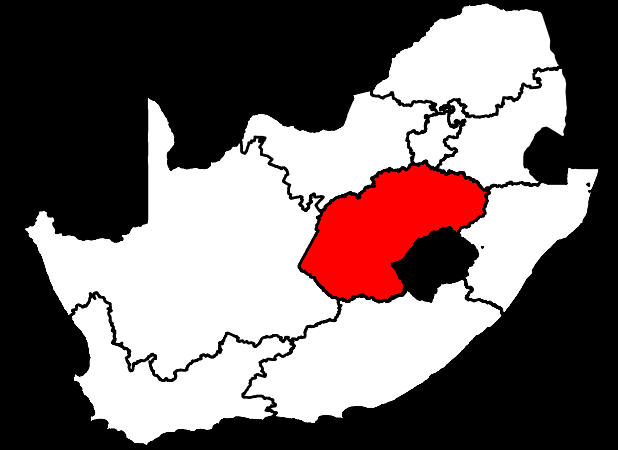
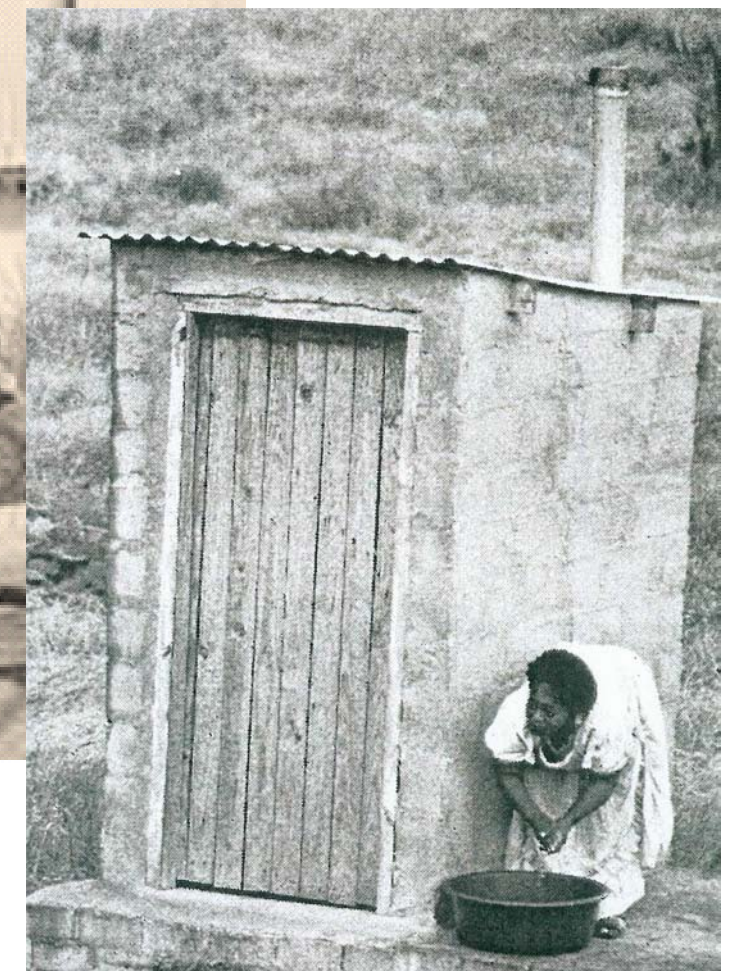
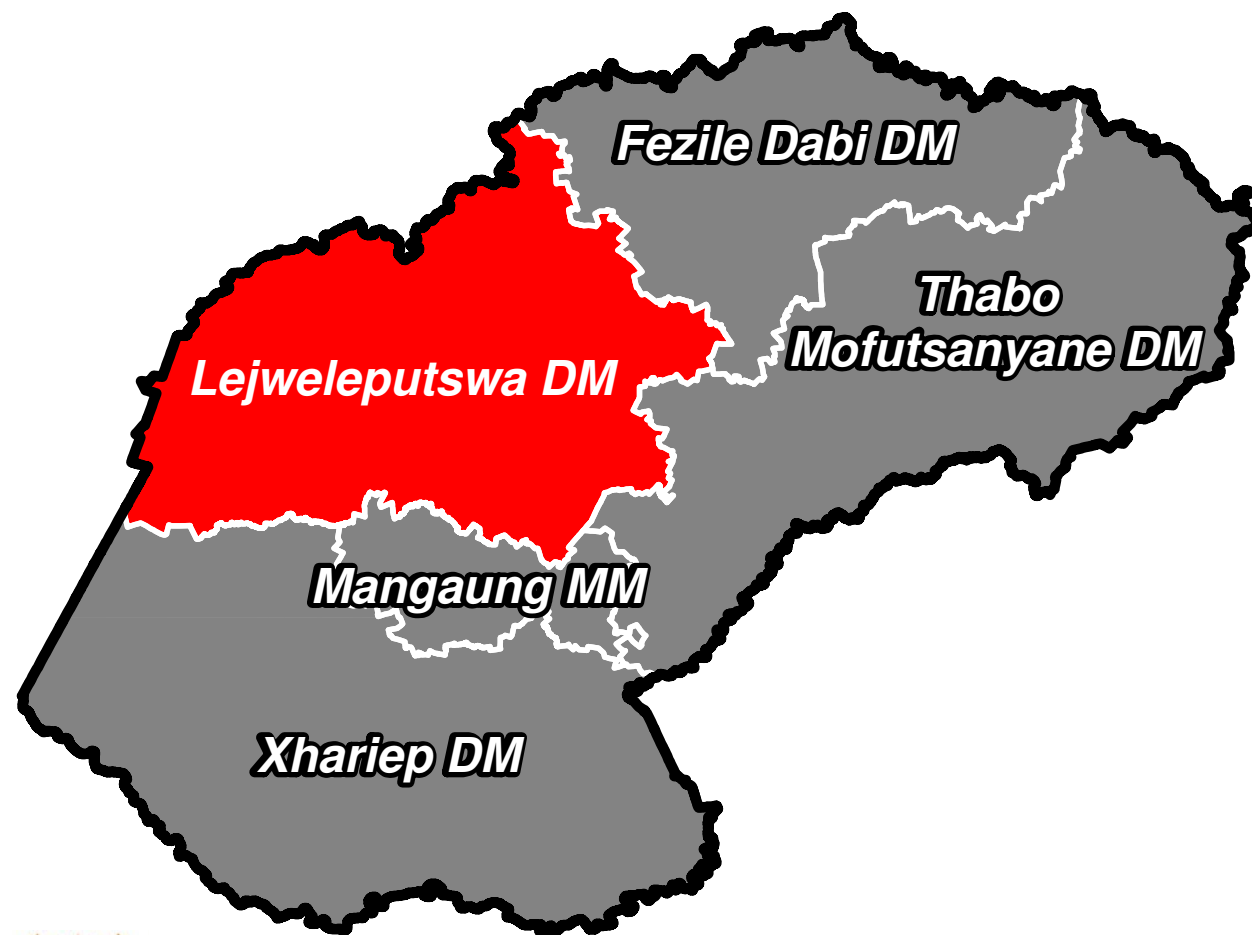


Water Infrastructure Status & Intervention Plans



LEJWELEPUTSWA DISTRICT MUNICIPALITY

March 2012



DEPARTMENT OF WATER AFFAIRS
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, Initiatives & 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



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1. INTRODUCTION TO LEJWELEPUTSWA 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 Lejweleputswa District Municipality has the following five (5) Local Municipalities.

- Matjabeng LM
- Masilonyana LM
- Nala LM
- Tswelopele LM
- Tokologo LM

The main towns within district are Allanridge, Odendaalsrus, Welkom, Hennenman, Ventersburg, Virginia, Theunissen, Winburg, Brandfort, Verkeerdevlei, Soutpan, Dealesville, Boshof, Hertzogville, Bultfontein, Hoopstad and Wesselsbron.

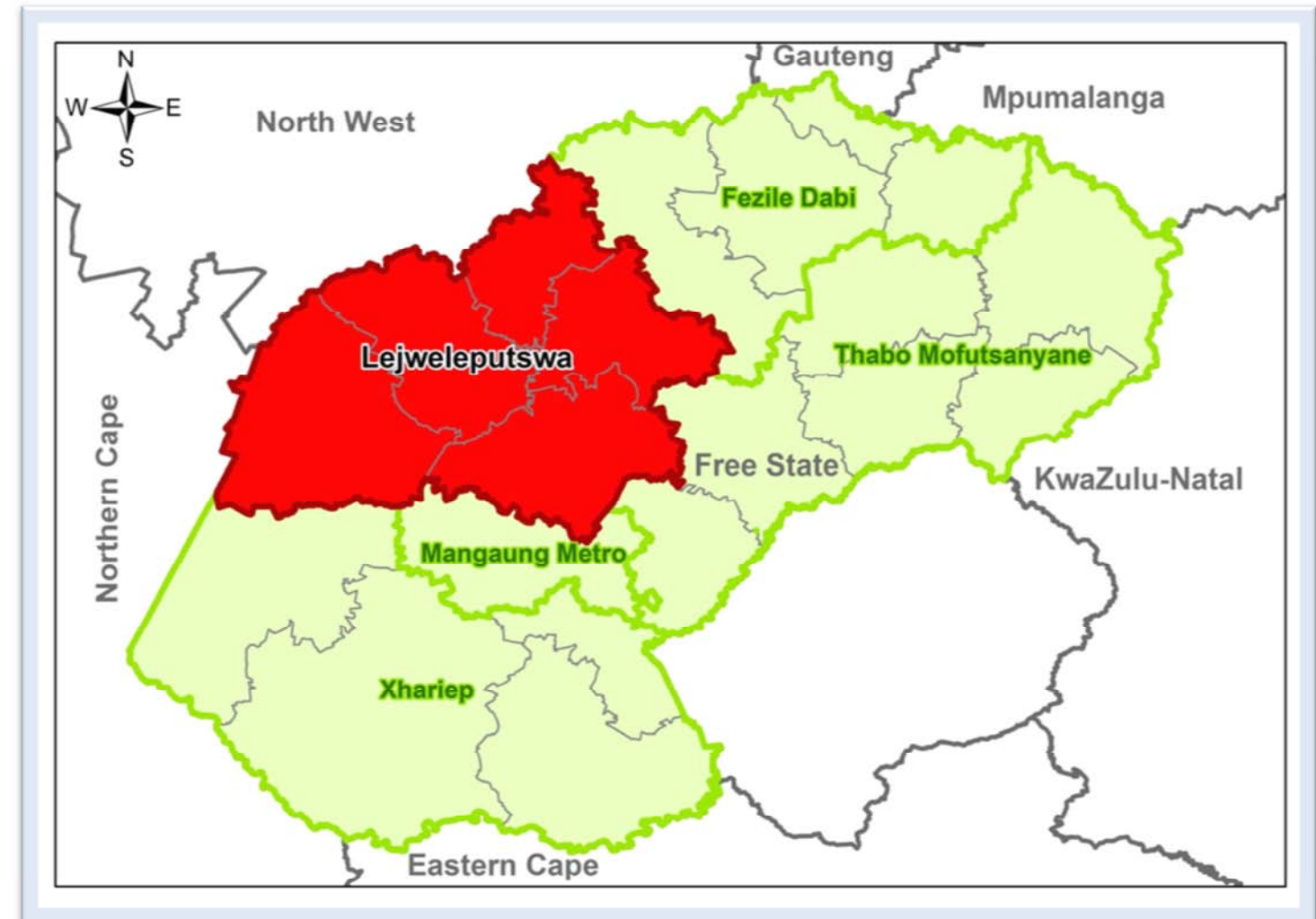
Pages 01 and 02 in section 2 provides detail information on settlement distribution and population figures.

There are approximately 625909 people residing within ± 185023 households that occupy approximately 50 communities. The DM consists of 18 formal urban towns, 34 urban former townships, some Squatter Camps and then farming settlements spread throughout the district. The District Municipality spans over an area of +/- 31,930km² which equates to 24,78% 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.

Lejweleputswa District shares provincial borders with the North West Province and the Northern Cape Province. The other borders are with the Mangaung Metropolitan, Xhariep District, Fezile Dabie District and Thabo Mofutsanyane District.

Lejweleputswa DM accounts to approx 30.1% of the Free State economy. The unemployment rate is approximately 19.25%. The economy of Lejweleputswa 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 180719 households which represents 97.7% of the population for water to at least within 200m. This leaves a gap of 2.3% 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 29895 households, ie about 14.5% 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 18 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 Tokologo bulk water supply project. 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 6 Water Treatment Works (WTW) (with some package plants which were only supposed to be a temporary measure) serving the major water schemes. There are 28 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.

Lejweleputswa 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 Tokologo, Tswelopele 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 84 800 656.64	R 112 005 874.00	R 0
Regional Bulk Infrastructure Grant	R 38 966 743.00	R 45 000 000.00	R 55 000 000.00
Sanitation Human Settlement Grant	R 0	R 0	R 0
Equitable Share (Infrastructure related services)	R 0	R 0	R 0
Accelerated Community Infrastructure Programme	R 11 750 000.00	R 9 160 000.00	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 915 million and for sanitation it is R854 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 358 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.

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 915 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 R854 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 relieve 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 do not supply their maximum allocated domestic yield yet, but require long pipeline extensions to the various remote communities.

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 or 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

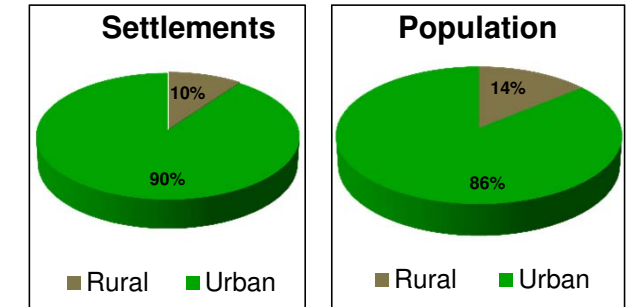
Most irrigation is done for commercial farming. The developed commercial schemes are not operating to their potential

SETTLEMENT DEMOGRAPHICS (December 2011)				
DM / MM	LM	Settlements	Population	Households
Fezile Dabi	Mafube Local Municipality	9	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

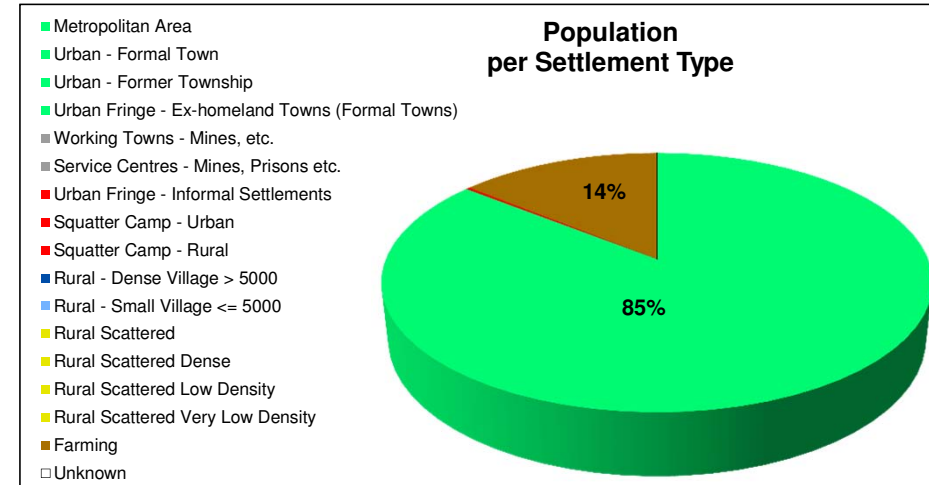
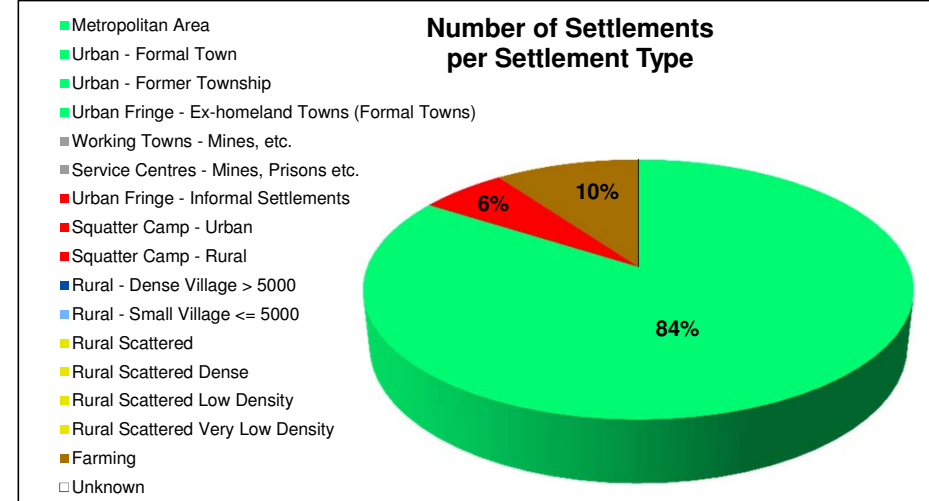
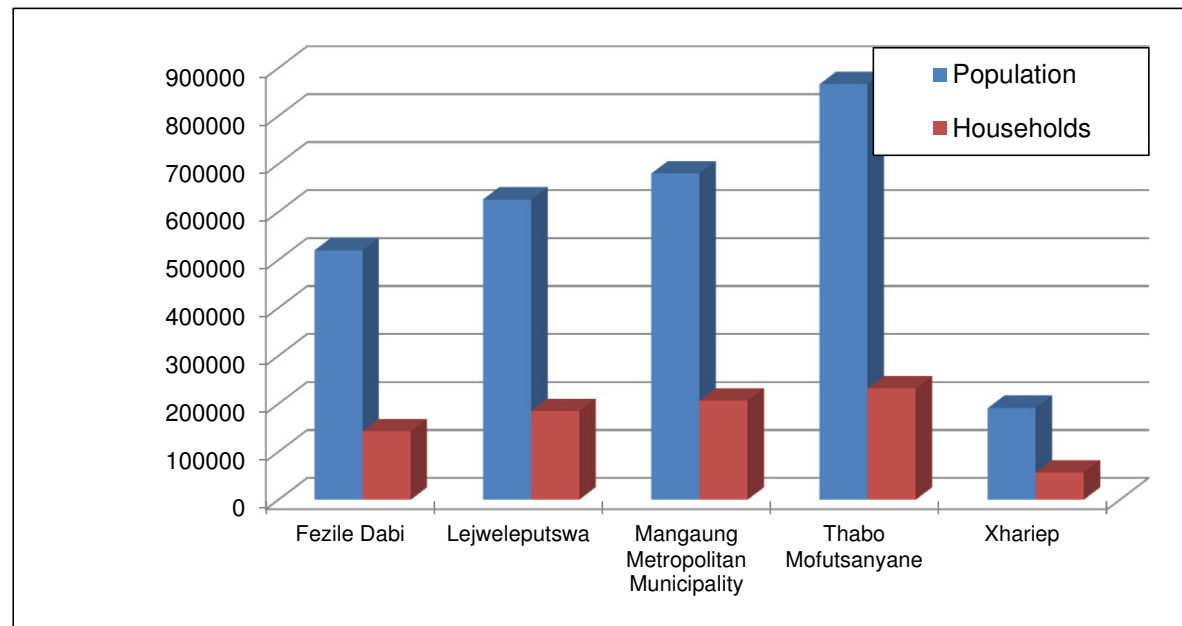
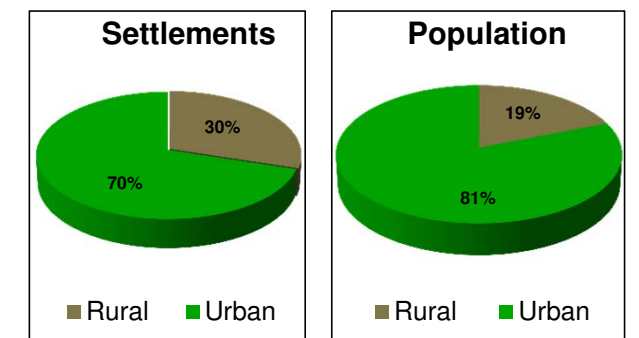
DM SUMMARY			
DM / MM	Settlements	Population	Households
Fezile Dabi	38	520126	142933
Lejweleputswa	50	625909	185023
Mangaung Metropolitan Municipality	59	680441	206832
Thabo Mofutsanyane	103	866538	231928
Xhariep	55	191227	57083
Total	305	2 884 241	823 799

LEJWELEPUTSWA DM SETTLEMENT TYPE DISTRIBUTION (December 2011)			
Settlement Type	Settlements	Population	Households
Metropolitan Area	0	0	0
Urban - Formal Town	18	91951	27763
Urban - Former Township	24	444410	131480
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	3	1697	571
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	5	87851	25209
Unknown	0	0	0

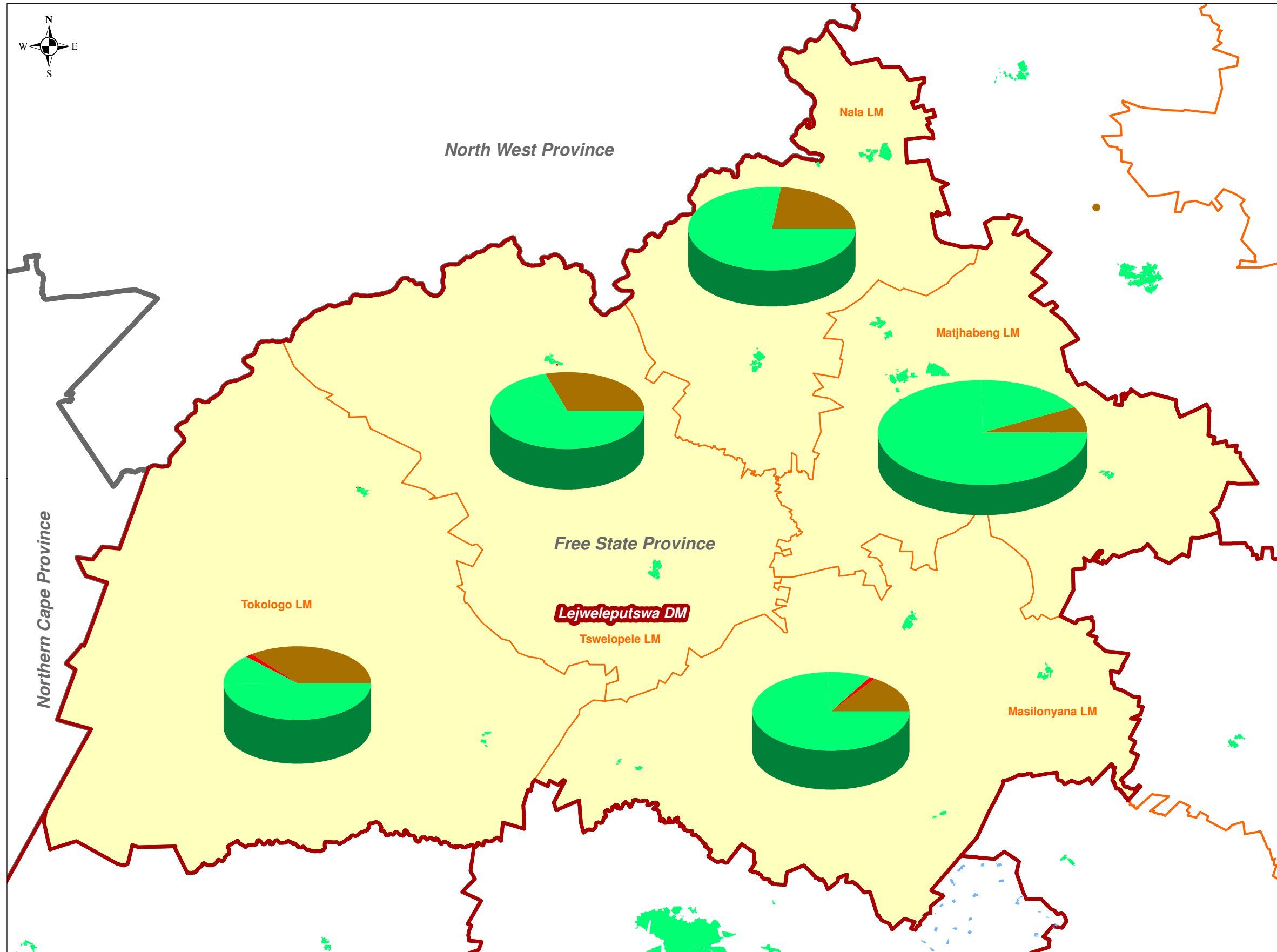
LEJWELEPUTSWA DM SUMMARY			
Main Type	Settlements	Population	Households
Rural	5	87851	25209
Urban	45	538058	159814
Total	50	625 909	185 023



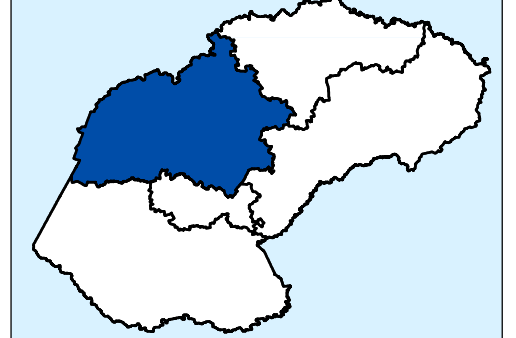
PROVINCIAL SUMMARY			
Main Type	Settlements	Population	Households
Rural	91	548440	152555
Urban	214	2335801	671244
Total	305	2 884 241	823 799



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



LOCALITY MAP



EXISTING DEMOGRAPHICS
Settlement Based

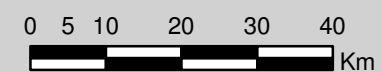
Settlement Types

- Metropolitan Area
Formal Town
Former Township
Ex-homeland Towns
- Working Towns (Mines etc.)
Service Centres (Prisons etc.)
- Informal Settlements (Urban Fringe)
Squatter Camp (Urban & Rural)
- Rural - Dense Village (Population > 5000)
- Rural - Small Village (Population <= 5000)
- Rural Scattered
- Dense
- Low Density
- Very Low Density
- Farming

NOTES:
Pie chart based on population and sized according to total population

BASEMAP LEGEND:

- Provincial Boundaries
- District Municipal Boundaries
- Lejweleputswa DM
- Local Municipal Boundaries



FREE STATE PROVINCE: LEJWELEPUTSWA DM

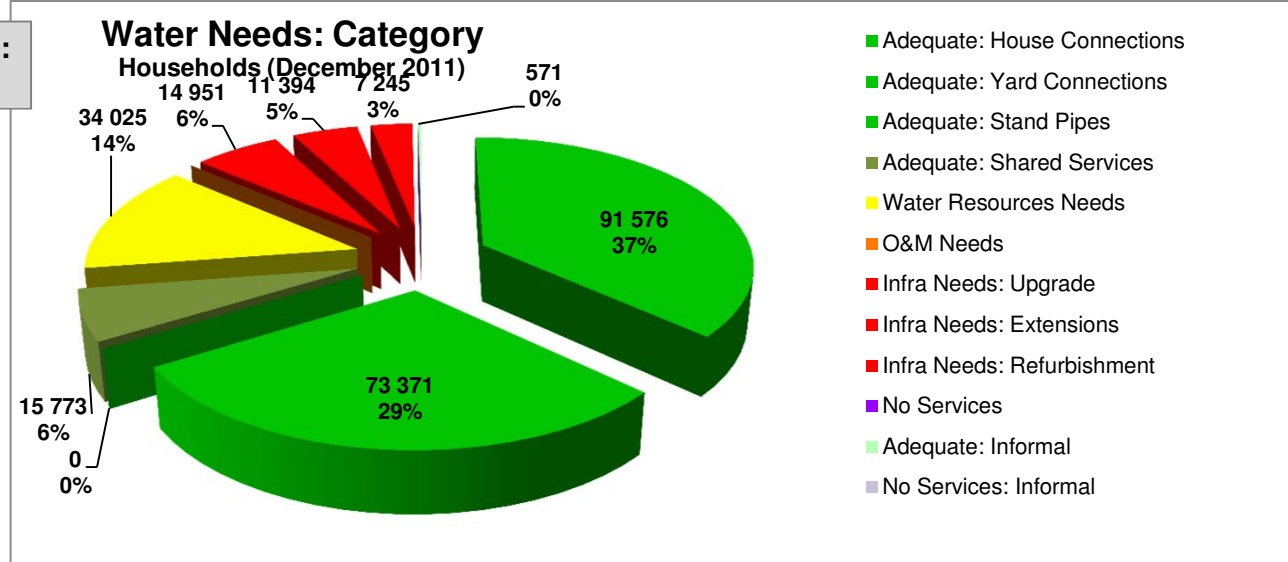
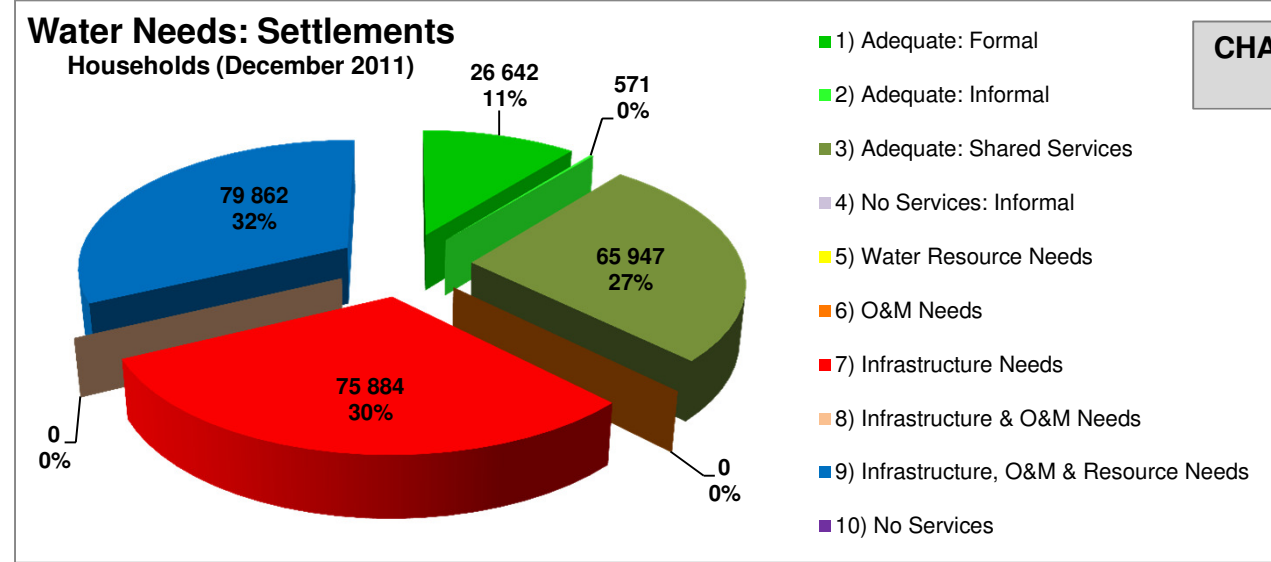
Water Categorisation	FORMAL																		INFORMAL					
	Adequate								Water Resources Needs	O&M Needs		Infrastructure Needs						No Services		Adequate		No Services		
	House Connections		Yard Connections		Stand Pipes		Shared Services					Upgrades		Extensions		Refurbishment				HH	%	HH	%	
	HH	%	HH	%	HH	%	HH	%	HH	%	HH	%	HH	%	HH	%	HH	%	HH	%	HH	%		
1	20 687	78	5 955	22	0	0																		
2																					571	100		
3	29 702	45	28 033	43	0	0	8 212	12																
4																								
5																								
6																								
7	24 448	32	21 650	29	0	0	5 920	7					11 086	15	6 298	8	6 482	9						
8																								
9	16 739	21	17 733	22	0	0	1 641	2	34 025	43	0	0	3 865	5	5 096	6	763	1						
10																								
Total per WSA	91 576		73 371		0		15 773		34 025		0		14 951		11 394		7 245		0		571		0	

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

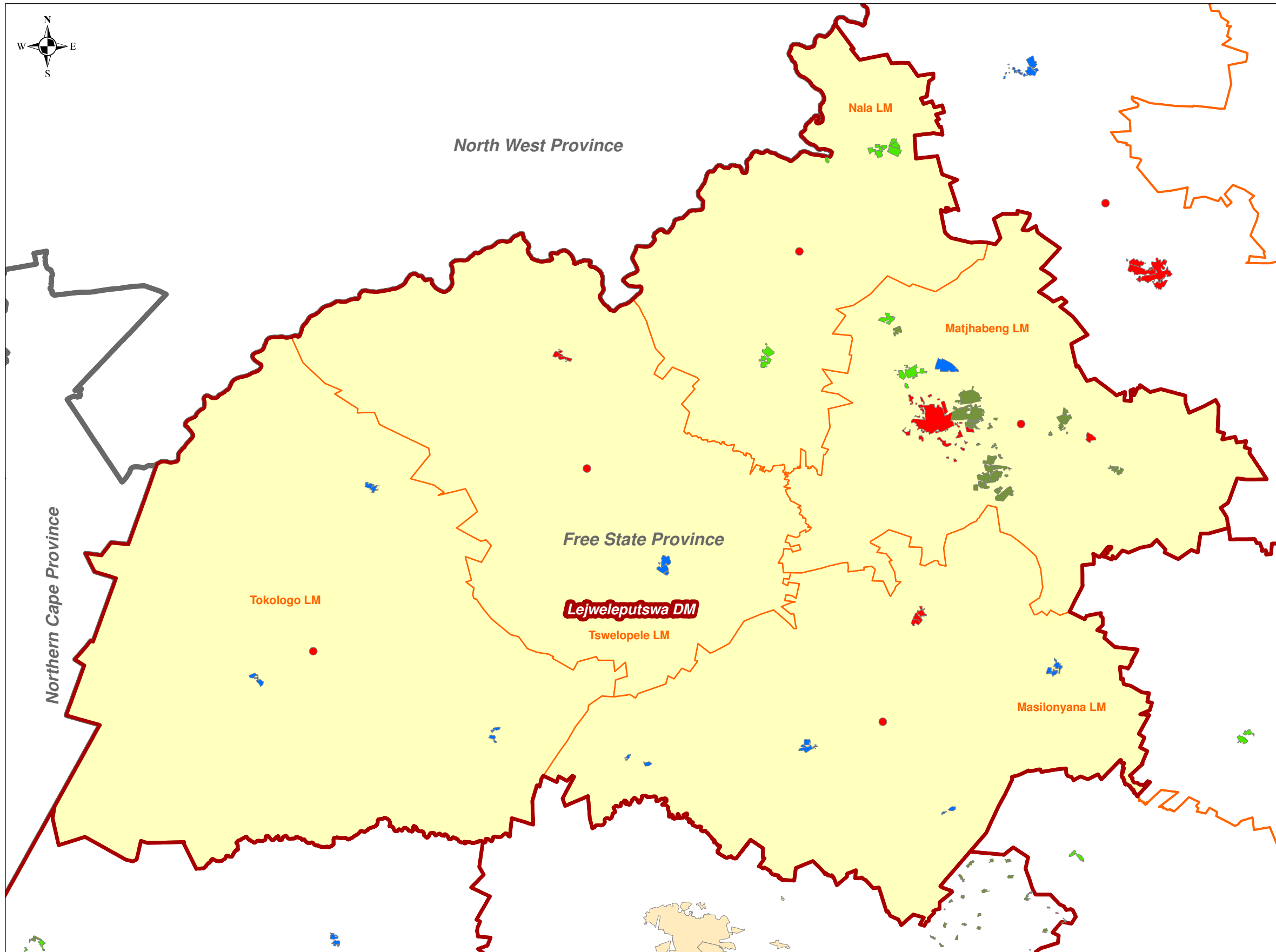
This presents the Water Services Level in relation to the **need category totals**



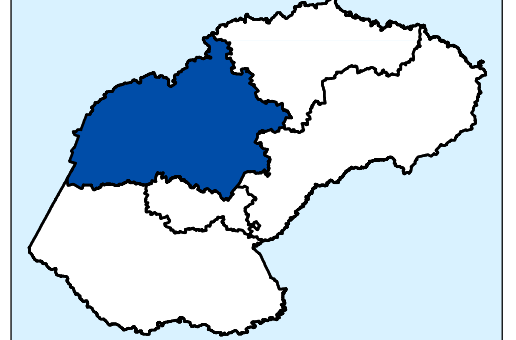
CHART VALUES:
(HH, %)



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



LOCALITY MAP



ACCESS TO WATER
Settlement Based

Settlement Categorisation

Formal

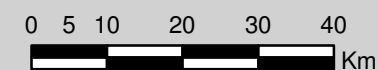
- 1) Adequate
- 3) Adequate: Shared Services
- 5) Water Resource Needs
- 6) O&M Needs
- 7) Infrastructure Needs
- 8) Infrastructure & O&M Needs
- 9) Infrastructure, O&M & Resource Needs
- 10) No Services

Informal

- 2) Adequate
- 4) No Services

BASEMAP LEGEND:

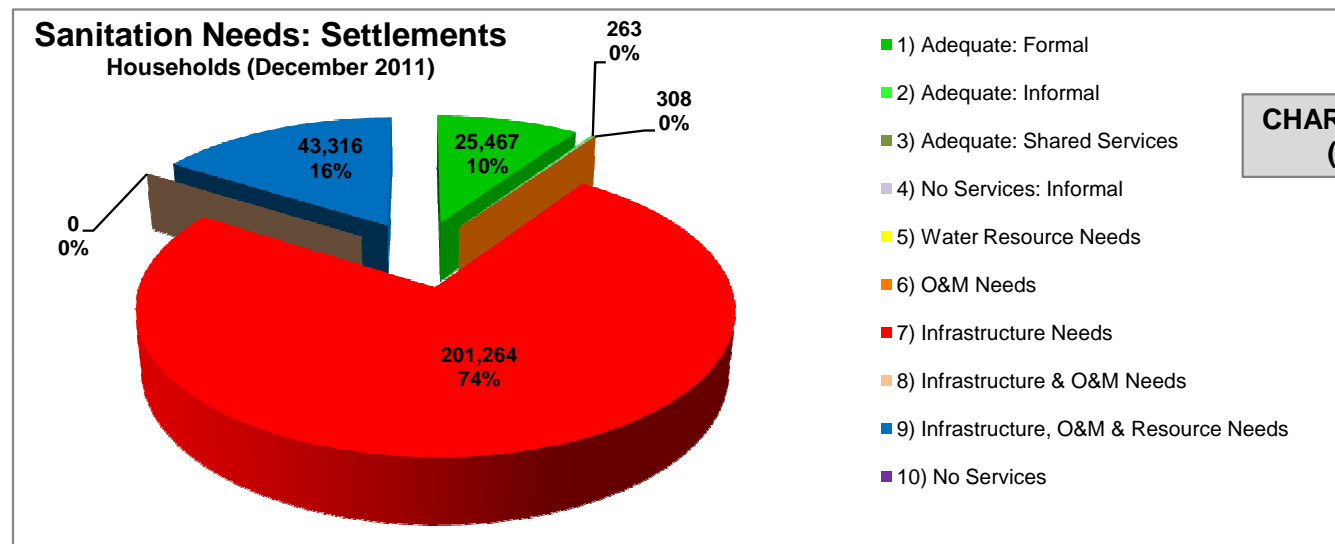
- Provincial Boundaries
- District Municipal Boundaries
- Lejweleputswa DM
- Local Municipal Boundaries



FREE STATE PROVINCE: LEJWELEPUTSWA DM

Sanitation Categorisation	FORMAL																				INFORMAL					
	Adequate										Water Resources Needs		O&M Needs		Infrastructure Needs						No Services		Adequate		No Services	
	Waterborne		Waterborne Low Flush		Septic Tanks		Non Waterborne		Shared Services						Upgrades		Extensions		Refurbishment				Adequate		No Services	
	HH	%	HH	%	HH	%	HH	%	HH	%	HH	%	HH	%	HH	%	HH	%	HH	%	HH	%	HH	%	HH	%
1	25,344	99	0	0	0	0	123	1																		
2																							263	100		
3																										
4																									308	100
5																										
6																										
7	102,634	51	0	0	0	0	12,101	6	0	0				16,009	8	51,935	26	18,585	9							
8																										
9	13,242	31	0	0	0	0	1,525	4	0	0	18,410	43	0	0	2,730	6	7,109	16	300	0						
10																										
Total per DM	141,220		0		0		13,749		0		18,410		0		18,739		59,044		18,885		0		263		308	

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



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

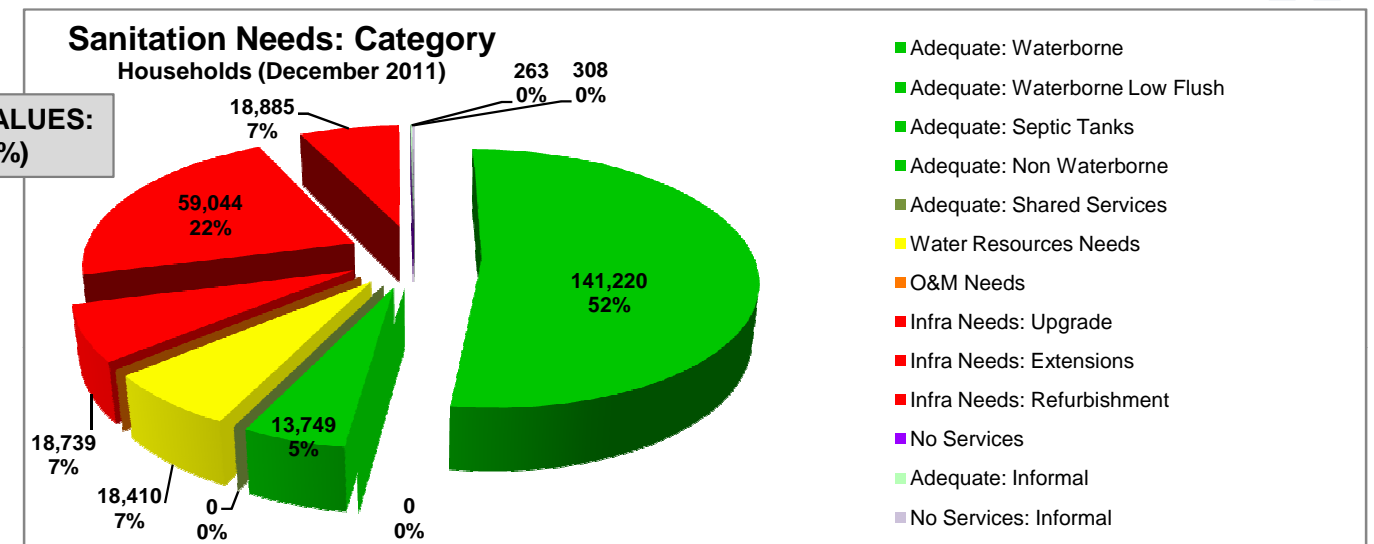
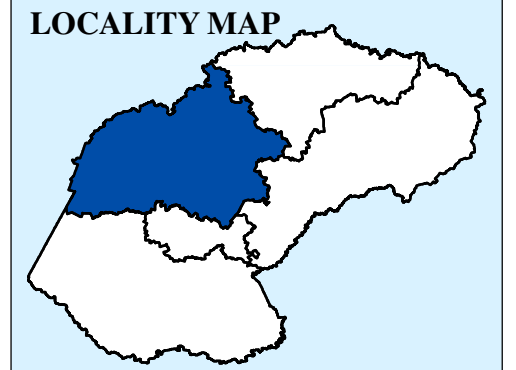
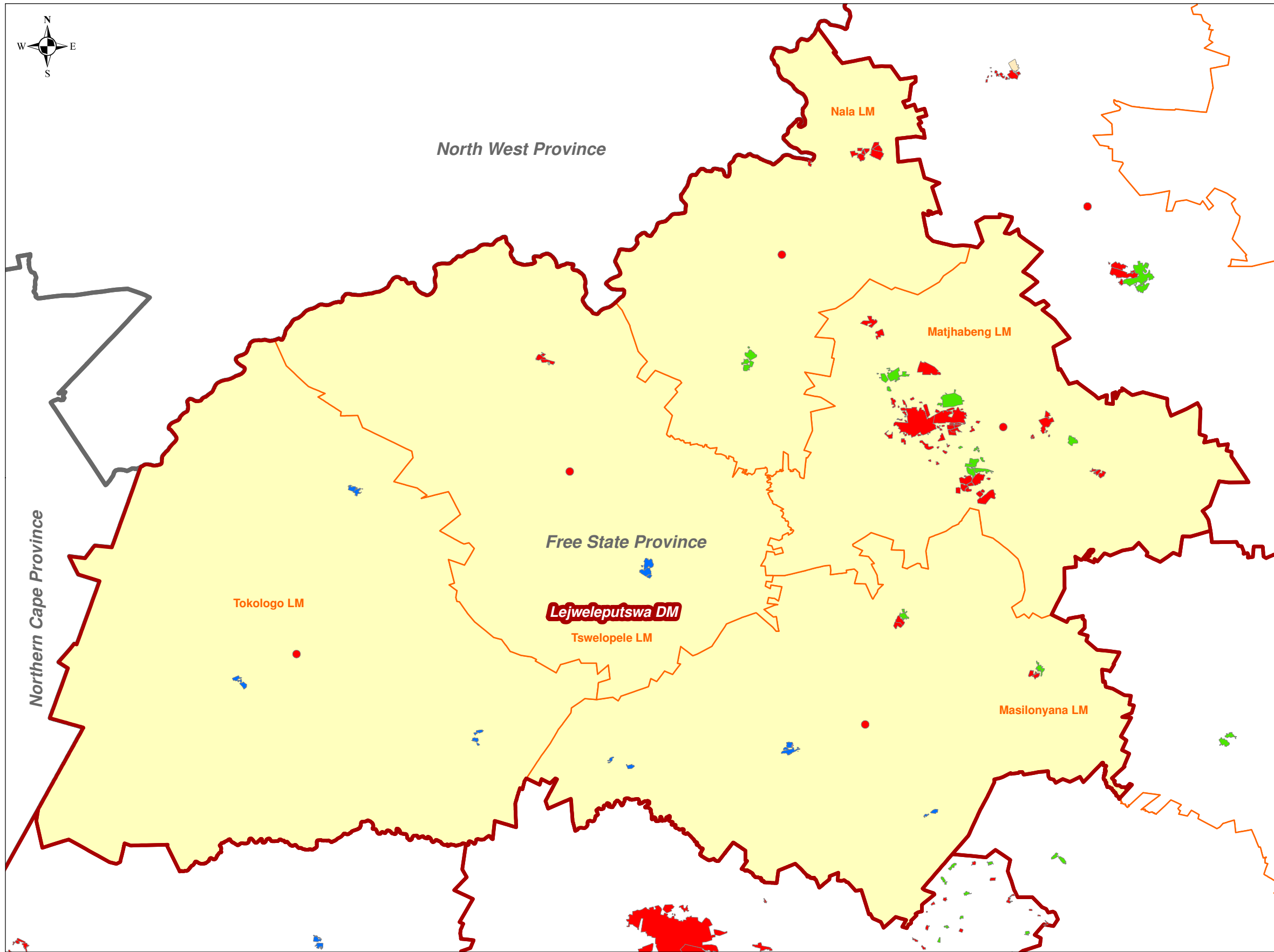


CHART VALUES:
(HH, %)

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



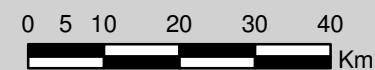
ACCESS TO SANITATION
Settlement Based

Settlement Categorisation

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

BASEMAP LEGEND:

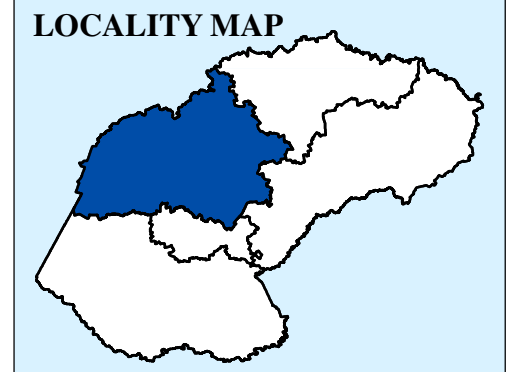
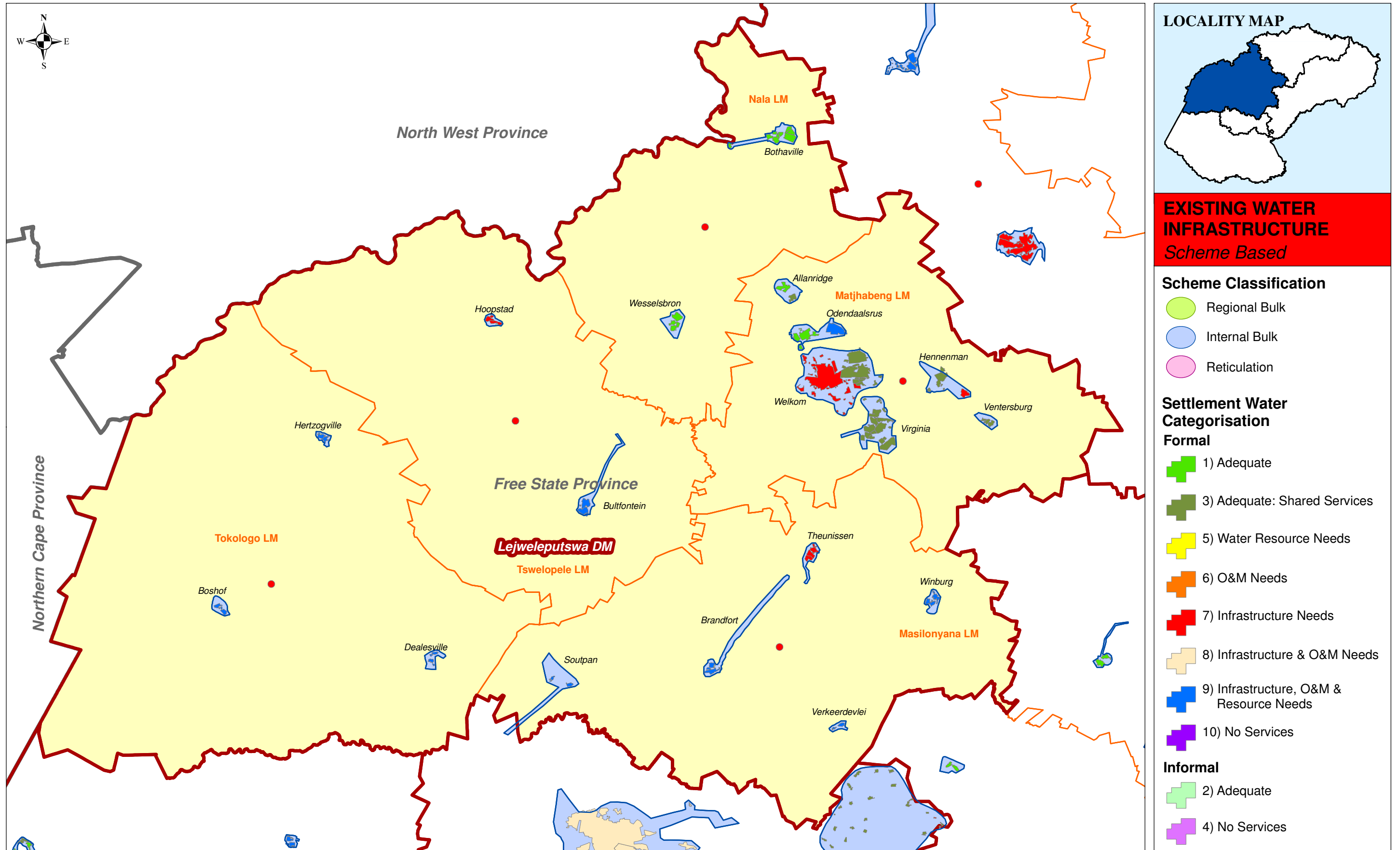
- Provincial Boundaries
- District Municipal Boundaries
- Lejweleputswa DM
- Local Municipal Boundaries



MM/DM	LM	REGIONAL BULK								INTERNAL BULK							RETICULATION						
		Number of Schemes	Total Number of Components						Pipe Length (km)	Number of Schemes	Total Number of Components					Number of Schemes	Total Number of Components			Pipe Length (km)			
			Pump Stations	Reser-voirs	WTW	WWTW	Boreholes	Abstractions Works			Pump Stations	Reser-voirs	WTW	WWTW	Boreholes		Abstraction Works	Street Taps	Erf Connections		House Connections		
Fezile Dabi	Mafube	0	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	0	3	21	12	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	0	53	5	12	14	4	7	4	0	48	0	0	0	0	0	
Lejweleputswa	Matjhabeng	0	0	0	0	0	0	0	61	6	28	18	0	13	1	0	99	0	0	0	0	0	
Lejweleputswa	Nala	0	0	0	0	0	0	0	0	2	9	15	0	2	0	0	27	0	0	0	0	0	
Lejweleputswa	Tokologo	0	0	0	0	0	0	0	0	3	13	15	0	4	25	0	36	0	0	0	0	0	
Lejweleputswa	Tswelopele	0	0	0	0	0	0	0	0	2	10	6	2	2	0	0	58	0	0	0	0	0	
Mangaung Metropolitan Municipality	Mangaung	0	0	0	0	0	0	0	7	3	19	40	3	9	0	0	292	0	0	0	0	3198	
Thabo Mofutsanyane	Dihlabeng	0	0	0	0	0	0	0	8	5	28	26	6	6	0	0	54	0	0	0	0	0	
Thabo Mofutsanyane	Maluti a Phofung	0	0	0	0	0	0	0	22	3	58	65	5	7	0	0	238	0	0	0	0	0	
Thabo Mofutsanyane	Mantsopa	0	0	0	0	0	0	0	19	5	13	19	5	6	12	0	61	0	0	0	0	0	
Thabo Mofutsanyane	Nketoana	0	0	0	0	0	0	0	26	4	10	10	5	4	0	0	24	0	0	0	0	0	
Thabo Mofutsanyane	Phumelela	0	0	0	0	0	0	0	0	3	15	6	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	5	2	0	51	0	0	0	0	0	
Xhariep	Kopanong	0	0	0	0	0	0	0	64	9	22	49	4	12	0	0	97	0	0	0	0	0	
Xhariep	Letsemeng	0	0	0	0	0	0	0	5	5	7	21	4	6	0	0	20	0	0	0	0	0	
Xhariep	Mohokare	0	0	0	0	0	0	0	86	3	7	11	2	3	0	0	26	0	0	0	0	0	
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	0	3198

NOTES:

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



EXISTING WATER INFRASTRUCTURE
Scheme Based

Scheme Classification

- Regional Bulk
- Internal Bulk
- Reticulation

Settlement Water Categorisation

Formal

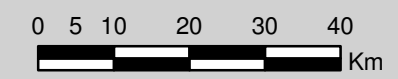
- + 1) Adequate
- + 3) Adequate: Shared Services
- + 5) Water Resource Needs
- + 6) O&M Needs
- + 7) Infrastructure Needs
- + 8) Infrastructure & O&M Needs
- + 9) Infrastructure, O&M & Resource Needs
- + 10) No Services

Informal

- + 2) Adequate
- + 4) No Services

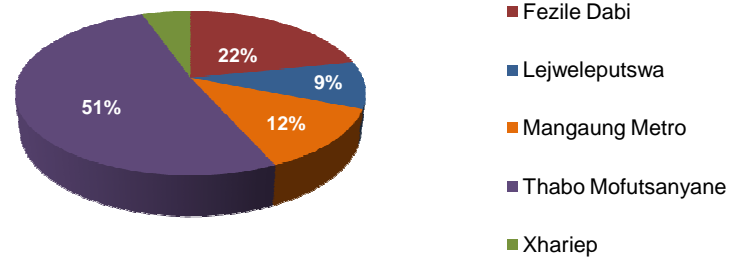
BASEMAP LEGEND:

- Provincial Boundaries
- District Municipal Boundaries
- Lejweleputswa DM
- Local Municipal Boundaries

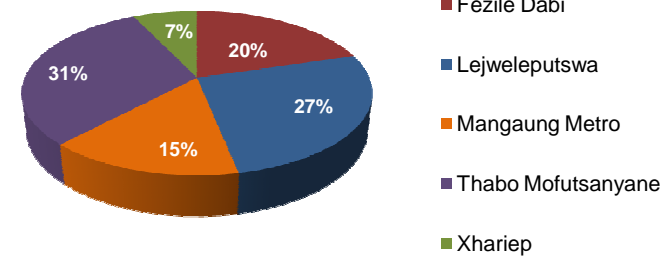


DEMOGRAPHICS (December 2011)				BASIC SERVICES REQUIREMENTS										
MM/DM	LM	Total Population	Total Households	Affected Population	Affected Households	Potential Cost (R)	Number of Schemes with Required Water Infrastructure							
							Upgrade	Refurbishment	O & M	Replace	Resource	Combination	None	
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	Moghaka	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	Tokolologo	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	

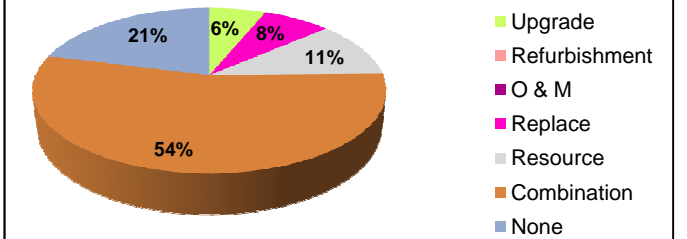
Affected Population



Potential Cost (R)

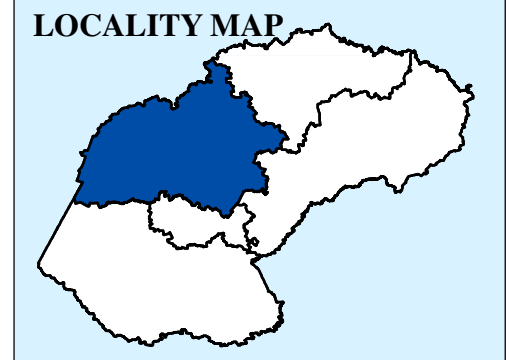
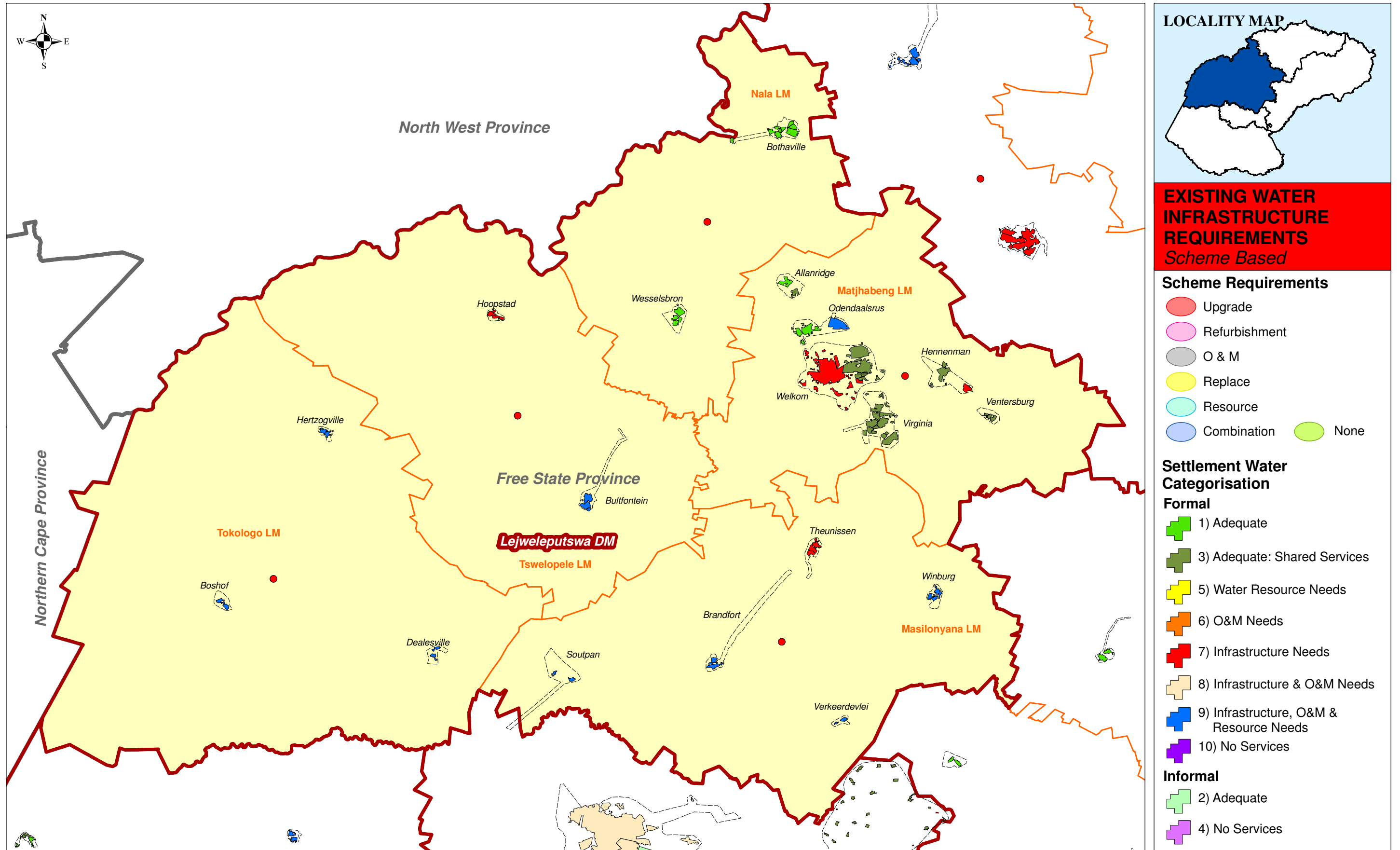


Percentage of Schemes with Required Water Infrastructure



NOTES:

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



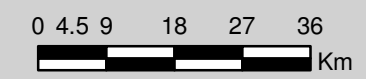
EXISTING WATER INFRASTRUCTURE REQUIREMENTS
Scheme Based

- Scheme Requirements**
- Upgrade
 - Refurbishment
 - O & M
 - Replace
 - Resource
 - Combination
 - None

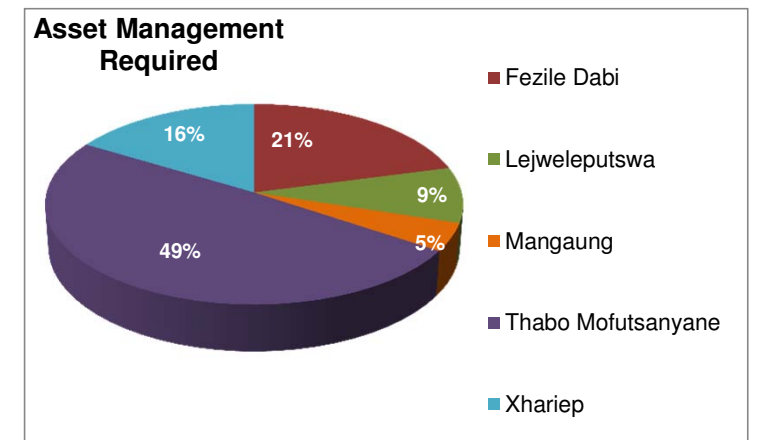
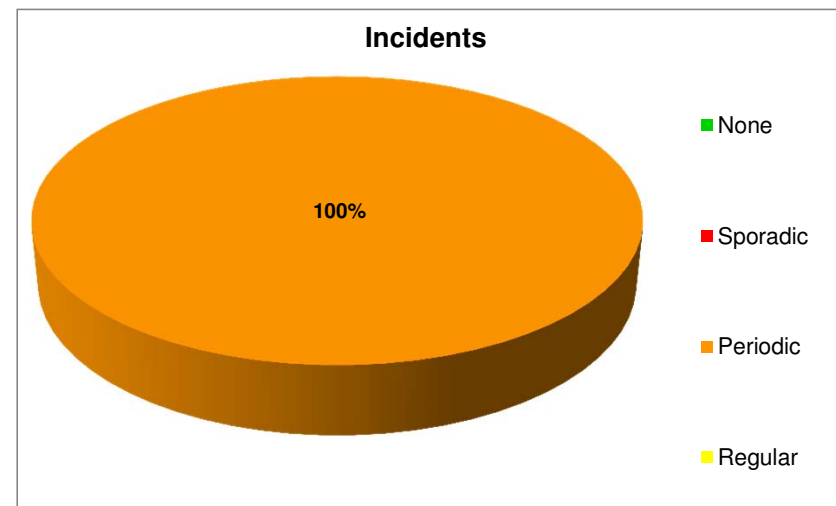
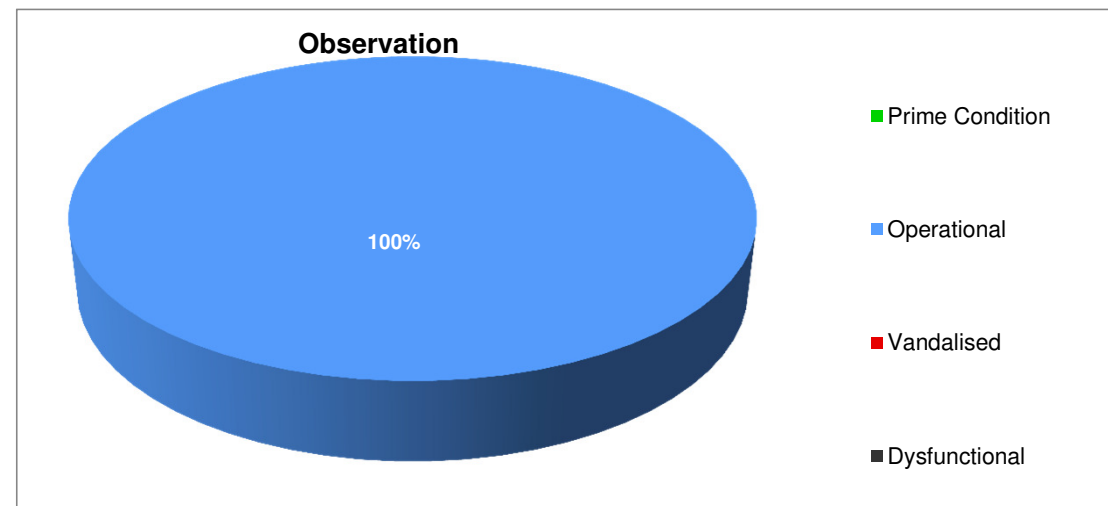
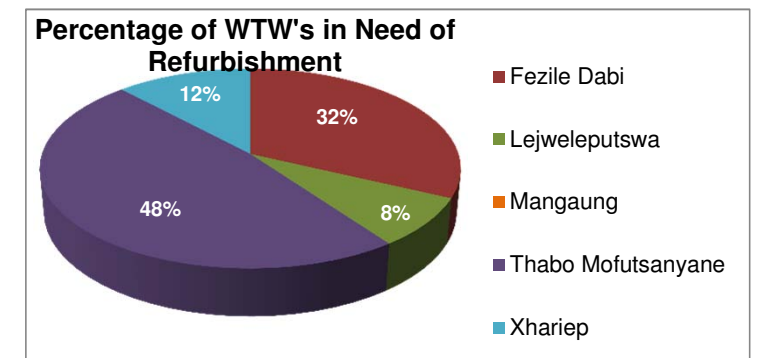
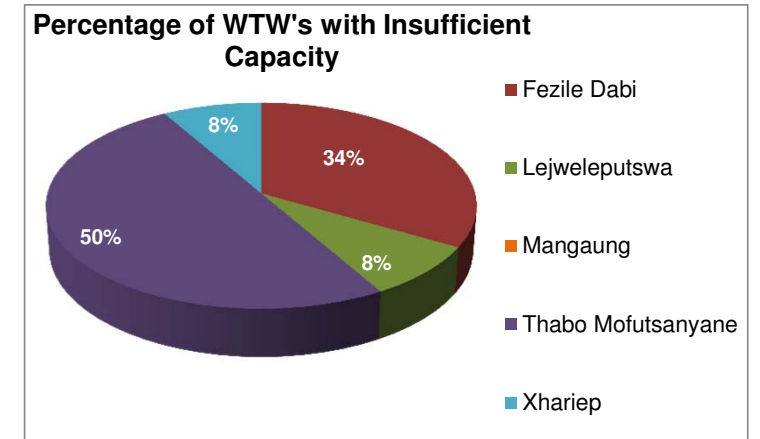
- Settlement Water Categorisation**
- Formal**
- + 1) Adequate
 - + 3) Adequate: Shared Services
 - + 5) Water Resource Needs
 - + 6) O&M Needs
 - + 7) Infrastructure Needs
 - + 8) Infrastructure & O&M Needs
 - + 9) Infrastructure, O&M & Resource Needs
 - + 10) No Services
- Informal**
- + 2) Adequate
 - + 4) No Services

BASEMAP LEGEND:

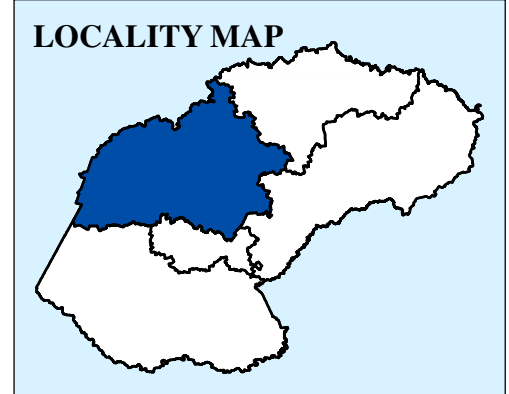
- Provincial Boundaries
- District Municipal Boundaries
- Information not submitted
- Lejweleputswa DM
- Local Municipal Boundaries



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



EXISTING WATER INFRASTRUCTURE: WTW
Component Based

Blue Drop Status
(data still in process)

- Yes (0)
- No (0)
- Unknown (6)

Refurbishment Need: WTW

- High
- Medium
- Low
- None

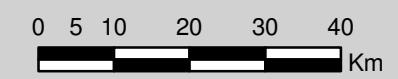
Observation: WTW

- Prime Condition
- Operational
- Vandalised
- Dysfunctional

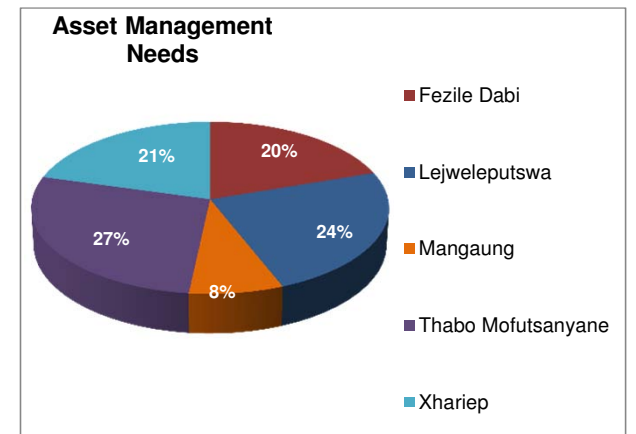
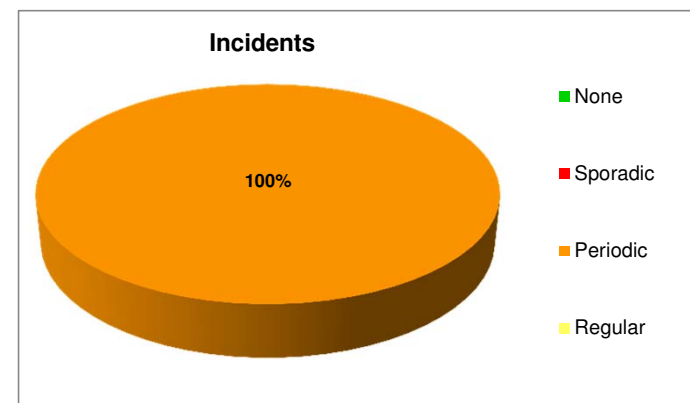
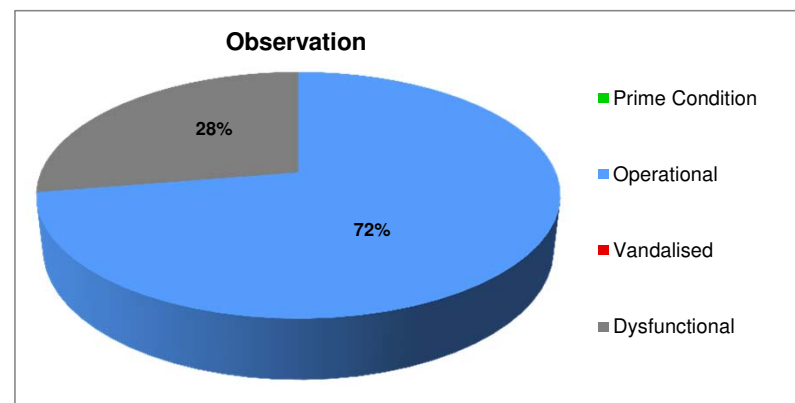
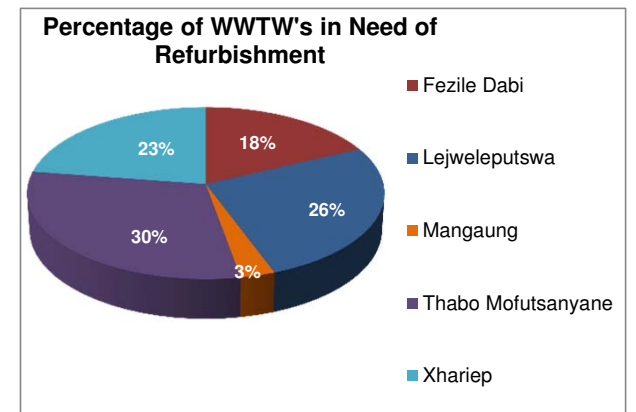
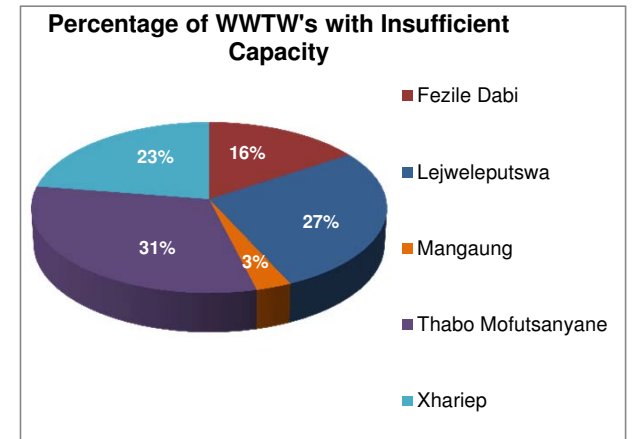
— Bulk Pipelines

BASEMAP LEGEND:

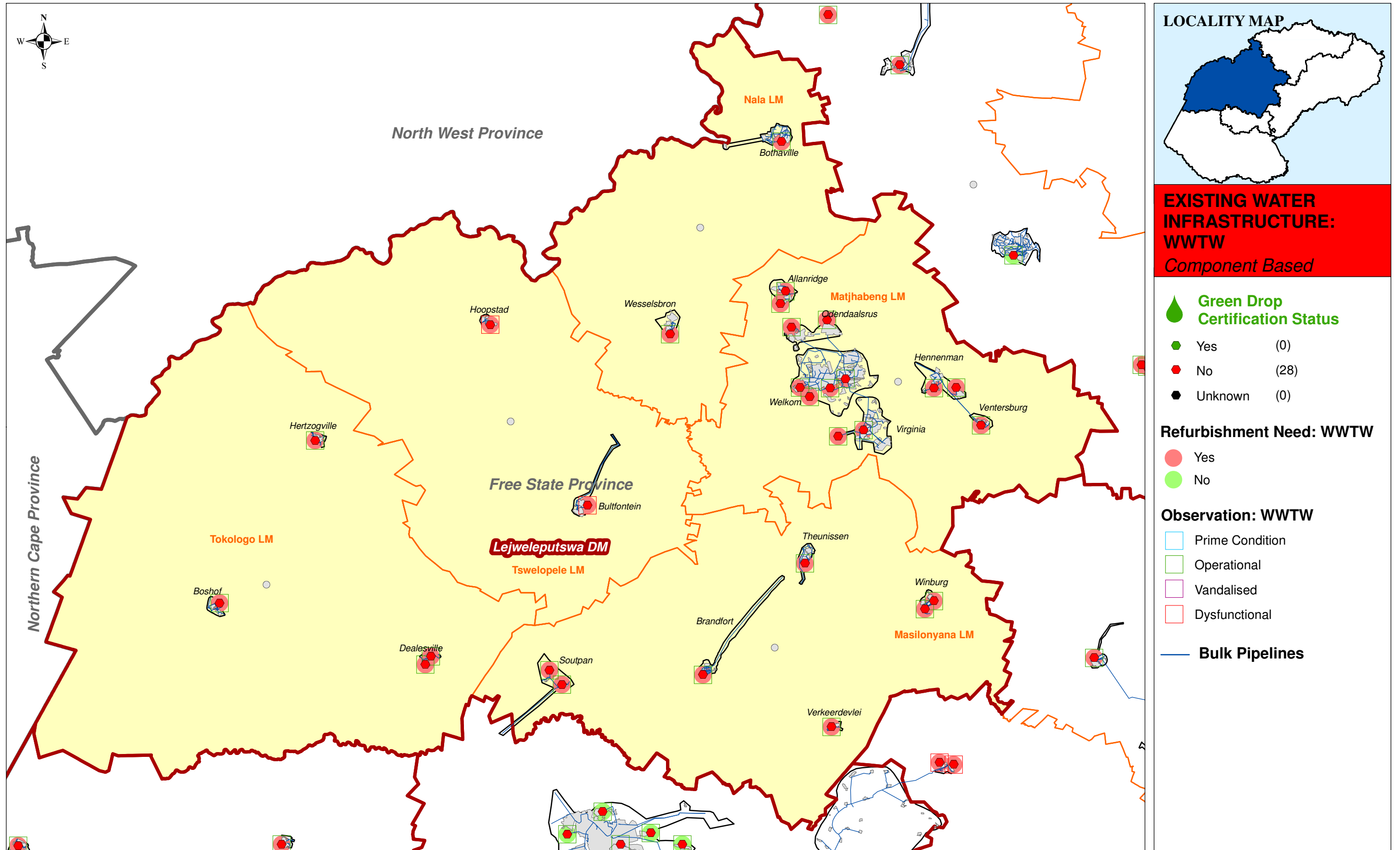
- Provincial Boundaries
- District Municipal Boundaries
- Lejweleputswa DM
- Local Municipal Boundaries



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	0
Fezile Dabi	Metsimaholo	7	39.558	39.56	39.56	3	4	0
Fezile Dabi	Moqhaka	5	18	24.8	18	2	4	0
Fezile Dabi	Ngwathe	5	13.65	20.6	13.65	5	5	0
Lejweleputswa	Masilonyana	7	8.354	8.552	8.1	7	7	0
Lejweleputswa	Matjhabeng	13	106.47	109.8	104.47	13	13	0
Lejweleputswa	Nala	2	6.2	9.7	6.2	2	2	0
Lejweleputswa	Tokologo	4	1.7	1.7	2.4	4	4	0
Lejweleputswa	Tswelopele	2	3.2	4.1	3.2	2	2	0
Mangaung Metropolitan Municipality	Mangaung	9	149.75	125.85	129.75	3	3	0
Thabo Mofutsanyane	Dihlabeng	6	29.63	25.93	28.68	6	6	0
Thabo Mofutsanyane	Maluti a Phofung	7	34.2	23.6	34.2	7	7	0
Thabo Mofutsanyane	Mantsopa	6	4.2	19	4.2	6	6	0
Thabo Mofutsanyane	Nketoana	4	12.16	12.16	12.16	4	4	0
Thabo Mofutsanyane	Phumelela	4	3.252	9.152	3.25	4	4	0
Thabo Mofutsanyane	Setsoto	5	11.57	31.4	17.26	5	5	0
Xhariep	Kopanong	12	6.051	10.026	6.051	11	12	0
Xhariep	Letsemeng	6	4.93	4.93	4.93	6	6	0
Xhariep	Mohokare	3	1.523	3	1.523	3	3	0
Xhariep	Naledi	3	10	10	10	3	3	0
Total for Province		116	475.81	502	458	102	106	0

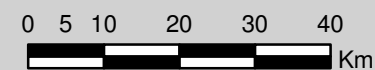


NOTES:1) Information concerning capacity of WWTW and Number of Staff on Site is completed as available.2) Information derived from Reference Framework geodatabase feature class WWTW



BASEMAP LEGEND:

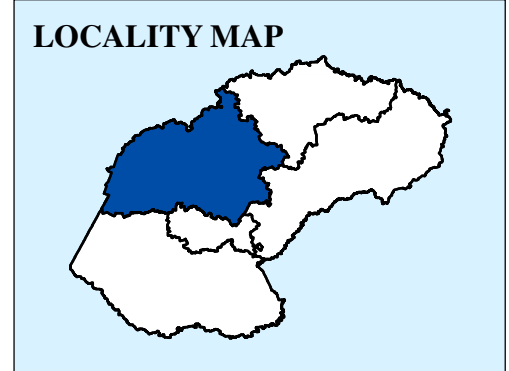
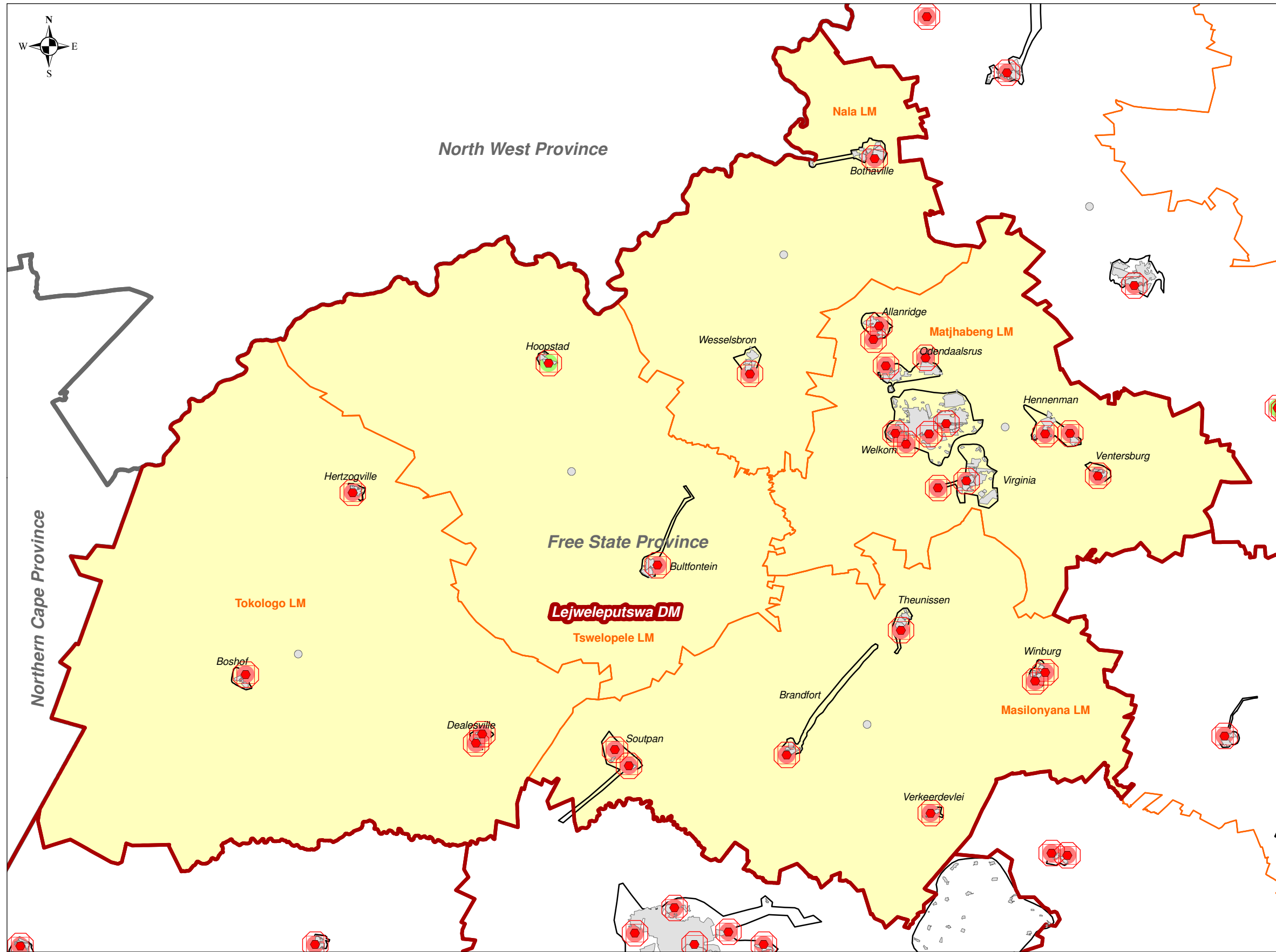
- Provincial Boundaries
- District Municipal Boundaries
- Lejweleputswa DM
- Local Municipal Boundaries



MM/DM	LM	Number of WWTW's	Number of Staff on Site (Permanently)	COMPLIANCE TO:								
				Supervisory Staff Requirements			Process Controller Staff Requirements			O&M Staff Requirements		
				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		
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:

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



O&M - STAFF CAPACITY:
WWTW
Component Based

Green Drop Certification Status

Green Drop	Yes	(0)
Red Drop	No	(28)
Blue Drop	Unknown	(0)

WWTW - COMPLIANCE TO:

Supervisory Staff Requirements

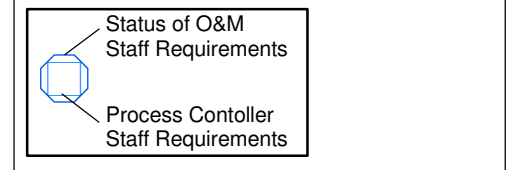
Red Circle	No
Green Circle	Yes
Blue Circle	Unknown

Process Controller Staff Requirements

Red Square	No
Green Square	Yes
Blue Square	Unknown

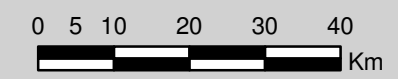
O&M Staff Requirements

Red Octagon	No
Green Octagon	Yes
Blue Octagon	Unknown

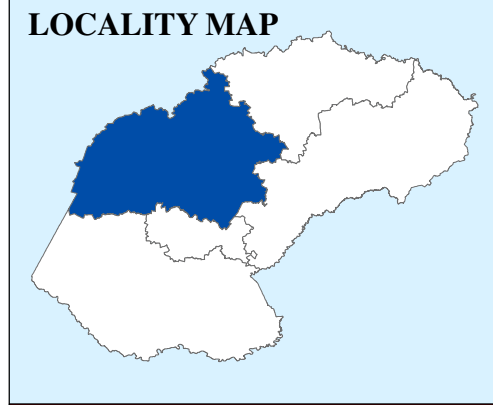


BASEMAP LEGEND:

Grey outline	Provincial Boundaries	Red outline	District Municipal Boundaries
Yellow fill	Lejweleputswa DM	Orange outline	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
Bloemhofdam	Vaal River	DWA	Middle Vaal	1,263	142	1269.2	4-approaching design capacity	irrigation (low value)	360	369
Erfenis Dam	Vet River	DWA	Middle Vaal	212		212	3-moderate use			71
Mushroom Valley Dam	Sand Spruit						No Data			
Rheeders							No Data			
Ryansdale Dam	Modder River						No Data			
Virginia Dam	Sand River						No Data			
VOLSTRUISPAN							No Data			
Whites Dam	Rietspruit						No Data			



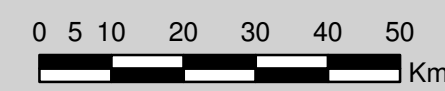
EXISTING SURFACE WATER RESOURCES

- Dams - Utilisation Grade**
- 2-under-utilized
 - 3-moderate use
 - 4-approaching design capacity
 - 5-exceeding capacity (stressed)
 - No Data

- Settlements Water Needs Categorisation**
- Formal**
- + 1) Adequate
 - + 3) Adequate: Sahred Services
 - + 5) Water Resource Needs
 - + 6) O&M Needs
 - + 7) Infrastructure Needs
 - + 8) Infrastructure & O&M Needs
 - + 9) Infrastructure, O&M & Resource Needs
 - + 10) No Services
- Informal**
- + 2) Adequate
 - + 4) No Services

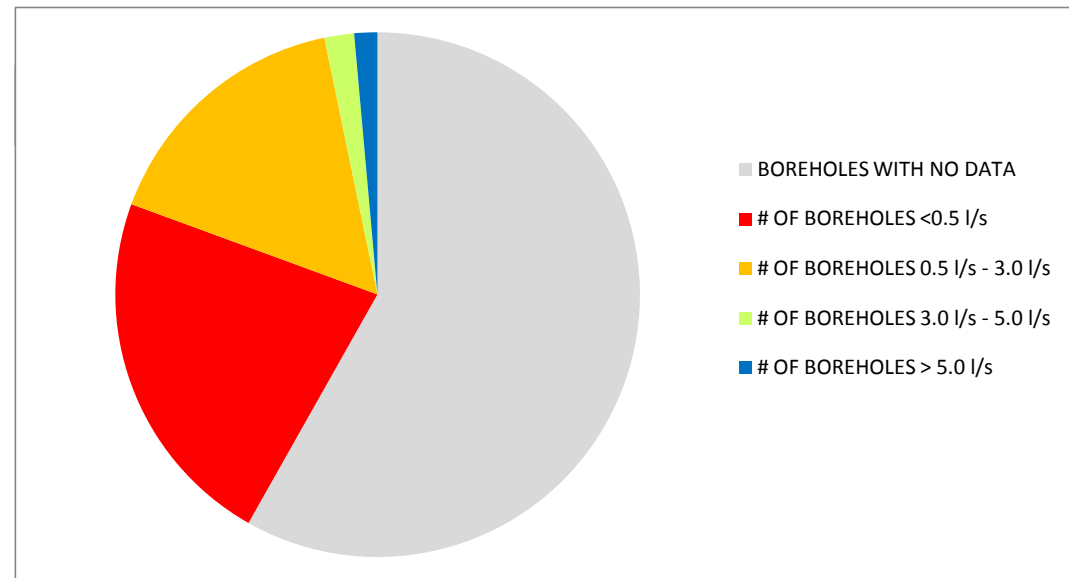
BASEMAP LEGEND:

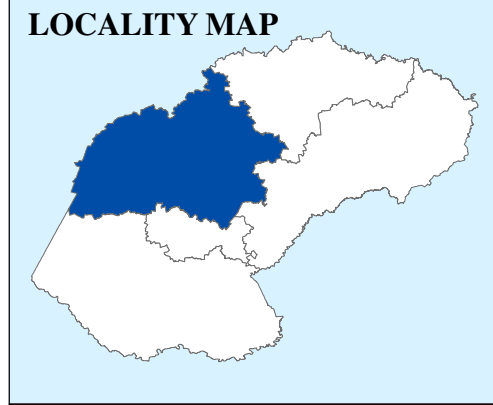
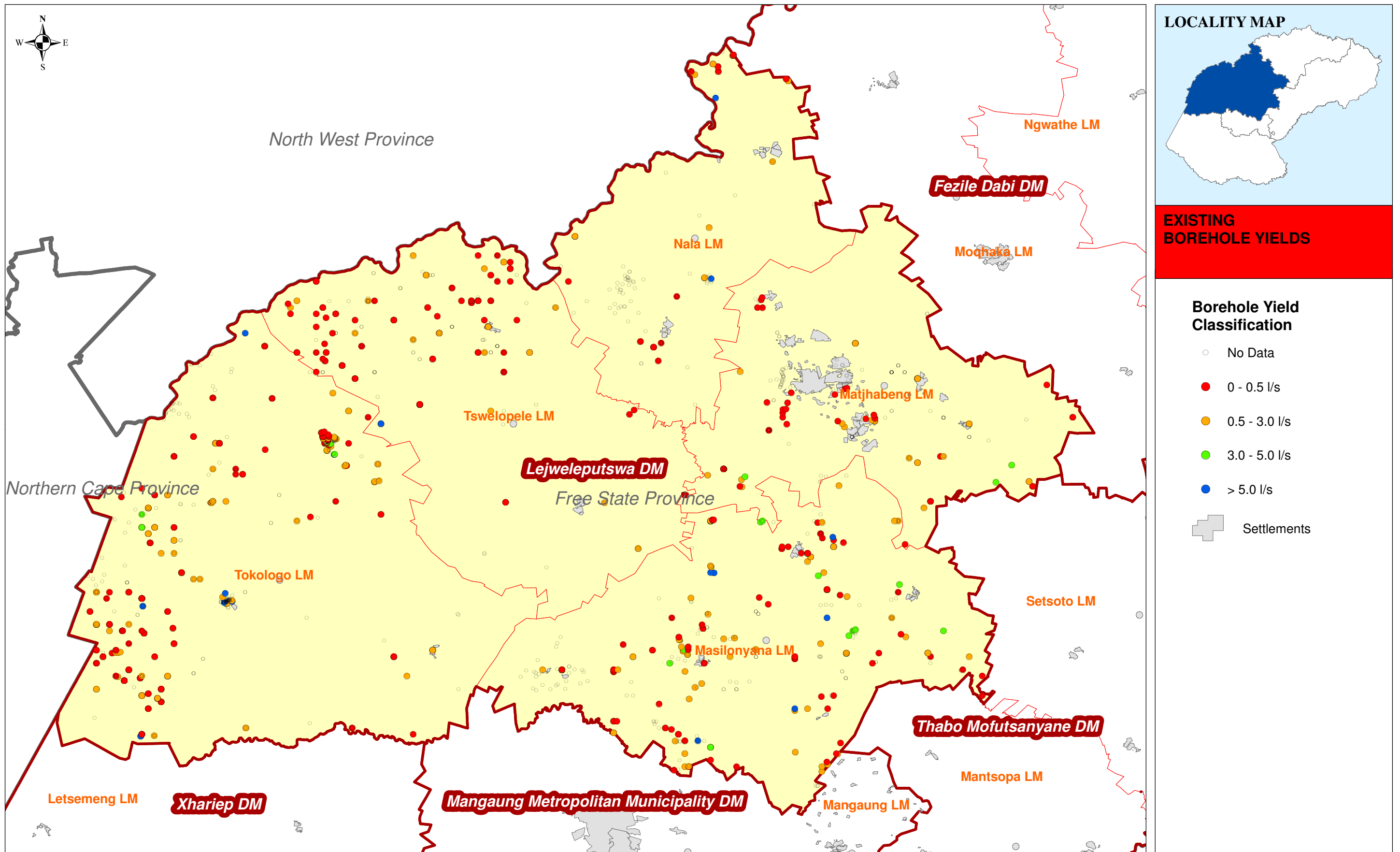
- Provincial Boundaries
- District Municipal Boundaries
- Lejweleputswa DM
- Local Municipal Boundaries



TOTAL NR OF BOREHOLES	BOREHOLES WITH NO DATA	# OF BOREHOLES <0.5 l/s	# OF BOREHOLES 0.5 l/s - 3.0 l/s	# OF BOREHOLES 3.0 l/s - 5.0 l/s	# OF BOREHOLES > 5.0 l/s
1 753	1020	393	283	32	25

AVERAGE BOREHOLE YIELD
2.38 l/s





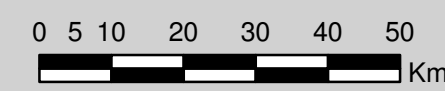
EXISTING BOREHOLE YIELDS

Borehole Yield Classification

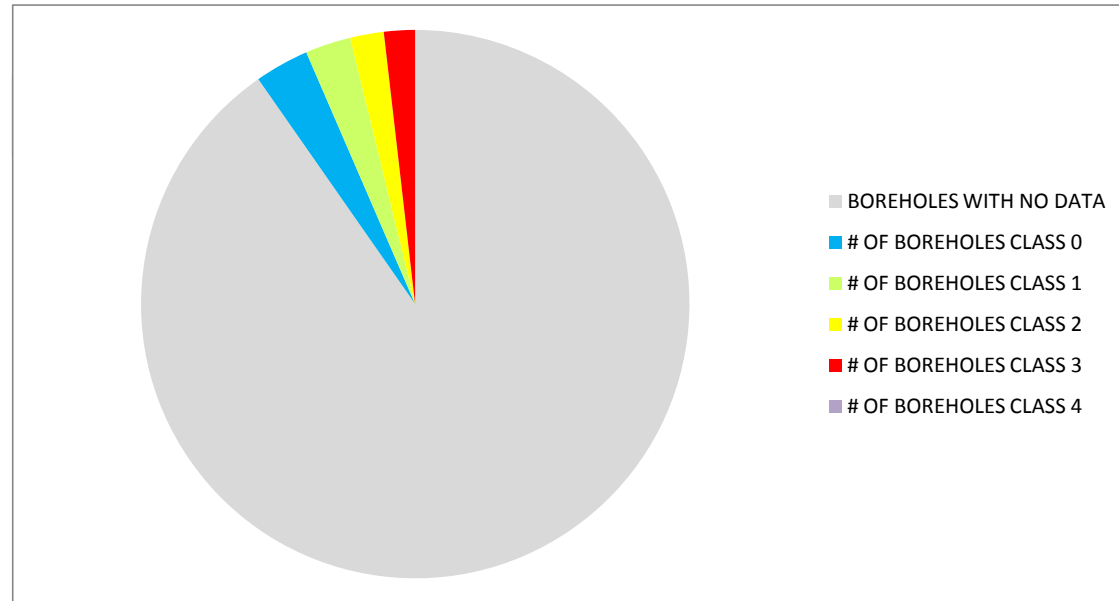
- No Data
- 0 - 0.5 l/s
- 0.5 - 3.0 l/s
- 3.0 - 5.0 l/s
- > 5.0 l/s
- Settlements

BASEMAP LEGEND:

- ▭ Provincial Boundaries
- ▭ District Municipal Boundaries
- ▭ Lejweleputswai DM
- ▭ Local Municipal Boundaries



TOTAL NR OF BOREHOLES	BOREHOLES WITH NO DATA	# OF BOREHOLES CLASS 0	# OF BOREHOLES CLASS 1	# OF BOREHOLES CLASS 2	# OF BOREHOLES CLASS 3	# OF BOREHOLES CLASS 4
1 753	1 583	56	47	35	32	0



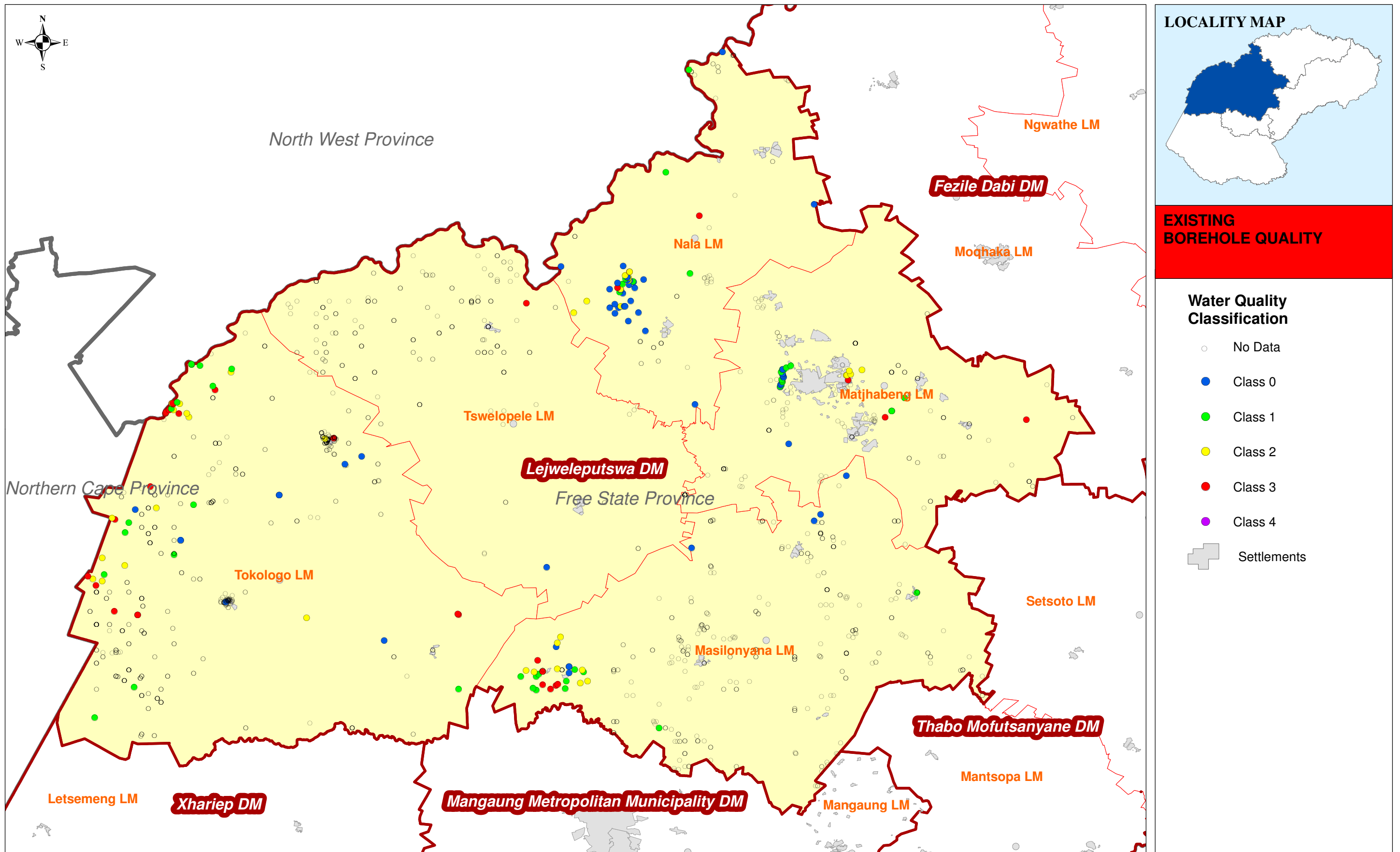
WATER QUALITY CLASSIFICATION FOR HUMAN CONSUMPTION

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

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



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

Fezile Dabi DM



Lejweleputswa DM



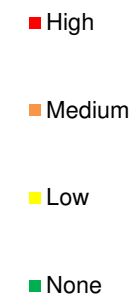
Mangaung MM

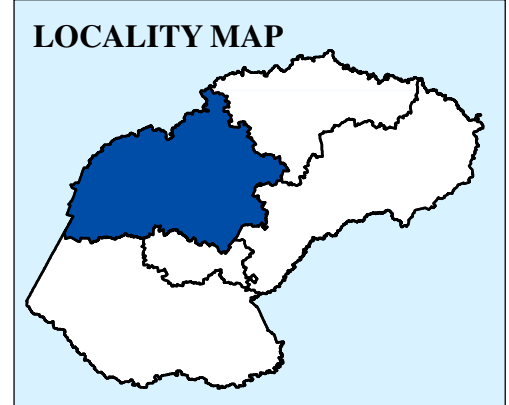
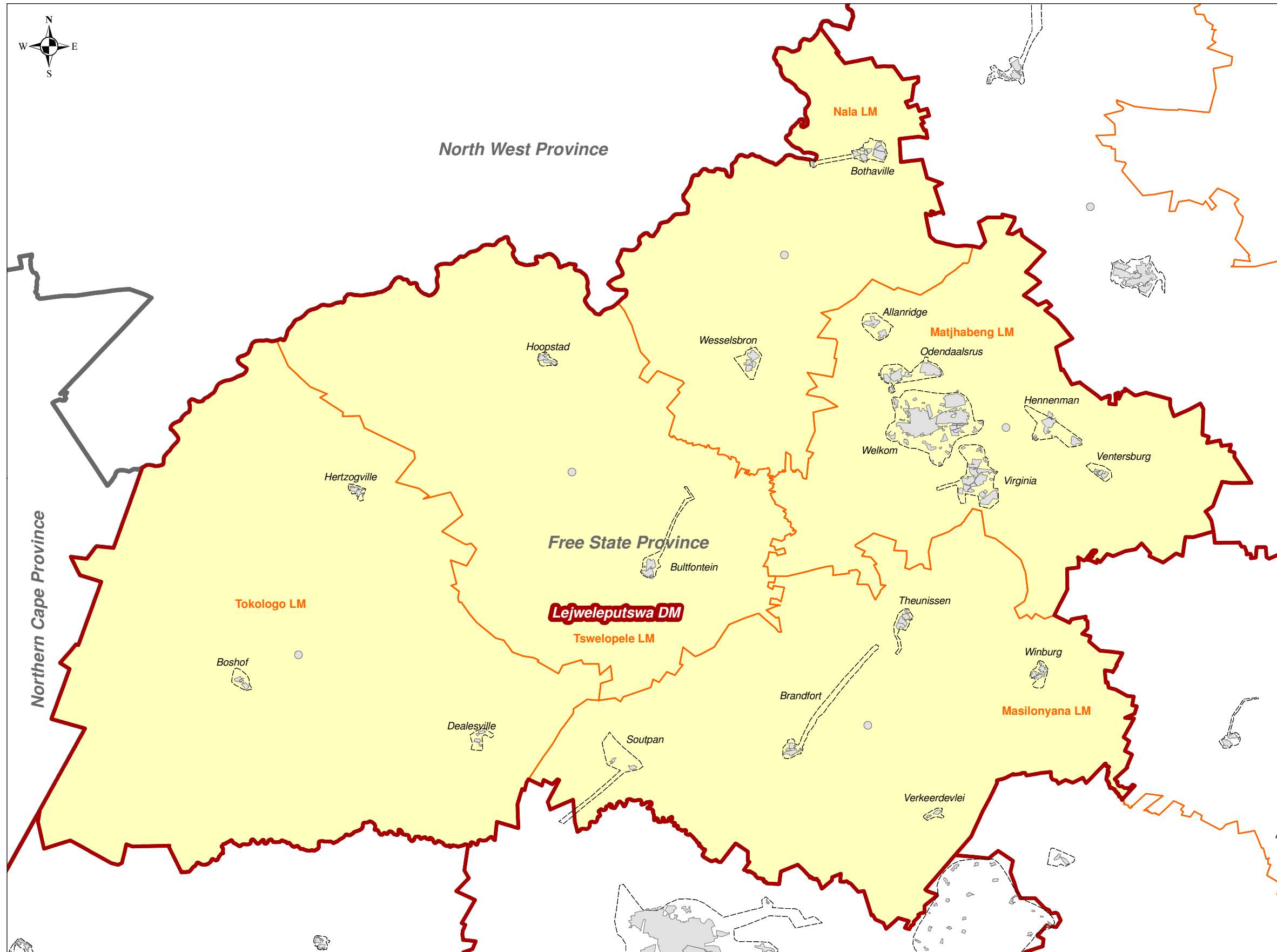


Thabo MofutsanyaneDM

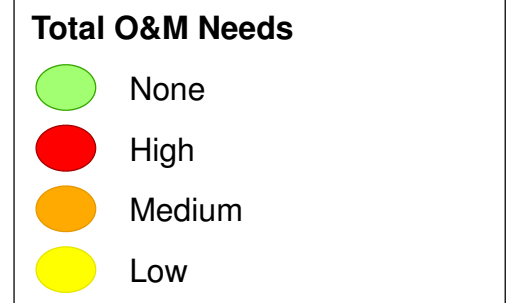


Xhariep DM



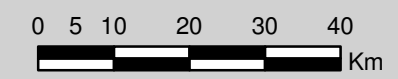


O&M NEEDS
Scheme Based

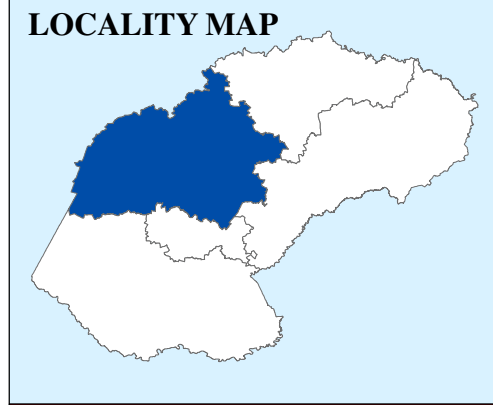
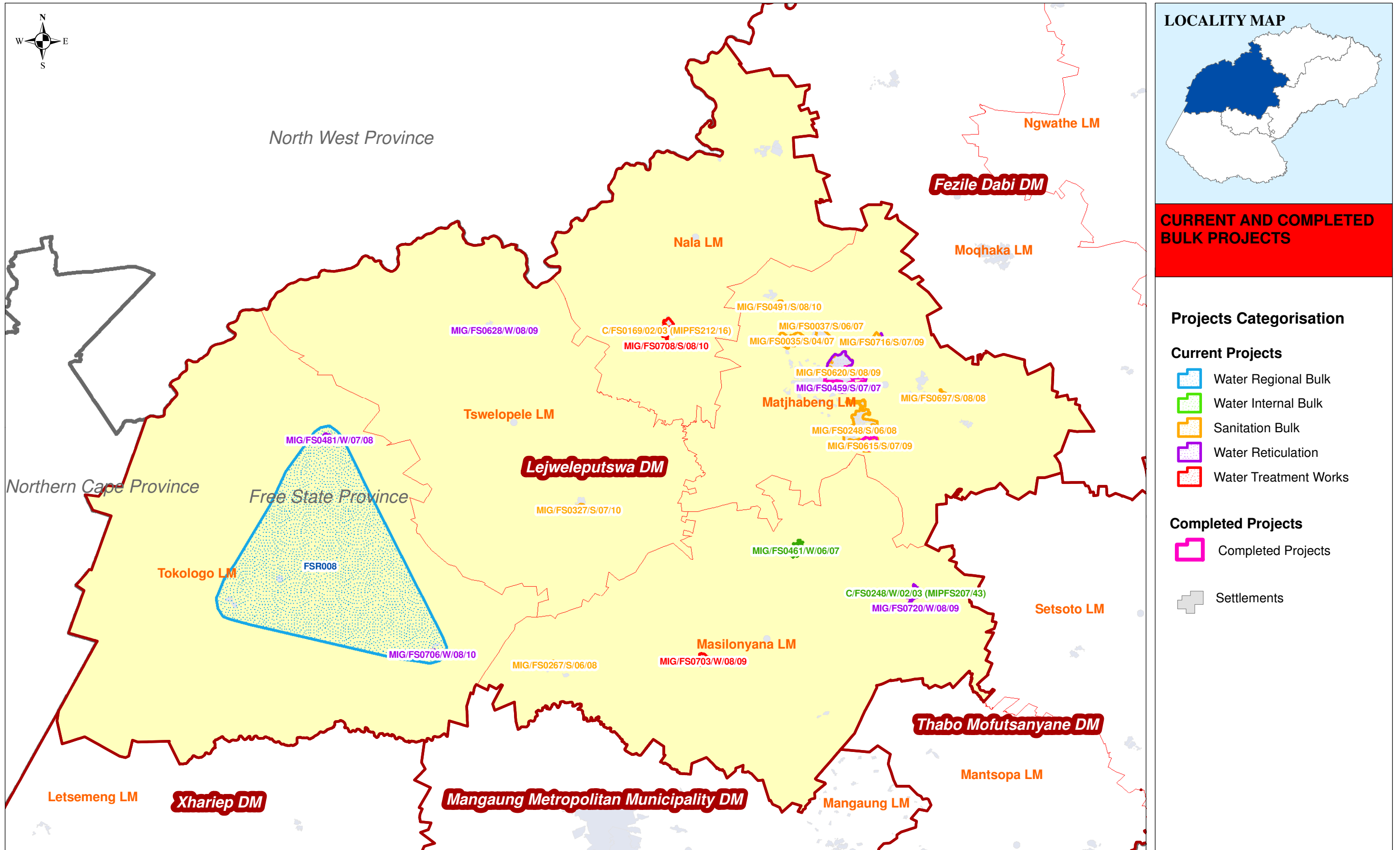


BASEMAP LEGEND:

- Provincial Boundaries
- District Municipal Boundaries
- Information not submitted
- Lejweleputswa DM
- Local Municipal Boundaries



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
Lejweleputswa District Municipality	Matjhaheng Local Municipality	ACIP	Odendaalsrus WWTW	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure New	Construction	0	0	0	0	7750000	0	0	0	7750000
Lejweleputswa District Municipality	Masilonyana Local Municipality	ACIP	Water Conservation and Demand Management	Water Regional Bulk	Planning	Water Resource Demand Management	Strategy in	0	0	0	0	1000000	0	0	0	1000000
Lejweleputswa District Municipality	Matjhaheng Local Municipality	ACIP	Sand River canal outlet	Water Treatment Works	Water Treatment Works	Water Infrastructure New	Construction	0	0	0	0	3000000	0	0	0	12160000
Lejweleputswa District Municipality	Nala Local Municipality	C/FS0169/02/03 (MIPFS212/16)	Wesselsbron: Upgrading of sewerage works-2 (174)	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Construction	0	0	0	0	0	0	0	0	0
Lejweleputswa District Municipality	Matjhaheng Local Municipality	C/FS0242/S/02/04 (MIPFS208/71)	(359)	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Extension	Design	0	0	0	0	0	0	0	0	0
Lejweleputswa District Municipality	Masilonyana Local Municipality	C/FS0248/W/02/03 (MIPFS207/43)	Winburg: 2MI Reservoir (269)	Water Internal Bulk	Water Reservoir	Water Resource Demand Management	Design	0	0	0	0	0	0	0	0	0
Lejweleputswa District Municipality	Tokologo Local Municipality	FSR008	Tokologo Regional Water Supply	Water Regional Bulk	Water Pipeline	Water Infrastructure New	Construction	0	0	38166743	0	0	0	0	47350265	81736375
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS00019/S/04/05	Matjhaheng: Eradication of 1500 sewer buckets- outflow lines	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Design	0	0	0	0	0	0	0	0	0
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0035/S/04/07	(MIS:184628)	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Construction	0	0	0	0	0	0	0	0	2726374
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0037/S/06/07	Kutlwanoeng: Upgrading of sewerage works phase 2	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Construction	0	0	0	0	0	0	0	0	755116
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0038/S/05/09	(MIS: 1619)	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Extension	Construction	0	0	0	0	0	0	0	0	4369150
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0039/S/05/06	overflow release pipeline	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Extension	Completed	0	0	0	0	0	0	0	0	9333237
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS00492/S/09/10	Witpan upgrade	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Upgrade	Construction	0	5319208	0	0	0	0	0	5319208	65000000
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0065/S/05/07	Kutlwanoeng: Toilet structures Geneva phase 1	Internal Sanitation	Sanitation Basic	Sanitation Replacement Buckets	Construction	0	0	0	0	0	0	0	0	0
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0069/S/05/06	toilet structures (MIS:184641)	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Construction	0	0	0	0	0	0	0	0	2135267
Lejweleputswa District Municipality	Nala Local Municipality	MIG/FS0216/S/06/07	6km main outflow lines	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Completed	0	0	0	0	0	0	0	0	10478880
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0248/S/06/08	Virginia: Upgrading of pumpstations Phase 1 (Main & Grysbok)	Sanitation Bulk	Sanitation Water Borne	Sanitation Infrastructure Upgrade	Design	0	0	0	0	0	0	0	0	0
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0255/S/06/07	Geneva Phase 2	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Completed	0	0	0	0	0	0	0	0	7292400
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0257/S/06/07	Meloding: Bucket eradication phase 2 for 1257 stands	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Completed	0	0	0	0	0	0	0	0	11616374
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0258/S/06/07	structures for 328 sites	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Extension	Completed	0	0	0	0	0	0	0	0	2872000
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0259/S/06/07	stands	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Construction	0	0	0	0	0	0	0	0	4662000
Lejweleputswa District Municipality	Masilonyana Local Municipality	MIG/FS0267/S/06/08	sewer collector mains	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Construction	0	1075314	0	0	0	0	0	1075314	2588973
Lejweleputswa District Municipality	Tswelopele Local Municipality	MIG/FS0327/S/07/10	works	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure New	Construction	0	24515000	0	0	0	0	0	24515000	59753500
Lejweleputswa District Municipality	Nala Local Municipality	MIG/FS0330/S/07/09	60 km main outflow lines	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Construction	0	0	0	0	0	0	0	0	1005060
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0333/S/06/07	Virginia: Relining of worn-out sewer lines	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Upgrade	Construction	0	0	0	0	0	0	0	0	2325812
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0342/S/06/09	8	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Construction	0	0	0	0	0	0	0	0	13950000
Lejweleputswa District Municipality	Masilonyana Local Municipality	MIG/FS0382/W/08/09	network for 643 erven (MIS:180459)	Water Reticulation	Water Reticulation	Water Infrastructure Upgrade	Construction	0	0	0	0	0	0	0	0	71305
Lejweleputswa District Municipality	Nala Local Municipality	MIG/FS0393/S/07/09	70km main outflow lines	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Construction	0	0	0	0	0	0	0	0	9761897
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0395/W/08/08	and connections for 1300 households (MIS:159831)	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Construction	0	0	0	0	0	0	0	0	4372660
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0459/S/07/07	waterborne sanitation 417 erven	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Design	0	0	0	0	0	0	0	0	2552291
Lejweleputswa District Municipality	Masilonyana Local Municipality	MIG/FS0461/W/06/07	Theunissen/Masilo: Reservoir	Water Internal Bulk	Water Reservoir	Water Resource Demand Management	Design	0	0	0	0	0	0	0	0	0
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0472/S/06/07	structures	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Extension	Completed	0	0	0	0	0	0	0	0	8967892
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0473/S/07/07	structures	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Extension	Completed	0	0	0	0	0	0	0	0	9294000
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0474/S/07/09	Kutlwanoeng: Rehabilitation of 2292 old toilet structures	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Upgrade	Completed	0	0	0	0	0	0	0	0	17313678
Lejweleputswa District Municipality	Tokologo Local Municipality	MIG/FS0481/W/07/08	erven	Water Reticulation	Water Reticulation	Water Infrastructure Upgrade	Construction	0	0	0	0	0	0	0	0	0
Lejweleputswa District Municipality	Tswelopele Local Municipality	MIG/FS0482/W/08/09	installation of erf connections and water meters (MIS:157586)	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Construction	0	0	0	0	0	0	0	0	0
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0491/S/08/10	stations and new outfall sewers (MIS:165350)	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Construction	0	1200000	0	0	0	0	0	1200000	10363019
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0492/S/09/10	restoration works phase 1 & 2 (MIS:165330)	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Construction	0	0	0	0	0	0	0	0	28142151
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0516/W/04/05	Matjhaheng: Installation of water meters (452) (MIS:184666)	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Completed	0	0	0	0	0	0	0	0	2681159
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0567/S/06/07	(Phase 5)	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Extension	Completed	0	0	0	0	0	0	0	0	11853000
Lejweleputswa District Municipality	Masilonyana Local Municipality	MIG/FS0586/S/07/08	Soutpan/Ikgomotseng: Eradication of 400 buckets	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Construction	0	363093	0	0	0	0	0	363093	2874230
Lejweleputswa District Municipality	Masilonyana Local Municipality	MIG/FS0587/S/07/07	treatment plant	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Construction	0	0	0	0	0	0	0	0	350877
Lejweleputswa District Municipality	Masilonyana Local Municipality	MIG/FS0597/S/07/09	outflow lines	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Construction	0	0	0	0	0	0	0	0	0
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0615/S/07/09	Meloding: Outfall sewer	Sanitation Bulk	Sanitation Water Borne	Sanitation Infrastructure Upgrade	Completed	0	0	0	0	0	0	0	0	7814319
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0619/S/07/08	lines (160001)	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Upgrade	Construction	0	1400000	0	0	0	0	0	1400000	8960560
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0620/S/08/09	Thabong: Rehabilitation of sewer treatment works (159996)	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Construction	0	0	0	0	0	0	0	0	13920762
Lejweleputswa District Municipality	Tswelopele Local Municipality	MIG/FS0628/W/08/09	installation of erf connections and water meters (MIS:157594)	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Construction	0	0	0	0	0	0	0	0	0
Lejweleputswa District Municipality	Tokologo Local Municipality	MIG/FS0648/W/09/10	existing Asbestos Pipeline(MIS:183410)	Water Reticulation	Water Reticulation	Water Infrastructure Upgrade	Construction	0	0	0	0	0	0	0	0	6106553
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0685/S/08/09	(MIS:185958)	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Extension	Construction	0	0	0	0	0	0	0	0	3683563
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0697/S/08/08	pipeline (MIS:166130)	Sanitation Bulk	Sanitation Water Borne	Sanitation Infrastructure New	Design	0	0	0	0	0	0	0	0	1577044
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0702/W/05/09	Klippan/Witpan Reduction of water levels	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Completed	0	0	0	0	0	0	0	0	8000000
Lejweleputswa District Municipality	Masilonyana Local Municipality	MIG/FS0703/W/08/09	Brandfont: Upgrading of Water Purification Plant (MIS:171211)	Water Treatment Works	Water Treatment Works	Water Infrastructure Upgrade	Construction	0	0	0	0	0	0	0	0	523729
Lejweleputswa District Municipality	Tokologo Local Municipality	MIG/FS0706/W/08/10	asbestos pipeline (MIS:172951)	Water Reticulation	Water Reticulation	Water Infrastructure Upgrade	Construction	0	0	0	0	0	0	0	0	1720883
Lejweleputswa District Municipality	Nala Local Municipality	MIG/FS0708/S/08/10	Wesselsbron/ Monyakeng :Purification Plant Phase 2	Water Treatment Works	Water Treatment Works	Water Infrastructure Upgrade	Construction	0	0	0	0	0	0	0	0	4373752
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0716/S/07/09	Stateway: Upgrading of outfall sewer (MIS:159970)	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Design	0	400000	0	0	0	0	0	400000	4360000
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIG/FS0717/W/08/08	Bronville: Construction of water lines (MIS:166630)	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Completed	0	0	0	0	0	0	0	0	4217973
Lejweleputswa District Municipality	Masilonyana Local Municipality	MIG/FS0720/W/08/09	reticulation network (Asbestos)(MIS:179776)	Water Reticulation	Water Reticulation	Water Infrastructure Upgrade	Construction	0	0	0	0	0	0	0	0	2533470
Lejweleputswa District Municipality	Tokologo Local Municipality	MIG/FS0753/S/09/11	(MIS:183250)	Internal Sanitation	Sanitation Basic	Sanitation Replacement Buckets	Construction	0	167887	0	0	0	0	0	167887	3827818
Lejweleputswa District Municipality	Matjhaheng Local Municipality	MIPFS208/98	Matjhaheng: Installation of water meters (452)	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Construction	0	0	0	0	0	0	0	0	2351894
Lejweleputswa District Municipality	Matjhaheng Local Municipality	Temp Actpl 00012	THABONG X12 & 13: Water and Sewerage	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Extension	Construction	0	0	0	0	0	0	0	0	241220
Lejweleputswa District Municipality	Matjhaheng Local Municipality	Temp Actpl 00049	Sewer connections houses to main lines (Latitude)	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Extension	Design	0	3000000	0	0	0	0	0	3000000	6000000
Lejweleputswa District Municipality	Matjhaheng Local Municipality	W/FS/7132/07/08	Thabong X12&13: Water reticulation (MIS:159831)	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Construction	0	0	0	0	0	0	0	0	3118638

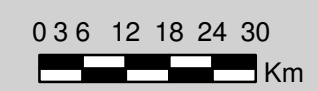


CURRENT AND COMPLETED BULK PROJECTS

- Projects Categorisation**
- Current Projects**
- Water Regional Bulk
 - Water Internal Bulk
 - Sanitation Bulk
 - Water Reticulation
 - Water Treatment Works
- Completed Projects**
- Completed Projects
 - + Settlements

BASEMAP LEGEND:

- Provincial Boundaries
- District Municipal Boundaries
- Lejweleputswa DM
- Local Municipal Boundaries

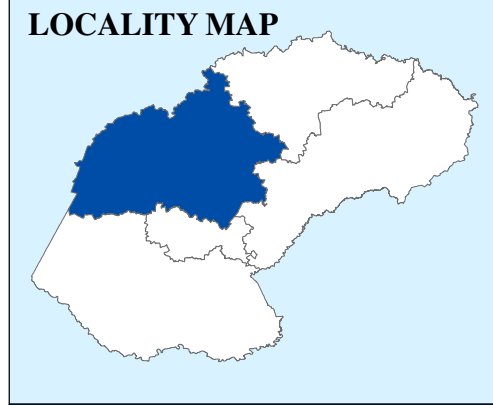
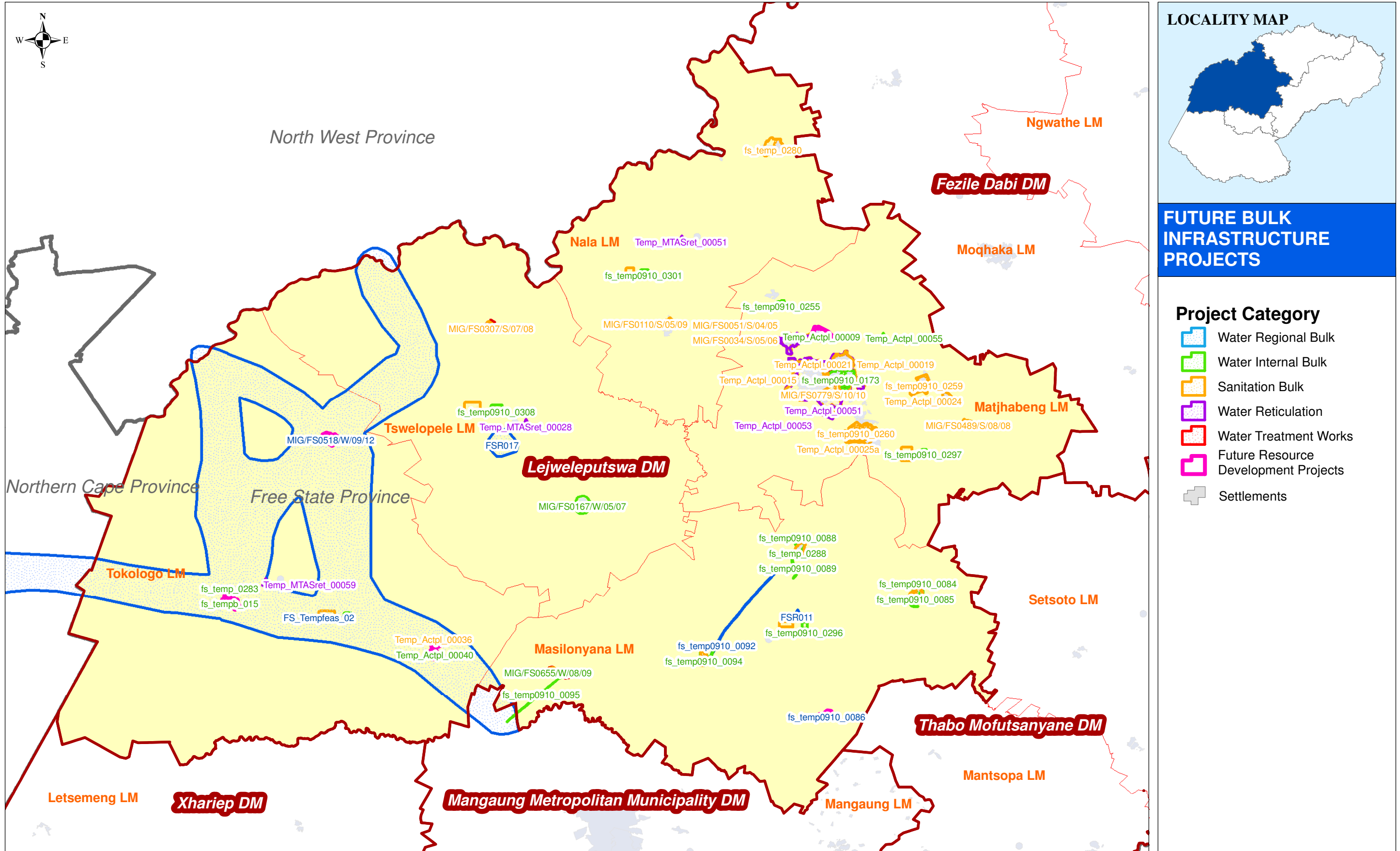


Assessment of each WSA as presented in the WSDP for all Water Services Planning
 Enabling Factors, Compliancy Elements and Future Plans in relation to:

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

	<u>TOPIC</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
<i>Topics Assessed</i>	Topic 2	Demographics Profile	I
	Topic 3	Service Levels Profile	II
	Topic 4	Economic Background	III
	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
	Topic 10	Financial Report	IX
	Topic 11	Water Services Arrangement Profile	X
	Topic 12	Social & Customer Service Requirements	XI
	Overall Topic Assessment	WSDP Status Quo Knowledge Interpretation Report	XII

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
Lejweputswa District Municipality	Masilonyana Local Municipality	C/F50247/02/03 (MIPFS207/40)	Winburg: Upgrading of sewerage works (267)	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Awaiting Funding	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Majababeng Local Municipality	C/F50359/S/04/05 (MIPFS208/100)	Majababeng: Rudimentary sanitation for 2000 new erven (455)	Internal Sanitation	Sanitation Water Borne	Sanitation Infrastructure Extension	Awaiting Funding	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Majababeng Local Municipality	C/F50360/S/04/05 (MIPFS208/99)	Majababeng: Eradicate bucket system phase 1 (454)	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Awaiting Funding	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Nala Local Municipality	fs_temp_0280	Purification Plant Phase 2	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure New	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Tokologo Local Municipality	fs_temp_0283	Boshof/Rehabilitation of reservoirs & installation of Water Lines	Water Internal Bulk	Water Reservoir	Water Infrastructure Upgrade	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	fs_temp_0288	Theunissen/Masilo: Upgrading of Water Purification Pumps	Water Internal Bulk	Water Pumpstation	Water Infrastructure Upgrade	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	fs_temp_0289	Upgrade oxidation ponds in Verkeerdevele	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	fs_temp_0290	Verkeerdevele/Tshepong/Bulk Water Supply	Water Internal Bulk	Water Pipeline	Water Infrastructure New	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	fs_temp0910_0084	Refurbish asbestos lines in Winburg	Water Internal Bulk	Water Pipeline	Water Infrastructure Upgrade	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	fs_temp0910_0085	Upgrade water purification plant in Winburg	Water Internal Bulk	Water Treatment Works	Water Infrastructure Upgrade	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	fs_temp0910_0086	Bulk water supply to Verkeerdevele	Water Regional Bulk	Water Pipeline	Water Infrastructure New	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	fs_temp0910_0087	Storage capacity in Verkeerdevele 2Ml	Water Internal Bulk	Water Reservoir	Water Infrastructure New	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	fs_temp0910_0088	Upgrading of wtn in Theunissen	Water Internal Bulk	Water Treatment Works	Water Infrastructure Upgrade	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	fs_temp0910_0089	Refurbish asbestos lines in Theunissen	Water Internal Bulk	Water Pipeline	Water Infrastructure Upgrade	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	fs_temp0910_0091	Upgrade wtn in Brandfont	Water Internal Bulk	Water Treatment Works	Water Infrastructure Upgrade	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	fs_temp0910_0092	Bulk water supply from Theunissen to Brandfont	Water Regional Bulk	Water Pipeline	Water Infrastructure New	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	fs_temp0910_0094	Increase storage in Brandfont with 2Ml	Water Internal Bulk	Water Reservoir	Water Infrastructure New	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	fs_temp0910_0095	Upgrade wtn in Soutpan	Water Internal Bulk	Water Treatment Works	Water Infrastructure Upgrade	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	fs_temp0910_0097	Increase storage with 1 Ml in Soutpan	Water Internal Bulk	Water Reservoir	Water Infrastructure Upgrade	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	fs_temp0910_0098	Upgrade waste water plant in Masilo	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	fs_temp0910_0099	Upgrade waste water plant in Brandfont	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	fs_temp0910_0101	Upgrade waste water plant in Soutpan	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	fs_temp0910_0103	Upgrade sewer treatment plant from 1Ml/day to 2.5Ml/day in Winburg	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Majababeng Local Municipality	fs_temp0910_0173	Bulk pumpstation Thabong	Water Internal Bulk	Water Pumpstation	Water Infrastructure New	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Majababeng Local Municipality	fs_temp0910_0255	Nykalong upgrade	Water Internal Bulk	Water Pipeline	Water Infrastructure Upgrade	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Majababeng Local Municipality	fs_temp0910_0259	Hennenman Civilworks & airtion (Phase 1 -Investigation)	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Majababeng Local Municipality	fs_temp0910_0260	Virginia sludge management	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Majababeng Local Municipality	fs_temp0910_0266	Purified sewerage disposal (R 2 147 M in 2005/06)	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	fs_temp0910_0275	Masilonyana Municipality - Sanitation Internal Bulk Refurbishments (group est)	Sanitation Bulk	Sanitation Water Borne	Sanitation O&M Management: Refurbishment	Feasibility	0	0	0	0	0	0	0	8317400	41587000
Lejweputswa District Municipality	Majababeng Local Municipality	fs_temp0910_0276	Majababeng Municipality - Sanitation Internal Bulk Refurbishments (group est)	Sanitation Bulk	Sanitation Water Borne	Sanitation O&M Management: Refurbishment	Feasibility	0	0	0	0	0	0	0	40876200	204381000
Lejweputswa District Municipality	Nala Local Municipality	fs_temp0910_0280	Nala Municipality - Sanitation Internal Bulk Refurbishments (group est)	Sanitation Bulk	Sanitation Water Borne	Sanitation O&M Management: Refurbishment	Feasibility	0	0	0	0	0	0	0	8418000	42909000
Lejweputswa District Municipality	Tokologo Local Municipality	fs_temp0910_0286	Tokologo Municipality - Sanitation Internal Bulk Refurbishments (group est)	Sanitation Bulk	Sanitation Water Borne	Sanitation O&M Management: Refurbishment	Feasibility	0	0	0	0	0	0	0	4234800	21174000
Lejweputswa District Municipality	Tswelopele Local Municipality	fs_temp0910_0287	Tswelopele Municipality - Sanitation Internal Bulk Refurbishments (group est)	Sanitation Bulk	Sanitation Water Borne	Sanitation O&M Management: Refurbishment	Feasibility	0	0	0	0	0	0	0	6704800	33524000
Lejweputswa District Municipality	Masilonyana Local Municipality	fs_temp0910_0296	Masilonyana 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	0	0
Lejweputswa District Municipality	Majababeng Local Municipality	fs_temp0910_0297	Majababeng 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	0	0
Lejweputswa District Municipality	Nala Local Municipality	fs_temp0910_0301	Nala 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	0	0
Lejweputswa District Municipality	Tokologo Local Municipality	fs_temp0910_0307	Tokologo 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	0	0
Lejweputswa District Municipality	Tswelopele Local Municipality	fs_temp0910_0308	Tswelopele 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	0	0
Lejweputswa District Municipality	Tokologo Local Municipality	fs_temp_015	Groundwater Development and Purchasing of Farm	Water Regional Bulk	Water Groundwater	Water Infrastructure New	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Tokologo Local Municipality	FS/Temfeas_02	Tokologo Regional Water Supply Feasibility Phase 2	Water Regional Bulk	Water Pipeline	Feasibility Only	Conceptual	0	0	0	0	0	0	0	0	14000000
Lejweputswa District Municipality	Masilonyana Local Municipality	FSR011	Masilonyana BWS	Water Regional Bulk	Water Pipeline	Water Resource Demand Management	Feasibility	0	0	600000	0	0	0	0	600000	0
Lejweputswa District Municipality	Tswelopele Local Municipality	FSR017	Tswelopele BWS	Water Regional Bulk	Water Pipeline	Water Resource Demand Management	Feasibility	0	0	200000	0	0	0	0	600000	0
Lejweputswa District Municipality	Majababeng Local Municipality	MIG/FS0034/S/05/06	Ondandaalsrus: Upgrading of wastewater treatment works (non-working plant)	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Awaiting Funding	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Majababeng Local Municipality	MIG/FS0036/S/04/06	Kullwanong: Rudimentary Sewerage for 450 stands	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Awaiting Funding	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Majababeng Local Municipality	MIG/FS0051/S/04/05	Ondandaalsrus: Upgrading of wastewater treatment works (sewerage works)	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Awaiting Funding	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Nala Local Municipality	MIG/FS0110/S/05/09	Monyeng WWT Ph1	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Awaiting Funding	0	0	0	0	0	0	0	0	2659999
Lejweputswa District Municipality	Tswelopele Local Municipality	MIG/FS0167/W/05/07	Bultfontein & Phahameng: Upgrading of the bulk water supply	Water Internal Bulk	Water Pipeline	Water Infrastructure New	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Tswelopele Local Municipality	MIG/FS0307/S/07/08	Hoopstad (Tikwana): Provision of waterborne sewer reticulation. Oxidation ponds STP	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure New	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	MIG/FS0329/S/06/08	Theunissen (Masilo): Eradication of 1267 buckets and 28.2km main outflow lines	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Feasibility	0	0	0	0	0	0	0	0	2506532
Lejweputswa District Municipality	Tokologo Local Municipality	MIG/FS0372/W/09/09	Dealesville/Tswaraganang: Installation of 2000 water meters (MIS:181028)	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Awaiting Funding	0	0	0	0	0	0	0	0	1357000
Lejweputswa District Municipality	Tokologo Local Municipality	MIG/FS0374/W/09/09	Boshof/Sariter: Installation of 3000 water meters (MIS:181042)	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Awaiting Funding	0	0	0	0	0	0	0	0	1975000
Lejweputswa District Municipality	Majababeng Local Municipality	MIG/FS0483/S/08/08	Mmamababane/Ventersburg: Upgrading of Waste Water Treatment Works, Feasibility Study & Concept	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Awaiting Funding	0	0	0	0	0	0	0	0	8320000
Lejweputswa District Municipality	Tokologo Local Municipality	MIG/FS0518/W/09/12	Hertzogville: Regional Bulk water supply - Phase 1 (MIS:183286)	Water Regional Bulk	Water Pipeline	Water Resource Demand Management	Awaiting Funding	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Tokologo Local Municipality	MIG/FS0563/S/07/07	Boshof/Serete: Eradication of 1446 buckets	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Awaiting Funding	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Majababeng Local Municipality	MIG/FS0566/S/07/07	Virginia (Main and Grysbok): Upgrading of the sewer pumpstation	Sanitation Bulk	Sanitation Water Borne	Sanitation Infrastructure Upgrade	Conceptual	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	MIG/FS0575/S/07/07	Winburg/Makelkella: Eradication of 1261 buckets	Internal Sanitation	Sanitation Water Borne	Sanitation Replacement Buckets	Feasibility	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	MIG/FS0655/W/08/09	Ikgomotseng/Soutpan: Provision of 1ml Storage Reservoir (MIS: 185256)	Water Internal Bulk	Water Reservoir	Water Resource Demand Management	Awaiting Funding	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	MIG/FS0656/W/08/09	Ikgomotseng/Soutpan: Upgrading of Bulk Water supply (MIS: 185237)	Water Internal Bulk	Water Pipeline	Water Resource Demand Management	Awaiting Funding	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Masilonyana Local Municipality	MIG/FS0657/W/08/09	Ikgomotseng/Soutpan: Water Treatment Plant (MIS: 185249)	Water Treatment Works	Water Treatment Works	Water Infrastructure Upgrade	Awaiting Funding	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Majababeng Local Municipality	MIG/FS0688/W/08/09	Bronville Ext 9: Internal water network for 362 erven (MIS:185996)	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Awaiting Funding	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Tokologo Local Municipality	MIG/FS0704/W/08/10	Retention/Upgrading of water network Hertzogville Phase 1)	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Awaiting Funding	0	0	0	0	0	0	0	0	96500
Lejweputswa District Municipality	Tokologo Local Municipality	MIG/FS0712/W/08/10	Retention/Rehabilitation of reservoirs Boshof	Water Internal Bulk	Water Reservoir	Water Infrastructure Upgrade	Awaiting Funding	0	0	0	0	0	0	0	0	18443
Lejweputswa District Municipality	Tokologo Local Municipality	MIG/FS0754/S/09/11	Dealesville/Tswaraganang: Installation of 300 VIPs (MIS:184342)	Internal Sanitation	Sanitation Basic	Sanitation Replacement Buckets	Awaiting Funding	0	0	0	0	0	0	0	0	2220000
Lejweputswa District Municipality	Masilonyana Local Municipality	MIG/FS0776/W/09/10	Makelkella: Upgrading of the water network and isolation valves and construction of new bulk water supply	Water Internal Bulk	Water Pipeline	Water Infrastructure Upgrade	Awaiting Funding	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Majababeng Local Municipality	MIG/FS0778/S/09/10	Theronia: Waste water treatment plant, sewer rising main 450 dia m, pumpstation (MIS: 191358)	Sanitation Bulk	Waste Water Treatment Works	Sanitation Infrastructure Upgrade	Awaiting Funding	0	0	0	0	0	0	0	0	0
Lejweputswa District Municipality	Majababeng Local Municipality	Temp. Actpl_0007	Kulwanong Station Area	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Awaiting Funding	0	0	0	0	0	0	0	0	1600000
Lejweputswa District Municipality	Majababeng Local Municipality	Temp. Actpl_0008	Phomolong: water connections and stand pipes (100)	Water Reticulation	Water Reticulation	Water Infrastructure Extension	Awaiting Funding	0	0	0	0	0	0	0	0	350000
Lejweputswa District Municipality	Majababeng Local Municipality	Temp. Actpl_0009	Hydrological investigation of the underground water problem in Kullwanong	Water Internal Bulk	Water Groundwater	Water Resource Local Source Development	Awaiting Funding	0	0	0	0	0	0	0	0	700000
Lejweputswa District Municipality	Majababeng Local Municipality															



FUTURE BULK INFRASTRUCTURE PROJECTS

- Project Category**
- Water Regional Bulk
 - Water Internal Bulk
 - Sanitation Bulk
 - Water Reticulation
 - Water Treatment Works
 - Future Resource Development Projects
 - Settlements

BASEMAP LEGEND:

- Provincial Boundaries
- District Municipal Boundaries
- Lejweleputswa DM
- Local Municipal Boundaries

