURCE MANAGEMENT INTERVENTION 8.2 WATER BALANCE 8.3 WATER LOSSES Comments	ONS	23% 40% 40%	40%	NEEDS DEVELOPMENT PLA Future plan	0% Stra	ategy 0	19/
				OVERALL QUALIT			4%
				OVERALL QUANTII	Y ASSI	ESSMENT 28	8%

Topic 9: Water Resources

* 9.1 Sources & Volumes

* CURRENT Water sources	* Number of sources	* Current abstraction (Mm³/A)	* Licensed abstraction (Mm³/A)		nity water oply
(Mm ⁴ /A) (Mm ⁴ /A)		, ,			
Rural Urba	Rural Urba	Rural Urba	Rural Urba	Urba	ın
				Rurai	Urban
	21				
	3	3.54			
ources (Bulk purchase)	0				
urned to source	0				
c 9.1 Compliancy & Needs De	evelonment Plans	Assessment	<u> </u>	1	1

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

											-					
Enabling Factors		Compl	iance	:					ds De			Plan				
		Status	Quo				Future	plan (t	o addr	ess iss	ues)			St	trateg	/
		Otatao	Q 00				Time I	Frame		Su	fficient	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%	Budget, Tools & Equipment & Personnel	ASSESSMENT	ASSESSMENT	In place?		Shoi Mediu Long No	ım (3) g (5)		RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment		Budg & Pe				1	3	5	N	*	*	*				
Quantity: Assessment of Information Completeness		Y/N/NA	%	%				Y/N/	NA				%	Υ/	N	%
9.2 Monitoring	Is there a Monito	ring Plan in	Place	(Y)	/ N):	у										
9.2.1 % of water abstracted monitored: Surface water			0	0	у	у	у	у		у	у	у	60	у	n	40
9.2.2 % of water abstracted monitored: Groundwater			0	0	у	у	у	у		у	у	у	60	у	n	40
9.2.3 % of water abstracted monitored: External Sources (Bulk purchase)			0	0	у	у	у	у		у	у	у	60	у	n	40
9.2.4 Water levels (1: daily, 2: weekly, 3: monthly, 4: annually, 5: never)			0	0	у	у	у	у		у	у	у	60	у	n	40
9.2.5 Water quality? (1: daily, 2: weekly, 3: monthly, 4: annually, 5: never)			0	0	у	у	у	у		у	у	у	60	у	n	40
9.2.6 Borehole abstraction? (1: daily, 2: weekly, 3: monthly, 4: annually, 5: never)			0	0	у	у	у	у		у	у	у	60	у	n	40
* 9.2.7 % Compliance to drinking water acceptable limits					у	у	у	у		у	у	у	60	у	n	40
* 9.2.8 % Compliance to effluent release acceptable limits					у	у	у	у		у	у	у	60	у	n	40
9.2.9 Number of monitoring points for drinking water sufficient			0	0	у	у	у	у		у	у	у	60	у	n	40
9.2.10 Number of monitoring points for effluent release sufficient			0	0	у	у	у	у		у	у	у	60	у	n	40
Sub Topic 9.2 Compliancy & Needs Development Plans Assessment			0%	0%		•							60%			40%



PUMELELA LOCAL MUNICIPALITY											٧	VSDP	2012				
Topic 9: Water Resources																\	
Enabling Factors			Compli	iance					Ne	eds De	evelo	pmen	t Plan				
			Status	Quo				Future	plan (to addr	ess iss	sues)			St	rateg	,
			t &					Time F	rame		Su	fficient	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%	lace? Y/N	Budget, Tools & Equipment Personnel	ASSESSMENT	ASSESSMENT	In place?		Shor Mediu Long No	ım (3) g (5)		RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment		In P	Bud				1	3	5	N	*	*	*				
Quantity: Assessment of Information Completeness			Y/N/NA	%	%				Y/N/	/ NA				%	Υ/	'N	%
9.3 Water Quality	Is there a Wa	ter (Quality Plan	in Pl	ace (Y / N):		у									
9.3.1 Reporting on quality of water taken from source: urban & rural				0	0	у	у	у	у		у	у	у	60	у	n	40
9.3.2 Quality of water returned to the resource: urban				0	0	у	У	у	у		у	у	у	60	у	n	40
9.3.3 Quality of water returned to the resource: rural				0	0	у	У	у	у		у	у	у	60	у	n	40
9.3.4 Is there a Pollution contingency measures plan in place?				0	0	у	У	у	у		у	у	у	60	у	n	40
9.3.5 Quality of water taken from source: urban - % monitored by WSA self?				0	0	у	У	у	у		у	у	у	60	у	n	40
9.3.6 Quality of water taken from source: rural - % monitored by WSA self?				0	0	у	У	у	у		у	у	у	60	у	n	40
9.3.7 Quality of water returned to the source: urban - % monitored by WSA self?				0	0	у	у	у	у		у	у	у	60	у	n	40
9.3.8 Quality of water returned to the source: rural - % monitored by WSA self?				0	0	у	у	у	у		у	у	у	60	у	n	40
9.3.9 Are these results available in electronic format? (Yes/no)		у		60	60	У	У	У	у		у	у	у	60	у	n	40
9.3.10 % Time (days) within SABS 241 standards per year				0	0	у	у	у	у		у	у	у	60	у	n	40

General Comments

Sub Topic 9.3 Compliancy & Needs Development Plans Assessment

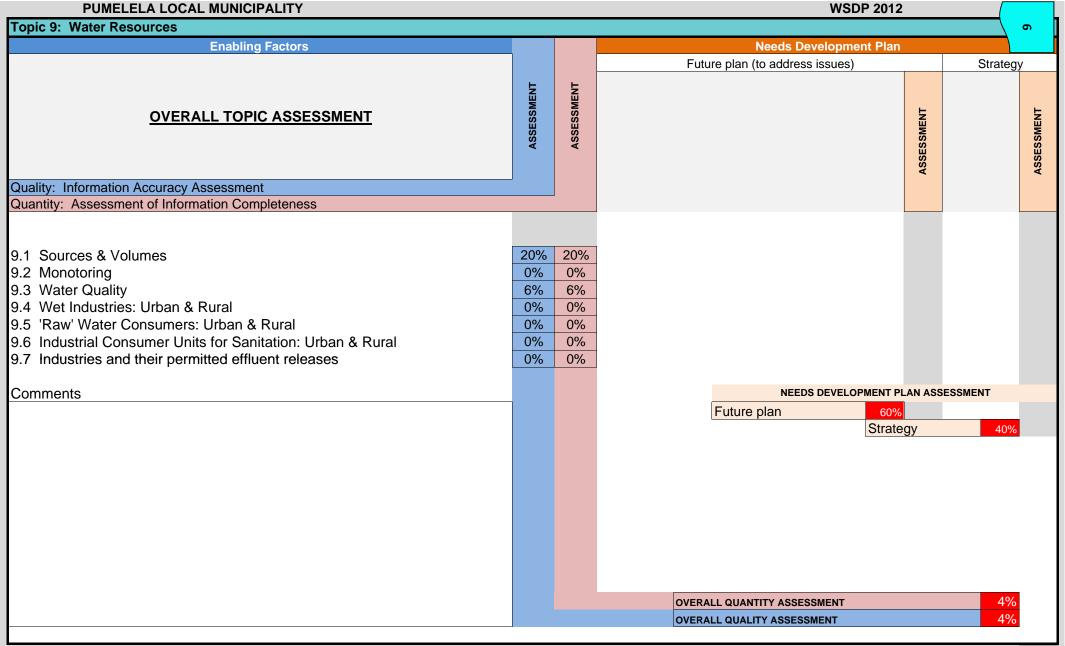
The abstraction volumes in all instances are not available. There is no full coverage of the metering system as recommended in the IWRM Guidelines for WC/WDM (DWAF, 2004). Where meters exist they are not read diligently. The Blue Drop and Green Drop status is way below acceptable and on RPMS the status of the WSA is 'crisis' in general. These issues are however being addressed by the WSA. The municipality has prioritised the allocation of funds to implement WC/WDM management measures as a priority activity.

6%











10.1 Capital Funds

	·				Trading Se	rvices				
		Housing	Environmental Protection	Waste Management (solid waste)	Waste water management	Road transport	Water	Electricity	Other Trading Services	Grand Total
10.1.1 Income		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

The Finance Dept in the municipality responded that this form is too difficult for them to understand. They therefor were unable to complete it.

PUMELELA LOCAL MUNICIPALITY													WSD	P 201	2			
Topic 10: Financial Profile																	$\overline{}$	10
Enabling Factors				С	ompliance							Needs	Devel	opme	nt Pla	n		
				5	Status Quo						Future	plan (to	address	issues	,)	Strate	egy	
		Wa	ater			Sanit	ation		ASSESSMENT	ASSESSMENT	Sh Med Lo	ort (1) lium (3) ng (5) Jone	Suffi	igher Level Growth &	ent T	In place? Sufficient	ASSESSMENT	
Quality: Information Accuracy Assessment	11.	ban	D.	ural	Llei	ban	D	ural					*	* *				
Quantity: Assessment of Information Completeness	UI	Dan	K	urai	UII	Dan	K	urai			1 3	5 I	N					
	Value Spend	% of Allocation	%	%		Y/N/I	NA		%	Y/N	%							
* 10.1.2 Capital Expenditure % Allocation	on spend in	last financia	l year															
	Values to be	given in R millio	n															
Regional Bulk									0	0					0		0	
nternal Bulk									0	0					0		0	
Reticulation									0	0					0		0	
Backlog Eradication									0	0					0		0	
Total cost									0	0					0		0	
Sub Topic 10.1 Compliancy & Needs Development Plans Assessment									0%	0%					0%		0%	
10.2 Operation & Maintenance Budget																		

WATER										
	ITEM		BUDGET							
		(R million)							
	Sales, other	R	5.16							
Income:	Grants, subsidies, and other	R	9.91							
	Other income	R	-0.31							
	Total Income	R	14.75							
	Employee related cost (salaries, allowances, bonuses, medical, pension etc.)	R	2.16							
	Bulk water purchases	R	0.65							
	General expenditure	R	4.70							
Expenditure:	Municipal rates and services	R	-							
experiantic.	Operation and Maintenance cost	R	-							
	Depreciation and financial cost	R	2.00							
	Total Expenditure	R	9.51							
	Surplus/Deficit	_	E 24							

SANITATION										
	ITEM	E	BUDGET							
		(F	R million)							
	Sales, other	R	5.31							
Income:	Grants, subsidies, and other	R	8.20							
	Other income	R	0.74							
	Total Income	R	14.25							
	Employee related cost (salaries, allowances, bonuses, medical, pension etc.)	R	4.10							
	Bulk waste water charges (external waste water treatment)	R	0.20							
	General expenditure	R	4.24							
Expenditure:	Municipal rates and services	R	-							
	Operation and Maintenance cost	R	-							
	Depreciation and financial cost	R	2.00							
	Total Expenditure	R	10.54							
	Surplus/Deficit	R	3.71							

Sub Topic 10.2 Assessment of the Existance and Status of a Proper Budget

Add scores for Water and Sanitation Budget 0% 0%

Comments

The Finance Dept in the municipality responded that this form is too difficult for them to understand. They therefor were unable to complete it.

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.

PUMELELA LOCAL MUNICIPALITY																\	<u>NSD</u>	P 20	12			
01																	To	oic 1	0: Fi	nanci	ial Pr	ofile
Enabling Factors					C	omplian	се								Nee	eds D	evel	opm	ent P	lan		
					S	Status Qu	10							Future	plan	(to add	dress	issu	es)		Strate	gy
						Volume	Charges							Tim	e Frar	me	Suffi	cient	for			
	Fixe	d Tariff			T	Volumo	Onargoo		ı										ent			
			Block Def	nition 1 KI	Block Defi	nition 2 KI	Block Defi	nition 3 KI	Block Defi	nition 4 KI	F	Ā						<u></u>	mdc F		l	Ę
				from: 0 to	per mon		per mon		per mon	th from:	Ä	ME	ice?		hort (1)		_	Lev	Developmen	ice?	ient	Ä
	Current	Previous	999	1999	t	0	t	0	t	0	ESS	ESS	In place?		dium (RDP	Higher Level	P P	n place?	Sufficient	ESS
	Odificit	Ticvious									ASSESSMENT	ASSESSMENT	_		ong (5) None)		Hig	wth & Developm	3 =	S	ASSESSMENT
Quality: Information Accuracy Assessment	Year	Year	Current	Previous	Current	Previous	Current	Previous	Current	Previous		,			110110				Growth & I	`		`
· · · · · · · · · · · · · · · · · · ·	2011	2010											-	1	3 5	5 N	*	*	*			
Quantity: Assessment of Information Completeness	2011	2010			Y/N	/ NA					%	%				N / NA			9	6 Y	′/N	%
10.3 Tariff & Charges	Is there	e a Tariff	& Charg	es Plan	in Place	for (Y/	N):	V			60	60	v	v v	v		٧V	/ \		0 v	n	40
10.3.1 Residential					urrent an			ncial Yea	irs													
Water Communal Water Supply			6.73	6.11							60	60	у	у у	/ у		у	у	у 6	0 у	n	40
Controlled Volume Supply											60	60	у		/ y			_	у 6	0 y	n	40
Uncontrolled Volume Supply	47.05	42.77									60	60	у		/ у			у	у 6	0 у	n	40
Sanitation On site dry					,						60	60	у	у у	/ у			у	у 6	0 у	n	40
On site wet (conservancy tanks etc.)	250.8	228									60	60	у	у у	/ у		у	у	у 6	0 у	n	40
Water borne reticulated sanitation	73.27	66.6									60	60	у	у у	/ у		у	у	у 6	0 у	n	40
Enabling Factors					Co	omplian	се								Nee	eds D	evel	mac	ent P	lan		
						Status Qu								Needs Development F Future plan (to adress issues)						Strate	αv	
						naius Qu	10							Time Frame			,				Otrate	ЭУ
						Volume	Charges						-	1 11111	CTTAI	iiic	Juin		7			
	Fixe	d Tariff									⊨	⊨							E L			E
			Block Def		Block Defi		Block Defi		Block Defi		Ē	Æ	e?	S	hort (1))		eve	Developn	e?	aut	Ē
			per mor	th from: o	per mon	th from: o	per mon		per mon	th from:	SSI	SSI	In place?		dium (RDP	i L	Dev	place?	Sufficient	SSI
	Current	Previous		0		0		J		0	ASSESSMENT	ASSESSMENT	⊑		ong (5))	œ	Higher Level	wth & Developm	=	NS.	ASSESSMENT
											¥	Ä			None			T	Growth &	ŧ		¥
Quality: Information Accuracy Assessment	Year	Year	Current	Previous	Current	Previous	Current	Previous	Current	Previous									قَ			
Quantity: Assessment of Information Completeness	2011	2010												1		5 N	*	*	*			
					Y/N						%	%			1 / Y	N / NA			9	6 Y	//N	%
10.3.2 Industrial	Values	to be giv	en in R /	kl for C	urrent an	d Previo	us Finar	icial Yea	irs				ı			1 1						
Water Industrial											60	60	у		/ у		у	-	у 6		n	40
Sanitation Industrial											60	60	у	у	/ у		у	у	у 6	0 у	n	40
•																						
Comment																						



PUMELELA LOCAL MUN	NICIPALITY																WSI	JP 201	12			
Горіс 10: Financial Profile																						19
Enabling Factor	S					С	ompliar	се								Needs	Deve	opme	ent F	Plan		<u> </u>
						,	Status Qu	0						F	uture	plan (to a	addres	s issue	es)		Strat	tegy
		_					Volume	Charges							Time	Frame	Suff	ficient f				
		Fixed	Tariff		inition 1 Kl h from: 0		finition 2 KI	Block Defi	inition 3 KI	Block Defin		MENT	MENT	place?		ort (1)		Level	Development	MENT	place?	MENT
		Current	Previous	to 99	99999		to	t	0	to	0	ASSESSMENT	ASSESSMENT	In pla	Lo	lium (3) ng (5) Ione	RDP	F o	Growth & De		In place?	ASSESSMENT
Quality: Information Accuracy Assessi	ment	Year	Year	Current	Previous	Current	Previous	Current	Previous	Current	Previous								Gro			
Quantity: Assessment of Information (Completeness	2011	2010												1 :	3 5 N	*	*	*			
Quantity. Assessment of information C	Completeness					Y / N	N / NA					%	%		·	Y/N/N	Α			%	Y/N	%
10.3.3 Commercial	١	/alues t	to be giv	en in R /	kl for C	urrent ai	nd Previo	us Fina	ncial Yea	ars												
Water Commercial				8.49	7.72							60	60	у :	/ у	у	у	у	у (60	y n	40
Sanitation Commercial				248.36	225.79							60	60	у :	/ у	у	у	у	у (60	y n	40
						;	Status Qu	10						F	uture	plan (to	adress	issue	s)		Strat	tegy
							Valuma	Charges							Time	Frame	Suff	ficient f	for			
		Fixed	l Tariff				volume	Charges											ent			
		rixeu	ı raiiii	5 5 .		5 5		5 5 .		5 5		Þ	Þ					<u> </u>	ğ.	5		F
				per monti	inition 1 KI		finition 2 KI onth from:	per mon		Block Defin		Ē	ME	3e?	Sh	ort (1)		e -	Development	Ė	In place?	ME
					99999		to		0	to	0	SS	SSI	In place?		lium (3)	RDP	l je l	De	SS	In place?	SSI
		Current	Previous				1		ı			ASSESSMENT	ASSESSMENT	=		ng (5)		Higher Level	Growth &	ASSESSMENT	⊒ Su	ASSESSMENT
												ĕ	ĕ		N	lone			IVO I	Ä		ă
Quality: Information Accuracy Assessi	ment	Year	Year	Current	Previous	Current	Previous	Current	Previous	Current	Previous					. 1						
Quantity: Assessment of Information (Completeness	2011	2010												1 :	3 5 N		*	*			
							N / NA					%	%			Y/N/N	A			%	Y/N	%
10.3.4 Other	\	/alues t	to be giv		1	urrent aı	nd Previo	us Fina	ncial Yea	ars												
Vater				4.61	4.18							60	60	у :		У	у		_		y n	
Sanitation												60	60	у :	/ у	у	у	у	y (60	y n	40
																	$\perp \!\!\! \perp \!\!\! \perp$	Ш				
Sub Topic 10.3 Compliancy & Needs Development F												60%							6	60%		40%
10.4 Free Basic Services					rvices Po	olicy in F	Place (Y					60	60									
10.4.1 Subsidy Targeting Approach		% of H	H Targeted	Water		T	% of HH	Targeted: S	Sanitation	T I												
Rising block tariff												0	0							0		0
Service level targeting												0	0						_	0		0
Credits to Water account												0	0							0		0
Credits to Sanitation account												0	0							0		0
Number of units requiring free basic services (Water	er)											0	0							0		0
Number of units requiring free basic services (Sani	tation)											0	0							0		0
Number of units with access to free basic services												0	0							0		0
Sub Topic 10.4 Compliancy & Needs Development F	Plans Assessment											8%	8%							0%		0%
Comment																						
All Tariffe and task to CMA	T. The Cofement Comm. P.				b	0.0																
All Tariffs are inclusive of VA	0	•			•		J Though		ا عمد معمد	lo to oc:	nloto it											
The Finance Dept in the mur	incipality responded that this	א וווווטו פ	ร เบบ นเกิ	cuit ioi tr	iem to ur	เนษารเสกัด	a. They to	iereioi W	ere unab	ie io com	pietė it.											



The Finance Dept in the municipality responded that this form is too difficult for them to understand. They therefor were unable to complete it.



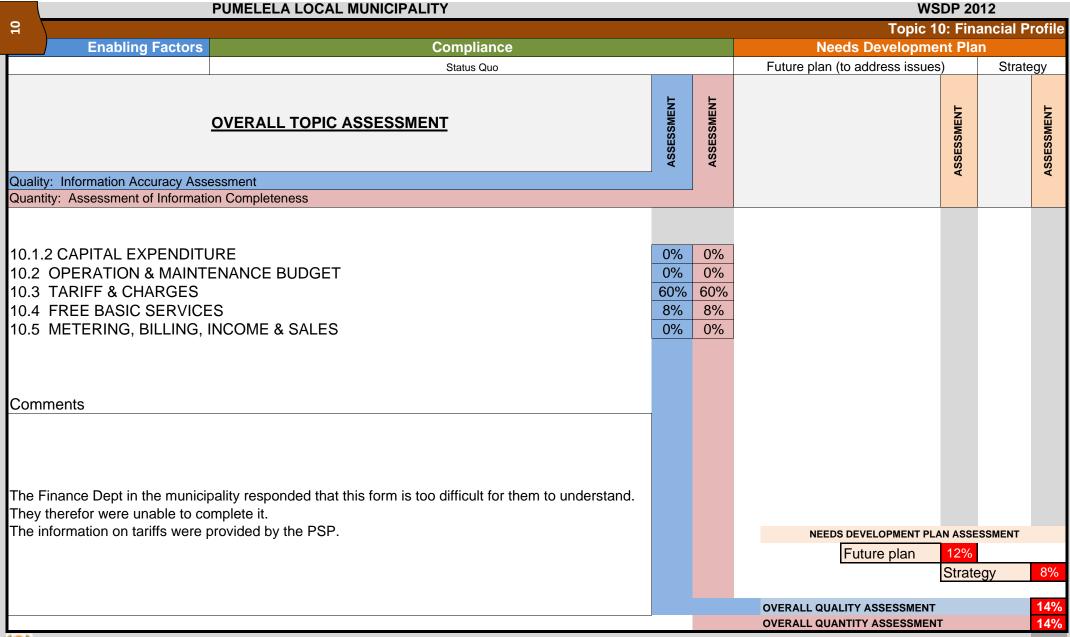
32

Topic 10: Financial Profile																		10
Enabling Factors				liance							eds D				Plan			
			Statu	s Quo						re plan						St	rateg	ξY
									Tir	me Fran	ne	Suff	icien	t for				
SANITATION	U	rban	Ru	ıral	TOTAL	ASSESSMENT	ASSESSMENT	In place?	M	Short (1) Jedium (Long (5) None	3)	RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Resources available to perform function?) Pro				
(Yes: Y, No: N, Not Applicable: NA):														9				
Quality: Information Accuracy Assessment	Fixed	Value	Fixed	Value								*	*	*				
Quantity: Assessment of Information Completeness	Charge	Charge	Charge	Charge		%	%		1	3 5 Y/N	N N/NA	•	*	•	%	У/	Ν	%
* 10.5.3 Residential: Sanitation * Units Supplied						0	0								0			0
* Metered %																		
* Billed %						0	0								0			0
* Not Metered						0	0								0			0
* Income Received %						0	_								0			0
* Non Payment %						0	0								0			0
10.5.4 Industrial & Commercial: Sanitation																		
Units Supplied						0	0								0			0
Metered %																		
Billed %						0	0								0			C
Not Metered						0	0								0			C
Income Received %						0	0								0			C
Non Payment %						0	0								0			C
						0	0								0			(
Sub Topic 10.5 Compliancy & Needs Development Plans Assessment						0%	0%								0%			0%

Comments

The Finance Dept in the municipality responded that this form is too difficult for them to understand. They therefor were unable to complete it.





SALGA

PUMELELA LOCAL MUNICIPALITY																	WS	DP 20	12		
Topic 11: Water Services Institutional Arrangements Profile																					
Enabling Factors						Co	omp	lian	се					Ne	eds	Deve	elopme	nt Pla	n		
WSA functions and outputs							tatus					Fι	ıture				s issue			Strate	∍gy
								_				Ti	me F	rame)	Suffic	cient for				
Resources available to perform function? (Yes: Y, No: N, Not Ap	plicable: I	NA):		Policy in Place	Budget	Personnel	Gazetted	Council approved	ASSESSMENT	ASSESSMENT	In place?		Short lediu Long Nor	m (3) (5) ne		RDP Lighor I good		ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment												1	3		IN		* *				
Quantity: Assessment of Information Completeness					Υ	/ N / N	۱A		%	%				Y/N	N / NA			%	Y	/ N	%
11.1 General Functions																					
* 11.1.1 Policy development																					
* Indigent Policy				у				у	60	60	у	у	у	у		у у	у у	60	у	n	40
* Free basic water policy (including equitable share)				У				у	60	60	У	У	у	у		у у	у у	60	у	n	40
* Free basic sanitation policy				у		_		у	60	60	у	у	у	у		у у	у у	60	у	n	40
* Procurement policy				у				у	60	60	у	у	у	у		у у	у у	60	у	n	40
* Credit control & debt collection policy				у	у	у		у	60	60	у	у	у	у		у у	у	60	у	n	40
* 11.1.2 Regulation and tariffs									60%	60%								60%	6		40%
* Water Services bylaws with conditions as required by the Water Services Act									0	0								0			0
* Mechanisms to ensure compliance with bylaws									0	0								0			0
* Tariff structure				у				у	60	60	у	у	у	у		у	у	60	у	n	40
* Tariffs promulgated				у	у	у		у	60	60	у	у	у	у		у	у	60	у	n	40
11.1.3 Infrastructure development (projects)				· -					30%	30%					,	,		30%	6		20%
Mechanisms to undertake project / feasibility studies					n/r	n/r			60	60	у	у	у	у		у	у у	60	у	n	40
Criteria for prioritising projects				у				у	60	60	у	у	у	у		у у	у у	60	у	n	40
Mechanisms to assess and approve project business plans				у	у	у			60	60	у	у	у	у		у у	у у	60	у	n	40
Mechanisms for selecting, contracting, managing and monitoring implementing agents				у	у	у		у	60	60	у	у	у	у		у у	у	60	у	n	40
Mechanisms to monitor project implementation					у	у			60	60	у	у	у	у		у у	у	60	у	n	40
11.1.4 Performance management and monitoring									60%	60%								609	6		40%
Performance management systems									0	0								0			0
Water service monitoring and evaluation (M&E) system									0	0								0			0
11.1.5 WSDP				·	-				0%	0%		-						09	6		0%
WSDP information system Yes:	у	No:							60	20								0			0
Mechanisms to monitor and report on WSDP implementation Yes:	у	No:							60	20								0			0
Mechanisms for stakeholder participation Yes:	у	No:							60	20								0			0
									60%	20%								0%	6		0%



Topic 11: Water Services Institutional Arrangements Profile

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)	Phumelela	Service	n	100%
11.2.2 Water service providers (sanitation)				
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		0% 09	%	0%

11.1.1 POLICY DEVELOPMENT

11.1.2 REGULATION AND TARIFFS

11.1.3 INFRASTRUCTURE DEVELOPMENT (PROJECTS)

11.1.4 PERFORMANCE MANAGEMENT AND MONITORING 0%

11.1.5 WSDP

11.2 BULK AND RETAIL FUNCTIONS

NEEDS DEVELOPMENT PLAN ASSESSMENT

Future plan

Strategy

17%

OVERALL QUALITY ASSESSMENT OVERALL QUANTITY ASSESSMENT

60% 60%

30% 30%

60% 60%

0%

0% 60% 20%

0%

35% 28%

* BASELINE INFORMATION: COMPULSORY FIELDS 36



PUMELELA LOCAL MUNICIPALITY **WSDP 2012** Topic 12: Social & Customer Service Requirements **Enabling Factors** Compliancy **Needs Development Plan** Status Quo Future plan (to address issues) Strategy Time Frame Sufficient for Growth & Development Urban Households Rural Households ASSESSMENT ASSESSMENT Resources available to perform function? Higher Level (Yes: Y, No: N, Not Applicable: NA): Short (1) RDP Medium (3) Long (5) None Personnel Budget Budget Quality: Information Accuracy Assessment 3 5 Ν Y/N Y/N % % % Quantity: Assessment of Information Completeness % 12.1 Resources available to Perform this Function: Water & Sanitation Y/N 40 12.1.1 Attending to Complaints for Water 40 0 0 ٧ 40 12.1.2 Attending to Complaints for Sanitation 40 0 0 У 40 40 0 0 12.1.3 Attending to Complaints for Pit/Tank Pumping У Sub Topic 12.1 Compliancy & Needs Development Plans Assessment 40% 40% 0% 12.2 Attending to Complaints for Water **Number Of:** 12.2.1 Total number of consumer units 0 0 0 0 0 12.2.2 Number of gueries/complaints received within the year 0 0 0 0 0 * 12.2.3 % Queries responded to within 24 hours 0 0 40 12.2.4 Number of major or visible leaks reported within the year approx 50 60 0 0 0 0 0 0 12.2.5 % Major or visible leaks repaired within 48 hours after being reported * 12.2.6 Number of consumers experiencing greater than 7 days interruption in supply per 0 0 0 0 vear 0 0 0 0 12.2.7 Number of consumers receiving flow rate of less than 10 litres per minute Sub Topic 12.2 Compliancy & Needs Development Plans Assessment 6% 9% 0% 12.3 Attending to Complaints for Sanitation: Discharge to Treatment Works **Number Of:** 0 0 12.3.1 Total number of consumer units 0 0 0 12.3.2 Number of gueries/complaints received within the year 0 0 0 0 * 12.3.3 % Queries responded to within 24 hours 0 0 0 0 12.3.4 Number of blockages reported within the year approx 50 0 0 0 0 12.3.5 % Blockages repaired within 48 hours after being reported 0 0 0 * 12.3.6 Number of consumers experiencing greater than 7 days interruption in 0 0 supply per year 12.3.7 Sanitation promotion and health and hygiene awareness 0 0 0 0 Sub Topic 12.3 Compliancy & Needs Development Plans Assessment 0% 0% 0% 0% 12.4 Attending to Complaints for Sanitation: Pit/Tank Pumping Number Of: 20 40 12.4.1 Number of pits/ tanks 0 0 105 40 40 0 0 12.4.2 Number of calls received within the year for emptying 0 0 0 0 12.4.3 Number of calls received within the year for emergency maintenance to pits/ tanks 12.4.4 % Queries responded to within 24 hours 0 0 0 0 12.4.5 % Pits/tanks pumped within 48 hours of being reported 0 0 0 0 Sub Topic 12.4 Compliancy & Needs Development Plans Assessment 16% 16%

PUMELELA LOCAL MUNICIPALITY WSDP 2012 **Topic 12: Social & Customer Service Requirements** OVERALL TOPIC ASSESSMENT NEEDS DEVELOPMENT PLAN ASSESSMENT 40% 40% 12.1 RESOURCES AVAILABLE TO PERFORM THIS FUNTION Future plan 12.2 ATTENDING TO COMPLAINTS FOR WATER 6% 9% 0% 0% 0% Strategy 12.3 ATTENDING TO COMPLAINTS FOR SANITATION: DISCHARGE TO TREATMENT WORKS 0% 16% 16% 12.4 ATTENDING TO COMPLAINTS FOR SANITATION: PIT/TANK PUMPING OVERALL QUALITY ASSESSMENT 15% 16% **OVERALL QUANTITY ASSESSMENT** Comments



Description		Program type	Wai	rds	
·		Autonumber			
		Water Internal Bulk			
		Water Regional Bulk			
Project Name	Project Number	Water Reticulation	Wards Location of Project	Wards Benefit	
•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Water Treatment Works	•		
		Sanitation Services			
		Housing			
ACTIVE PROJECTS: MIG2011/2012; RBIG; ACIP					
Thembalihle: Construction of sewer network -1827 stands	MIG/FS0633/S/06/09	Internal Sanitation	41905002;41905004		
Vrede/Thembalilhe:Upgrading of sewer pumpstation	MIG/FS0654/S/09/10	Sanitation Bulk	41905003		
Warden (Ezenzeleni): Upgrading of bulk sewer	MIG/FS0206/06/06	Sanitation Bulk			
Memel/Zamani: Sewer outfall pumps and rising main	MIG/FS0364/S/09/09	Sanitation Bulk			
Warden Bulk Water Supply	FSRNEW3 // FS_Tempfeas_03	Water Regional Bulk	41905006		
Phumelela Bulk Water Supply	FSR006	Water Regional Bulk			
Memel/Zamani: Comp of the water purification plant	MIG/FS0719/W/09/09	Water Treatment Works			
CONCEPTUAL & AWAITING FUNDING PROJECTS					
Ezenzeleni: Bucket eradication for 980 sites	MIG/FS0183/S/06/08	Internal Sanitation			
Ezenzeleni: Bkt erad for 980 stands phase 1 (Additional fu	MIG/FS0452/S/06/07	Internal Sanitation			
Memel: Zamani WWTW (354) -2650 erven	C/FS0378/S/04/05 (MIPFS216/33)	Internal Sanitation			
Vrede: Constr of WWTW in Thembalilhe Ext 4 (004) -2 200	C/FS0379/S/05/06 (MIPFS216/38)	Internal Sanitation			
Warden: Construction of WWTW for 1500 erven (002)	C/FS0408/S/04/05 (MIPFS216/36)	Internal Sanitation			
Water-Sewer Network in Ezenzeleni. 350 stands	Temp_Actpl_00035	Internal Sanitation			
Phumelela Municipality :San Internal Bulk Ref(group est)	fs temp0910 0284	Sanitation Bulk			
Phumelela Municipality - Water Internal Bulk Ref (group e	fs temp0910 0305	Water Internal Bulk			
New Storage Reservoir and Rising Main in Zamani	Temp Actpl 00032	Water Internal Bulk			
New Storage Reservoir in Thembalihle Ext 4&5	Temp_Actpl_00034	Water Internal Bulk			
Ezenzeleni: Pressure water tank	MIG/FS0283/W/06/08	Water Internal Bulk			
Install 4000 water meters in unmetered stands	Temp_MTASret_00057	Water Reticulation			
Warden: Upgrading of Purification Works	Temp Actpl 00033	Water Treatment Works			



Topic 13: Needs Develor 39A n

		Total All	location		
Tot1112	Tot1213	Tot1314	Tot1415	Tot1516	Tot1617
872116.7	0				
0		0			
0		0			
282485.9	0	0			
0		0	0		
11700000	18000000	25000000	30000000		
0	0	0	0		
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0	0				
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0			0		
2000000		0			
6709200	6709200	6709200	6709200		
0					
3000000	4000000	0	0		
0		0			
0					
0		0			
0	400000	0	0		





Topic 13: Needs Development Plan

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			



Topic 13: Needs Develop 39B 1

Total Allocation					
Tot1112	Tot1213	Tot1314	Tot1415	Tot1516	Tot1617
			-		
100					





Topic 14: Reporting

PUMELELA LOCAL MUNICIPALITY

Reporting and assessment documents status

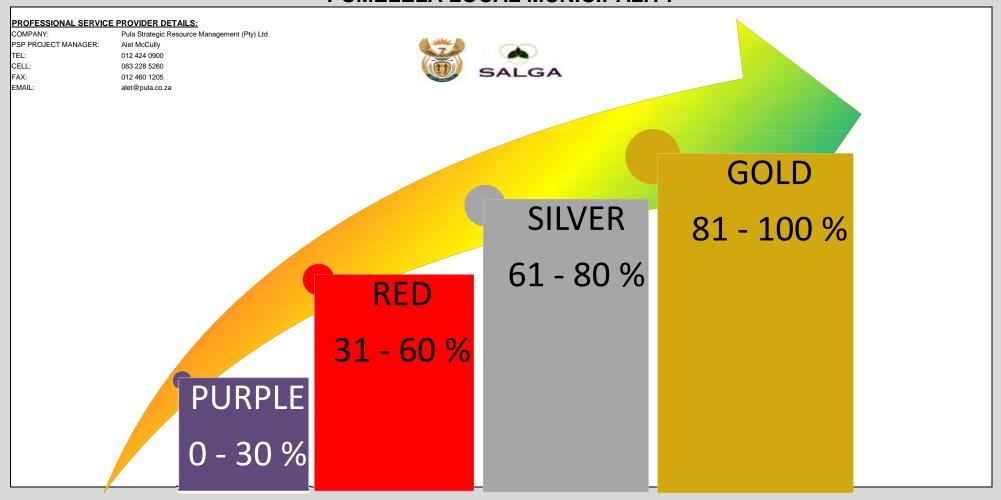
	Documents	Previous Reference date	Included in current WSDP version module 4	Current WSDP version module 4 submission date
1	IDP checklist framework version 2.4:	Completed		
2	DWA Regulatory Performance Management System (RPMS)	Completed		
3	WSA Checklist April2005	Not existing		
4	Blue Drop 2010 Assessment	Not existing		
5	Green Drop 2010 Assessment	Not existing		
6	Water Conservation & Demand Management	Needs review		
		Options	Options	
		In process	Not included	
		Not existing	Included (not complete)	
		Completed	Included (complete)	
		Completed & Submitted		
		Needs review		
Gen	neral Comments	Completed		



WSDP Status Quo Knowledge Interpretation Report

Overall Water Services Planning Status Bar Legend

PUMELELA LOCAL MUNICIPALITY



PUMELELA LOCAL MUNICIPALITY

WSDP 2012

61%

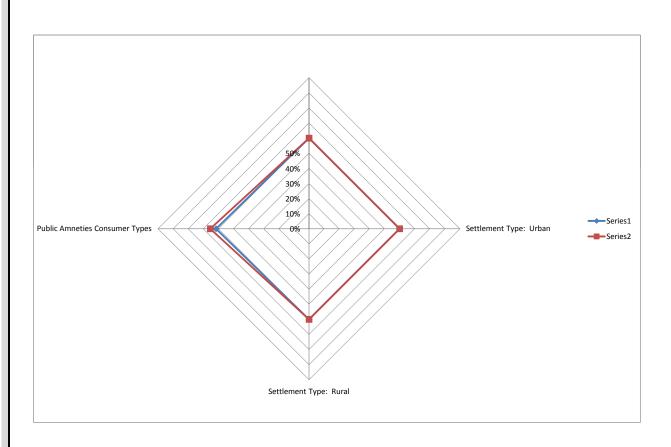
WSDP Status Quo Knowledge Interpretation Report: Demographics Profile (Topic 2)

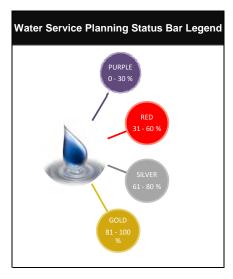
Settlement Type: Farming Settlement Type: Urban Settlement Type: Rural

Public Amneties Consumer Types

Assessment			
Quality Quantity			
SERIES 1	SERIES 2		
60%	60%		
60%	60%		
60%	60%		
62%	65%		

60%





Service Levels Profile Average Total

61%



PUMELELA LOCAL MUNICIPALITY	WSDP 2012
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	
Stuation Ssessment:	
Strategy:	
Projects:	
Settlement Type: URBAN	
Settlement Type: URBAN Settlement Type: URBAN Type Settlement Type: URBAN	
Define Strategy:	
List Possible Projects:	
Settlement Type: RURAL	
Settlement Type: RURAL String of St	
Define Strategy:	
List Possible Projects:	
Public Amneties Consumer Types	
Situation Assessment (Assessment (Assessme	
Define Strategy:	
Projects:	

PUMELELA LOCAL MUNICIPALITY WSDP 2012

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

3.1 SETTLEMENT WATER SERVICE LEVEL DEFINITIONS - CATEGORY 10 - NO SERVICES (FORMAL) CATEGORY 7 - INFRASTRUCTURE UPGRADE, EXTENSION & REFURBISHMENT

CATEGORY 6 - O&M NEED

CATEGORY 4 - NO SERVICES (INFORMAL)

3.1 SETTLEMENT SANITATION SERVICE LEVEL DEFINITIONS - CATEGORY 10 - NO SERVICES (FORMAL)

CATEGORY 7 - INFRASTRUCTURE UPGRADE, EXTENSION & REFURBISHMENT

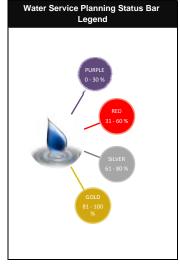
CATEGORY 6 - O&M NEED

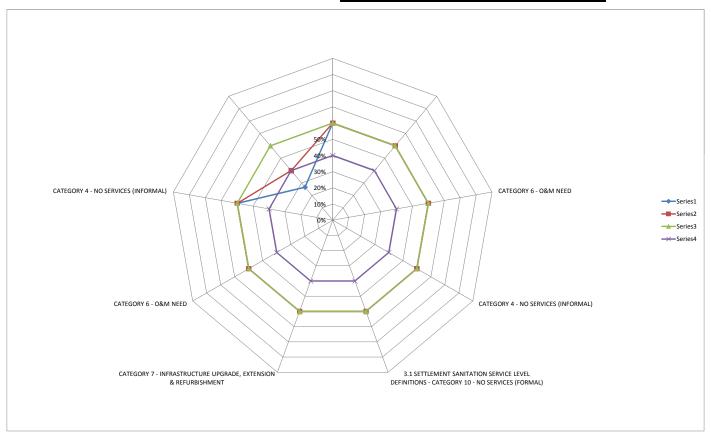
CATEGORY 4 - NO SERVICES (INFORMAL)

3.3 RESIDENTIAL, PUBLIC INSTITUTIONS AND INDUSTRIES

Assessment		Future Plan	Strategy
Quality	Quantity	Assessment	Assessment
SERIES 1	SERIES 2	SERIES 3	SERIES 4
60%	60%	60%	40%
60%	60%	60%	40%
60%	60%	60%	40%
60%	60%	60%	40%
60%	60%	60%	40%
60%	60%	60%	40%
60%	60%	60%	40%
60%	60%	60%	40%
27%	40%	60%	40%

56%	58%	60%	40%





Service Levels Profile Average Total 54%



WCDD Ct-tu-		WSDP 2012
	Quo Knowledge Interpretation Report: Service Levels Profile (Topic 3)	
Topic 3 - WSI	DP Strategic Interpretation Report	
Ctratagia In	stanusatetian Implications and Calutions David from Caiday Discrete	
Strategic in	nterpretation, Implications and Solutions Derived from Spider Diagram	
3.1 SETTLEME	ENT WATER SERVICE LEVEL DEFINITIONS: WATER FORMAL	
at on ient:		
Interpret Situation Assessment		
Situ		
Define Strategy:		
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List Possible Projects:		
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3.2 SETTLEME	NT WATER SERVICE LEVEL DEFINITIONS: WATER INFORMAL	
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List Possible Projects:		
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3.2 SETTLEME	ENT SANITATION SERVICE LEVEL DEFINITIONS: SANITATION FORMAL	
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Define Strategy:		
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List Possible Projects:		
	NT SANITATION SERVICE LEVEL DEFINITIONS: SANITATION INFORMAL	
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Define Strategy:		
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List Possible Projects:		
3.3 RESIDENTIA	AL, PUBLIC INSTITUTIONS AND INDUSTRIES	
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Define Strategy:		l
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List Possible Projects:		
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PUMELELA LOCAL MUNICIPALITY

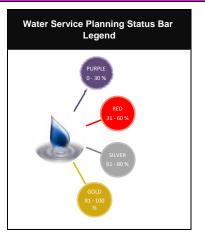
WSDP 2012

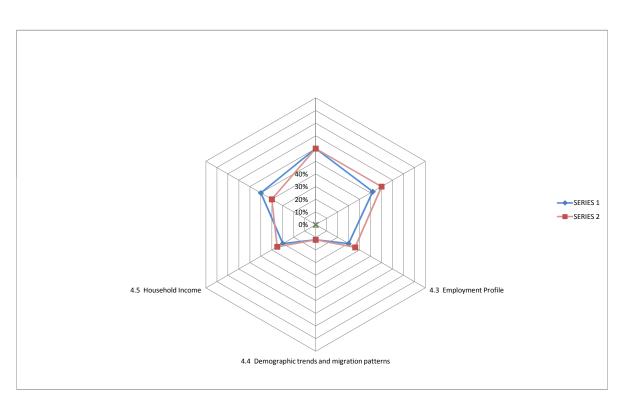
4.1 General 4.2 Age and Gender Profile

- 4.3 Employment Profile
- 4.4 Demographic trends and migration patterns
- 4.5 Household Income
- 4.6 Economics

Assessment			
Quality	Quantity		
SERIES 1	SERIES 2		
60%	60%		
52%	60%		
30%	36%		
12%	12%		
30%	35%		
50%	40%		

39% 41%





Water Services Infrastructure Average Total

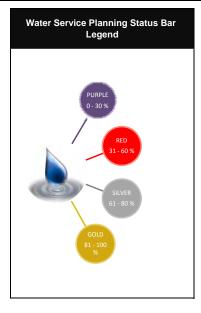
PUMELELA LOCAL MUNICIPALITY	WSDP 2012
Topic 4 - WSDP Strategic Interpretation Report	WSUP Status Quo Knowledge Interpretation Report: Economic Background (Topic 4
Strategic Interpretation, Implications and Solutions Derived from Spider Diagram 4.1 General	
Assessment:	
Define Strategy:	
List Possible Projects:	
4.2 Age and Gender Profile	
Strawsy:	
List Possible Projects:	
4.3 Employment Profile	
Define	
4.4 Demographic trends and migration patterns	
4.4 Definition of the control of the	
Define	
Possible Projects:	
5.5 Household Income	
Define	
List Possible Projects:	
4.6 Economics Title de seu de la conomica del conomica del conomica de la conomica del conomica de la conomica del conomica de la conomica del conomica de la conomica del conomica de la conomica de la conomica de la conomica de la conomica del conomica	
Define Strategy:	
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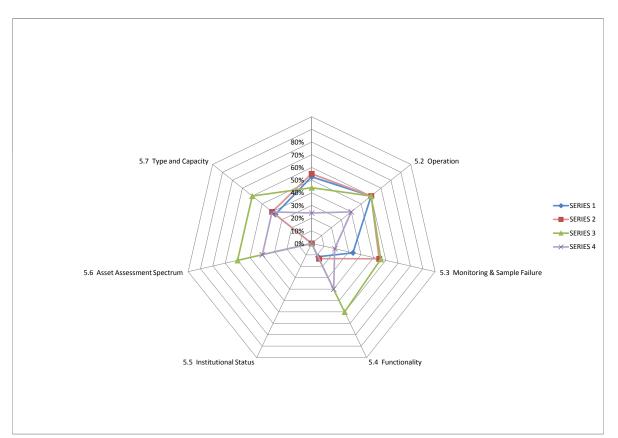
WSDP Status Quo Knowledge Interpretation Report: Water Services Infrastructure Profile (Topic 5)

- 5.1 General Information
- 5.2 Operation
- 5.3 Monitoring & Sample Failure
- 5.4 Functionality
- 5.5 Institutional Status
- 5.6 Asset Assessment Spectrum
- 5.7 Type and Capacity

Assessment		Future Plan Assessment	Strategy Assessment	
Quality	Quantity	Accessinent	ASSESSINGIL	
SERIES 1	SERIES 2	SERIES 3	SERIES 4	
53%	55%	44%	24%	
60%	60%	60%	40%	
33%	55%	56%	19%	
12%	13%	60%	40%	
0%	0%	0%	0%	
0%	0%	60%	40%	
37%	40%	60%	40%	

28%	32%	49%	29%





1 OIIIL	ELA LUCAL NUNGIPALITY	WSDP Status Quo Knowledge Interpretation Report: Water Services Infrastruc	ture Profile (Topic 5)				
Торі	spic 5 - WSDP Strategic Interpretation Report.						
	rategic Interpretation, Implications and Solutions Derived from Spider Diagram						
5.1 G	noral Information: House of the Control of the C						
	Strategy, Ass.						
	Pourtie St.						
5.2 C	eration:						
	or control of control						
	Strating:						
	Posteler Properties						
5.3 N	onloring & Sample Failure:						
	information & Sample Failure:						
	Define Strate gg:						
	Polecies:						
5.4 F	nctionality:						
	and to the property of the pro						
	Strategy						
	Pusable Projects:						
5.5 lr	stitutional Status:						
	herpora (Struator) Asseesment.						
	Strategy (Strategy)						
	Pussible Projects:						
5.6 A	set Assessment Spectrum:						
	Sharion Assessment and a second a second and						
	Strategy						
	Positive Projectis:						
5.7 T	pe and Capacity:						
	Sunacomina Assessment						
	Smary						
	Polyched Character Charact						

WSDP 2012

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

6.1 OPERATION & MAINTENANCE PLAN

6.2.1 RESOURCES

6.2.2 INFORMATION

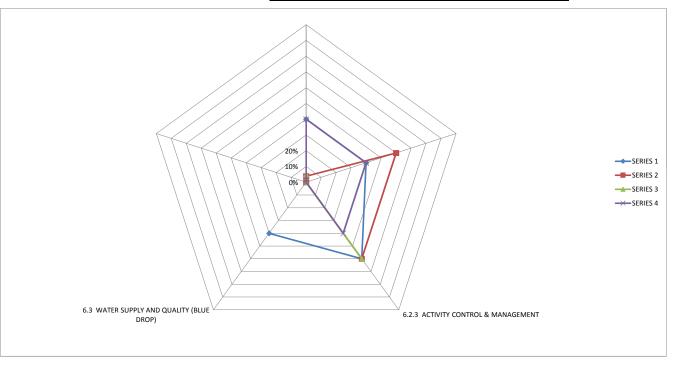
6.2.3 ACTIVITY CONTROL & MANAGEMENT

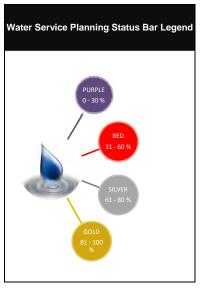
6.3 WATER SUPPLY AND QUALITY (BLUE DROP)

6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DROP)

Assessment				
Quality	Quantity	Future Plan Assessment	Strategy Assessment	
SERIES 1	SERIES 2	SERIES 3	SERIES 4	
0%	0%			
40%	40%	60%	40%	
40%	60%	60%	40%	
45%	60%	60%	40%	
4%	60%	60%	0%	
5%	0%	60%	0%	

22% 37% 60% 249	6









FUNCTION BONDE BONDE AND THE STATE OF THE ST	WSDP Status Quo Knowledge Interpretation Report: Operation & Maintenance (Topic 6)
Topic 6 - WSDP Strategic Interpretation Report	
Strategic Interpretation, Implications and Solutions Derived from Spider Diagram 6.1 OPERATION & MAINTENANCE PLAN	
Shardon Assessment (
Do fine Statuego.	
Frogette:	
6.2.1 RESOURCES	
Sharbon Assessment	
Define Statesy	
Project :	
6.22 INFORMATION	
Heappel Silva and American Ame	
Define Strategy	
Project :	
8.23 ACTIVITY CONTROL & MANAGEMENT	
Heapret Shadon	
Define Statesy	
Trigoria.	
s.3 WATER SUPPLY AND QUALITY (BLUE DROP)	
Skudion Aastesment	
Define Strategy	
Let Possible Properts	
sa Waste Water Supply and Quality (green drop)	
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Frigues de Principal de Princip	

Strategy

Assessment

SERIES 4

40%

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40%

Future Plan

Assessment

SERIES 3

60%

60%

60%

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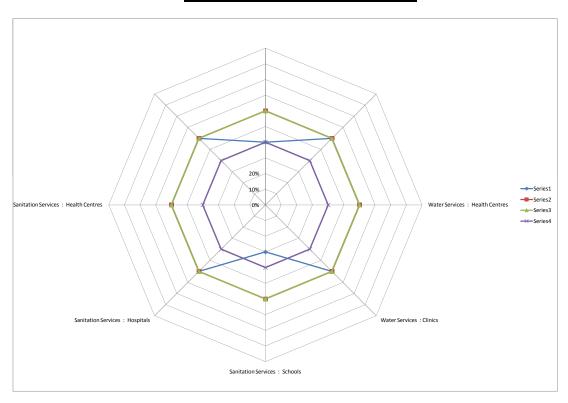
SERIES 1 SERIES 2 Water Services ; Schools 40% 60% Water Services : Hospitals 60% 60% Water Services : Health Centres 60% 60% Water Services : Clinics 60% 60% Sanitation Services : Schools 30% 60% Sanitation Services : Hospitals 60% 60% Sanitation Services : Health Centres 60% 60% Sanitation Services : Clinics 60% 60%

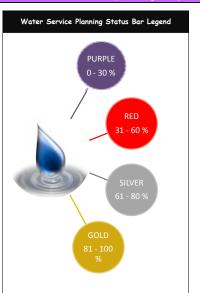
54%	60%	60%	40%

Assessment

Quantity

Quality





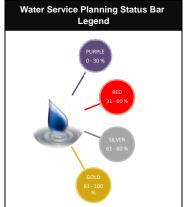
		PUMEREA LOCAL MUNOPALITY	WSDP 2012	VS.D.P. Status Oue Years adea Interpret	ation Popular Associated Services (Tonic
		Strategic Interpretation Report.		vsor satus duo knowlede interpret	anon Report: Associated Services (ropic
Strate S	Services: Sc	repretation, Implications and Solutions Derived from Spider Diagram			
	Interpret Stuation Assessment				
	List Possible Define Strategy, Stuaton Projects: 20				
	List Possible Projects:				
Water 5	Services: Ho	notata			
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	efne Srabegy				
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Water 5	Services: He	adh Curtes			
	Interpret Shustion Assessment				
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	ssble ads:				
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-	Possible Der				
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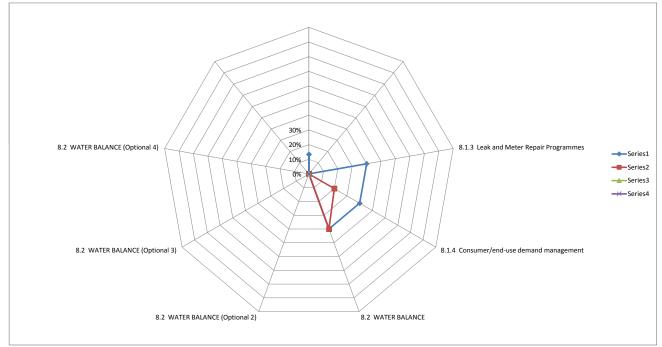
Conservation & Demand Management & Water Balance

- 8.1.1 Reducing unaccounted water and water inefficiencies
- 8.1.2 Reducing high pressures for residential consumers
- 8.1.3 Leak and Meter Repair Programmes
- 8.1.4 Consumer/end-use demand management
- 8.2 WATER BALANCE
- 8.2 WATER BALANCE (Optional 2)
- 8.2 WATER BALANCE (Optional 3)
- 8.2 WATER BALANCE (Optional 4)
- 8.2 WATER BALANCE (Optional 5)

Asses	sment	Future Plan	Strategy
Quality	Quantity	Assessment	Assessment
SERIES 1	SERIES 2	SERIES 3	SERIES 4
13%	0%	0%	0%
0%	0%	0%	0%
40%	0%	0%	0%
40%	20%	0%	0%
40%	40%	0%	0%
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0%	0%	0%	0%
0%	0%	0%	0%

15%	7%	0%	0%







DP Status Quo Knowledge Interpretation Report: Conservation & Demand Management (Topic 8)	
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WATER BALANCE (Optional 3):	
WATER BALANCE (Optional 4):	
WATER BALANCE (Optional 5):	

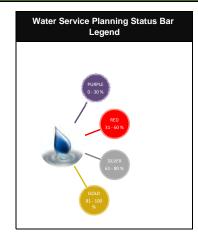
WSDP 2012

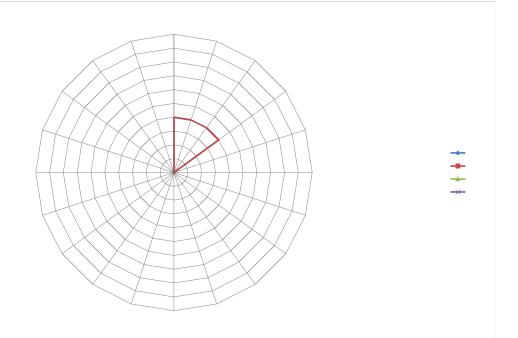
Water Losses

- 8.3.1 Raw Water Bulk Loss
- 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 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

Asses	Assessment		Strategy		
Quality	Quantity	Assessment	Assessment		
SERIES 1	SERIES 2	SERIES 3	SERIES 4		
40%	40%	0%	0%		
40%	40%	0%	0%		
40%	40%	0%	0%		
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8%	8%	0%	0%







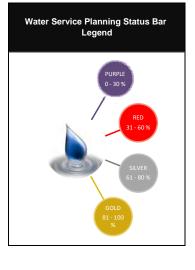
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VSDP Status Quo Knowledge Interpretation Report: Conservation & Demand Management (Topic 8)					
opic 8 - WSDP Strategic Interpretation Report					
Strategic Interpretation, Implications and Solutions Derived from Spider Diagram					
.3.1 Raw Water Bulk Loss	8.3.2 Treated Water Loss :Bulk				
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Assessment:	Situation Assessment				
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Projects: Strategy:	Projects: .				
3.3.3 Treated Water Loss :Internal	8.3.4 Water Balance				
Interpret Situation Assessment:	smenn smen				
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.s.t. Raw water built Luss (OF HON 2)	o.s.2 Treated Water Loss .buik				
3.3 Treated Water Loss :Internal	8.3.4 Water Balance				
.3.1 Raw Water Bulk Loss (OPTION 3)	8.3.2 Treated Water Loss :Bulk				
i.3.3 Treated Water Loss :Internal	8.3.4 Water Balance				
.3.1 Raw Water Bulk Loss (OPTION 4)	8.3.2 Treated Water Loss :Bulk				
.3.3 Treated Water Loss :Internal	8.3.4 Water Balance				
.3.1 Raw Water Bulk Loss (OPTION 5)	8.3.2 Treated Water Loss :Bulk				
.3.3 Treated Water Loss :Internal	8.3.4 Water Balance				
1 Out of Trade Edge of ROTTER	U.S. Francisco				

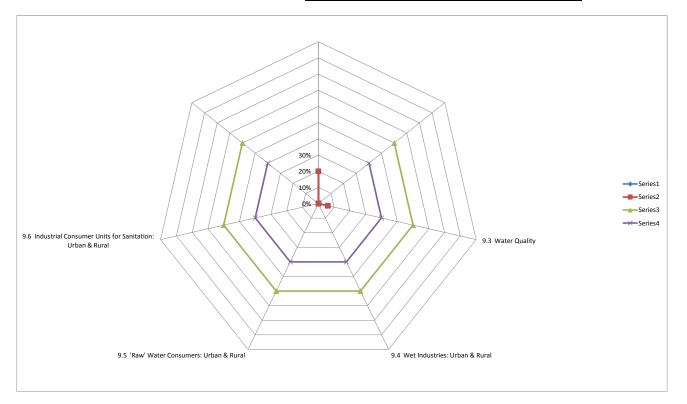
WSDP Status Quo Knowledge Interpretation Report: Water Resources (TOPIC 9)

- 9.1 Sources & Volumes
- 9.2 Monotoring
- 9.3 Water Quality
- 9.4 Wet Industries: Urban & Rural
- 9.5 'Raw' Water Consumers: Urban & Rural
- 9.6 Industrial Consumer Units for Sanitation: Urban & Rural
- 9.7 Industries and their permitted effluent releases

Asses	sment			
Quality	Quantity	Quantity Future Plan Assessment		
SERIES 1	SERIES 2	SERIES 3	SERIES 4	
20%	20%			
0%	0%	60%	40%	
6%	6%	60%	40%	
0%	0%	60%	40%	
0%	0%	60%	40%	
0%	0%	60%	40%	
0%	0%	60%	40%	

4%	4%	60%	40%







	PUMELE	LA LOCAL MUNICIPALITY		WSDP Status Quo Knowledge I	mterpretation Report: Water Resources (TOPIC 9			
opi	c 9 - WS	DP Strategic Interpretation Report						
	ategic Interpretation, Implications and Solutions Derived from Spider Diagram							
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	List Possible Projects:							
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	List Possible Projects:							
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	Interpret Situation Assessmen							
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	List Possible Projects:							
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7 1	ndustries	and their permitted effluent releases:						
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	Define Strategy:							
	List Possible Projects:							

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

10.1.2 CAPITAL EXPENDITURE

10.2 OPERATION & MAINTENANCE BUDGET

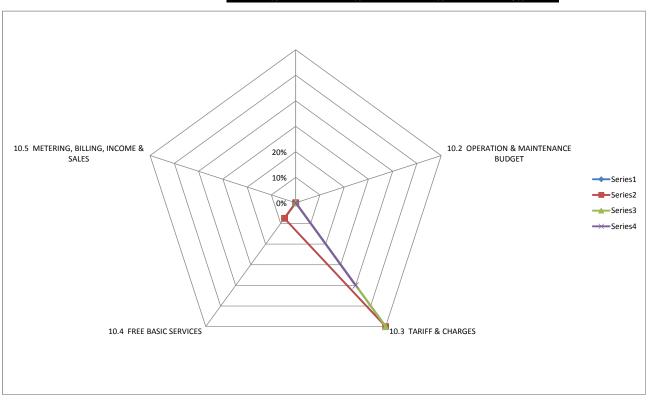
10.3 TARIFF & CHARGES

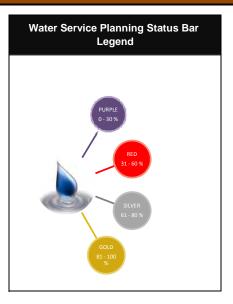
10.4 FREE BASIC SERVICES

10.5 METERING, BILLING, INCOME & SALES

Assessment		Future Plan	Strategy	
Quality	Quantity	Assessment	Assessment	
SERIES 1	SERIES 2	SERIES 3	SERIES 4	
0%	0%	0%	0%	
0%	0%	0%	0%	
60%	60%	60%	40%	
8%	8%	0%	0%	
0%	0%	0%	0%	

14%	14%	12%	8%
1470	1470	1270	070







	TOMELLE	LA LOCAL MUNICIPALITY WSDP 2012					
		uo Knowledge Interpretation Report: Financial Profile (Topic 10)					
opio	pic 10 - WSDP Strategic Interpretation Report						
itra	tegic I	nterpretation, Implications and Solutions Derived from Spider Diagram					
0.1.2	2 CAPITA	L EXPENDITURE:					
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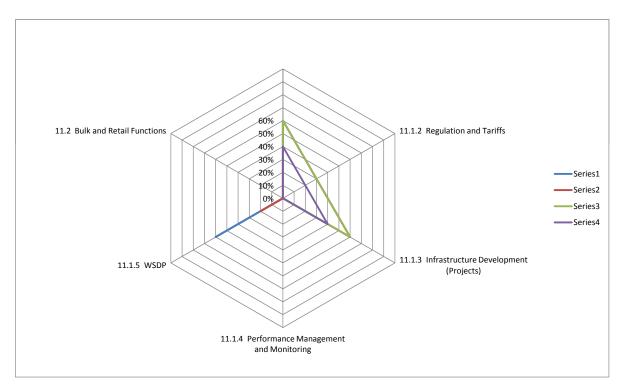
WSDP Status Quo Knowledge Interpretation Report: Water Services Institutional Arrangements Profile (Topic 11)

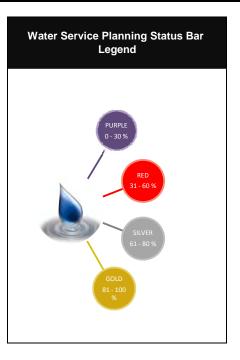
1	1.	1.1	Policy	Develo	pment

- 11.1.2 Regulation and Tariffs
- 11.1.3 Infrastructure Development (Projects)
- 11.1.4 Performance Management and Monitoring
- 11.1.5 WSDP
- 11.2 Bulk and Retail Functions

Asses	Assessment		Stratom	
Quality	Quantity	Future Plan Assessment	Strategy Assessment	
SERIES 1	SERIES 2	SERIES 3	SERIES 4	
60%	60%	60%	40%	
30%	30%	30%	20%	
60%	60%	60%	40%	
0%	0%	0%	0%	
60%	20%	0%	0%	
0%	0%	0%	0%	

35%	28%	25%	17%





		WOUP Status G	uo Knowledge Interpretation Report: Water Services Institutional Arrai	ngements Profile (Topic 11)
Topic '	11 - WSD	WSDP Strategic Interpretation Report		
Strate	gic Inte	Interpretation, Implications and Solutions Derived from Spider Diagram		
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	Interpret Situation Assessment:			
	Define Strategy:	Strate gy.		
	List Possible Projects:	Projects:		
11.1.2 K	guiation and	on and Tariffs		
	Interpret Situation Assessment			
	le Define Strategy:			
11.1.3 ln	List Possible Projects:	cture Development (Projects)		
	끝			
	Interpret Situation Assessmer			
	Define Strategy:			
44.4.4 D	List Possible Projects:	Project s:		
11.1.4 P	erformance N	ance Management and Monitoring		
	Interpret Situation Assessment			
	Define Strategy:			
	List Possible Projects:	Projects:		
11.1.5 W	SUP 22 I			***************************************
	Interpret Situation Assessmen			
	e Define Strategy:			
11.2 Bulk	List Possibl Projects:	SE CONTROL CON		
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	Interpre Situation Assessme	Assessment of the control of the con		
	Define Strategy:			
	List Possible Projects:	Projects:		

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

12.1 RESOURCES AVAILABLE TO PERFORM THIS FUNTION

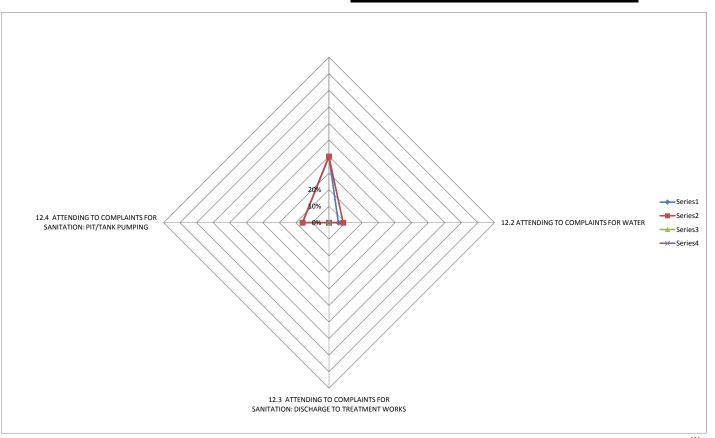
12.2 ATTENDING TO COMPLAINTS FOR WATER

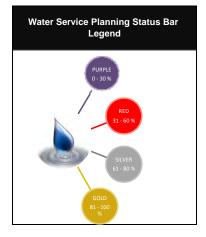
12.3 ATTENDING TO COMPLAINTS FOR SANITATION: DISCHARGE TO TREATMENT WORKS

12.4 ATTENDING TO COMPLAINTS FOR SANITATION: PIT/TANK PUMPING

Asses	sment Future Plan		Strategy
Quality	Quantity	Assessment	Assessment
SERIES 1	SERIES 2	SERIES 3	SERIES 4
40%	40%	0%	0%
6%	9%	0%	0%
0%	0%	0%	0%
16%	16%	0%	0%

15% 16% 0% 0%	15%	16%	0%	0%
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WSE	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	SOURCES AVAILABLE TO PERFORM THIS FUNTION					
	Situation Assessment:					
	Strategy:					
	Projects:					
12.2	ENDING TO COMPLAINTS FOR WATER					
	Situation Assessment:					
	Strategy:					
	Projects:					
12.3	ENDING TO COMPLAINTS FOR SANITATION: DISCHARGE TO TREATMENT WORKS					
	Situation Assessment:					
	Strategy:					
	Projects:					
12.4	ENDING TO COMPLAINTS FOR SANITATION: PIT/TANK PUMPING					
	Situation Assessment:					
	Strategy:					
	Projects:					

PUMELELA LOCAL MUNICIPALITY WSDP Status Quo Knowledge Interpretation Report **TOTAL AVERAGES OF TOPICS** SERIES 2 SERIES 3 SERIES 4 Topic 2 - Demographics Profile Topic 2 - Demographics Profile Topic 3 - Service Levels Profile 56% 58% 40% 60% 90% Topic 4 - Socio Economics Background 39% 41% Topic 12 - Social & Customer Service Requirement Topic 3 - Service Levels Profile Topic 5 - Water Service Infrastructure Profile 49% 28% 32% 29% 80% Topic 6 - Operation & Maintenance 37% 24% 22% 60% Topic 7 - Associated Services 54% 60% 60% 40% Topic 8 - Conservation & Demand Management 34% 28% 0% 0% Topic 9 - Water Resources 40% Topic 10 - Financial Profile 14% 14% 12% 8% Topic 11 - Water Services Institutional Arrangements Profile 35% 28% 25% 17% Topic 11 - Water Services Institutional Arrangements Profile Topic 4 - Socio Economics Background 15% 16% 0% 0% Topic 12 - Social & Customer Service Requirements ----Series1 ----Series3 Topic 10 - Financial Profile Topic 5 - Water Service Infrastructure Profile Topic 9 - Water Resources Topic 6 - Operation & Maintenance Topic 8 - Conservation & Demand Management Water Services Infrastructure Average Total 30% **Overall Water Services Planning Status Bar Legend**

