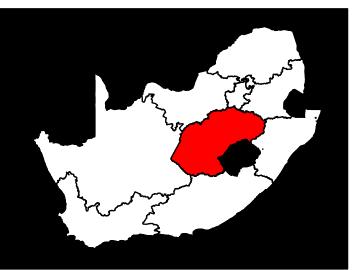
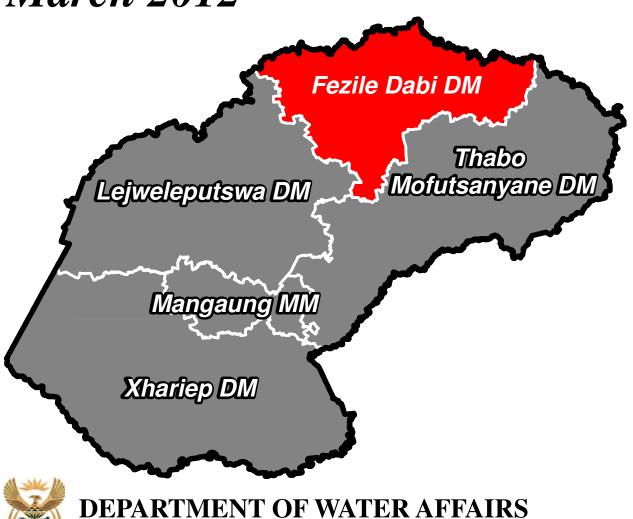
Water Infrastructure Status & Intervention Plans



FEZILE DABI DISTRICT MUNICIPALITY

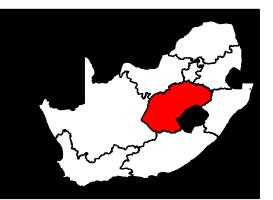
March 2012



Directorate Planning and Information



Water Services Status & Intervention Plans



Purpose of Document

The purpose of the document is to provide a Provincial Summary on issues relating to the Water Services Development Plan (WSDP). The issues that were focussed on, for the purpose of this document, include Demographics, Water & Sanitation Needs, Associated Services, Water Resource Management, Conservation Demand Management, Iniatives & Goals, Gap Analysis and High Priority Target Areas.

Background to Reference Framework

District and Local Municipalities (DM, LM) acting as Water Services Authorities (WSA) must manage and maintain water services in their area of jurisdiction. In order to develop a sufficient strategy to manage these services WSDP's were drawn up for the WSA's providing statistics on users and their requirements as well as five year guidelines for implementing water services projects and management of these services. Completed WSDP's were approved by the WSA's as their five-year plan and submitted to the Department of Water Affairs (DWA). The Department has to evaluate the content of the WSDP's and align Macro Planning with activities outlined in the WSDP's. In order to evaluate the WSDP's the Department needs a Reference Framework (RF) document addressing the same issues outlined in the WSDP guideline from the Department perspective. The RF documents can also be utilised to provide strategic support and information to Local Government and Water Services Providers to assist in strategic planning and daily functions. The RF was developed by utilising the Directorate Macro Planning and Information Systems GIS data to compile base maps to address specific topics. Provincial Water Services Planning Teams (PSP's) were appointed to utilise their knowledge and experience in a specific WSA to address the information requirements. Information gathered within the process will feed to a national information system in order to create RF documents that reflect information on a provincial and national level.

Acknowledgements

Joint Study by:

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WATER SERVICES PLANNING RF PSP

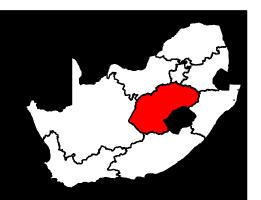
Province: Free State



PULA

J Du Plessis 012 424 0900

Water Services Status & Intervention Plans



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1. INTRODUCTION TO FEZILE DABI DISTRICT MUNICIPALITY

1.1 Locality in the Free State Province

Free State Province has the following five (5) District Municipalities (DM's).

- Xhariep DM
- Lejweleputswa DM
- Thabo Mofutsanyane DM
- Fezile Dabi DM
- Mangaung MM

The Fezile Dabi District Municipality has the following four (4) Local Municipalities.

- > Moghaka LM
- Ngatwhe LM
- Metsimaholo LM
- > Mafube LM

The main towns within the district are Steynsrus, Edenville, Kroonstad, Frankfort, Cornelia, Koppies, Heilbron, Oranjeville, Deneysville, Sasolburg, Parys, Vredefort and Viljoenskroon.

Pages 01 and 02 in section 2 provides detail information on settlement distribution and population figures.

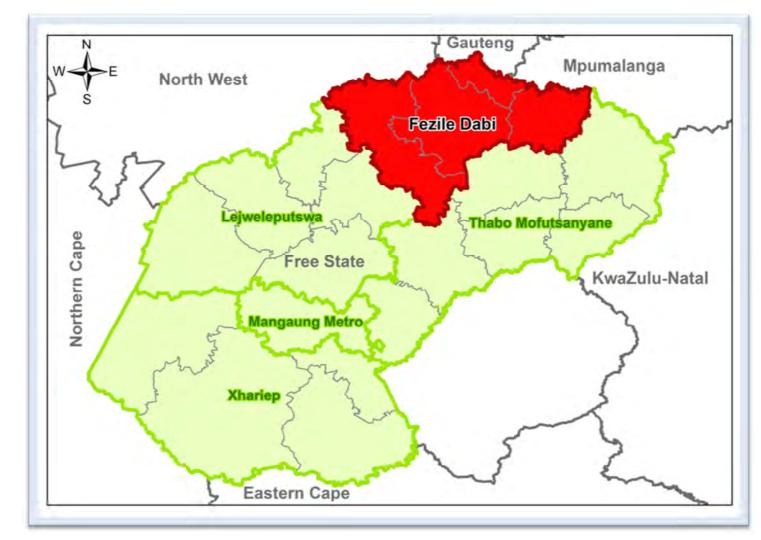
There are approximately 520 126 people residing within ± 142 933 households, which occupies approximately 38 communities. The DM consists of 28 urban settlements

(15 formal towns and 13 Former townships), some Squatter Camps and farming settlements spread throughout the district. The District Municipality spans over an area of +/-20,668km² which equates to 16.04% of the overall Free State Province.

The age and gender profile already gives an indication that men and women mostly work within the District Municipality and Province. The male/female split is 49/51 – this does not indicate permanent labour migration.

Fezile Dabi District shares provincial borders with Gauteng Province, Mpumalanga Province and the North West Province. The other borders are with the Lejweleputswa District and Thabo Mofutsanyane District.

Fezile Dabi DM accounts to approx 18.5% of the Free State economy. The unemployment rate is approximately 14.2%. The economy of Fezile Dabi is made up of trade, manufacturing, construction, mining and agriculture.



2. WATER SERVICES PROFILE

The DM has Water Service Authority Status and is therefore responsible to provide efficient, effective and sustainable water services to the people within their area of jurisdiction.

The accepted minimum levels of service provision as prescribed by the Reconstruction and Development Programme (RDP) are:

Water

A minimum availability of 25l/capita/day,

A minimum flow rate of 10l/minute,

A maximum walking distance of 200m to the nearest tap,

Water must meet SABS 0284 quality standards in terms of chemical content, microbial content, taste, colour and appearance and a guaranteed assurance of water of more than 98% of the year.

Sanitation

Individual households to have access to a Ventilated Improved Pit (VIP) latrine as the minimum standard in human sanitation requirements; and a maximum walking distance of 50m from the homestead to the closest sanitation facility.

The level of hardship figures for water services can be defined as water and sanitation services not meeting **all** of the basic RDP criteria mentioned above. Further to this, the DWA Directorate Planning and Information has prepared a Topic Extract on Water Backlog Eradication Strategy for every Water Services Authority and should be read supplementary to this document. The hardship within the DM is discussed in more detail in the paragraphs here after.

2.1 Water Supply Needs

The service level profile of the District Municipality shows significant progress in the provision of basic services for water. Adequate service levels have so far reached about 139114 households which represents 97.33% of the population for water to at least within 200m. This leaves a gap of 2.67% water backlog. The backlog is a combination of infrastructure provision (capital works) as well as operational/management aspects. The critical shortage of O&M funds and adequate staffing result in systems not being maintained and operated efficiently.

The uncontrolled higher levels of water use, vandalism, theft and unaccounted-for water cripples the water supply schemes. The water resources-, water services infrastructure-, upgrading-, refurbishment- and replacement needs are high due to higher levels of services required and expected by the water users.

Details on the water supply type per Settlement are tabled on pages 03 and 04. The District Municipality needs to integrate water related environmental issues in its integrated environmental management plans i.e. grey water management, threats of water pollution and other water resource related challenges.

Refer to page 3 and 4 in section 2 for more details in this regard.

2.2 Sanitation Needs

The most urgent area for sanitation is access to basic safe sanitation structures. The sanitation backlog is for about 27875 households, ie about 13.5% of the population. The largest backlog is present in the urban and farming settlements – this would be addressed by mostly new VIP structures and secondary by upgrading existing structures. The upgrading possibility may be problematic due to a view that such a household insisting on a new facility (as it is their right to have access to this).

The District Municipality is currently focusing on addressing backlogs for provision of basic service, but with a very small yearly budget. The extent of service level upgrading and covering full waterborne sanitation is currently confined to the settlements within the urban areas.

Details on the sanitation supply type per Settlement are tabled on pages 05 and 06.

Refer to page 5 and 6 in section 2 for more details in this regard.

2.3 Water Services Schemes: Number, Type and Sophistication

There are approximately 15 surface- and groundwater schemes within the DM aiming to serve the people at RDP standard. The district is well developed with large regional schemes & local schemes which supply water through extensive bulk distribution systems. These systems usually obtain water from major dams in the area. The most recent development is the construction of the Ngwathe bulk water supply projects. The smaller scheme areas are dependent on groundwater supply – the minority of systems rely on wellfield type of development. Groundwater is a major contributor to water supply and needs to be managed properly.

There are 14 Water Treatment Works (WTW) (with some package plants which were only supposed to be a temporary measure) serving the major water schemes. There are 22 Wastewater Treatment Works (WWTW) within the DM (captured on the DWA/WSA database). Very few (if any) of these works have been accredited with blue or green drop certification and has reached a stage where substantial refurbishment is required to keep the schemes functional. The operation and maintenance of these schemes are also a problem due to a lack of capacity within the LM's.

Surface water as well as groundwater is the main water resources in the District Municipality. Without proper management, the resources will not be sufficient for the growing demand, especially in the urban areas.

Fezile Dabi DM has not attended to the development of water scheme technical development plans, for all areas within the DM. Although these development plans address most of the major scheme areas, some are dated and needs to be updated.

2.4 Water Services Projects

The existing funding grants for the municipal capital projects and operating subsidies for water services are mainly funded by the Municipal Infrastructure Grant (MIG). The main objective of MIG is to assist WSAs by providing grant funding in removing the backlog concerning basic municipal services to poor households. The funding is allocated to the WSA, e.g. the LM. A complete water services project list is included within the latest LM WSDP. The RBIG funding has assisted in the development of the Ngwathe, Moqhaka area.

The funding streams for infrastructure development over the next three years are tabled within Table 2.4: Funding Streams below:

Table 2.4: Funding Streams

FUNDING STREAM	2011/2012	2012/2013	2013/2014
Municipal Infrastructure Grant	R 29 601 520.04	R 6 180 000.00	R 0
Regional Bulk Infrastructure Grant	R 20 813 631.00	R 40 000 000.00	R 50 000 000.00
Sanitation Human Settlement Grant	R 0	R0	R 0
Equitable Share (Infrastructure related services)	R 0	R0	R 0
Accelerated Community Infrastructure Programme	R 0	R 0	R 0

The Topic Extract: Water Backlog Eradication Strategy for the DM has developed a basic cost benchmark for scheme development in the DM based on the availability of the water source and the number of households within a community. This resulted in basic scheme development cost per household as R10 000 for water and R9 500 for sanitation (sanitation capped by the subsidy amount).

This cost benchmark has assisted in determining the total funding allocation required to eradicate water services backlogs and whether the WSA will be able to meet the National water services targets of 2014 (for water supply) and 2014 (for sanitation provision). The amount required to eradicate the water supply backlog is approximately R1 063 million and for sanitation it is R705 million. The DM will definitely not meet the national millennium development targets of 2014 with the current funding allocations. Further to this, the DWA: Directorate Planning and Information has developed a Regional Bulk Master Plan to provide a total perspective per WSA on their first order Regional Bulk Infrastructure requirements.

2.5 Operational Issues (service quality, water quality, etc.)

Each LM is their own WSA, who is responsible for the water services policy development and project implementation, planning, regulations and Water Services Provider arrangements. The current capacity within the WSA is quite limited that results in poor service quality and operation and maintenance of schemes.

Improvements can be made, in areas such as skilled process controllers, monitoring programme and drinking water compliance.

There are still notable challenges being faced by the DM, including waste water quality compliance and monitoring programme.

The challenge is dilapidated infrastructure and lack of qualified artisan and process controllers. Another challenge is inadequate budget to match the age of the infrastructure. Expansions in the towns took place without any expansions to the treatment works. In general all the water and waste water treatment works are overloaded.

The solution is to access to refurbishment and extension budget, estimated at R1 040 million for the entire district, and to budget for the recruitment of qualified Artisans and Process Controllers.

2.5.1 Ability to Implement Capital Projects

Each LM within the DM receives the majority of their funding from the MIG and is implementing the programmes. Some management capacity to adequately monitor and manage the disbursement and implementation of this funding is lacking, but is not crippling the implementation process.

2.5.2 Ability to Operate and Maintain Schemes

Each LM WSA is currently understaffed and requires skilled personnel to successfully fulfil its water services provision function. A huge capacity problem exists within the DM with respect to staff, appropriate skills and processes. A Section 78 was conducted during 2004. It is however recommended that a WSA evaluates their current WSP arrangements in order to assess the current staffing gaps with respect to skills, resources and processes. This will assist the WSA to identify the mechanism that should be implemented to deliver an effective and efficient service. Alternatively support needs to be provided to each WSA within the DM to implement processes for planning and operational issues.

2.5.3 Ability to Ensure Effective Water Services are Progressively Provided in District Municipality

Each WSA within the DM is responsible for water services within their area of jurisdiction and is therefore required to prepare a Water Services Development Plan (WSDP) inclusive of a 5-year plan to eradicate water services backlogs. The WSA's needs to update the WSDP as there are still many gaps identified and planning is required to address these gaps. DWA is providing support to this process in terms of training, process facilitation, as well as monitoring and evaluation.

The overview assessment of the overall quantity (level of detail of the information) and quality (level of accuracy of information to meet the compliancy requirements) assessment of the current WSDP 2011 is illustrated overview Assessment for DM.

3. KEY ISSUES AND INTERVENTIONS

The main challenges that face DM in water services provision as per their IDP 2011/12 and confirmed not only in the overview provided above but also within their WSDP of 2011, are as follows:

- The settlements are spread over a vast geographical area which poses management and O&M difficulties,
- Water resources are limited and users aspired higher levels of services,
- High costs are involved to provide adequate water resources, bulk water distribution and water services infrastructure,
- Cost recovery systems are not in place, a culture of 'free water' is problematic in the District Municipality area,
- There are high levels of un-accounted-for water and illegal connections,
- Water Conservation and Demand Management systems are not in place,
- There is an extent of water services backlogs,
- Some infrastructure exceeded its design life,
- In cases infrastructure capacity does not meet the infrastructure demand due to rapid and unplanned growth
- Most schemes require refurbishment- and extension of infrastructure,
- WWTWs exceeding their design capacity and environmental pollution occurs,
- Levels of vandalism and cable/engine theft occurs,
- Shortage of skilled personnel that result on the poor maintenance of existing infrastructure,
- Low revenue generation that has an impact on the financial sustainability of the municipal water & sanitation service. The failure to impose cost recovery, together with poor cost recovery, have meant that the service is currently not generating sufficient revenue. This is also affected by inaccurate consumption data due to a lack of water meters, faulty meters and meters not being read in all areas.
- Many consumers are unemployed and dependent on government grants.

3.1 Access to Water and Sanitation

3.1.1 Water Supply

The WSA's have indicated in their Services Level Policy that all farming communities will be served at RDP standards and urban areas will receive higher levels of service. Based on the backlog study mentioned in paragraph 3.4, the cost to eradicate backlogs and provide water at RDP standards, is R1 063 million. The expansion of regional scheme infrastructure is required to ensure sustainability of water resources.

3.1.2 Sanitation

The WSA's have indicated in their Services Level policy that all farming communities will be served at RDP standards and urban areas will receive waterborne sanitation. Based on the backlog study mentioned in paragraph 3.4, the cost to eradicate sanitation backlogs is R705 million.

3.2 Institutional Arrangements and Support

The lack of skilled staff also results in the provision of poor service quality. The WSA capacity Business Plan should be utilised to indicate which training and staff development programmes should be investigated to improve the capacity of the WSA. Specific support may relive pressures on current limited and low experienced staff, but also improve on the operational and maintenance aspects of regional and rudimentary schemes. Long term financial sustainability of the proposed scheme is heavily dependent on adequate levels of revenue collection and cost recovery. To ensure the long term sustainability of the scheme, revenue collection must be extended to cover all those households that use more than the designated "free basic water" allocation of 6 kl per household per month. One of the challenges faced by the District Municipality is the control of water losses. The unaccounted for losses are high and are made up of:

- Losses through leakages in the old infrastructure
- Unauthorized connections

• Metered connections not being billed

3.3 Implementation of Effective Water Conservation and Demand Management (WC&DM) and Other Programmes

The DWA is also currently providing WSDP support to Local Government and is part of the current WSDP enhancement process. The Support Team will ensure that all the linkages with other related planning activities are established as well as building the capacity of the WSA officials and politicians.

4. WATER RESOURCES

4.1 Surface Water

One of the main challenges facing the supply of Surface Water will be to address the payment for services by end-users. There are a number of dams which are supplying their maximum allocated domestic yield.

4.2 Groundwater

The borehole yields in the District Municipality falls mostly within the 0 to 3.0 l/s range, and could supply quite a number of communities with safe potable water, provided that the water quality is within limits. The groundwater development should now concentrate on developing well fields instead of the closest potential borehole for individual village supply. Such an exploration programme could have a meaningful impact on the groundwater potential.

Groundwater should play a crucial role to augment surface water resources, especially during periods of drought, or as backup during periods of equipment failure of high demands on surface sources.

It is believed that an approach whereby surface and groundwater resource are planned and operated as a unit will ensure safe, potable and sustainable water supply to communities.

4.3 Irrigation

Most irrigation is done for commercial farming. The developed commercial schemes are not operating to their potential

5. TRANSFER PROGRESS - WATER SERVICES

TRANSFER AGREEMENT PROGRESS

COMPL	ETE TA's	MILESTONES		PROGRESS BAR CHART	KEY DATES	Addendums
59	100%	iff TA. Plan al OK jotiate Sub.	rog.	1 .0 .0 .0 .0 .0 .0 .0 .0 o`l	Effective Estimated Signature	lendum 1 lendum 2 lendum 3 lendum 4
WSAN	IAME	Dra Act. Leg Neg DG Sigr	1 %	20% 20% 50% 50% 70% 80% 100%	Date Completion Date	Adc Adc Adc Adc Adc Adc
15 Kopai	nong		100%	6	1-Jul-06 11-Jul-06	

Legend:

In Circulation for final signature by DG

Addendum completed and signed off

Not complete

Addendum drafted - signature awaited

VALUE OF ASSETS TRANSFERRED: TA VALUE

	Т	A Prog.	AS	SSET VAL	JE			TRANS	FERRED A	SSETS AS	PER T.A.	VALUES ³		
				(x R1,000)						(x R1,000)				
	μ	Signature	FA	RPMS ²	TA	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	Total
WSA NAME	S	Date	Baseline	Verified	Value ¹	2002/03	2003/04	2004/05	2005/06	2006/07	2007/06	2006/09	2009/10	Value
15 Kopanong		11-Jul-06	8,695	8,695	8,695					8,695				8,695

VALUE OF ASSETS TRANSFERRED: FUNCTIONAL ASSESSMENT VALUE

	T	A Prog.	A	SSET VAL	UE		TR	ANSFERR	ED ASSET	S AS PER	VERIFIED	FA BASE	LINE ³	
				(x R1,000)						(x R1,000)				
	ᄝ	Signature	FA	RPMS ²	TA	2002/02	2002/04	2004/05	2005/06	2006/07	2007/00	2009/00	2000/10	Total
WSA NAME	S	Date	Baseline	Verified	Value ¹	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	Value
15 Kopanong		11-Jul-06	8,695	8,695	8,695					8,695				8,695

REPLACEMENT VALUE OF ASSETS TRANSFERRED: TA VALUE

	1	ΓA Prog.	RE	PLACE CO	OST		TRA	ANSFERR	D ASSETS	S AS PER	Γ.A. VALU	ES ²	
				(x R1,000)					(x R1	1,000)			
	μ	Signature	FA	RPMS	TA	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	Total
WSA NAME	ပိ	Date	Baseline	Verified	Value ¹	2002/03	2003/04	2004/05	2005/06	2006/07	2007/06	2006/09	Value
15 Kopanong		11-Jul-06	11,939							11,939			11,939

NUMBER OF SCHEMES TRANSFERRED: TA VALUE

	TA Pro	g.						SCH	EMES								;	SCHEME	S TRANS	FERRED			
												_						FA BASE	PLUS ADD	ITIONAL			
	Signat Date	FA	1		FA Bas	eline			RPMS	Verified ¹		TA Nu	mber of S	chemes	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	Total Schemes
WSA NAME	ဒိ	Baseli	Schen	ies	Rud.	Projects	Total	Schemes	Rud.	Projects	Total	FA based	Additional	Total									Schemes
15 Kopanong	11-Jul	06 1	1				1	1			1	1		1					1				1

STAFF TRANSFERRED AND SECONDED

	TA	Prog.		ST	AFF VALU	ES						STAF	TRANSFI	ERRED				
	[Staff	PLAN	NNED		ACTUAL												
	립	Transfer	FA	TA	Actual	Staff	Remain	2002/02	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	0000/10	0010/11	0011/10	TOTAL
WSA NAME	Š	Date	Baseline	Revision	Total	Seconded	DWAF	2002/03	2003/04	∠004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	IOIAL
15 Kopanong		n/a	0	0	0													

REFURBISHMENT SCHEDULE

			REFURB	ISHMENT						DoRA Al	LOCATIO	NS - REFU	IRBISHMENT	ONLY				ı	UNDING	ì
			(x R	1,000)								(x R1,000)						REG	UIREME	NTS
	FA	RPMS	Budget	Est.	Est. per	TA	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	Total	To Budget in	Addition	Addition
WSA NAME	Baseline ¹	Verified	g	Exec Summ	RPMS	Figures ²	2002,00	2000/01	200 1/00		2000/01	2001700	2000/00	2000/ 10			DoRA	DoRA	Needed	Needed
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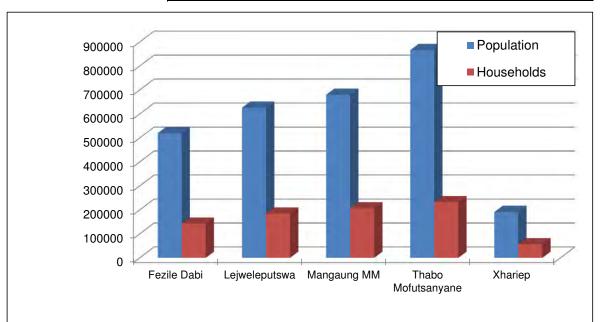
SECTION 2 STATUS QUO SITUATION

EXISTING DEMOGRAPHICS

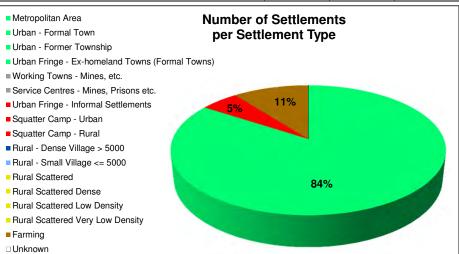
Settlement Based

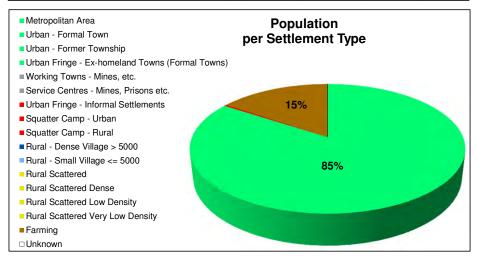
	SETTLEMENT DEMOGRAPHICS (Dece	ember 2011)		
DM / MM	LM	Settlements	Population	Households
Fezile Dabi	Mafube Local Municipality	6	68656	18519
Fezile Dabi	Metsimaholo Local Municipality	8	150132	43767
Fezile Dabi	Moqhaka Local Municipality	7	170601	43015
Fezile Dabi	Ngwathe Local Municipality	14	130737	37632
Lejweleputswa	Masilonyana Local Municipality	13	69531	19909
Lejweleputswa	Matjhabeng Local Municipality	17	349987	109371
Lejweleputswa	Nala Local Municipality	5	106981	29234
Lejweleputswa	Tokologo Local Municipality	9	40475	11605
Lejweleputswa	Tswelopele Local Municipality	6	58935	14904
Mangaung MM	Mangaung Metropolitan Municipality	59	680441	206832
Thabo Mofutsanyane	Dihlabeng Local Municipality	15	126787	34101
Thabo Mofutsanyane	Maluti a Phofung Local Municipality	49	422500	111038
Thabo Mofutsanyane	Mantsopa Local Municipality	12	56128	15135
Thabo Mofutsanyane	Nketoana Local Municipality	9	70837	18988
Thabo Mofutsanyane	Phumelela Local Municipality	8	56596	15426
Thabo Mofutsanyane	Setsoto Local Municipality	10	133690	37240
Xhariep	Kopanong Local Municipality	26	58693	18801
Xhariep	Letsemeng Local Municipality	13	50774	15045
Xhariep	Mohokare Local Municipality	7	49081	13265
Xhariep	Naledi Local Municipality	9	32679	9972

DM SUM	MARY		
DM / MM	Settlements	Population	Households
Fezile Dabi	38	520126	142933
Lejweleputswa	50	625909	185023
Mangaung MM	59	680441	206832
Thabo Mofutsanyane	103	866538	231928
Xhariep	55	191227	57083
Total	305	2 884 241	823 799

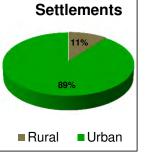


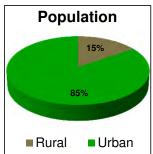
FEZILE DABI DM SETTLEMENT TYPE DISTRIBUTION (December 2011)												
Settlement Type	Settlements	Population	Households									
Metropolitan Area	0	0	0									
Urban - Formal Town	15	92593	25857									
Urban - Former Township	17	345539	95945									
Urban Fringe - Ex-homeland Towns (Formal Towns)	0	0	0									
Working Towns - Mines, etc.	0	0	0									
Service Centres - Mines, Prisons etc.	0	0	0									
Urban Fringe - Informal Settlements	0	0	0									
Squatter Camp - Urban	2	1773	585									
Squatter Camp - Rural	0	0	0									
Rural - Dense Village > 5000	0	0	0									
Rural - Small Village <= 5000	0	0	0									
Rural Scattered	0	0	0									
Rural Scattered Dense	0	0	0									
Rural Scattered Low Density	0	0	0									
Rural Scattered Very Low Density	0	0	0									
Farming	4	80221	20546									
Unknown	0	0	0									



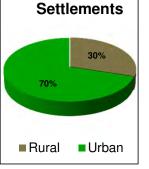


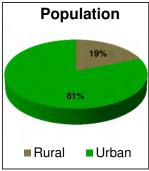
FEZ	FEZILE DABI DM SUMMARY												
Main Type	Settlements	Population	Households										
Rural	4	80221	20546										
Urban	34	439905	122387										
Total	38	520 126	142 933										



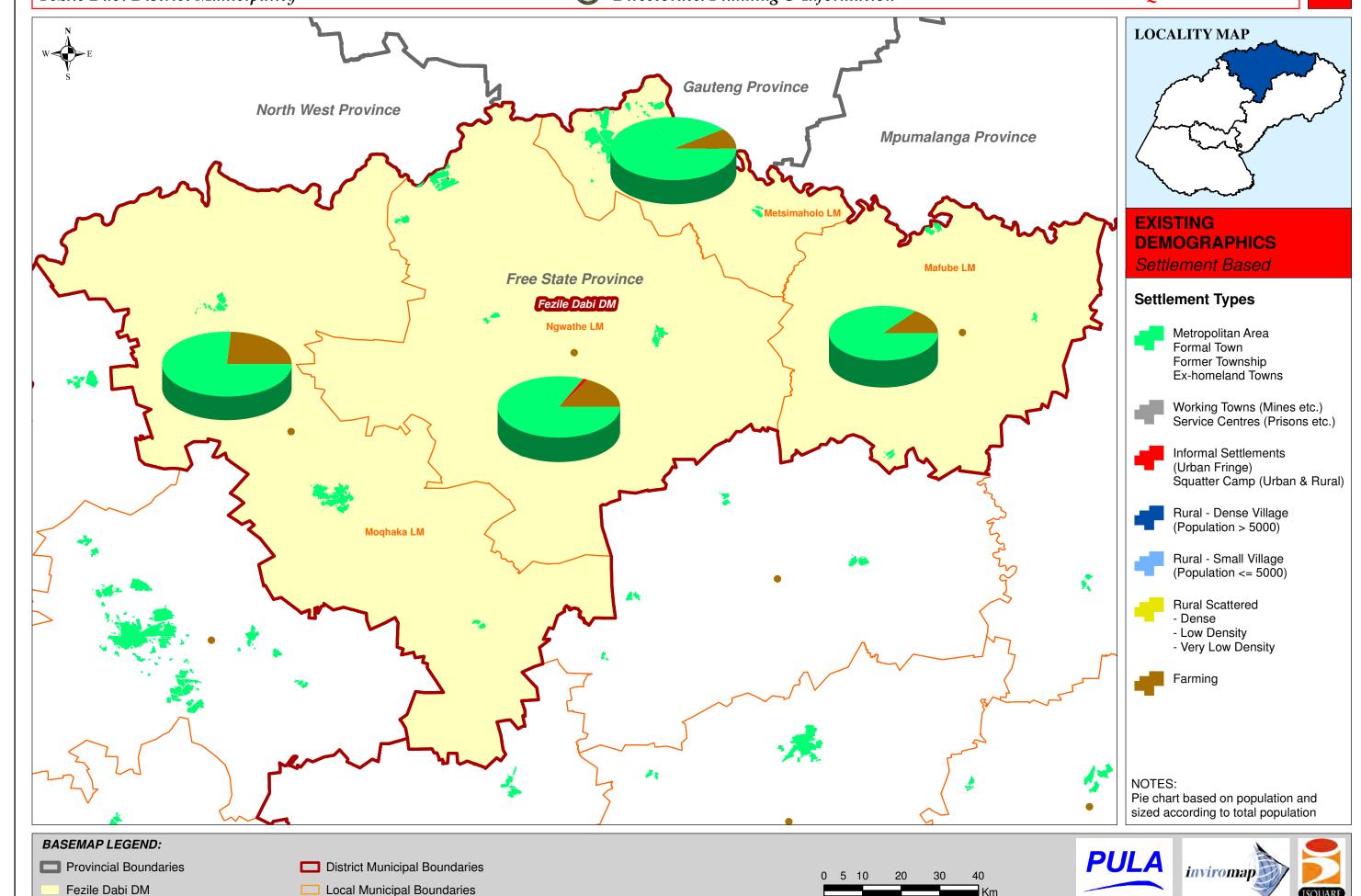


P	PROVINCIAL SUMMARY												
Main Type	Settlements	Population	Households										
Rural	91	548440	152555										
Urban	214	2335801	671244										
Total	305	2 884 241	823 799										



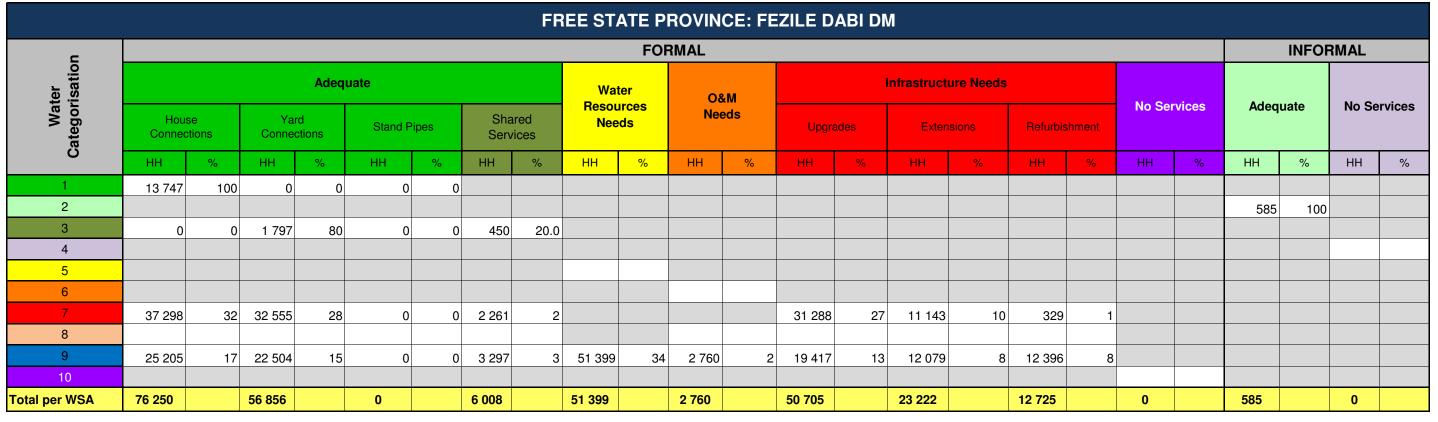


NOTES: Information derived from Reference Framework geodatabase (feature class Settlements).



EXISTING WATER NEEDS CATERGORISATION

Settlement Based

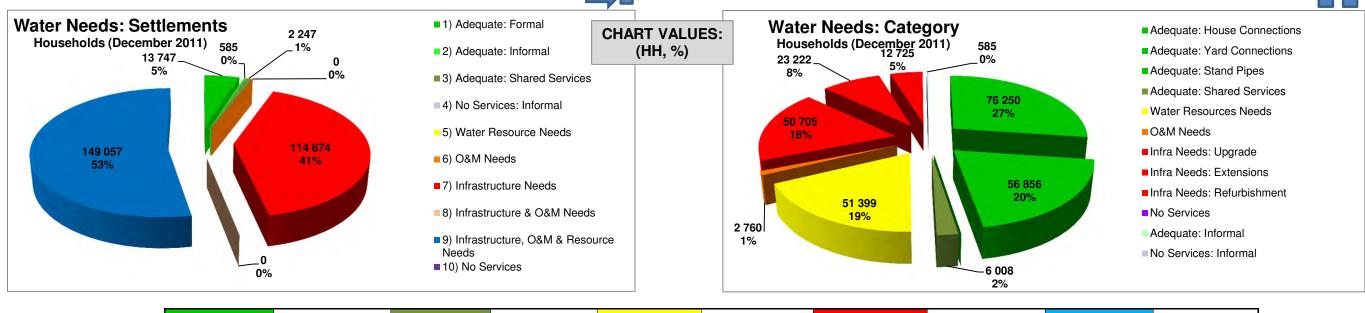


This presents the Water Services Level in relation to **settlement category totals**



This presents the Water Services Level in relation to the **need category totals**





1	Adequate	3	Adequate: Shared Services	5	Water Resources Needs	7	Infrastructure Needs	9	Infrastructure, O&M & Resource Needs
2	Adequate: Informal	4	No Services: Informal	6	O&M Needs	8	Infrastructure & O&M Needs	10	No Services

Fezile Dabi DM

Local Municipal Boundaries

STATUS QUO SITUATION

SECTION 2

Settlement Based

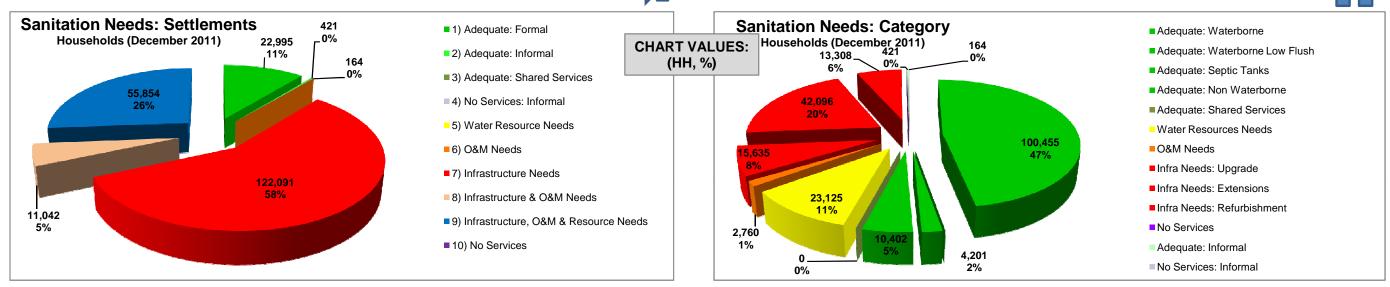
FREE STATE PROVINCE: FEZILE DABI DM **FORMAL INFORMAL** Sanitation Categorisation **Adequate Infrastructure Needs** Water O&M Resources No Services Adequate **No Services Needs** Shared Waterborne Low Needs Refurbishment Waterborne Septic Tanks Non Waterborne Extensions **Upgrades** Flush Services НН НН % НН НН % НН % HH % HH HH HH HH HH HH HH % 20,949 91 0 317 1,729 2 421 100 3 4 164 100 5 6 57,537 47 0 0 3,819 3 6,198 5 0 0 11,890 10 32,100 26 10,547 9 8 25 5,521 50 0 0 0 2,760 2,761 25 23,125 2,475 3,745 18 16,448 29 65 41 9,996 10 Total per DM 100,455 4,201 10,402 23,125 2,760 15,635 42,096 13,308 421 164 0 0 0



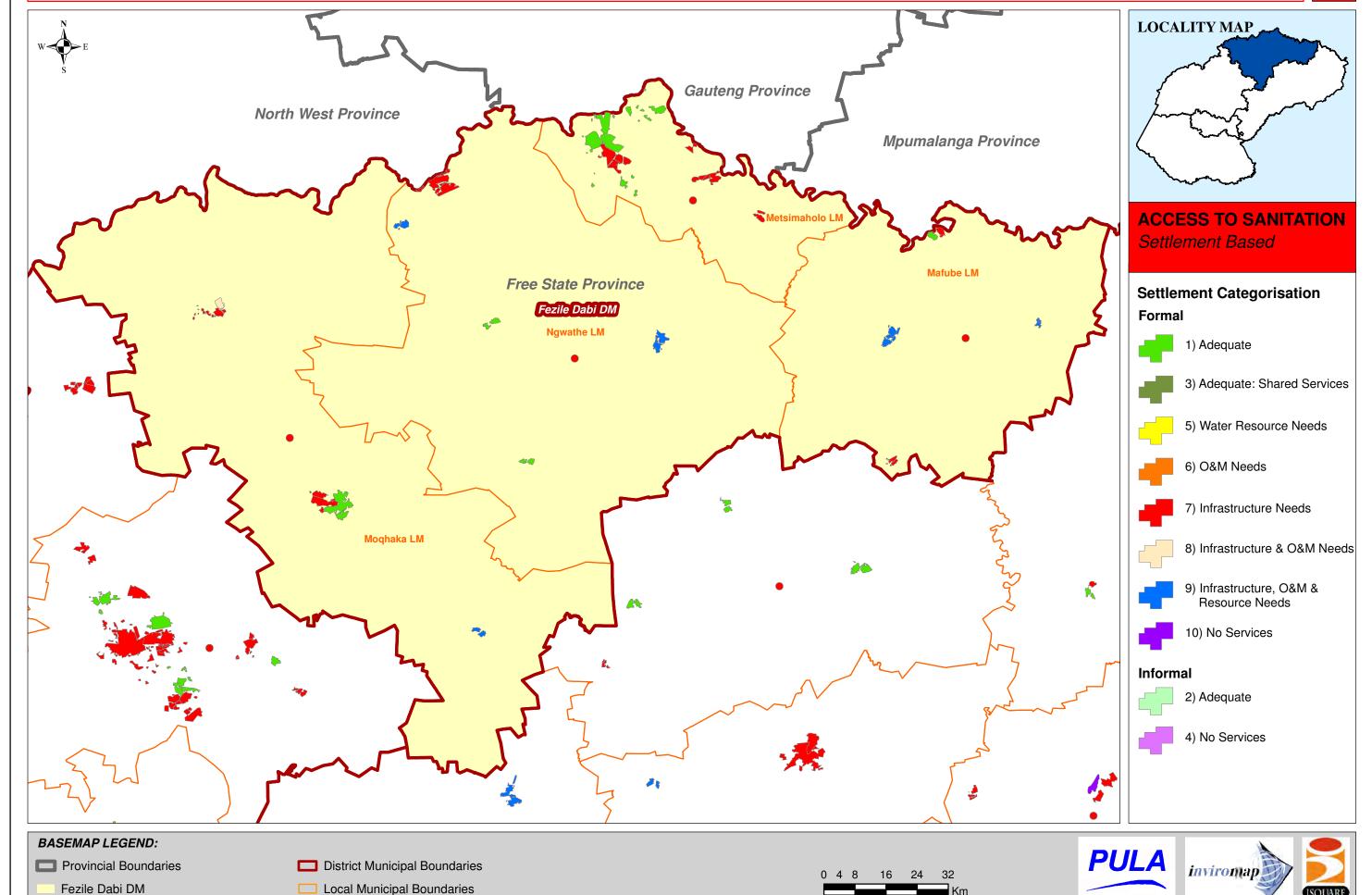


This presents the Sanitation Services Level in relation to the **need category totals**





1	Adequate	3	Adequate: Shared Services	5	Water Resources Needs	7	Infrastructure Needs	9	Infrastructure, O&M & Resource Needs
2	Adequate: Informal	4	No Services: Informal	6	O&M Needs	8	Infrastructure & O&M Needs	10	No Services







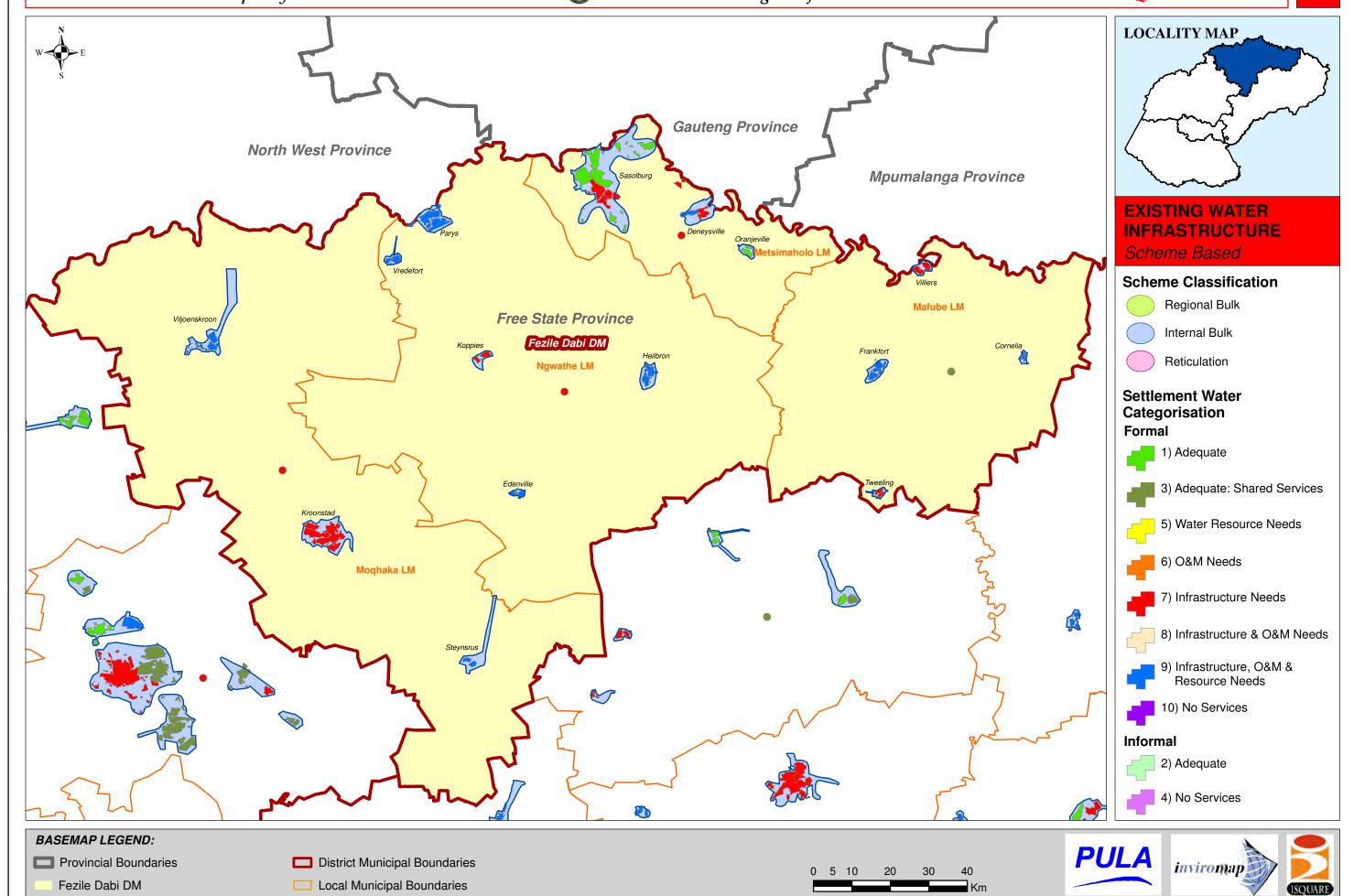




						<u> </u>																
					REGI	ONAL E	BULK						INTE	RNAL E	BULK					RETICULATI	ON	
MM/DM	LM	Number of		To	otal Numb	oer of Cor	nponents		Pipe	Number of		To	tal Numi	ber of Co	mponents		Pipe	Number of	Tota	l Number of Co	mponents	Pipe
		Schemes	Pump Stations	Reser- voirs	wtw	www	Boreholes	Abstractions Works	Length (km)	Schemes	Pump Stations	Reser- voirs	wtw	wwtw	Boreholes	Abstraction Works	Length (km)	Schemes	Street Taps	Erf Connections	House Connections	Length (km)
Fezile Dabi	Mafube	0	0	0	0	0	0	(0 (4	6	7	4	. (6 0	0	25	0	0	0	0	0
Fezile Dabi	Metsimaholo	0	0	0	0	0	0		0	3	21	12	3	3	7 0	0	47	0	0	0	0	0
Fezile Dabi	Moqhaka	0	0	0	0	0	0	(0 34	3	36	17	3	!	5 0	0	94	0	0	0	0	0
Fezile Dabi	Ngwathe	0	0	0	0	0	0		0 5	5	19	19	4	!	5 0	0	66	0	0	0	0	0
Lejweleputswa	Masilonyana	0	0	0	0	0	0	(53	5	12	14	4	1	7 4	0	48	0	0	0	0	J 0
Lejweleputswa	Matjhabeng	0	0	0	0	0	0	(61	6	28	18	C	1:	3 1	0	99	0	0	0	0	0 ر
Lejweleputswa	Nala	0	0	0	0	0	0	(0 0	2	9	15	C) :	2 0	0	27	0	0	0	0	0 ر
Lejweleputswa	Tokologo	0	0	0	0	0	0	(0 0	3	13	15	C) 4	4 25	0	36	0	0	0	0	0 ر
Lejweleputswa	Tswelopele	0	0	0	0	0	0	(0 0	2	10	6	2	2 2	2 0	0	58	0	0	0	0	0 ر
Mangaung Metropolitan Municipality	Mangaung	0	0	0	0	0	0	(0 7	3	19	40	3	3	9 0	0	292	0	0	0	0	3198
Thabo Mofutsanyane	Dihlabeng	0	0	0	0	0	0	(3 0	5	28	26	6	6 (6 0	0	54	0	0	0	0	0 ر
Thabo Mofutsanyane	Maluti a Phofung	0	0	0	0	0	0	(0 22	2 3	58	65	5	5	7 0	0	238	0	0	0	0	0 ر
Thabo Mofutsanyane	Mantsopa	0	0	0	0	0	0	(19	5	13	19	5	5 (6 12	0	61	0	0	0	0	0 (
Thabo Mofutsanyane	Nketoana	0	0	0	0	0	0	(26	6 4	10	10	5	5 4	4 0	0	24	0	0	0	0	0 ر
Thabo Mofutsanyane	Phumelela	0	0	0	0	0	0	(0 0	3	15	6	3	3	4 1	0	20	0	0	0	0	0 (
Thabo Mofutsanyane	Setsoto	0	0	0	0	0	0	(0 64	4	23	13	6	6 !	5 2	0	51	0	0	0	0	0 ر
Xhariep	Kopanong	0	0	0	0	0	0	(0 64	9	22	49	4	12	2 0	0	97	0	0	0	0) 0
Xhariep	Letsemeng	0	0	0	0	0	0	(0 5	5	7	21	4	1 (6 0	0	20	0	0	0	0	J 0
Xhariep	Mohokare	0	0	0	0	0	0	(0 86	3	7	11	2	2 :	3 0	0	26	0	0	0	0	0 ر
Xhariep	Naledi	0	0	0	0	0	0	(0 0	3	9	6	1	;	3 12	0	22	0	0	0	0	0
Total for Province		0	0	0	0	0	0	0	454	80	365	389	64	116	57	0	1405	0	0	0	0	3198

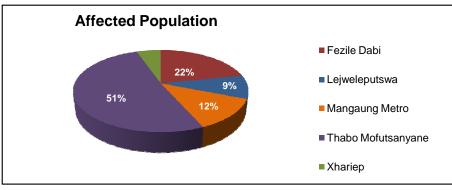
NOTES:

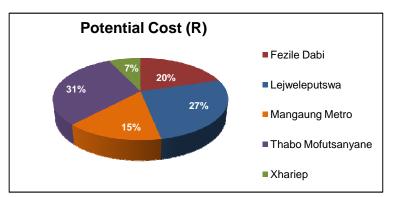
1) Information derived from Reference Framework geodatabase (table XT01).

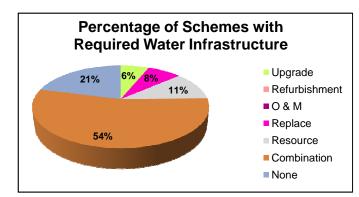


STATUS QUO SITUATION

DEMO	OGRAPHICS (Dece	mber 2011)					BASIC SERVICES REQUIREMENTS							
MM/DM	LM	Total Population	Total Households	Affected Population	Affected Potential Cost Households (R)		Number of Schemes with Required Water Infrastructure							
							Upgrade	Refurbishment	O & M	Replace	Resource	Combination	None	
Fezile Dabi	Mafube	68,656	18,519	92,529	24,609	315,642,596	1					3		
Fezile Dabi	Metsimaholo	150,132	43,767	60,444	15,823	149,633,425						1	2	
Fezile Dabi	Moqhaka	170,601	43,015	199,374	47,470	180,382,468				1		2		
Fezile Dabi	Ngwathe	131,437	37,632	133,725	43,817	395,243,286						5		
Lejweleputswa	Masilonyana	69,532	19,909	76,052	25,693	190,572,621					3	2		
Lejweleputswa	Matjhabeng	349,987	109,371	68,259	21,331	898,397,907						3	3	
Lejweleputswa	Nala	106,981	29,234	3,612	931	50,386,314						1	1	
Lejweleputswa	Tokologo	40,476	11,605	23,077	8,013	136,761,141					1	2		
Lejweleputswa	Tswelopele	58,935	14,904	36,164	9,854	82,161,795	1				1			
Mangaung Metro	Mangaung Metro	680,385	206,820	275,793	87,001	776,299,022						3		
Thabo Mofutsanyane	Dihlabeng	126,788	34,101	125,711	33,345	388,394,536						5		
Thabo Mofutsanyane	Maluti a Phofung	422,502	111,038	715,015	171,477	569,941,024					2	1		
Thabo Mofutsanyane	Mantsopa	56,181	15,148	77,784	23,013	213,792,424						4	2	
Thabo Mofutsanyane	Nketoana	70,837	18,988	14,237	4,563	101,190,725						2	2	
Thabo Mofutsanyane	Phumelela	56,598	15,426	36,237	12,539	96,178,538						1	2	
Thabo Mofutsanyane	Setsoto	133,692	37,240	179,066	49,879	214,512,082						3	1	
Xhariep	Kopanong	58,694	18,801	7,260	2,129	54,348,428	1			5		1	2	
Xhariep	Letsemeng	51,183	15,148	49,729	15,024	204,011,222	1				1	2	1	
Xhariep	Naledi	32,679	9,972	5,569	1,814	24,073,779					1	1	1	
Xhariep	Mohokare	49,081	13,265	56,808	16,807	79,095,989	1					2		
Total for Province		2,885,355	823,903	2,236,446	615,132	R 5,121,019,322	5	0	0	6	9	44	17	





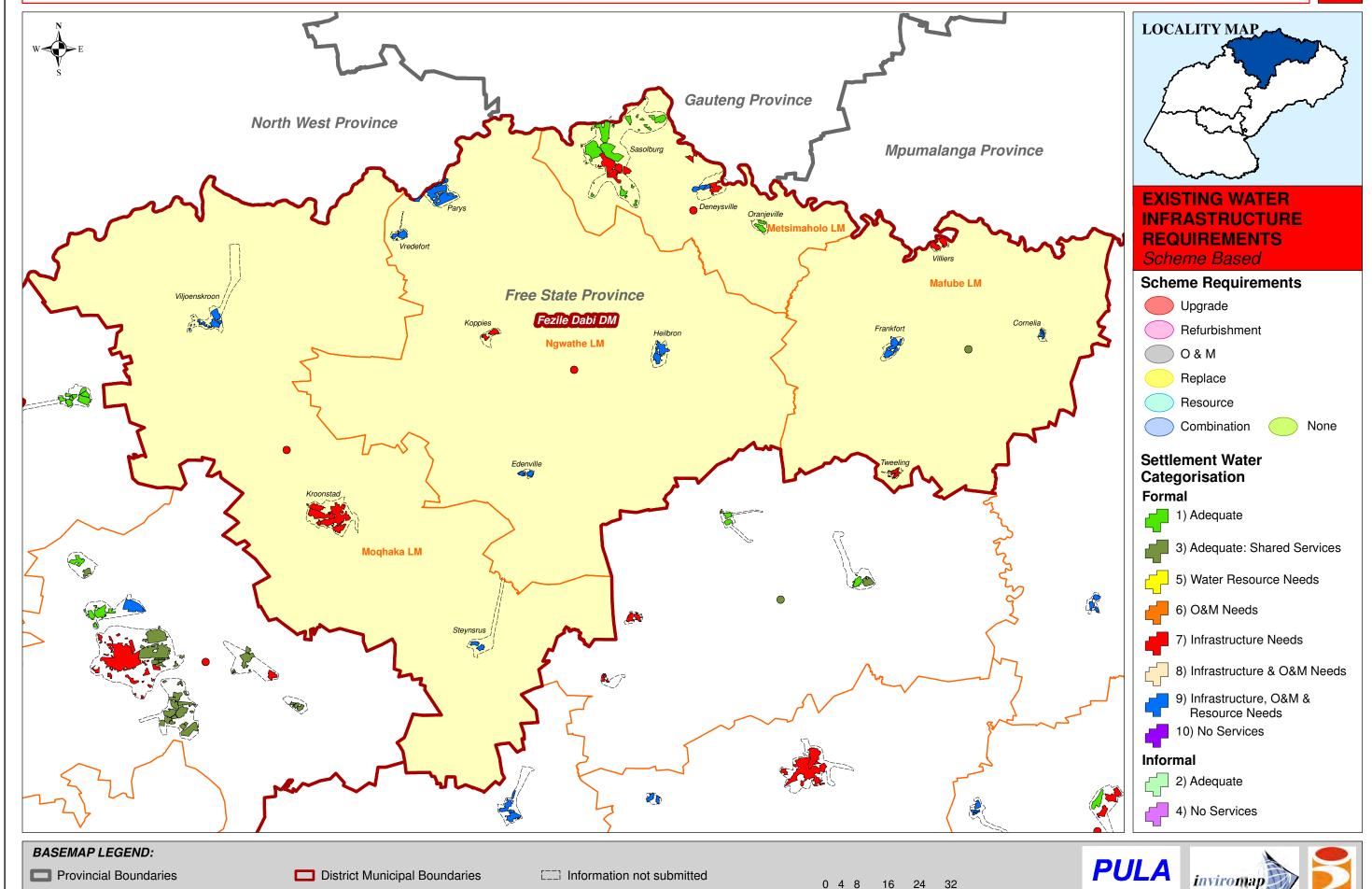


NOTES:

1) Information derived from Reference Framework geodatabase (table XT02).

Fezile Dabi DM

Local Municipal Boundaries

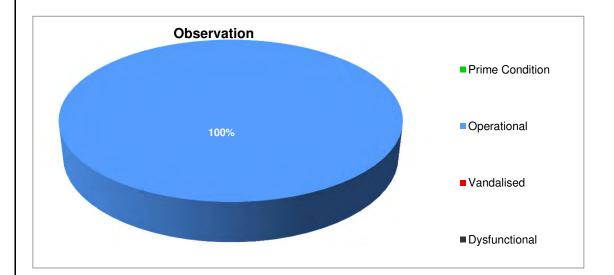


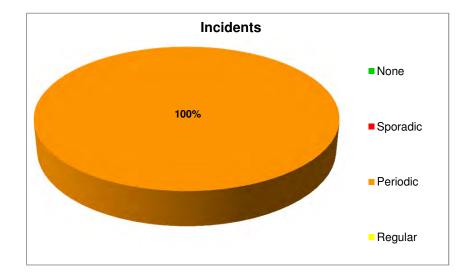


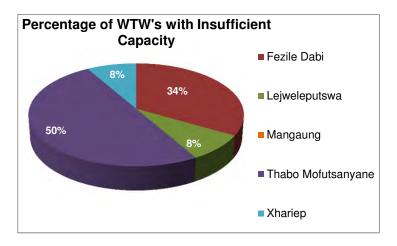
EXISTING WATER INFRASTRUCTURE: WTW

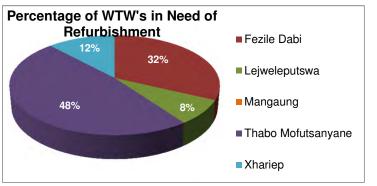
Component Based

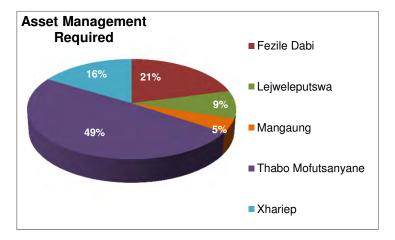
MM/DM	LM	Number of WTW's	Total Capacity ML/day	Number of WTW's with Insufficient Capacity	Number of WTW's in need of Refurbishment
Fezile Dabi	Mafube	4	23.16	3	3
Fezile Dabi	Metsimaholo	3	55.614	1	1
Fezile Dabi	Moqhaka	3	71.64	1	1
Fezile Dabi	Ngwathe	4	23.72	3	3
Lejweleputswa	Masilonyana	4	18.12	2	2
Lejweleputswa	Tswelopele	2	12.8	0	0
Mangaung Metropolitan Municipality	Mangaung	3	318	0	0
Thabo Mofutsanyane	Dihlabeng	6	45.1	3	3
Thabo Mofutsanyane	Maluti a Phofung	5	34.6	0	0
Thabo Mofutsanyane	Mantsopa	5	14.552	2	2
Thabo Mofutsanyane	Nketoana	5	16.25	3	3
Thabo Mofutsanyane	Phumelela	3	12.79	2	2
Thabo Mofutsanyane	Setsoto	6	41.562	2	2
Xhariep	Kopanong	4	18.62	0	0
Xhariep	Letsemeng	4	7.664	1	1
Xhariep	Mohokare	2	2.75	1	2
Xhariep	Naledi	1	0.1	0	0
Total for Province		64	717.04	24	25









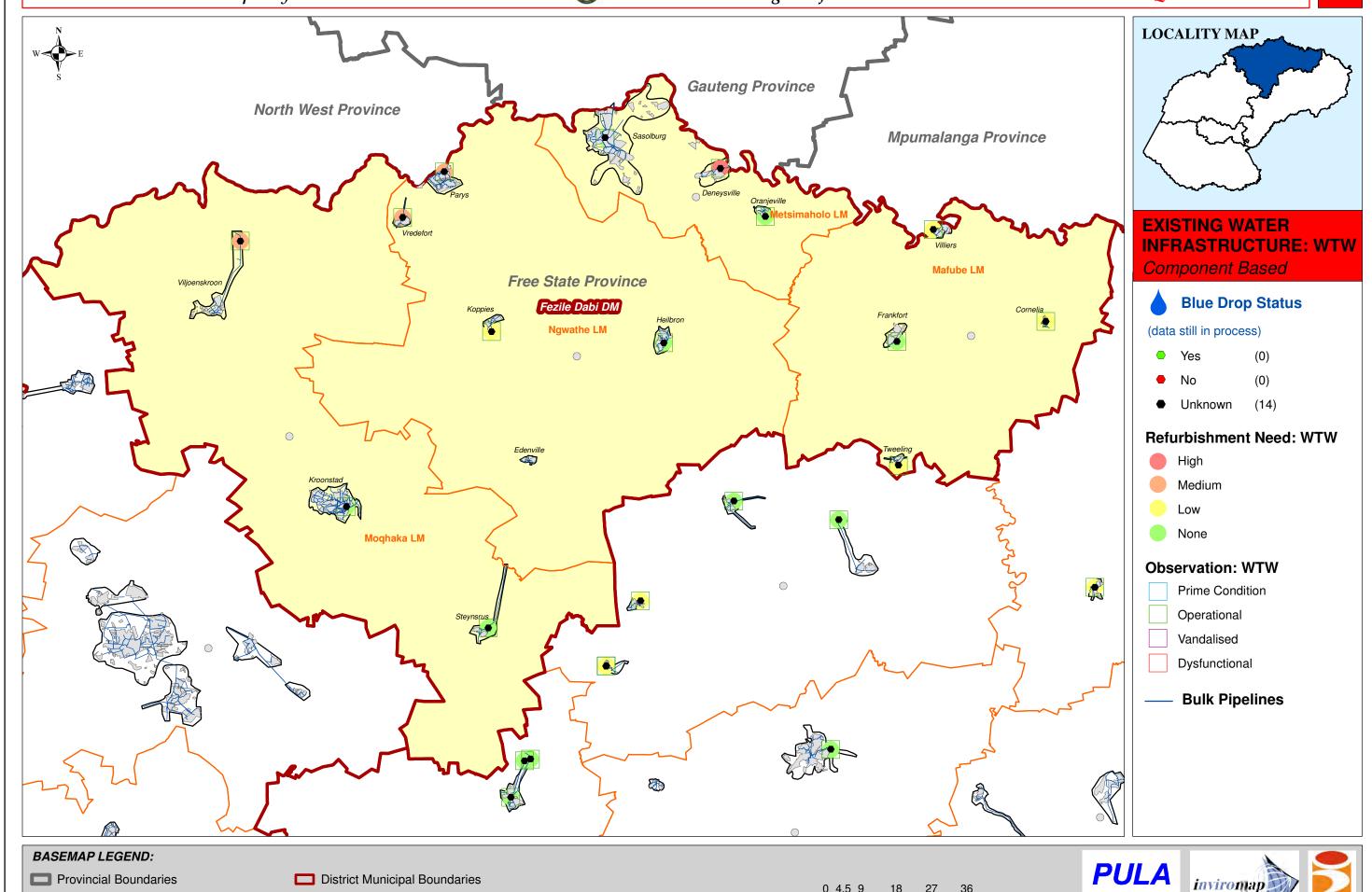


NOTES:

- Information concerning capacity of WTW and Number of Staff on Site is completed as available.
 Information derived from Reference Framework geodatabase (feature class WTW).

Fezile Dabi DM

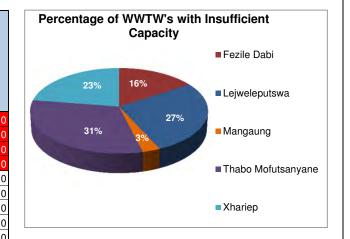
Local Municipal Boundaries

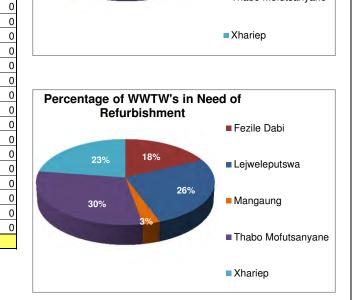


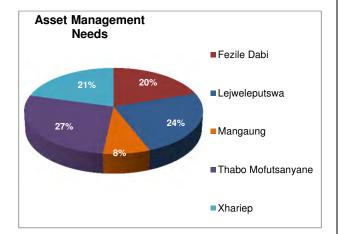
EXISTING SANITATION INFRASTRUCTURE: WWTW

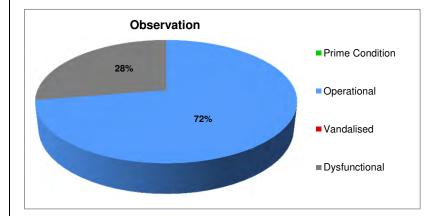
Component Based

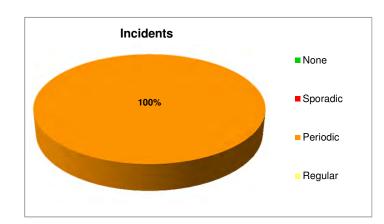
MM/DM	LM	Number of WWTW's	Capacity MI/day: Average Wet Weather Capacity	Operation Capacity MI/day: Average Dry Weather Capacity (Based on organic load)	Hydraulic Capacity MI/day (Based on 24hr flow)	Number of WWTW's with Insufficient Capacity	Number of WWTW's in need of Refurbishment	Number of Staff on Site
Fezile Dabi	Mafube	6	11.411	8.08	10.861	6	6	(
Fezile Dabi	Metsimaholo	7	39.558	39.56	39.56	3	4	(
Fezile Dabi	Moqhaka	5	18	24.8	18	2	4	(
Fezile Dabi	Ngwathe	5	13.65	20.6	13.65	5	5	(
Lejweleputswa	Masilonyana	7	8.354	8.552	8.1	7	7	(
Lejweleputswa	Matjhabeng	13	106.47	109.8	104.47	13	13	(
Lejweleputswa	Nala	2	6.2	9.7	6.2	2	2	(
Lejweleputswa	Tokologo	4	1.7	1.7	2.4	4	4	(
Lejweleputswa	Tswelopele	2	3.2	4.1	3.2	2	2	(
Mangaung Metropolitan Municipality	Mangaung	9	149.75	125.85	129.75	3	3	
Thabo Mofutsanyane	Dihlabeng	6	29.63	25.93	28.68	6	6	(
Thabo Mofutsanyane	Maluti a Phofung	7	34.2	23.6	34.2	7	7	(
Thabo Mofutsanyane	Mantsopa	6	4.2	19		6	6	(
Thabo Mofutsanyane	Nketoana	4	12.16	12.16	12.16	4	4	(
Thabo Mofutsanyane	Phumelela	4	3.252	9.152	3.25	4	4	(
Thabo Mofutsanyane	Setsoto	5	11.57	31.4	17.26	5	5	(
Xhariep	Kopanong	12	6.051	10.026	6.051	11	12	(
Xhariep	Letsemeng	6	4.93	4.93	4.93	6	6	(
Xhariep	Mohokare	3	1.523	3	1.523	3	3	(
Xhariep	Naledi	3	10	-		3	3	
Total for Province		116	475.81	502	458	102	106	0



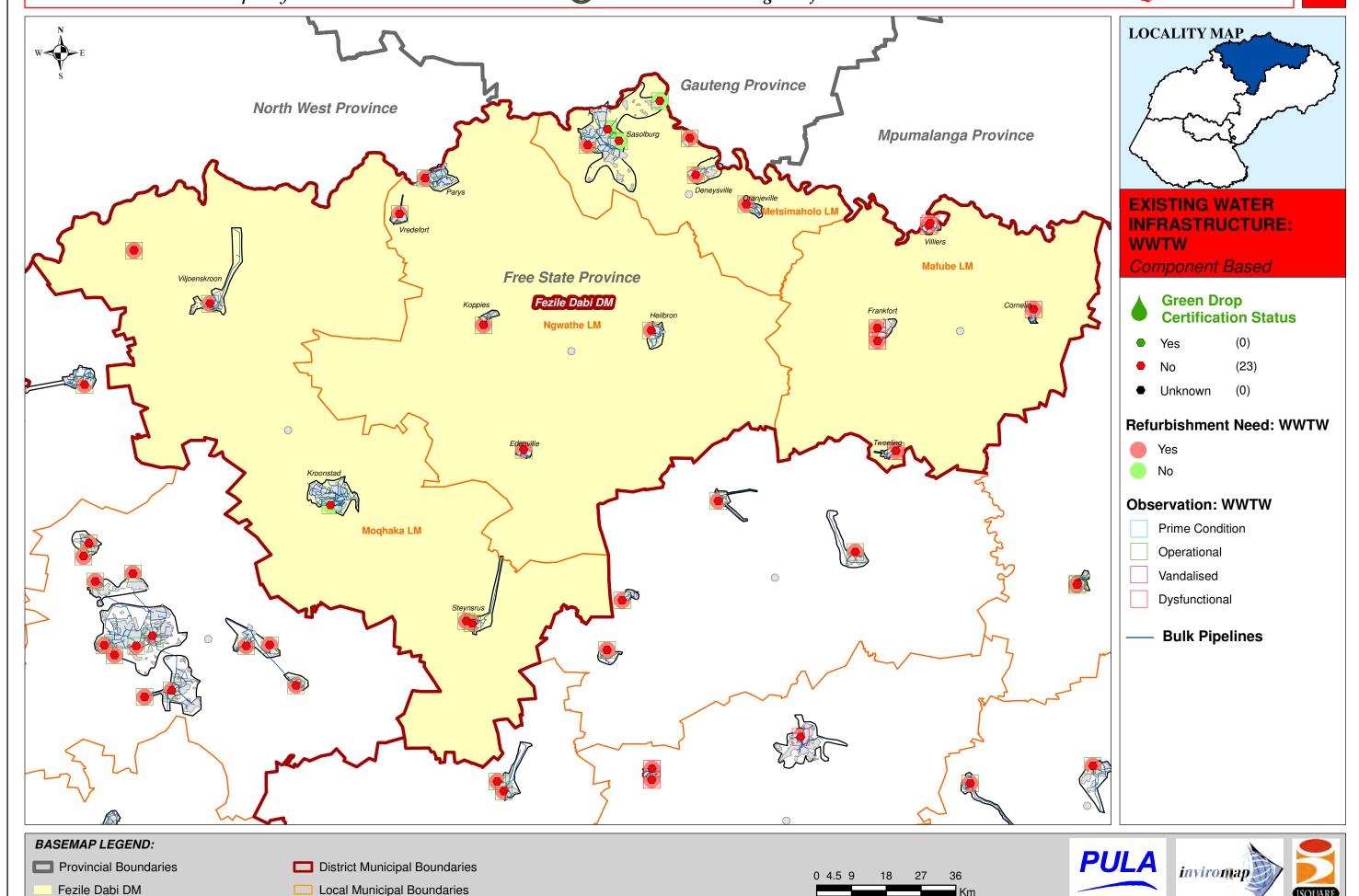








NOTES:1) Information concerning capacity of WWTW and Number of Staff on Site is completed as available.2) Information derived from Reference Framework geodatabase feature class WWTW









O&M STAFF CAPACITY: WWTW

Component Based

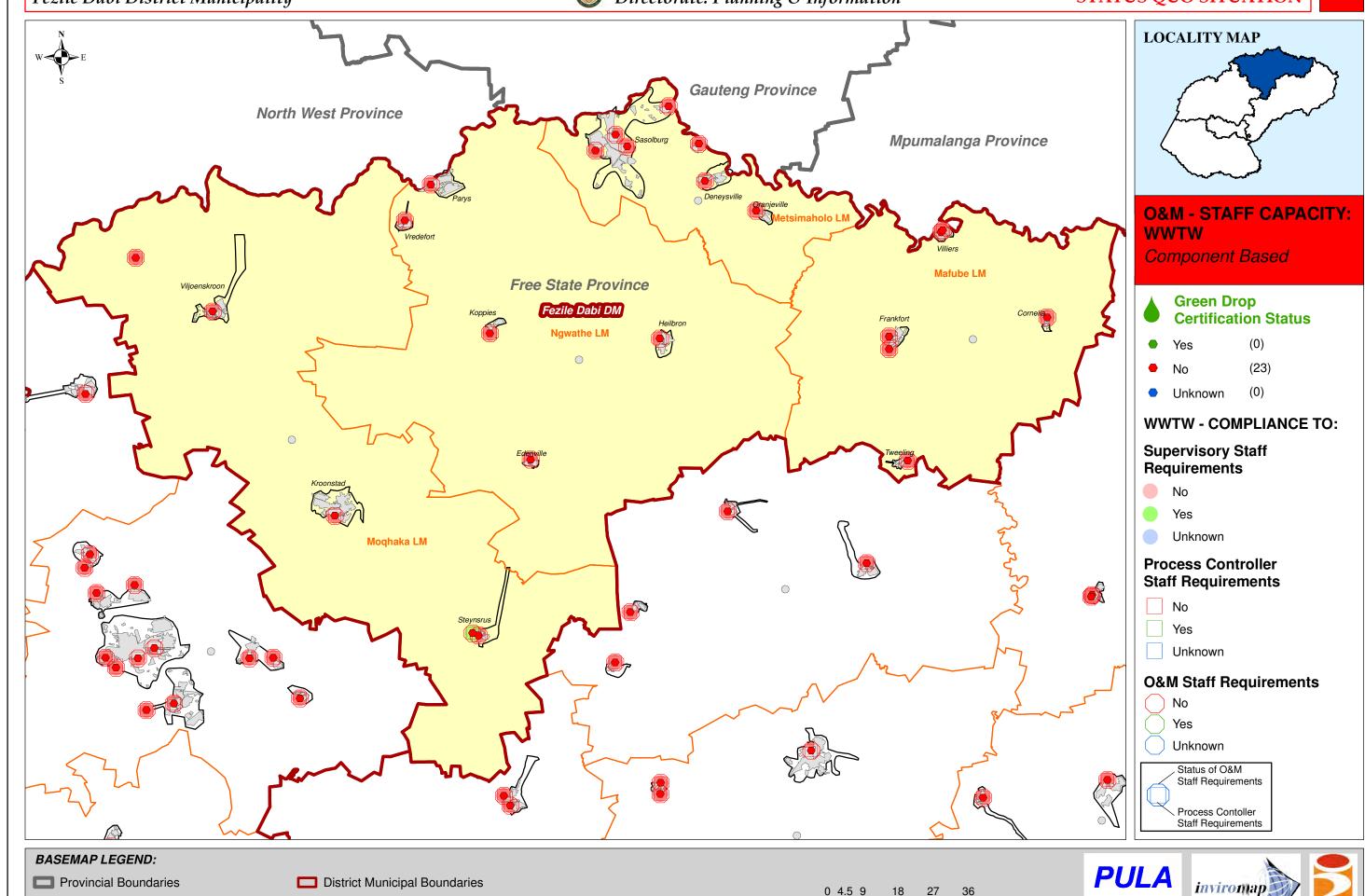
							С	OMPLIANCE T	O:			
		Number of	Number of	Supervis	ory Staff Requ	irements	Process Co	ntroller Staff R	equirements	O&N	Staff Requirer	nents
MM/DM	LM	Number of WWTW's	Staff on Site									
		wwws	(Permanently)	No	Yes	Unknown	No	Yes	Unknown	No	Yes	Unknown
Fezile Dabi	Mafube	6	0	6			6			6		
Fezile Dabi	Metsimaholo	7	0	7			7			7		
Fezile Dabi	Moqhaka	5	0	4	1		5			5		
Fezile Dabi	Ngwathe	5	0	5			5			5		
Lejweleputswa	Masilonyana	7	0	7			7			7		
Lejweleputswa	Matjhabeng	13	0	13			13			13		
Lejweleputswa	Nala	2	0	2			2			2		
Lejweleputswa	Tokologo	4	0	4			4	4		4		
Lejweleputswa	Tswelopele	2	0	1	1		2			2		
Mangaung Metropolitan Municipality	Mangaung	9	0	9			9			9		
Thabo Mofutsanyane	Dihlabeng	6	0	6			6			6		
Thabo Mofutsanyane	Maluti a Phofung	7	0	6	1		7			7		
Thabo Mofutsanyane	Mantsopa	6	0	6			6			6		
Thabo Mofutsanyane	Nketoana	4	0	4			4			4		
Thabo Mofutsanyane	Phumelela	4	0	4			4			4		
Thabo Mofutsanyane	Setsoto	5	0	5			5			5		
Xhariep	Kopanong	12	0	12			12			12		
Xhariep	Letsemeng	6	0	6			6			6		
Xhariep	Mohokare	3	0	3			3			3		
Xhariep	Naledi	3	0	3			3			3		
Total for Province		116	0									

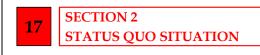
NOTES:

Information concerning Number of Staff on Site and Staff Requirements is completed as available.
 Information derived from Reference Framework geodatabase feature class WWTW

Fezile Dabi DM

Local Municipal Boundaries





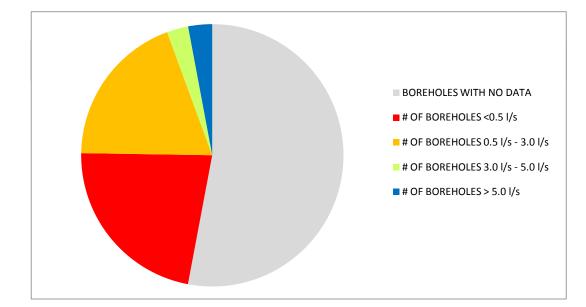
NAME	RIVER	OWNER	WMA	LIVE CAPACITY	1:50 YEAR YIELD	DESIGN CAPACITY	UTILISATION GRADE	TYPE OF WATER USE	TOTAL WATER ALLOCATION	TOTAL ANNUAL YIELD
Bloemhoek Dam	Jordaan Spruit						No Data			
Koppiesdam	Renoster River	DWA	Middle Vaal	42	10	41.2	3-moderate use	irrigation(high value)	20.7	26
Lace Mine Dam	Doringspruit						No Data			
Roodepoortdam	Leeu Spruit					3.6	3-moderate use	(blank)		3.05
Serfontein Dam	Vals River						No Data			
Strydom Dam	Vals River						No Data			
Strydom dam	Vals River						No Data			
Unifeesdam	Eland Spruit						No Data			
Vaaldam	Vaal River	DWA	Upper Vaal	2,603	831	2536	3-moderate use	domestic/industry/mining/irrigation/losses	2400	1056
Weltevrededam	Leeu Spruit						No Data			

Fezile Dabi DM

Local Municipal Boundaries

TOTAL NR OF BOREHOLES	BOREHOLES WITH NO DATA	# OF BOREHOLES <0.5 l/s		# OF BOREHOLES 3.0 l/s - 5.0 l/s	# OF BOREHOLES > 5.0 l/s
2 231	1182	497	427	59	66

AVERAGE BOREHOLE YIELD 1.42 l/s

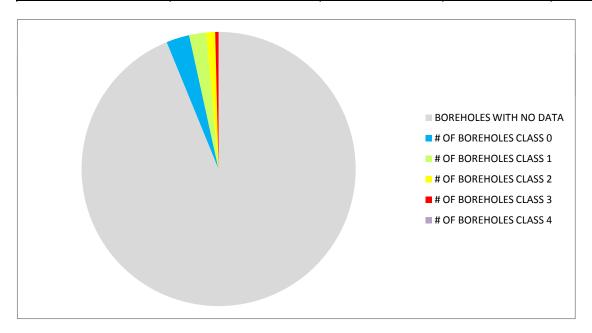




swelopele LM



TOTAL NR OF BOREHOLES	BOREHOLES WITH # OF BOREHOLES CLASS 0		# OF BOREHOLES CLASS 1	# OF BOREHOLES CLASS 2	# OF BOREHOLES CLASS 3	# OF BOREHOLES CLASS 4
2 231	2 093	61	45	23	9	0



WATER QUALITY CLASSIFICATION FOR HUMAN CONSUMPTION

BLUE	Class 0	Ideal water quality - suitable for life time use
GREEN	Class 1	Good water quality - suitable for use with rare instances of negative effects
YELLOW	Class 2	Marginal water quality - conditionally acceptable, negative effects may occur in sensitive groups
RED	Class 3	Poor water quality - unsuitable for use without water treatment, chronic health effects may occur
PURPLE	Class 4	Dangerous water quality - totally unsafe for use, acute health effects may occur

Negative effects can be:

Health effects Illnes

Aesthetic effects Changes in water colour, taste or odour, staining of laundry or household fixtures **Economic effects** Increased soap consumption, and scaling and corrosion of household pipes

CLASSIFIACTION BASED ON: "QUALITY OF DOMESTIC WATER SUPPLIES PUBLISHED JOINTLY BY DEPTS. OF WATER AFFAIRS, HEALTH AND THE WATER RESEARCH COMMISSION"

0 4.5 9 18 27 36 45

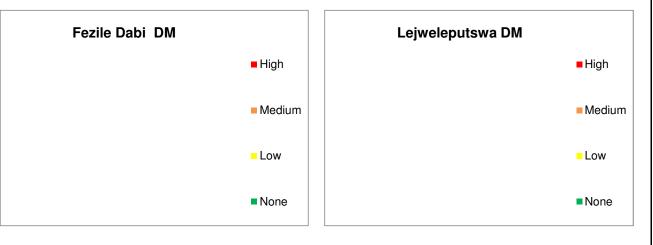
Provincial Boundaries

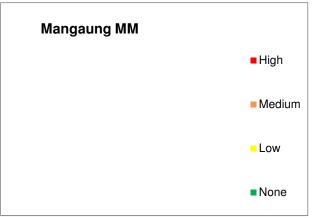
Fezile Dabi DM

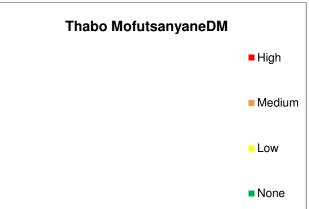
District Municipal Boundaries

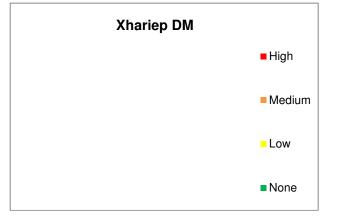
Local Municipal Boundaries

MM/DM	LM	Number of Schemes with O&M Needs									
		None	High	Medium	Low						
Fezile Dabi	Mafube	Not available	Not available	Not available	Not available						
Fezile Dabi	Metsimaholo	Not available	Not available	Not available	Not available						
Fezile Dabi	Moqhaka	Not available	Not available	Not available	Not available						
Fezile Dabi	Ngwathe	Not available	Not available	Not available	Not available						
Lejweleputswa	Masilonyana	Not available	Not available	Not available	Not available						
Lejweleputswa	Matjhabeng	Not available	Not available	Not available	Not available						
Lejweleputswa	Nala	Not available	Not available	Not available	Not available						
Lejweleputswa	Tokologo	Not available	Not available	Not available	Not available						
Lejweleputswa	Tswelopele	Not available	Not available	Not available	Not available						
Mangaung Metropolitan Municipality	Mangaung	Not available	Not available	Not available	Not available						
Thabo Mofutsanyane	Dihlabeng	Not available	Not available	Not available	Not available						
Thabo Mofutsanyane	Maluti a Phofung	Not available	Not available	Not available	Not available						
Thabo Mofutsanyane	Mantsopa	Not available	Not available	Not available	Not available						
Thabo Mofutsanyane	Nketoana	Not available	Not available	Not available	Not available						
Thabo Mofutsanyane	Phumelela	Not available	Not available	Not available	Not available						
Thabo Mofutsanyane	Setsoto	Not available	Not available	Not available	Not available						
Xhariep	Kopanong	Not available	Not available	Not available	Not available						
Xhariep	Letsemeng	Not available	Not available	Not available	Not available						
Xhariep	Mohokare	Not available	Not available	Not available	Not available						
Xhariep	Naledi	Not available	Not available	Not available	Not available						
Total for Province		0	0	0	0						







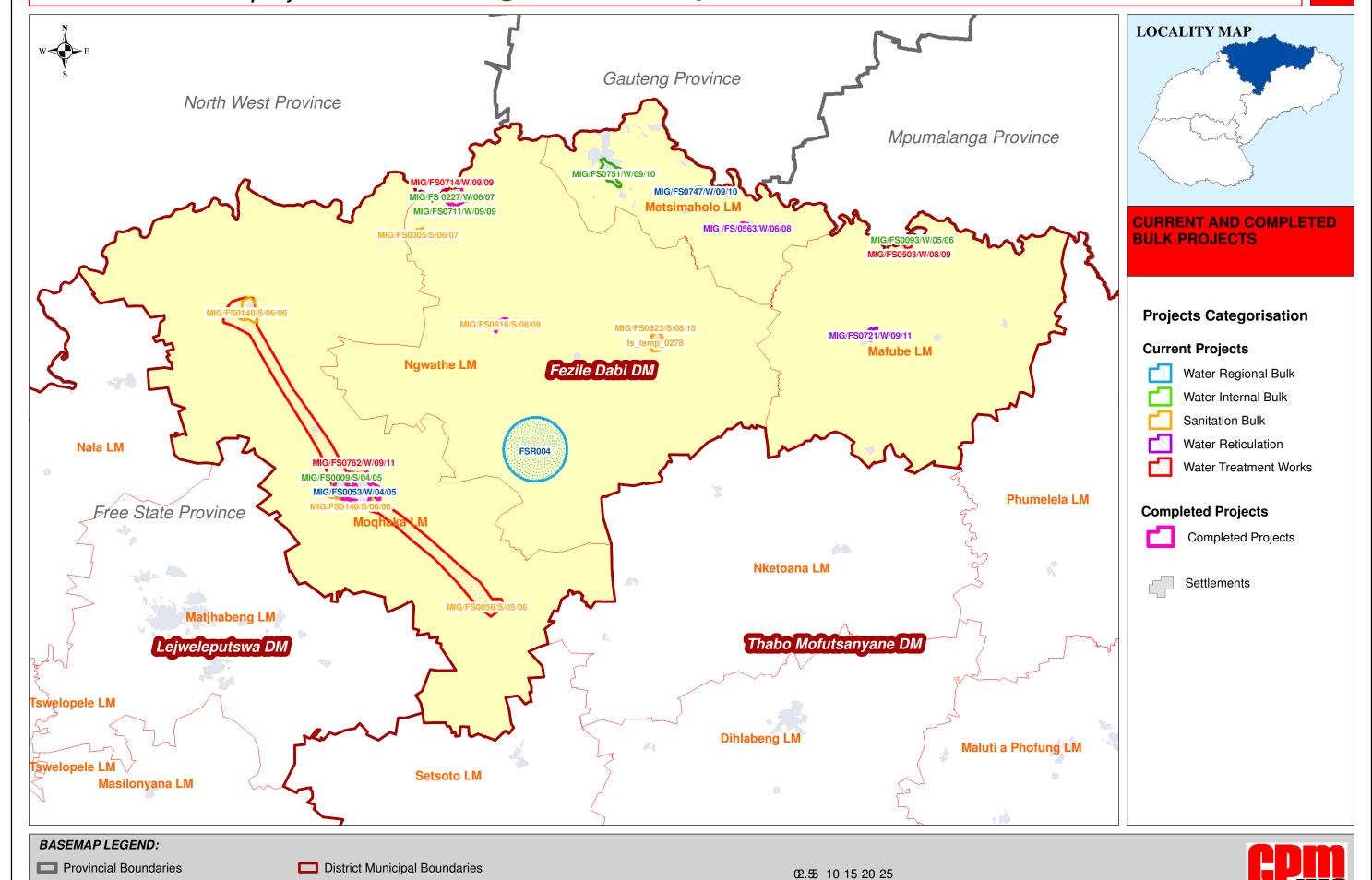


Projects Completed or in Design, Tender and Construction Phase

DISTRICT MUNICIPALITY	LOCAL MUNICIPALITY	PROJECT NUMBER	PROJECT NAME	PROJECT CATEGORY	COMPONENT	PROJECT TYPE	PROJECT STATUS	OWN FUNDING 2011/12	MIG FUNDING 2011/12	RBIG FUNDING 2011/12	DROUGHT RELIEF FUNDING 2011/12	ACIP FUNDING 2011/12	MUNICIPAL INTERVENTION FUNDING 2011/12	OTHER FUNDING 2011/12	TOTAL ALLOCATION (2011/12)	TOTAL FUNDING UP TO 2014/15
Fezile Dabi District Municipality	Moghaka Local Municipality	ACIP	WCDM strategy	Water Regional Bulk	Planning	Water Resource Demand Management	Strategy in	0	0	0	0	350000	0	() (0 350000
Fezile Dabi District Municipality	Ngwathe Local Municipality	ACIP	WCDM strategy	Water Regional Bulk	Planning	Water Resource Demand Management	Strategy in	0	0	0	0	350000	0	() (0 350000
Fezile Dabi District Municipality	Moghaka Local Municipality	ACIP	Kroonstad WPP	Water Regional Bulk	Water Treatment Works	Water Infrastructure New	Construction	0	0	0	0	6600000	0	()	0 6600000
Fezile Dabi District Municipality	Metsimaholo Local Municipality	ACIP	WCDM strategy	Water Regional Bulk	Planning	Water Resource Demand Management	Strategy in	0	0	0	0	350000	0	() (0 350000
Fezile Dabi District Municipality	Ngwathe Local Municipality	C/FS0397/S/04/05 (MIPFS214/49)	pipeline ret and 700 VIP's	Internal Sanitation	Sanitation Basic	Sanitation Infrastructure Extension	Completed	0	0	0	0	0	0	()	0 7500000
Fezile Dabi District Municipality	Ngwathe Local Municipality	fs_temp_0278	Heilbron Sewerage Treatment Plant Upgrading	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Construction	0	0	0	0	0	0	() (0 37250000
Fezile Dabi District Municipality	Moghaka Local Municipality	fs temp0910 0193	Kroonstad STP not before 2010 (12 MI)	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Completed	0	0	0	0	0	0	() (0 17543860
Fezile Dabi District Municipality	Ngwathe Local Municipality	FSR004	Ngwathe Bulk Water Supply	Water Regional Bulk	Water Reservoir	Water Infrastructure New	Construction	0	0	5261735	0	0	0	(3561735	5 7997000
Fezile Dabi District Municipality	Metsimaholo Local Municipality	MIG /FS/0563/W/06/08	Oranjeville: Water supply for 325 erven, Ext 5 & 6	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Completed	0	0	0	0	0	0	() (0 1269182
Fezile Dabi District Municipality	Ngwathe Local Municipality	MIG/FS 0227/W/06/07	Parys water purification phase 2	Water Internal Bulk	Water Treatment Works	Water Infrastructure New	Completed	0	0	0	0	0	0	()	0 6000000
Fezile Dabi District Municipality	Moghaka Local Municipality	MIG/FS/0324/S/07/07	Marabastad	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Upgrade	Completed	0	0	0	0	0	0	() (0 1725000
Fezile Dabi District Municipality	Moghaka Local Municipality	MIG/FS/0500/S/08/10	for 670 erven	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Completed	0	0	0	0	0	0	()	0 2680000
Fezile Dabi District Municipality	Moghaka Local Municipality	MIG/FS/0501/W/08/10	between Constantia & Brentpark Water	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Completed	0	0	0	0	0	0	() (0 5700000
Fezile Dabi District Municipality	Moghaka Local Municipality	MIG/FS0009/S/04/05	pipeline to Phomolong	Water Internal Bulk	Water Pipeline	Water Infrastructure Upgrade	Completed	0	0	0	0	0	0	()	0 2756400
Fezile Dabi District Municipality	Moghaka Local Municipality	MIG/FS0053/W/04/05	Kroonstad: Rehabilitation of pipeline-17.5km pipeline	Water Regional Bulk	Water Pipeline	Water Infrastructure Upgrade	Completed	0	0	0	0	0	0	()	0 10653477
Fezile Dabi District Municipality	Moghaka Local Municipality	MIG/FS0056/S/05/06	1.15km outflow lines	Sanitation Bulk	Sanitation Water Borne	Sanitation Infrastructure New	Completed	0	0	0	0	0	0	() (0 1970664
Fezile Dabi District Municipality	Mafube Local Municipality	MIG/FS0092/S/05/06	pumpstation	Sanitation Bulk	Sanitation Water Borne	Sanitation Infrastructure Upgrade	Construction	0	0	0	0	0	0	()	o 0
Fezile Dabi District Municipality	Mafube Local Municipality	MIG/FS0093/W/05/06	Qalabotiha: Construction of a weir in the Vaal river	Water Internal Bulk	Other	Water Resource Demand Management	Design	0	0	0	0	0	0	() (o 0
Fezile Dabi District Municipality	Nawathe Local Municipality	MIG/FS0123/S/06/09	Heilbron (Phirotona): Bucket eradication for 1528 erven	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Construction	0	9800000	0	0	0	0	(9800000	0 20520572
Fezile Dabi District Municipality	Ngwathe Local Municipality	MIG/FS0127/S/06/09	incl pumpstation	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Completed	0	0	0	0	0	0	()	0 398478
Fezile Dabi District Municipality	Moghaka Local Municipality	MIG/FS0140/S/06/06	treatment plant phase 2	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Construction	0	210720	0	0	0	0	(210720	0 576660
Fezile Dabi District Municipality	Nawathe Local Municipality	MIG/FS0305/S/06/07	pumpstation	Sanitation Bulk	Sanitation Water Borne	Sanitation Infrastructure Upgrade	Construction	0	0	0	0	0	0	()	0 630742
Fezile Dabi District Municipality	Mafube Local Municipality	MIG/FS0470/S/07/07	0295/S/06/09) -add funds	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Construction	0	0	0	0	0	0	()	J 0
Fezile Dabi District Municipality	Moghaka Local Municipality	MIG/FS0499/S/08/09	(MIS:153087)	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Construction	0	894200	0	0	0	0	(894200	0 1914632
Fezile Dabi District Municipality	Mafube Local Municipality	MIG/FS0503/W/08/09	works (MIS:172052)	Water Treatment Works	Water Treatment Works	Water Infrastructure New	Construction	0	5947737	0	0	0	0	(594773	7 15194796
Fezile Dabi District Municipality	Moghaka Local Municipality	MIG/FS0607/S/07/07	Rammolotsi: Building of 650 toilet structures on existing slabs	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Construction	0	0	0	0	0	0	() (0
Fezile Dabi District Municipality	Moghaka Local Municipality	MIG/FS0614/S/08/08	Matlwangltlwang: Lining of oxidation ponds phase 2	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Construction	0	0	0	0	0	0	() (0 125334
Fezile Dabi District Municipality	Nawathe Local Municipality	MIG/FS0616/S/08/09	Koppies: Upgrading of sewer treatment works (ID-157862)	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Completed	0	0	0	0	0	0	() (0 2808420
Fezile Dabi District Municipality	Nawathe Local Municipality	MIG/FS0623/S/08/10	Heilbron: Upgrading of sewer treatment works (ID-157823)	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Construction	0	19914861	0	0	0	0	(1991486	1 59277238
Fezile Dabi District Municipality	Ngwathe Local Municipality	MIG/FS0624/S/08/10	Parys: Upgrading of sewer treatment works	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Design	0	0	0	0	0	0	() (0 3993734
Fezile Dabi District Municipality	Metsimaholo Local Municipality	MIG/FS0629/S/08/09	159207)	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Extension	Construction	0	1039339	0	0	0	0	(1039339	9 19369252
Fezile Dabi District Municipality	Moghaka Local Municipality	MIG/FS0644/S/08/11	residential erven (MIS:154512) -42.4km main outflow lines	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Extension	Construction	0	55609	0	0	0	0	(55609	9 72000000
Fezile Dabi District Municipality	Ngwathe Local Municipality	MIG/FS0711/W/09/09	pipelines between existing and additional reservoirs	Water Internal Bulk	Water Reservoir	Water Resource Demand Management	Construction	0	0	0	0	0	0	() (0 28283309
Fezile Dabi District Municipality	Nawathe Local Municipality	MIG/FS0714/W/09/09	PARYS water purification phase 3	Water Treatment Works	Water Treatment Works	Water Infrastructure Upgrade	Design	0	0	0	0	0	0	() (0
Fezile Dabi District Municipality	Nawathe Local Municipality	MIG/FS0714/W/09/09	Phase 3 (MIS:171059)	Water Treatment Works	Water Treatment Works	Water Infrastructure Upgrade	Design	0	0	0	0	0	0	() (0
Fezile Dabi District Municipality	Mafube Local Municipality	MIG/FS0721/W/09/11	erf connections for 1714 stands (MIS:181245)	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Construction	0	10152206	0	0	0	0	(10152206	6 16500921
Fezile Dabi District Municipality	Metsimaholo Local Municipality	MIG/FS0747/W/09/10	(MIS:176633)	Water Regional Bulk	Water Pipeline	Water Resource Demand Management	Design	0	14402227	0	0	0	0	(1440222	7 17300000
Fezile Dabi District Municipality	Metsimaholo Local Municipality	MIG/FS0751/W/09/10	development (MIS:176641)	Water Internal Bulk	Water Pipeline	Water Resource Demand Management	Construction	0	445000	0	0	0	0	(445000	
Fezile Dabi District Municipality	Moghaka Local Municipality	MIG/FS0762/W/09/11	/	Water Treatment Works	Water Treatment Works	Water Infrastructure Upgrade	Design	0	0	0	0	0	0) (0 8218341

Fezile Dabi DM

Local Municipal Boundaries



Km

Assessment of each WSA as presented in the WSDP for all Water Services Planning Enabling Factors, Compliancy Elements and Future Plans in relation to:

- Accuracy of Informed (Quality)
- Representation of Total Area (Quantity)
- Implementation Strategies

	<u>TOPIC</u>	DESCRIPTION	PAGE
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	Topic 4	Economic Background	Ш
	Topic 5	Water Services Infrastructure Profile	IV
	Topic 6	Operation & Maintenance	V
	Topic 7	Associated Services	VI
	Topic 8	Conservation & Demand Management	VII
	Topic 9	Water Resources	VIII
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	Topic 11	Water Services Arrangement Profile	X
	Topic 12	Social & Customer Service Requirements	XI
Overall To	ppic Assessment	WSDP Status Quo Knowledge Interpretation Report	XII

Projects in Feasibility stage, awaiting funding or still in Conceptual stage

DISTRICT MUNICIPALITY	LOCAL MUNICIPALITY	PROJECT NUMBER	PROJECT NAME	PROJECT CATEGORY	COMPONENT	PROJECT TYPE	PROJECT STATUS	OWN FUNDING 2011/12	MIG FUNDING 2011/12	RBIG FUNDING 2011/12	DROUGHT RELIEF FUNDING 2011/12	ACIP FUNDING 2011/12	MUNICIPAL INTERVENTION FUNDING 2011/12	OTHER FUNDING 2011/12	TOTAL ALLOCATION (2011/12)	TOTAL FUNDING UP TO 2014/15
Fezile Dabi District Municipality	Metsimaholo Local Municipality		Metsimaholo: Metsimaholo ext. 6 Construction of sewer network for 368 erven and upgrading of treatment plant	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Awaiting Funding	(0 8259085	j	0	0	0	0	0 8259085	28259085
Fezile Dabi District Municipality	Metsimaholo Local Municipality		23 Refengkgotso: Sewerage and toilet infra for 1952 Part of GW Development in Steynsrus	Internal Sanitation Water Internal Bulk	Sanitation Water Borne Water Groundwater	Sanitation Infrastructure Extension Water Infrastructure New	Awaiting Funding	(0 ()	0	0	0 0	0	0	5680954
Fezile Dabi District Municipality Fezile Dabi District Municipality	Moqhaka Local Municipality Ngwathe Local Municipality	fs_temp_0292 fs_temp_0297	Parvs Sewer Treatment Phase1	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Conceptual Conceptual	,	0 ()	0	0	0 0	1 0	0 0	1 0
Fezile Dabi District Municipality	Metsimaholo Local Municipality	fs_temp0910_0006	Deneysville/Refengotso WTW to be upgraded	Water Internal Bulk	Water Treatment Works	Water Infrastructure Upgrade	Conceptual	(0 ()	0	0	0 0	C	J 0	0
Fezile Dabi District Municipality	Metsimaholo Local Municipality	fs_temp0910_0008	Deneysville STW refurbishmet	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Conceptual	(0 ()	0	0	0	0) 0	0
Fezile Dabi District Municipality	Metsimaholo Local Municipality	fs_temp0910_0010	Bulk reservoir for Sasolburg (10 MI) planned for 2010	Water Internal Bulk	Water Reservoir	Water Infrastructure New	Conceptual	(0 ()	0	0	0	0) 0	0
Fezile Dabi District Municipality	Metsimaholo Local Municipality	fs_temp0910_0011	Bulk reservoir for Zamdela Extension (5 MI) planned for 2010 Replacement of existing pumps at pump stations - to be registered	Water Internal Bulk Water Internal Bulk	Water Reservoir Water Pumpstation	Water Infrastructure New Water Infrastructure Upgrade	Conceptual		0 ()	0	0	0	0	0	0
Fezile Dabi District Municipality Fezile Dabi District Municipality	Ngwathe Local Municipality Ngwathe Local Municipality	fs_temp0910_0036 fs_temp0910_0037	Upgrading of sewer treatment plants	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Conceptual Conceptual		0 ()	0	0	0 0		0	0
Fezile Dabi District Municipality	Ngwathe Local Municipality	fs_temp0910_0038	Upgrading of sewer pump stations	Sanitation Bulk	Sanitation Water Borne	Sanitation Infrastructure Upgrade	Conceptual	(0 ()	0	0	0 0	C	J 0	0
Fezile Dabi District Municipality	Ngwathe Local Municipality	fs_temp0910_0040	Upgrading of WTW in Parys (registered), Koppies and Vredefort - to be registered	Water Internal Bulk	Water Treatment Works	Water Infrastructure Upgrade	Conceptual	(0 ()	0	0	0	0	٥ ر	0
Fezile Dabi District Municipality	Ngwathe Local Municipality	fs_temp0910_0041	Construction of reservoir pressure tower to increase pressure and capacity	Water Internal Bulk	Water Reservoir	Water Infrastructure New	Conceptual	(0 ()	0	0	0	0	0 ر	0
Fezile Dabi District Municipality	Ngwathe Local Municipality	fs_temp0910_0042	Recommissioning of Heilbron WTW	Water Internal Bulk	Water Treatment Works	Water Infrastructure Upgrade	Conceptual		0 ()	0	0	0	0	0	0
Fezile Dabi District Municipality Fezile Dabi District Municipality	Mafube Local Municipality	fs_temp0910_0045	Villiers new reservior 4,5MI Villiers new water treatment works	Water Internal Bulk Water Internal Bulk	Water Reservoir Water Treatment Works	Water Infrastructure New Water Infrastructure New	Conceptual		0 ()	0	0	0		0	0
Fezile Dabi District Municipality	Mafube Local Municipality Mafube Local Municipality	fs_temp0910_0046 fs_temp0910_0049	Villiers water pump station to be upgraded	Water Internal Bulk	Water Pumpstation	Water Infrastructure Upgrade	Conceptual Conceptual		0 ()	0	0	0 0		0 0	. 0
Fezile Dabi District Municipality	Mafube Local Municipality	fs_temp0910_0050	Villiers Upgrading of Waste water plant	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Conceptual	(0 ()	0	0	0 0	C	J 0	0
Fezile Dabi District Municipality	Mafube Local Municipality	fs_temp0910_0051	Villiers upgrade sewer pump stations	Sanitation Bulk	Sanitation Water Borne	Sanitation Infrastructure Upgrade	Conceptual	(0 ()	0	0	0 0	0	J 0	0
Fezile Dabi District Municipality	Mafube Local Municipality	fs_temp0910_0052	Cornelia Upgrade sewer pump stations 2	Sanitation Bulk	Sanitation Water Borne	Sanitation Infrastructure Upgrade	Conceptual	(0 ()	0	0	0	0	0	0
Fezile Dabi District Municipality	Mafube Local Municipality	fs_temp0910_0053	Cornelia new reservior of 5MI Cornelia refurbish old line of 7000m	Water Internal Bulk Water Internal Bulk	Water Reservoir	Water Infrastructure New	Conceptual	(0 ()	0	0	0	0	0	0
Fezile Dabi District Municipality Fezile Dabi District Municipality	Mafube Local Municipality Mafube Local Municipality	fs_temp0910_0054 fs_temp0910_0055	Cornelia Upgrade pumpstation-water	Water Internal Bulk	Water Pipeline Water Pumpstation	Water Infrastructure Upgrade Water Infrastructure Upgrade	Conceptual Conceptual		0 (0	0	0 0		0	0
Fezile Dabi District Municipality	Mafube Local Municipality	fs_temp0910_0056	Frankfort upgrade wtw R8milj	Water Internal Bulk	Water Treatment Works	Water Infrastructure Upgrade	Conceptual	i	0 (0	0	0 0	1 0	0 0	0
Fezile Dabi District Municipality	Mafube Local Municipality	fs_temp0910_0057	Frankfort new reservior R8.2	Water Internal Bulk	Water Reservoir	Water Infrastructure New	Conceptual	(0 ()	0	0	0	C	J 0	0
Fezile Dabi District Municipality	Mafube Local Municipality	fs_temp0910_0058	Frankfort refurbish water line 4000m	Water Internal Bulk	Water Pipeline	Water Infrastructure Upgrade	Conceptual	(0 ()	0	0	0	0	J 0	0
Fezile Dabi District Municipality	Mafube Local Municipality	fs_temp0910_0059	Frankfort upgrade water pumpstation x 3	Water Internal Bulk	Water Pumpstation	Water Infrastructure Upgrade	Conceptual	(0 ()	0	0	0	0) 0	0
Fezile Dabi District Municipality	Mafube Local Municipality	fs_temp0910_0060	Frankfort new Biofilter R9 Frankfort sewer pump upgrade x 3	Sanitation Bulk Sanitation Bulk	Waste Water Treatment Works Sanitation Water Borne	Sanitation Infrastructure Upgrade Sanitation Infrastructure Upgrade	Conceptual	(0 ()	0	0	0	0	0	0
Fezile Dabi District Municipality Fezile Dabi District Municipality	Mafube Local Municipality Mafube Local Municipality	fs_temp0910_0062 fs_temp0910_0063	Tweeling upgrade wtw R6milj	Water Internal Bulk	Water Treatment Works	Water Infrastructure Upgrade	Conceptual Conceptual		0 ()	0	0	0 0		0	0
Fezile Dabi District Municipality	Mafube Local Municipality	fs_temp0910_0064	Tweeling new reservior R4.5	Water Internal Bulk	Water Reservoir	Water Infrastructure New	Conceptual		0 (0	0	0 0		J 0	0
Fezile Dabi District Municipality	Mafube Local Municipality	fs_temp0910_0066	Tweeling upgrade water pump stations x 2	Water Internal Bulk	Water Pumpstation	Water Infrastructure Upgrade	Conceptual	(0 ()	0	0	0 0	C	0 د	0
Fezile Dabi District Municipality	Mafube Local Municipality	fs_temp0910_0067	Tweeling wwt upgrade R7	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Conceptual	(0 ()	0	0	0	0	0 ر	0
Fezile Dabi District Municipality	Mafube Local Municipality	fs_temp0910_0068	Tweeling upgrade sewer pumpstation x 2	Internal Sanitation	Sanitation Water Borne Water Reservoir	Sanitation Infrastructure Upgrade	Conceptual	(0 ()	0	0	0	0) 0	0
Fezile Dabi District Municipality Fezile Dabi District Municipality	Moghaka Local Municipality	fs_temp0910_0184	10 MI reservoir in Maokeng Rammulotsi old GMS to be replaced	Water Internal Bulk Water Internal Bulk	Water Reservoir Water Groundwater	Water Infrastructure New Water Infrastructure Upgrade	Conceptual Conceptual		0 ()	0	0) 0		0	0
Fezile Dabi District Municipality	Moqhaka Local Municipality Moghaka Local Municipality	fs_temp0910_0185 fs_temp0910_0190	Matlwanotlwano add storage (600 stands possible)	Water Internal Bulk	Water Groundwater Water Reservoir	Water Infrastructure New	Conceptual	· ·	0 ()	0	0	0 0		0	. 0
Fezile Dabi District Municipality	Moghaka Local Municipality	fs_temp0910_0198	Viljoenskroon 5-6 diam sewer line 160 diam	Sanitation Bulk	Sanitation Water Borne	Sanitation Infrastructure Upgrade	Conceptual	(0 ()	0	0	0 0	C	J 0	0
Fezile Dabi District Municipality	Mafube Local Municipality	fs_temp0910_0271	Mafube Municipality - Sanitation Internal Bulk Refurbishments (group est)	Sanitation Bulk	Sanitation Water Borne	Sanitation O&M Management: Refurbishment	Feasibility	(0 ()	0	0	0	0	0 5358000	
Fezile Dabi District Municipality	Metsimaholo Local Municipality	fs_temp0910_0277	Metsimaholo Municipality - Sanitation Internal Bulk Refurbishments (group est)	Sanitation Bulk	Sanitation Water Borne	Sanitation O&M Management: Refurbishment	Feasibility	(0 ()	0	0	0	0	0 8259200	41296000
Fezile Dabi District Municipality	Moqhaka Local Municipality	fs_temp0910_0279	Moqhaka Municipality - Sanitation Internal Bulk Refurbishments (group est) Ngwathe Municipality - Sanitation Internal Bulk Refurbishments (group est)	Sanitation Bulk Sanitation Bulk	Sanitation Water Borne Sanitation Water Borne	Sanitation O&M Management: Refurbishment Sanitation O&M Management: Refurbishment	Feasibility Feasibility		0 ()	0	0	0	0	0 15700400	
Fezile Dabi District Municipality Fezile Dabi District Municipality	Ngwathe Local Municipality Mafube Local Municipality	fs_temp0910_0282 fs_temp0910_0292	Mafube Municipality - Water Internal Bulk Refurbishments (group est)	Water Internal Bulk	Water Reticulation	Water O&M Management: Refurbishment	Conceptual		0 (0	0	0 0		0 0	07700000
Fezile Dabi District Municipality	Metsimaholo Local Municipality	fs_temp0910_0298	Metsimaholo Municipality - Water Internal Bulk Refurbishments (group est)	Water Internal Bulk	Water Reticulation	Water O&M Management: Refurbishment	Conceptual	(0 ()	0	0	0 0	0	J 0	0
Fezile Dabi District Municipality	Moqhaka Local Municipality	fs_temp0910_0300	Moqhaka Municipality - Water Internal Bulk Refurbishments (group est)	Water Internal Bulk	Water Reticulation	Water O&M Management: Refurbishment	Conceptual	(0 ()	0	0	0 0	0	J 0	0
Fezile Dabi District Municipality	Ngwathe Local Municipality	fs_temp0910_0303	Ngwathe Municipality - Water Internal Bulk Refurbishments (group est)	Water Internal Bulk	Water Reticulation	Water O&M Management: Refurbishment	Conceptual	(0 ()	0	0	0	0	0	0
Fezile Dabi District Municipality	Ngwathe Local Municipality	FSR009 FSR010	Ngwathe Bulk Water Supply Moqhaka Bulk Water Supply	Water Regional Bulk Water Regional Bulk	Water Groundwater Water Pipeline	Water Infrastructure New Feasibility Only	Feasibility Feasibility	(0 (64900	0	0	0	0	0 200000	200000 800000
Fezile Dabi District Municipality Fezile Dabi District Municipality	Moqhaka Local Municipality Moghaka Local Municipality	ID: 153087	Moghaka: Rehabilitation of Sewage System	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Upgrade	Conceptual		0 (0 64900	0	0	0 0		0 049000	000000
Fezile Dabi District Municipality	Moghaka Local Municipality	MIG/FS0076/W/05/06	Viljoenskroon: Augmentation of water supply to the industrial area	Water Internal Bulk	Water Pipeline	Water Infrastructure New	Conceptual		0 (0	0	0 0		J 0	0
Fezile Dabi District Municipality	Mafube Local Municipality	MIG/FS0097/W05/05	Tweeling: Construction of a new pressure tower, booster pump station and Appurtenant works	Water Internal Bulk	Water Reservoir	Water Infrastructure New	Conceptual	(0 ()	0	0	0 0	C	٥ د	0
Fezile Dabi District Municipality	Ngwathe Local Municipality	MIG/FS0192/W/06/07	Vredefort and Heilbron: Improvement of bulk water supply	Water Internal Bulk	Water Pipeline	Water Infrastructure Upgrade	Conceptual	(0 ()	0	0	0	0	0 ر	0
Fezile Dabi District Municipality	Moqhaka Local Municipality	MIG/FS0204/S/06/07	Kroonstad & Viljoenskroon: Refurbishment of the sewer treatment works phase 3	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Conceptual	(0 ()	0	0	0	0) 0	0
Fezile Dabi District Municipality Fezile Dabi District Municipality	Mafube Local Municipality Mafube Local Municipality	MIG/FS0224/W/06/07 MIG/FS0298/S/07/07	Mafube: Construction of new rising main to the water purification plant Cornelia (Ntswanatsatsi): Eradication of 211 buckets	Water Internal Bulk Internal Sanitation	Water Pipeline Sanitation Water Borne	Water Infrastructure New Sanitation Replacement Buckets	Conceptual Awaiting Funding		0 1953258	1	0	0	0	0	0 1953258	2828504
Fezile Dabi District Municipality	Mafube Local Municipality	MIG/FS0314/W/06/07	Frankfort/Namahadi/Cornelia/Ntswanatsatsi: Extension of the bulk water supply phase 2	Water Internal Bulk	Water Pipeline	Water Infrastructure New	Conceptual	· ·	0 ()	0	0	0 0		0 0	0
Fezile Dabi District Municipality	Metsimaholo Local Municipality	MIG/FS0431/W/06/08	Amelia: Water supply phase 2	Water Internal Bulk	Water Pipeline	Water Infrastructure New	Conceptual	(0 ()	0	0	0 0	C	J 0	0
Fezile Dabi District Municipality	Moqhaka Local Municipality	MIG/FS0439/S/07/07	Rammolotsi: Upgrading of bulk sewerage infrastructure for pumpstation	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Upgrade	Conceptual	(0 ()	0	0	0 0	0	J 0	0
Fezile Dabi District Municipality	Mafube Local Municipality	MIG/FS0759/S/09/10	Namahadi: Extension of the waste water treatment works (MIS: 185309)	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Extension	Awaiting Funding	(0 ()	0	0	0	0) 0	12574541
Fezile Dabi District Municipality	Mafube Local Municipality	MIG/FS0760/S/09/10	Qalabotjha: Construction of the extension of the waste water treatment works (MIS: 184943) Ngwathe: Improvement of bulk water capacity (200)	Sanitation Bulk Water Internal Bulk	Waste Water Treatment Works Water Pipeline	Sanitation Infrastructure Extension Water Infrastructure New	Awaiting Funding Conceptual	(0 ()	0	0	0	0	0	12093078
Fezile Dabi District Municipality Fezile Dabi District Municipality	Ngwathe Local Municipality Mafube Local Municipality	MIPFS214/45 Temp_Actpl_00006	Qalabotiha: Sewer Reticulation & Toilet Structures	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Extension	Awaiting Funding		0 ()	0	0	0 0		0	0
Fezile Dabi District Municipality	Metsimaholo Local Municipality	Temp_Actpl_00027	Metsimaholo Sewer network for 340 sites	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Extension	Awaiting Funding		0 815492		0	0	0 0		0 8154921	8529000
Fezile Dabi District Municipality	Moqhaka Local Municipality	Temp_Actpl_00028	Moqhaka: Construction of toilet structures	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Extension	Awaiting Funding	(0 779396	6	0	0	0 0	C	0 779396	2140241
Fezile Dabi District Municipality	Metsimaholo Local Municipality	Temp_Actpl_00056	Amelia: Sewer Network, Toilet Structures + Pump Station (3257 Stands)	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Extension	Awaiting Funding	(0 4000000		0	0	0	0	0 4000000	
Fezile Dabi District Municipality	Metsimaholo Local Municipality	Temp_Actpl_00057	Extension of Metsimaholo WWTP	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Extension	Awaiting Funding	(0 11310000)	0	0	0	0	0 11310000	11828550
Fezile Dabi District Municipality Fezile Dabi District Municipality	Mafube Local Municipality Nowathe Local Municipality	Temp_MTASint_00019 Temp_MTASint_00023	Villiers: pipeline from water plant to reservoir O&M Shortage of water in Edenville, Parys(Winnie, Zuma, Sisulu, Ghana, Zone 6, Phelendaba, Vuka),	Water Internal Bulk Water Internal Bulk	Water Pipeline Water Treatment Works	Water Infrastructure Upgrade Water Infrastructure Upgrade	Conceptual Conceptual		0 ()	0	0	0	0	0 150600000	0
Fezile Dabi District Municipality	Mafube Local Municipality	Temp_MTASint_00023	Frankfort: Pressure Tower and 4.5MI Water Reservoir	Water Internal Bulk	Water Reservoir	Water Resource Demand Management	Awaiting Funding		0 1400000		0	0	0 0		0 14000000	14000000
Fezile Dabi District Municipality	Mafube Local Municipality	Temp MTASret 00003	Qalabotjha: Sewer Reticulation & Toilet Structures for 697Erven	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Extension	Awaiting Funding		0 12546000		0	0	0 0	ı Č	0 12546000	12546000
Fezile Dabi District Municipality	Mafube Local Municipality	Temp_MTASret_00004	Mafahlaneng: Sewer Reticulation & Toilet Structures for 304 Erven	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Extension	Awaiting Funding	(0 5472000)	0	0	0	0	0 5472000	5472000
Fezile Dabi District Municipality	Mafube Local Municipality		Ntswanatsatsi: Sewer Reticulation & Toilet Structures for 393 Erven	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Extension	Awaiting Funding	(0 7074000		0	0	0	- 0	0 7074000	
Fezile Dabi District Municipality	Mafube Local Municipality	Temp_MTASret_00006	Qalabotjha: Water Reticulation Network and Installation of 697 Erf Connections	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Awaiting Funding		0 8015500		0	0	0	0	0 8015500	
Fezile Dabi District Municipality	Mafube Local Municipality	Temp_MTASret_00007 Temp_MTASret_00008	Mafahlaneng: Water Reticulation Network and Installation of 304 Erf Connections Ntswanatsatsi: Water Reticulation Network and Installation of 393 Erf Connections	Water Reticulation Water Reticulation	Water Reticulation Water Reticulation	Water Infrastructure Extension Water Infrastructure Extension	Awaiting Funding Awaiting Funding	(0 3496000 0 4519500		0	0	0	0	0 3496000 0 4519500	
Fezile Dabi District Municipality Fezile Dabi District Municipality	Mafube Local Municipality Mafube Local Municipality	Temp_MTASret_00008 Temp_MTASret_00009	Rehabilitation and Replacement of Asbesto-cement Water pipes in Mafube LM	Water Reticulation	Water Reticulation Water Reticulation	Water Infrastructure Extension Water Infrastructure Upgrade	Awaiting Funding Awaiting Funding		0 35000000		0	0	0 0		0 4519500	
Fezile Dabi District Municipality Fezile Dabi District Municipality	Mafube Local Municipality	Temp_MTASret_00009	Construction of New Water Reservoirs in Namahadi, Villiers and Cornelia	Water Internal Bulk	Water Reservoir	Water Infrastructure New	Awaiting Funding	,	0 3000000		0	0	0 0	1 0	0 3000000	
Fezile Dabi District Municipality	Mafube Local Municipality	Temp_MTASret_00042	Installation of functional floor meters in LM	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Awaiting Funding	(0 ()	0	0	0 0	0	J 0	2000000
Fezile Dabi District Municipality	Mafube Local Municipality	Temp_MTASret_00043	Bucket eradication backlog, Frankfort-2100	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Awaiting Funding	(0 ()	0	0	0	C	J 0	0
Fezile Dabi District Municipality	Moqhaka Local Municipality	Temp_MTASret_00048	Replacement of valves , Installing new meters, Replacement of faulty metres in LM	Water Reticulation	Water Reticulation	Water Infrastructure Upgrade	Awaiting Funding	(0 8000000		0	0	0	- 0	0 8000000	
		Temp_MTASret_00049	Upgrade VIPÆs to waterborne developed (Matlwangtlwang) 3197	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Upgrade	Awaiting Funding	(UJ ()	U	U	0	. 0	0 ر	32000000
Fezile Dabi District Municipality	Moghaka Local Municipality			Internal Conitation	Conitation Mater Pares	Capitation Ponlacoment Products			000000		0	0	n ^	^		
Fezile Dabi District Municipality Fezile Dabi District Municipality Fezile Dabi District Municipality	Moqhaka Local Municipality Moqhaka Local Municipality Ngwathe Local Municipality	Temp_MTASret_00050 Temp_MTASret_00052	Bucket Eradication : 20 Mathwangthwang Worn out asbestos pipes replacement	Internal Sanitation Water Reticulation	Sanitation Water Borne Water Reticulation	Sanitation Replacement Buckets Water Infrastructure Upgrade	Awaiting Funding Awaiting Funding	(0 800000		0	0	0		0 800000	800000

Water Infrastructure Status & Intervention Plans Fezile Dabi District Municipality

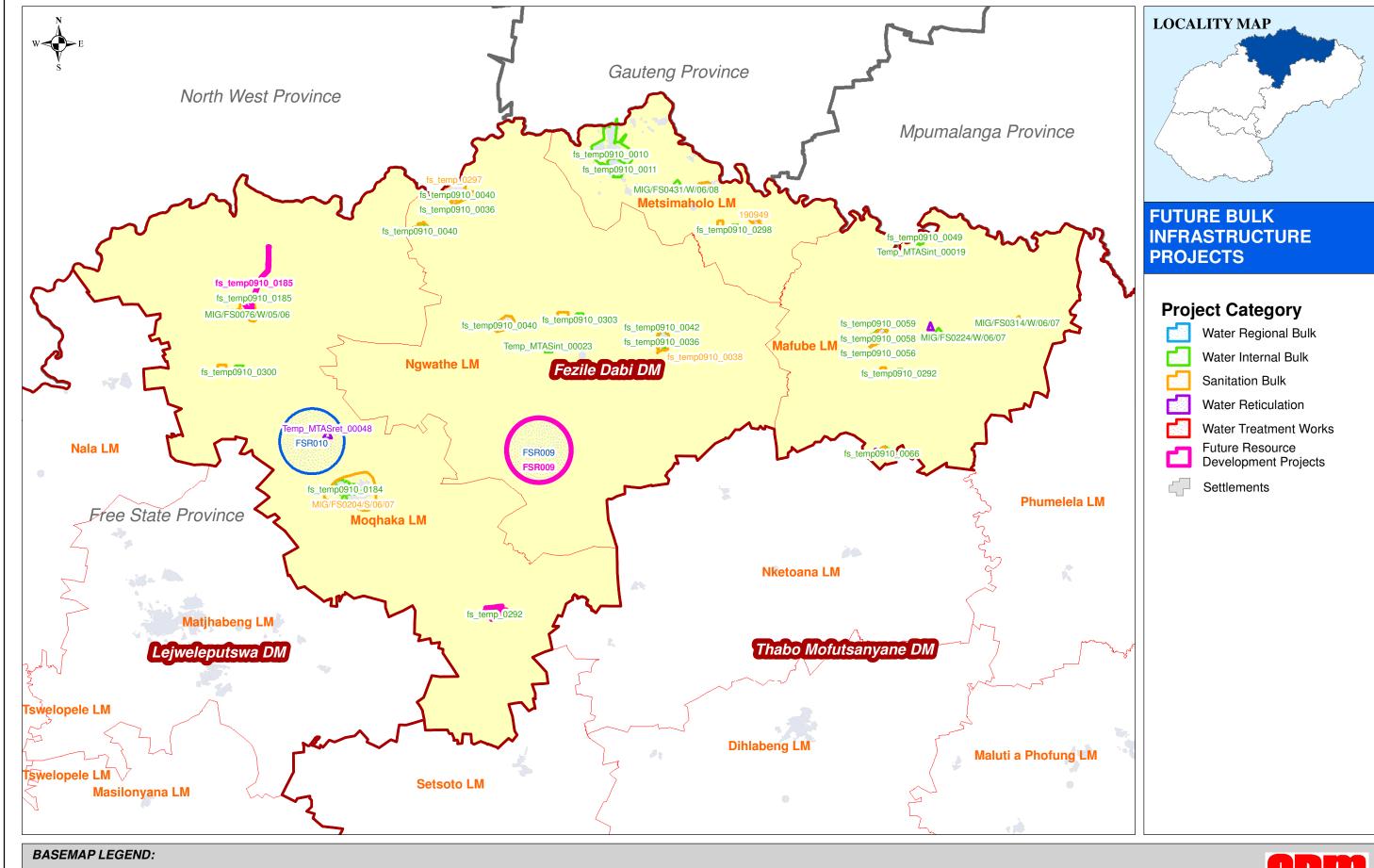
Provincial Boundaries

Fezile Dabi DM

District Municipal Boundaries

Local Municipal Boundaries





03.78.5 15 22.5 30 37.5

