

WATER SERVICES DEVELOPMENT PLAN

2022 - 2026 5-year Cycle

REVISION 4: 2025/2026 MAY 2025



| DOCUMENT: | ZDM WSDP 2025/2026 | | | REVISION NO: | 02 (May 2025) |
|--------------|--------------------------------------|------------------|------------|--------------|-------------------|
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INDEX

| No | CHAPTER & SECTION | PAGE REF |
|----------|---|-----------------------------------|
| Α | EXECUTIVE SUMMARY | SECTION A |
| A1 | Introduction | Sec A: 1 of 48 |
| | Table A1.1: Drafting team | |
| | Table A1.2: WSDP Approval Process | |
| | Table A1.3: Organogram | |
| | Table A1.4: Service Levels | |
| A2 | IDP and WSDP Goals | Sec A: 6 of 48 |
| | Map A.5.1: Regional Water Supply Scheme Rollout | |
| | Map A.5.2: Intermediate Stand-Alone Water Supply Scheme Rollout | |
| | Map A.5.3: Rudimentary Water Supply Rollout | |
| | Map A.5.4: Rural Sanitation Rollout | |
| A 0 | Ctuatagia Objectives 9 Development Ctuatagias | 0 4 0 (40 |
| A3 | Strategic Objectives & Development Strategies | Sec A: 8 of 48 |
| A3 A4 | Background to the Area | Sec A: 8 of 48 Sec A: 13 of 48 |
| | | |
| | Background to the Area | |
| | Map A.4.1: Locality map | |
| | Map A.4.1: Locality map Map A.4.2: Terrain map | |
| A4 | Map A.4.1: Locality map Map A.4.2: Terrain map Map A.4.3: Precipitation map | Sec A: 13 of 48 |
| A4 | Map A.4.1: Locality map Map A.4.2: Terrain map Map A.4.3: Precipitation map Backlogs | Sec A: 13 of 48 |
| A4 | Map A.4.1: Locality map Map A.4.2: Terrain map Map A.4.3: Precipitation map Backlogs Table A.2 (a): Residential consumers: access to water | Sec A: 13 of 48 |
| A4 | Map A.4.1: Locality map Map A.4.2: Terrain map Map A.4.3: Precipitation map Backlogs Table A.2 (a): Residential consumers: access to water Table A.2 (b): Residential consumers: access to sanitation | Sec A: 13 of 48 |
| A4 | Map A.4.1: Locality map Map A.4.2: Terrain map Map A.4.3: Precipitation map Backlogs Table A.2 (a): Residential consumers: access to water Table A.2 (b): Residential consumers: access to sanitation Table A.2 (c): Percentage backlogs (water & sanitation) | Sec A: 13 of 48 Sec A: 22 of 48 |
| A4 | Map A.4.1: Locality map Map A.4.2: Terrain map Map A.4.3: Precipitation map Backlogs Table A.2 (a): Residential consumers: access to water Table A.2 (b): Residential consumers: access to sanitation Table A.2 (c): Percentage backlogs (water & sanitation) Summary of Content | Sec A: 13 of 48 Sec A: 22 of 48 |

2025-2026 Review Index Page 1 of 3

| | Table A.3 (d): Resource water balance | |
|------|--|------------------|
| | Table A.3 (e): Summary of schemes in the district | |
| | Table A.3 (f): Summary of MANZI infrastructure components | |
| | Table A.3 (g): Capital requirements: water | |
| | Table A.3 (h): Capital requirements: sanitation | |
| | Table A.3 (i): Sources of capital income: water | |
| | Table A.3 (j): Sources of capital income: sanitation | |
| | Table A.3 (k): Operational costs and income | |
| | | |
| 11 | LIST OF PROJECTS | SECTION 11 |
| 11.1 | Introduction | Sec 11: 1 of 68 |
| 11.2 | ZDM Prioritisation Models | Sec 11: 3 of 68 |
| 11.3 | Project Details | Sec 11: 12 of 68 |
| | 11.3.1 Regional Schemes | |
| | 11.3.2 Stand-alone Schemes | |
| | 11.3.3 Rudimentary Water Supply | |
| | 11.3.4 Sanitation Projects | |
| | 11.3.5 Emergency Intervention Programmes | |
| | 11.3.6 5-year Water and Sanitation Reliability Service Delivery Implementation | |
| 11.4 | Project Rollouts | Sec 11: 28 of 68 |
| | 11.4.1 Regional Schemes | |
| | 11.4.2 Stand-alone Schemes | |
| | 11.4.3 Rudimentary Water Supply | |
| | 11.4.4 Sanitation Projects | |
| | 11.4.5 Emergency Intervention Programmes | |
| · | | · |

2025-2026 Review Index Page 2 of 3

| | 11.4.6 5-year Water and Sanitation Reliability Service Delivery Implementation | |
|------|--|------------------|
| 11.5 | Project Rollout Maps | Sec 11: 28 of 68 |
| | 11.5.1 Regional Schemes | |
| | 11.5.2 Stand-alone Schemes | |
| | 11.5.3 Rudimentary Water Supply | |
| | 11.5.4 Sanitation Projects | |
| | 11.5.5 Emergency Intervention Programmes | |
| | 11.5.6 5-year Water and Sanitation Reliability Service Delivery Implementation | |

2025-2026 Review Index Page 3 of 3

A. EXECUTIVE SUMMARY

A.1 Introduction

ZDM as the Water Service Authority has a duty to all customers or potential customers in its area of jurisdiction to progressively ensure efficient, affordable, economical and sustainable access to Water Services [Water Services Act of 1997 Section 11]. ZDM therefore has a legislative responsibility to prepare a Water Services Development Plan (WSDP) for its area of jurisdiction [Water Service Act of 1997 Section 12]. Planning work related to various aspects of water services are being dealt with on a continuous basis through the year and the results of such work are then systematically fed into the WSDP.

Name of WSA

| Name | Zululand District Municipality | | |
|---------|-----------------------------------|---|--|
| Address | Private Bag X76 ULUNDI 3838 | Lot B400, Gagane Street ULUNDI 3838 | |

Status of WSDP

The planned completion dates for the revision of the WSDP are as follows:

- WSDP Steering Committee approval (Draft version) March 2024
- EXCO approval May 2024
- Expected Council approval June 2024
- Submission of final WSDP with amended comments & input August 2024

WSDP drafting team

The contact persons within the municipality who are responsible for the functioning, planning and implementation of the WSDP are shown in Table A1.1 below:

Table A1.1: Drafting team

| Name | Position | Tel Number | Email |
|---------------|----------------------|--------------|--------------------------|
| Mr RN Hlongwa | Municipal Manager | 035 874 5500 | nhlongwa@zululand.org.za |
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| Mr T M Jele | Chief O&M Specialist | 035 874 5500 | tmjele@zululand.org.za |
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| Mr W Richter | WSDP Consultant | 034 980 2227 | willem@zulmap.co.za |
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2025-2026 Review Section A: Page 1 of 57

Process followed

ZDM annually prepares a revised WSDP in time for the approval of the annual municipal budget. Planning work related to various aspects of water services are being dealt with on a continuous basis through the year and the results of such work are then systematically fed into the WSDP.

The WSDP Steering Committee has been established and meets at least twice a year. The steering committee comprises of the ZDM management team, councillors and consultants involved with the technical work. The aim is to have a first draft of each year's revision ready by end of February. The following approvals are done:

Table A1.2: WSDP Approval Process

| Item | Date |
|--|--------------|
| WSDP Steering Committee Meetings | Quarterly |
| Submission of draft WSDP document to WSA for comments | End February |
| WSDP & IDP Steering Committee Approval | End March |
| Representative Forum approval — This forum comprises all Government Departments involved with the IDP process, all Councillors and role players from the private sector. | End April |
| EXCO approval | May |
| Advertise for public comment | End May |
| Council approval | June |
| Submit to DWA for final approval | August |

Public comments

The WSDP will be advertised during May 2025 for public comment.

Adoption record

The 2024/2025 revision of the WSDP has been approved by the ZDM Council during June 2024.

WSDP Co-ordinators

The WSDP process is managed by the Deputy General Manager: Water Services Authority in association with the General Manager: Planning and the Deputy General Manager: PMU and their staff.

The WSA unit is situated in the Planning Department and reports to the General Manager: Planning.

2025-2026 Review Section A: Page 2 of 57

<u>PMU</u>

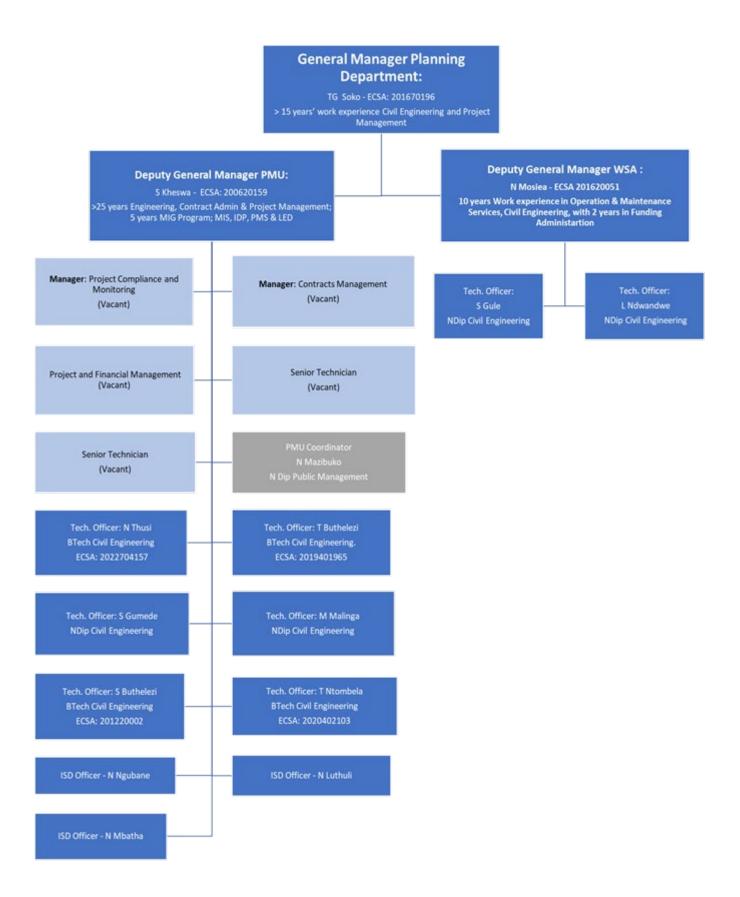
The ZDM PMU has been established and is functioning well. The PMU unit comprises of a Deputy General Manager, two project managers, project coordinator, two senior technicians, PMU Coordinator, six Technical Officers and three ISD Officers.

The PMU Manager reports to the General Manager: Planning and is responsible for the implementation of all projects scheduled by the WSA.

The organograms below indicate the split in functions related to water services.

2025-2026 Review Section A: Page 3 of 57

Table A1.3: Organogram



2025-2026 Review Section A: Page 4 of 57

Water services level policy

ZDM has compiled a Water Services Policy and this is available from the ZDM website at www.zululand.org.za. The following levels of service for water and sanitation are available from the municipality:

Table A1.4: Service Levels

| | Domestic Water Supply | | | | |
|---------|-----------------------|---|------------------|----------------|--|
| Service | Level of Service | Definition | Applicable | Norms and | |
| Level | | | Tariff Structure | Standards | |
| Number | | | | | |
| DW1 | Full pressure | Full pressure unrestricted | Stepped block | Design | |
| | conventional | individual erf/yard connection | tariff | specifications | |
| | house connection | | | | |
| DW2 | Yard tank | Restricted (to 200l per day) | No charge | Design | |
| | (RDP standard) | individual erf connection with | | specifications | |
| | | tank in yard | | | |
| DW3 | Communal street | Unrestricted full pressure | No charge | Design | |
| | taps | standpipe not further than 200m | | specifications | |
| | (RDP standards) | from dwellings (shared by a | | | |
| | | number of consumers) | | | |
| DW4 | Rudimentary | Formalised supply: | No charge | Design | |
| | | Borehole equipped with hand pump Protected spring Communal standpipe within 800m from dwellings | | specifications | |

2025-2026 Review Section A: Page 5 of 57

| | Domestic Sanitation | | | | |
|---------|---------------------|----------------------------|--------------------|-----------------------|--|
| Service | Level of Service | Definition | Applicable Tariff | Norms and Standards | |
| Level | | | Structure | | |
| Number | | | | | |
| DS1 | Water borne | Unrestricted connection to | Water consumption | Design specifications | |
| | | municipal sewerage system | based tariff | | |
| | | | structure included | | |
| | | | in water tariff | | |
| DS2 | Conservancy | Localised temporary | Rate per load | Design specifications | |
| | tank | sewage storage facility | disposed by | | |
| | | | municipality | | |
| DS3 | Septic tanks | On-site disposal (self | No charge | Design specifications | |
| | | treatment) | | | |
| DS4 | Ventilated | Dry pit with sufficient | No charge | Design specifications | |
| | improved pit | capacity on-site disposal | | | |
| | (VIP) | based on set standards | | | |

A.2 IDP and WSDP Goals

The Integrated Development Plan (IDP) for the ZDM has the following vision and mission statement for the region:

IDP vision and mission statement for the municipality

Vision

"We, the people of Zululand are proud communities that are committed to the development of Zululand through hard work, integrity and a common purpose."

Mission

- To develop an affluent district by:
 - Optimal delivery of essential services
 - Supporting sustainable local economic development
 - Community participation in service delivery

Part of the development objectives for Zululand is facilitating the delivery of basic services that include water services (i.e. water and sanitation provision), strengthening the local economy with particular emphasis on tourism, agriculture and small business sectors, and the sustainable use of land and the natural environment. The importance of the vision and objectives in terms of the WSDP is the development of Zululand through the

2025-2026 Review Section A: Page 6 of 57

provision of equitable and sustainable water services leading to an improvement in the quality of life. It therefore follows that planning in respect of water services must increase the current level of service throughout the region with an improvement experienced by all. Planning must therefore be sustainable in terms of water resources, material resources, contractor capacity, management capacity, as well as funding and maintenance cost.

The IDP has a number of key development strategies, namely:

- Delivery and coordination of basic services.
- Social issues of communities.
- Sustainability and environment.
- Economic development.
- Build capacity to lead and manage development in Zululand.

All these development strategies will ultimately link to the need and spatial requirement for water services provision. Spatial development within the ZDM is directly related to the provision and availability of water services, therefore development tends to follow sustainable planning in the WSDP and not force water services provision into areas that are currently not economically viable or sustainable to supply.

This support the water and sanitation infrastructure development focus of the KZN Provincial Growth and Development Strategy (PGDS) for 2035, which will be discussed in the next section.

2025-2026 Review Section A: Page 7 of 57

A.3 Strategic Objectives & Development Goals

The ZDM WSDP supports the KZN PGDS Strategic Framework. WSDP goals, objectives, interventions and projects are aligned to place ZDM in a position to fulfil its role as WSA in achieving the provincial PGDS for 2035.

While the focus has been predominantly on providing each person with sustainable infrastructure and eradicating backlogs, the status of existing and aging infrastructure, as well as the availability and sustainability of water resources has been neglected. An extract of the KZN PGDS can be reviewed below.

"The 2015/2016 drought experienced in the country and more so in the Province has had a severe impact on the citizens of the Province and their livelihoods. The most severe impact has been felt by the rural communities of KZN whose livelihoods depend on agriculture, including livestock. The Province, through various initiatives and programs, has attempted to ensure a reliable supply of water to its citizens. The continued low rainfall has made this task increasingly challenging. National and Provincial government have spent millions of rand to ensure citizens have access to water.

The discourse on reliable and affordable water supply has forced the water sector to re-look at several aspects of the water source management and water supply. In terms of water source it is being argued that the Province requires a better understanding of groundwater and its catchment areas. This strategy argues that water planning and resource management should be done at a quaternary catchment level - the focus should not only be at regional level. Alternative water sources, like grey water and desalination must become viable options as sources of supply.

There is also a school of thought that the severity of the drought is a direct correlation to the poor maintenance programs of water services authorities. These related to poor borehole upgrades and spring protection, high water losses due to leakages not been attended to urgently, water theft and lack of bulk and reticulation planning.

Skills development and capacity building, in the water sector continues to be an area of investigation in this review. There is a school of thought that argues that the skills required are more at an artisan level rather than at engineering level. This relates to the maintenance issue around boreholes and spring protection and attendance of water leaks. There is, however, another school of thought that water services authorities have focused more on water demand rather than water source management and that shift must be emphasised. Further, there is increasing pressure being put on the water sector institution to begin to develop a sustainable water sector capacity building model. The water services boards, the water services departments and the water services authorities all have various levels and type of expertise within their institutions. Therefore, these institutions along with engineering councils and the private sector must begin to provide a holistic sustainable capacity building model that contributes to a new water sector investment strategy. In addition, there is a growing demand for localized water skills at all levels as well as employment and business

2025-2026 Review Section A: Page 8 of 57

opportunities. The water sector through the vast capital spend have the potential to improve employment opportunities and create entrepreneurs in decentralized local spaces.

The financial cost of water supply cannot be underestimated and the Province needs to have a funding model to address this. Like energy, water costs will increase and become increasingly expensive for consumers and business, thus the importance of having a reliable and affordable water supply. The Department of Water and Sanitation in the Province have several key capital water projects that will ensure a relative supply of water in the province. The growing concerns will be the pace at which our province is urbanizing and the greater demand this will have on water provision in these urbanized areas as well as to ensure reliable access to water, in rural areas.

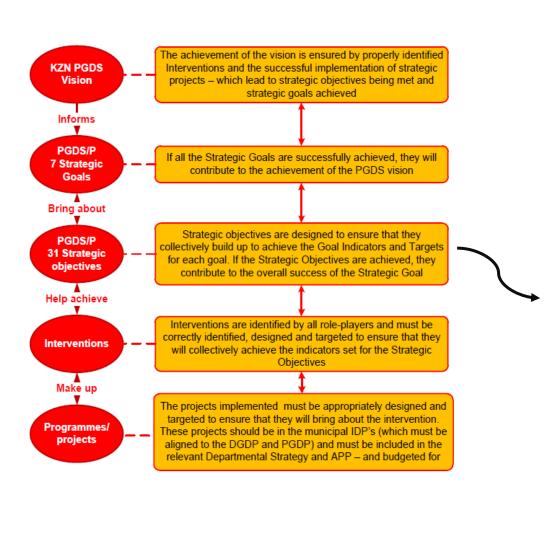
Given the above, the Province in the next five years must engage in the development of a new water sector investment strategy. This strategy must include **elements of water loss and maintenance, water availability, cost of water supply**. In addition, the strategy should include water source plans that consider ground water, desalination, grey-water. Further a discussion on localized skills and local business development. Greater emphasis on improving rural access to water and increasing mitigating measures to this section of our population."

As water provision will increase, so will water resources needs, operation and maintenance of existing infrastructure, efficient institutional and financial capacity to manage infrastructure and revenue etc. The KZN PGDS Framework aims to achieve at least 90% reliable services by 2035.

An overview of the KZN PGDS framework with associated goals and objectives for water and sanitation services can be reviewed in the next figure.

2025-2026 Review Section A: Page 9 of 57

Figure A.3.1: KZN PGDS Framework



The 2016 Revised PGDS Strategic Framework

Figure 10: PGDS Strategic Framework

| 2016 PGDS STRATEGIC GOALS and OBJECTIVES | | | |
|--|-------|--|--|
| 2016 PGDS STRATEGIC GOALS and OBJECTIVES | | | |
| STRATEGIC GOAL | No | STRATEGIC OBJECTIVE 2016 | |
| 1 | 1.1 | Develop and promote the agricultural potential of KZN | |
| INCLUSIVE | 1.2 | Enhance sectoral development through trade investment and business retention | |
| ECONOMIC GROWT | H 1.3 | Enhance spatial economic development | |
| | 1.4 | Improve the efficiency, innovation and variety of government-led job creation | |
| | 115 | programmes Promote SMME and entrepreneurial development | |
| | | Enhance the Knowledge Economy | |
| 2 | 2.1 | Improve early childhood development, primary and secondary education | |
| HUMAN RESOURCE | | Support skills development to economic growth | |
| DEVELOPMENT | | Enhance youth and adult skills development and life-long learning | |
| | | Eradicate poverty and improve social welfare services Enhance health of communities and citizens | |
| 3 | | Ennance nearth of communities and citizens Safeguard and enhance sustainable livelihoods and food security | |
| HUMAN AND | | Promote sustainable human settlements | |
| COMMUNITY | | Enhance safety and security | |
| DEVELOPMENT | 3.6 | Advance social cohesion and social capital | |
| | 3.7 | Promote youth, gender and disability advocacy and the advancement of | |
| | 41 | women Development of seaports and airports | |
| | 11 : | Develop road and rail networks | |
| 4 INFRASTRUCTURE | H | Develop ICT infrastructure | |
| DEVELOPMENT | _ | Ensure availability and sustainable management of water and sanitation for all | |
| | 4.5 | Ensure access to affordable, reliable, sustainable and modern energy for all | |
| | 4.6 | Enhance KZN waste management capacity | |
| 5 | | Enhance resilience of ecosystem services | |
| ENVIRONMENTAL | 5.2 | Expand the application of green technologies | |
| SUSTAINABILITY | 5.3 | Adapt and respond climate change | |
| | 6.1 | Strengthen policy, strategy coordination and IGR | |
| 6 | 6.2 | Build government capacity | |
| GOVERNANCE AND POLICY | 6.3 | Eradicate fraud and corruption | |
| POLICI | 6.4 | Promote participative, facilitative and accountable governance | |
| | 7.1 | Enhance the resilience of new and existing cities, towns and rural nodes, | |
| 7 | 7.1 | ensuring equitable access to resources, social and economic opportunities | |
| SPATIAL EQUITY | | Ensure integrated land management use across the Province, ensuring | |
| , , , , | 7.2 | equitable access to goods and services, attracting social and financial investment | |
| | | investment | |

2025-2026 Review Section A: Page 10 of 57

Strategic Objectives and Interventions for the KZN PGDS can be reviewed below.

Figure A.3.2: KZN PGDS Strategic Objectives and Interventions

4.4.1 Percentage mean annual runoff water stored in each district. 4.4.2 Quantity of water abstracted per annum in each district. 4.4.3 Number of households receiving minimum standards of sanitation. 4.4.4 Percentage households with access to safe drinking water 4.4.5 Cubic meters of water available.

- 4.4.6 Surface Water storage as a percentage of surface mean annual runoff per district.
- 4.4.7 Non-Revenue Water loss (physical and non-physical water loss).
- 4.4.8 Number of projects not approved due to bulk Water and Sanitation Infrastructure constraint.
- 4.4.9 Number of MIG and WSIG projects meeting 75 litres of water per person per day.

Strategic Objective 4.4 Interventions:

- 4.4(a) Review and implement the Provincial Water Sector Investment Strategy.
- 4.4(b) Policy and guidelines on the inclusion of quaternary catchment for groundwater, grey water and desalination.
- 4.4(c) Develop and implement water sector capacity building programme with all water institutions.
- 4.4(d) Develop new water and sanitation tariff policy.
- 4.4(e) Expedite the approval of Water Use Licences.
- 4.4(f) Programme for development of water sources (desalination, rainwater, recycling, groundwater).
- 4.4(g) Expedite the planning and implementation of sub-transmission networks in the Province.

The ZDM WSDP supports the above framework, and will elaborate on each aspect in more details throughout the document under each relevant chapter. The following provides a framework for these topics under 11 categories as depicted in the KZN PGDS document.

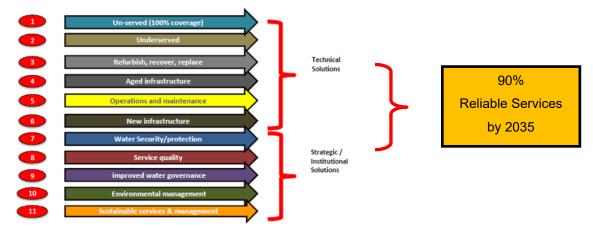


Figure A.3.3: KZN PGDS Strategic Framework

2025-2026 Review Section A: Page 11 of 57

These 11 categories are consolidated in the WSDP under the following chapters as required by the webbased WSDP template of DWS:

- CHAPTER 1: Socio-Economic Profile
- CHAPTER 2: Service Level Profiles
- CHAPTER 3: Water Resources Profile
- CHAPTER 4: Operation and Maintenance
- CHAPTER 5: Water Conservation & Demand Management
- CHAPTER 6: Water & Sanitation Services Profile
- CHAPTER 7: Water Balance
- CHAPTER 8: Institutional Profile
- CHAPTER 9: Customer Service
- CHAPTER 10: Financial Profile
- CHAPTER 11: Project Rollouts
- CHAPTER 12: Strategic Goals

Items related to the Strategic Objectives and Development Framework will be discussed throughout this WSDP and reference will be made to the 2035 targets.

2025-2026 Review Section A: Page 12 of 57

A.4 Background to the area

The ZDM is situated in northern KwaZulu-Natal (KZN). It covers an area of 14,808 km² and is divided into five local municipalities (LMs), namely eDumbe (KZ261), uPhongolo (KZ262), Abaqulusi (KZ263), Nongoma (KZ265), and Ulundi (KZ266) (Figure A4.1, pg. 19). There is only one change in the local municipal boundaries from 2011 to 2016. This area is located west of Louwsburg, where a portion of uPhongolo LM has been incorporated into AbaQulusi LM. This change can be reviewed under Figure A 4.1, pg. 19.

The district is predominantly rural with commercial farmland interspersed by protected areas, towns, and dense to scattered rural settlements within traditional authority areas. The majority of these rural settlements are small, making service delivery to these remote areas extremely costly. Settlements are located as follows:

Table A 4.1: Settlement location

| Settlement Location | Nr of Settlements |
|---------------------|----------------------|
| Urban Towns | 35 |
| Communal Property | 26 |
| Land Reform Areas | 207 |
| State-owned | 44 |
| Tribal Areas | 880 |
| Private Land | 92 |
| TOTAL | 1 284 |

Settlements have been periodically verified and updated since 2006. Numerous new land reform areas were included as settlements during the 2016 update. Household clusters on private farms have also been identified, and will be addressed based on ZDM's policy regarding rural residents on privately owned farm lands. The latest update was done during 2022. A total of 180 new settlements were added to the settlement database. The major changes and updates can be seen in AbaQulusi and eDumbe LM's, with minor updates and additions in the uPhongolo LM. New settlement areas are included in the WSDP for water and sanitation services.

A comparison table showing the new revised settlement types can be reviewed in Table A4.2 below.

New imagery has been obtained from Google Earth and a new household count for 2023 has been done.

The settlements were also revised and aligned with these new household points and counts.

The Census 2022 municipal statistics have also been released during October 2023. A comparison between ZDM household count and the Census 2022 can be reviewed further on in this report.

2025-2026 Review Section A: Page 13 of 57

Table A 4.2: Settlement Types

| Class | Settlement Type | Nr of Settlements | Total households |
|-------|------------------------------------|----------------------|---------------------|
| | Urban - Formal Town | 4 | 6 986 |
| | Urban - Former Township | 6 | 19 654 |
| URBAN | Urban - Ex Homeland Town | 13 | 12 388 |
| ONDAN | Urban - Working Town | 6 | 2 011 |
| | Urban - Service Centre | 3 | 442 |
| | Urban - Squatter Camp | 1 | 145 |
| | Rural - Service Centre | 4 | 757 |
| | Urban Fringe - Informal Settlement | 23 | 11 465 |
| | Peri-Urban - Squatter Camp | 1 | 343 |
| | Rural - Formal Dense >5000 | 2 | 3 885 |
| RURAL | | 36 | |
| | Rural - Formal Dense <5000 | | 16 378 |
| | Rural - Scattered Dense | 4 | 3 038 |
| | Rural - Scattered Medium Density | 8 | 691 |
| | Rural - Scattered Low Density | 64 | 14 637 |
| | Rural - Scattered Very Low Density | 1 109 | 144 951 |
| | Rural -Scattered households | N/A | 3 629 |
| | TOTAL | 1 284 | 241 400 |

The following provides details of the areas within ZDM defined under urban:

| LM | CLASSIFICATION | Z-NR | AREA |
|-----------|--------------------------|-----------|-------------------------------|
| | Urban - Formal Town | Town9 | Louwsburg |
| | Orban - Formar Town | Town27a | Vryheid Town |
| | | Town27b | Bhekuzulu |
| | Urban - Former Township | Town16a | Emondlo town |
| | | Town27c | Lakeside |
| | | ZNew180 | Kandaspunt |
| | Urban - Service Centre | Z846 | Mountain view |
| AbaQulusi | | ZPM12 | Rietvlei |
| | Urban - Squatter Camp | ZMAP122 | Vryheid Dump Site |
| | | ZHC5 | Boomlaer |
| | | Z932 | Coronation |
| | Urban Working Town | Z934 | Enyathi |
| | Urban - Working Town | Z938 | Hlobane |
| | | ZHC4 | Thutukani |
| | | ZHC8 | Vaalbank |
| | Urban - Ex Homeland Town | Z937 | Frischgewaagd |
| eDumbe | Urban - Formal Town | Town8a | Paulpietersburg Town |
| ebumbe | Urban - Former Township | Town8b | Edumbe Township |
| | Urban - Service Centre | Z928 | Luneburg |
| Nongomo | Urban - Ex Homeland Town | Town22 | Nongoma Town |
| Nongoma | Orban - Ex Homeland Town | ZMAP26 | White City |
| | | Z741 | Kwazondela |
| | | Z931 | Mahlabathini |
| | | Town18-A | Ulundi Unit A |
| | | Town18-B | Ulundi Unit B |
| Ulundi | Urban - Ex Homeland Town | Town18 | Ulundi Unit B1 |
| Oluliui | | Town18-BA | Ulundi Unit BA |
| | | Town18-C | Ulundi Unit C |
| | | Town18-D | Ulundi Unit D |
| | | Town18-L | Ulundi Unit L |
| | Urban - Service Centre | Z940 | Babanango |
| | Urban - Ex Homeland Town | Z459 | Belgrade |
| | Urban - Formal Town | Town15a | Pongola Town |
| uDhanasia | Urban - Former Township | Town15b | Ncotshane Township |
| uPhongolo | | ZMAP124 | Golela Border Post |
| | Urban - Service Centre | Z936 | Magudu |
| | | Town15c | Pongola Town (Sugar Refinery) |

2025-2026 Review Section A: Page 14 of 57

Land use in the ZDM is linked primarily to tenure and the land with the highest agricultural potential is in private ownership and is mostly used for commercial farming or conservation, with low settlement densities. Private farmlands constitute a large portion of the ZDM's land area. The land use potential varies throughout the district, but are predominantly varieties of grassveld and thornveld. Agricultural activities are mainly forestry (eDumbe, Abaqulusi and around Babanango), sugar cane (uPhongolo), livestock (throughout the district), maize, soya beans, wheat, groundnuts, sorghum, vegetables and sub-tropical fruit. These commercial farms mostly have well developed infrastructure and farming systems. The difficulties they experience relate more to broader economic factors than spatial factors and linkages in the ZDM. In recent years, a number of cattle farms throughout the ZDM have been converted into game farms. These may be linked to tourism and conservation in the district.

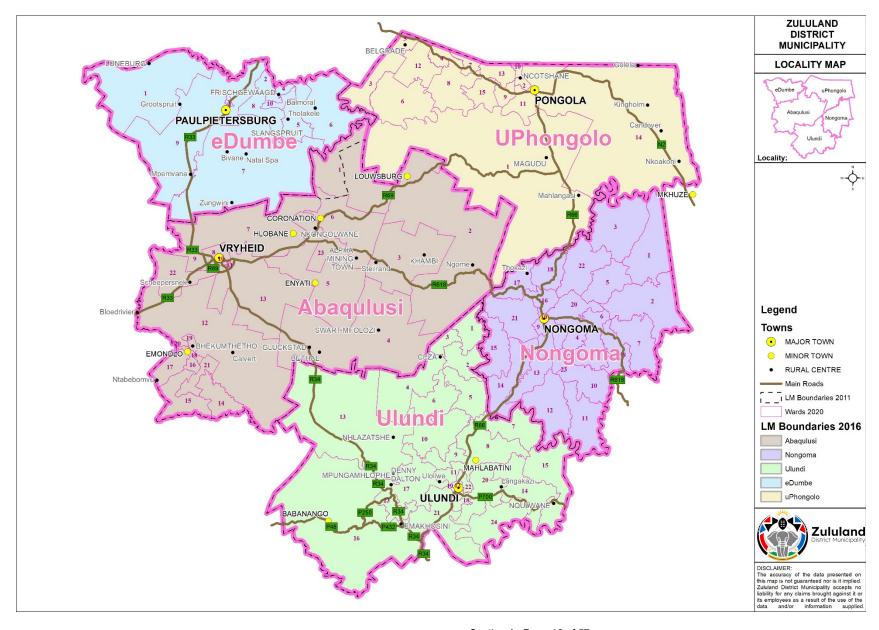
In contrast, the non-arable land and land with severe limitations to agriculture, fall into the traditional authority areas and are densely settled. These Ingonyama Trust areas support settlement and subsistence agriculture (there is moderate to restricted agricultural potential), with the Traditional Authorities (TAs) for each LM being divided as follows:

- eDumbe LM: Dlamini TA and Mtetwa TA.
- uPhongolo LM: Masidla TA, Msibi TA, Ntshangase TA and Simelane TA.
- Abaqulusi LM: Hlahlindhlela TA and Kambi TA.
- Nongoma LM: Mandhlakazi TA, Matheni TA and Usuthu TA.
- Ulundi LM: Empetempithini TA, Mbata TA, Mpungose TA, Ndebele TA, Nobamba TA, Ximba TA and Zungu TA.

A map showing land distribution can be reviewed under Figure A4.3. Tribal Authority areas, Land Reform Areas, privately owned farms and urban areas can be seen.

2025-2026 Review Section A: Page 15 of 57

Figure A 4.1: Locality map of Zululand District Municipality.



2025-2026 Review Section A: Page 16 of 57

Figure A 4.2: Demographics of Zululand District Municipality.

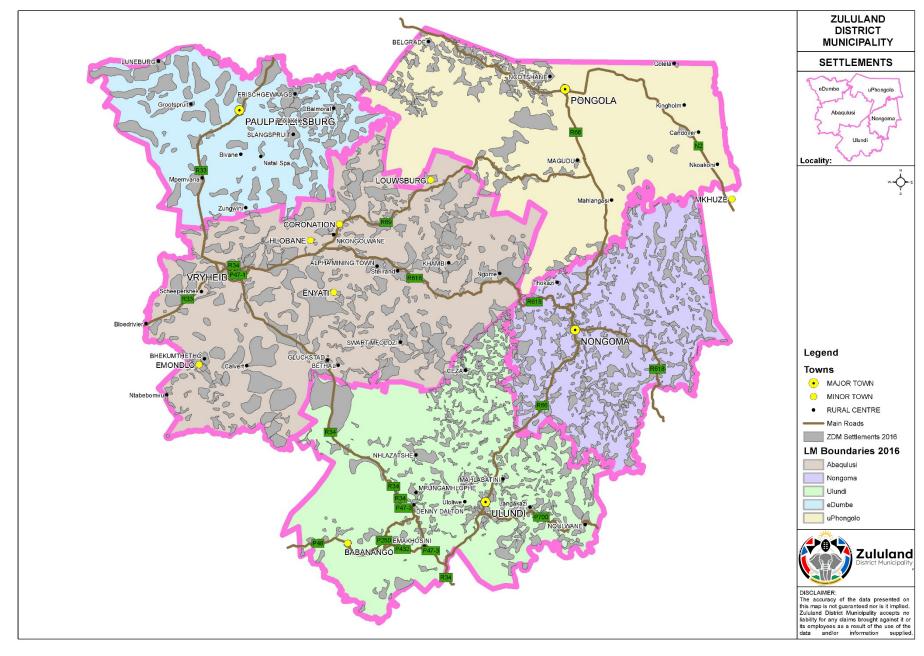
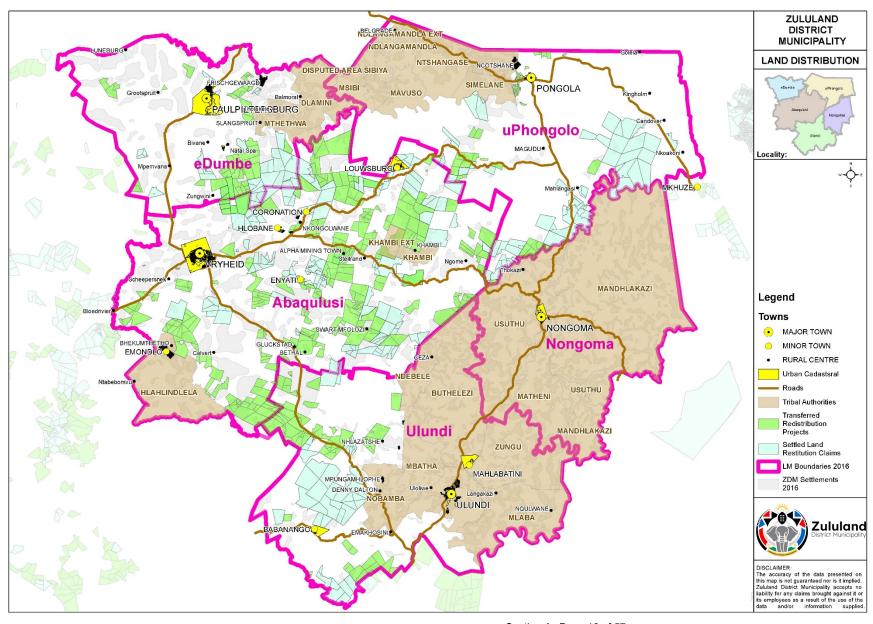


Figure A 4.3: Land distribution in Zululand District Municipality.



The area forms part of the Pongola, Mkuze and Mfolozi River Catchments of the Usuthu/Mhlathuze Water Management Area that extends from the high lying areas in the north and west to the Indian Ocean in the east. The northern and western edges of the ZDM are characterised by steep terrain. The Skurweberg and Elandsberg Mountains on the Western side of the ZDM are approximately 1,700 m above sea level. In the northeast there are the Lebombo Mountains. In general the topography slopes and gets less steep from west to east, as well as from north to south, consequently all the main rivers flow in this direction. There are some large relatively flat areas between 200 m and 300 m around the town of Pongola, as well as on the lower reaches of the Mfolozi River (Figure A4.4).

Climatic conditions vary significantly from the northern highlands to the eastern low-lying areas around the town of Pongola. Rainfall is strongly seasonal with more than 80% occurring as thunderstorms between October and March, with the peak months being December to February in the inland areas. Rainfall varies from over 1,000 mm in the north and west, dropping to below 600 mm in the central area around Pongola. The resultant Mean Annual Runoff (MAR) ranges from above 200 mm in the north and west, to below 100 mm in the central areas. Overall the Mean Annual Precipitation (MAP) is 840 mm, and the corresponding MAR 102 mm (12 % of MAP) (Figure A4.5). Annual variability of rainfall is indicated by the historic coefficient of variation of the rainfall record, which ranges from (20 % to 25 %) in the west to greater than 35 % in the Pongola area. In accordance with the rainfall pattern the relative humidity is higher in summer than in winter. Potential mean annual gross evaporation ranges from 1400mm in the west to 1600 mm in the lowveld. The highest mean monthly evaporation is in December and the lowest mean monthly evaporation in June. One strategic dam, namely Pongolapoort/Jozini, has been developed. There is a vast amount of water in the area with both surface resources, as well as good ground water potential.

| Topography type | Percentage of total municipal area |
|-----------------|------------------------------------|
| Mountainous | 30% |
| Rolling | 70% |
| Flat | 0% |
| Coastal | 0% |

2025-2026 Review Section A: Page 19 of 57

ZULULAND DISTRICT MUNICIPALITY **DEM Map UPhongolo** eDumbe Locality: MKHUZE Abaqulusi Nongoma EMOND Legend Towns MAJOR TOWN MINOR TOWN ZDM Roads Regional Schemes LM Boundaries Ulundi Elevation (m) High: 1933.12 Low: 107.025 Zululand

Zululand DISCLAIMER:
The accuracy of the data presented on this map is not guaranteed nor is timple.
Zululand District Municipality accepts no liability for any claims brought against it or its employees as a result of the use of the data and/or information supplied.

Figure A 4.4: Terrain map of Zululand District Municipality.

ZULULAND DISTRICT MUNICIPALITY **Precipitation Map UPhongolo** eDumbe Locality: MKHUZE /RYHEID **Abaqulusi** NONGOMA Nongoma Nongoma **EMOND** Legend Towns MAJOR TOWN MINOR TOWN **ZDM Roads** Main Roads Regional Schemes LM Boundaries Ulundi Mean Annual Precipitation High: 1682 Low: 493 Zululand DISCLAIMER:
The accuracy of the data presented on this map is not guaranteed nor is it implied. Zululand District Municipatily accepts no liability for any claims brought against it or its employees as a result of the use of the data and/or information supplied.

Figure A 4.5: Precipitation map of Zululand District Municipality.

A.5 Backlogs

Tables A.5.1 and A.5.2 below indicate the status in ZDM with regards to water services backlogs in the district. Backlogs, progress and funding allocations are to be finalised during the final review of the WSDP in May.

Table A.5.1: Access to water (households)

| | | | Communal | Yard/House | House | |
|--------------------|------------|--|------------|-------------|-------------|---------|
| | NOT SERVED | Rudimentary | standpipes | connections | Connections | TOTALS |
| Water | | <rdp< th=""><th></th><th>RDP</th><th></th><th></th></rdp<> | | RDP | | |
| AbaQulusi LM | 0 | 145 | 0 | 578 | 19 011 | 19 734 |
| eDumbe LM | 0 | 0 | 0 | | 7 282 | 7 282 |
| Nongoma LM | 0 | 0 | 0 | | 1049 | 1 049 |
| Ulundi LM | 0 | 0 | 0 | 522 | 5 672 | 6 194 |
| uPhongolo LM | 0 | 0 | 0 | 1 457 | 5 910 | 7 367 |
| Total (urban) | 0 | 145 | 0 | 2 557 | 38 924 | 41 626 |
| AbaQulusi LM | 6 928 | 10 047 | 13136 | 10 837 | 2 647 | 43 595 |
| eDumbe LM | 3 146 | 1754 | 2301 | 9 134 | | 16 335 |
| Nongoma LM | 6 542 | 13 905 | 14 564 | 21 980 | | 56 991 |
| Ulundi LM | 2 937 | 3 151 | 19 877 | 24 885 | 578 | 51 428 |
| uPhongolo LM | 3 468 | 1734 | 3515 | 22 535 | 173 | 31 425 |
| Total (rural) | 23 021 | 30 591 | 53 393 | 89 371 | 3 398 | 199 774 |
| Total (households) | 23 021 | 30 736 | 53 393 | 91 928 | 42 322 | 241 400 |

The following figure depicts the estimated time it will take to eradicate all water backlogs below RDP standard if current MIG funding allocations remains constant. RBIG and WSIG funding allocations fluctuate based on approved funding applications, and future projections have been based on the current financial year's allocations.

Most of the regional scheme business plans and technical reports have been updated to allow for price escalations, amendments and upgrades. At a total remaining cost of R10.2b with only an annual funding allocation of approximately R649m, ZDM will only be able to complete all remaining water infrastructure by 2037. The 2035 target will therefore not be met. ZDM will require at least **R700m** annual funding allocation for water alone to reach the 2035 provincial goals.

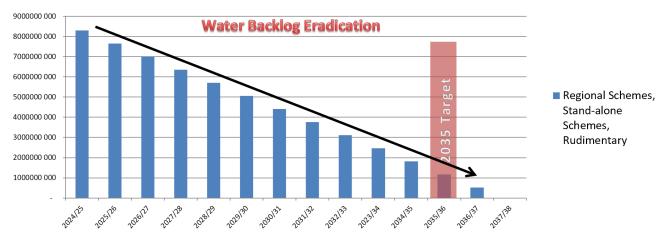


Figure A 5.1: Water Backlog eradication at current funding allocation of R649m/annum

2025-2026 Review Section A: Page 22 of 57

Table A.5.2: Access to sanitation

| | NOT SERVED | VIP | Septic tank | Waterborne | TOTALS |
|--------------------|------------|---------|-------------|------------|---------|
| | | | | | |
| | | RDP | >RDP | | |
| AbaQulusi LM | 145 | 0 | 1071 | 18 518 | 19 734 |
| eDumbe LM | 0 | 6632 | 650 | 0 | 7 282 |
| Nongoma LM | 0 | 0 | 0 | 1049 | 1 049 |
| Ulundi LM | 0 | 856 | 110 | 5 228 | 6 194 |
| uPhongolo LM | 0 | 1457 | 0 | 5 910 | 7 367 |
| | | | | | |
| Total (urban) | 145 | 8 945 | 1 831 | 30 705 | 41 626 |
| AbaQulusi LM | 11 423 | 32 139 | 0 | 33 | 43 595 |
| eDumbe LM | 1 922 | 14 347 | 0 | 66 | 16 335 |
| Nongoma LM | 7 940 | 49 051 | 0 | 0 | 56 991 |
| Ulundi LM | 1 533 | 49 317 | 0 | 578 | 51 428 |
| uPhongolo LM | 5 811 | 25 441 | 0 | 173 | 31 425 |
| Total (rural) | 28 629 | 170 295 | 0 | 850 | 199 774 |
| | | | | | |
| Total (households) | 28 774 | 179 240 | 1 831 | 31 555 | 241 400 |

The following figure depicts the estimated time it will take to eradicate all sanitation backlogs below RDP standard if current MIG funding allocations remains constant.

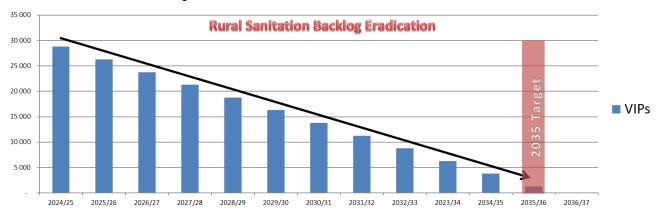


Figure A 5.2: Sanitation Backlog eradication at current funding allocation of R50m/annum

With the 2035 goals in mind, the backlogs in rural sanitation should be eradicated by 2035. However, settlements are continuously expanding, and household growth will maintain an increase in the future.

2025-2026 Review Section A: Page 23 of 57

Table A.5.3: Percentage backlogs (water & sanitation)

| | TOTAL | | | % OF TOTAL |
|--------------|------------|----------|------------|------------|
| WATER | HOUSEHOLDS | BACKLOGS | % BACKLOGS | BACKLOGS |
| AbaQulusi LM | 63 329 | 17 120 | 27.03% | 31.85% |
| eDumbe LM | 23 617 | 4 900 | 20.75% | 9.12% |
| Nongoma LM | 58 040 | 20 447 | 35.23% | 38.04% |
| Ulundi LM | 57 622 | 6 088 | 10.57% | 11.33% |
| uPhongolo LM | 38 792 | 5 202 | 13.41% | 9.68% |
| Total | 241 400 | 53 757 | 22.27% | 100.00% |
| | | | | |
| | TOTAL | | % BACKLOGS | % OF TOTAL |
| SANITATION | HOUSEHOLDS | BACKLOGS | in LM | BACKLOGS |
| AbaQulusi LM | 63 329 | 11 568 | 18.27% | 40.20% |
| eDumbe LM | 23 617 | 1 922 | 8.14% | 6.68% |
| Nongoma LM | 58 040 | 7 940 | 13.68% | 27.59% |
| Ulundi LM | 57 622 | 1 533 | 2.66% | 5.33% |
| uPhongolo LM | 38 792 | 5 811 | 14.98% | 20.20% |
| Total | 241 400 | 28 774 | 11.92% | 100.00% |

Table A.5.4: Existing backlogs against funding allocations

| YEAR | BACKLOGS (Households) ALLOCATION | | ATIONS | Household | |
|------------|---|------------|-------------|------------|--------------------|
| | Water | Sanitation | Water | Sanitation | count |
| 2019-2020 | 42 711 | 30 586 | 383 328 220 | 51 310 825 | |
| 2020-2021 | 39 145 | 28 586 | 394 165 250 | 59 721 750 | 2016 |
| 2020-2021 | 37 497 | 26 848 | 596 157 000 | 61 127 500 | Households |
| 2022/2023 | 36 196 | 22 538 | 549 102 401 | 36 334 200 | |
| 2023/2024 | 34 930 | 20 733 | 741 007 860 | 62 495 140 | |
| 2024/2025` | 54 561 | 28 774 | 550 315 000 | • | |
| 2025/2026 | 53 757 | 28 774 | 633 375 207 | 15 843 793 | 2023 Households |

| YEAR | BACKLOGS RE | BACKLOGS REMAINING (%) | | | | |
|-----------|-------------|------------------------|-----------------|--|--|--|
| | Water | Sanitation | Household count | | | |
| 2019-2020 | 23.26 | 16.66 | | | | |
| 2020-2021 | 21.32 | 15.57 | | | | |
| 2021/2022 | 20.42 | 14.62 | 2016 Households | | | |
| 2022/2023 | 19.70 | 12.30 | | | | |
| 2023/2024 | 19.02 | 11.29 | | | | |
| 2024/2025 | 22.60 | 11.92 | | | | |
| 2025/2026 | 22.27% | 11.92% | 2023 Households | | | |

PLEASE NOTE THAT BACKLOGS ARE ESTIMATES BASED ON PROJECTED COMPLETION DATES OF PROJECTS AT THE END OF JUNE, AND MAY VARY ON FINAL FINANCIAL YEAR END.

ACTUAL FIGURES WILL BE UPDATED AFTER FINANCIAL YEAR END.

2025-2026 Review Section A: Page 24 of 57

A.6 Summary of content

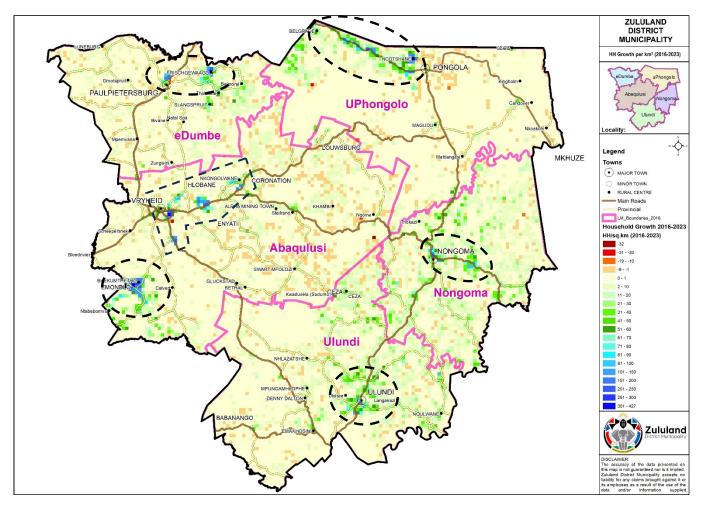
The key information contained in the WSDP is listed below for ease of reference. More detail can be obtained by referring to the respective chapters in the document:

Chapter 1: Socio Economic Profile

The current consumer profile of the district reflect an updated household count which was done by ZDM from Google Earth aerial photography date 2023. A total of **241 400 households** were updated. The previous count was done in 2016, and showed a total household count of 183 642.

From a spatial perspective, the following map indicates the number of households per square kilometer for 2023 compared with the number of households from 2016. The light orange areas show a decline in dwellings, whereas blue indicates a strong increase in households.

Figure A.6.1: Dwelling Growth Pattern per Square Kilometre (2016-2023)



2025-2026 Review Section A: Page 25 of 57

Growth trends per local municipality can be summarised as follows:

AbaQulusi

High growth in the surrounding eMondlo town areas, Tinta's Drift, KwaShoba and Nkongolwane. A decrease in rural households is evident in the farming areas.

eDumbe

Strong positive growth in eDumbe, Frischgewaagd & Bilanyoni, with minor decrease in rural farming households.

uPhongolo

High growth in Ncotshane as well as settlements all along the N2 going west towards Belgrade. Steady growth can be observed in all the traditional authority areas.

Nongoma

Positive growth along the Nongoma/Hlabisa road, with an overall minor growth in most of the rural traditional authority areas.

Ulundi

Strong growth surrounding Ulundi town areas, with an overall minor growth in most of the rural areas between Ulundi and Nongoma. A slight negative growth is evident in the farming areas surrounding Babanango.

Due to the spatial analysis requirements for water and sanitation provision at household level, ZDM uses its own household data set which contains actual household positions as opposed to numerical values provided by STATSSA per enumeration area. Households are defined by and projects are implemented per local settlement areas as defined by the ward councillors, and these settlements areas don't always coincide with the enumeration area boundaries of STATSSA. It is therefore impossible to correlate the enumeration areas with settlement areas and derive household statistics between the two data sets.

STATSSA has released the 2022 Census statistics per local municipality. A comparison table between the 2011 Census data and the latest 2022 Census data can be seen in Table A.6.1. There is much debate as to how accurate the Census 2022 figures are. In a post-release STATSSA noted a 31% undercount, which was adjusted. However, when the household counts of 2022 are compared with the household counts of 2011, a total growth of only 7 419 households over 11 years for the entire DM is unrealistic. This is also observed with numerous other district municipalities. A comparison table between the 2011 Census data and the latest 2022 Census data can be seen in table A.6.3.

The Census 2022 statistics will also not be released per EA, and is currently only available on a Local Municipal level. This makes it impossible to correlate discrepancies between the Census 2022 household count, and that of the HGDM household count done from aerial photography.

2025-2026 Review Section A: Page 26 of 57

Since the basis of the WSDP demographics and project implementation relies on settlement areas and each settlement's household count, the ZDM 2023 household count is therefore used to perform spatial analysis on demographics and project planning. However, the Census 2022 does provide population per household, which is therefore used to derive population figures by multiplying it with the ZDM 2023 household count.

Table A.6.1: STATSSA Census data (2011 - 2022)

| | HOUSEHOLDS | | POPUL | ATION | Ave Households Size | | |
|--------------------|------------|---------|---------|---------|---------------------|------|--|
| Local Municipality | 2011 | 2022 | 2011 | 2022 | 2011 | 2022 | |
| AbaQulusi | 43 299 | 51 472 | 224 998 | 241 196 | 4.90 | 4.70 | |
| eDumbe | 16 138 | 17 415 | 85 022 | 89 614 | 5.10 | 5.10 | |
| Nongoma | 34 341 | 36 409 | 200 948 | 211 892 | 5.70 | 5.80 | |
| Ulundi | 35 198 | 38 553 | 264 765 | 205 762 | 5.40 | 5.30 | |
| uPongolo | 28 772 | 34 667 | 153 727 | 143 845 | 4.40 | 4.10 | |
| Total | 157 748 | 178 516 | 929 461 | 892 310 | 5.10 | 5.00 | |

For population analysis, the 2022 Census figures will be applied to the 2023 ZDM household count as per local municipality. A comparison table can be reviewed under Table A.6.3. below, showing current and historical household growth and population figures per local municipality.

Table A.6.2: ZDM and STATSSA Census comparison

| | Actual Household Statistics (Captured from aerial photography over 4 consequtive periods) vs CENSUS Data | | | | | | | | | | |
|-----------------------|--|---------------------|---------------|---------------------|------------------------------|------------------|---------------|------------------------------------|---|---------------------------------|--------------------------------------|
| Local Municipality | 2006 (ZDM Count) | 2009 (ZDM Count) | 2011 (CENSUS) | 2016 (ZDM Count) | 2016 (CENSUS COMM SURVEY) | 2023 (ZDM Count) | 2022 (CENSUS) | Annual household growth rate | Average Population per household (CENSUS 2022) | Total Population (ZDM Count) | Total Population (Census 2022) |
| AbaQulusi | 36 069 | 40 302 | 43 784 | 47 119 | 51 472 | 63 575 | 50 633 | 0.9% | 4.9 | 311 518 | 247 263 |
| eDumbe | 15 011 | 16 880 | 16 138 | 17 641 | 17 415 | 23 592 | 17 922 | 1.9% | 5.4 | 127 397 | 96 735 |
| Nongoma | 34 056 | 38 171 | 34 341 | 44 376 | 36 409 | 58 030 | 32 266 | -0.9% | 7.0 | 406 210 | 225 278 |
| Ulundi | 35 309 | 37 365 | 35 198 | 44 987 | 38 553 | 57 350 | 36 178 | -1.1% | 6.1 | 349 835 | 221 977 |
| uPongolo | 22 098 | 25 136 | 28 287 | 29 519 | 34 667 | 38 853 | 28 168 | 1.2% | 4.4 | 170 953 | 151 541 |
| TOTAL (ZDM) | 142 543 | 157 854 | 157 748 | 183 642 | 178 516 | 241 400 | 165 167 | 0.41% | 5.6 | 1 365 913 | 942 794 |

To summarise the above outcomes, the current household count for ZDM taken from the 2023 household count, is 241 400, with a total population of 1 365 913 when STATSSA population per household is applied (statssa.gov.za)

2025-2026 Review Section A: Page 27 of 57

Household Growth ZDM Actual counts from aerial photography vs. STATSSA 300 000 250 000 its from aerials ZD 142 543 150 000 100 000 50 000 Households 2011 (CENSUS) 2022 (CENSUS) 2006 (ZDM Count) 2009 (ZDM Count) 2016 (ZDM Count) 2016 (CENSUS COMM SURVEY) (ZDM Count)

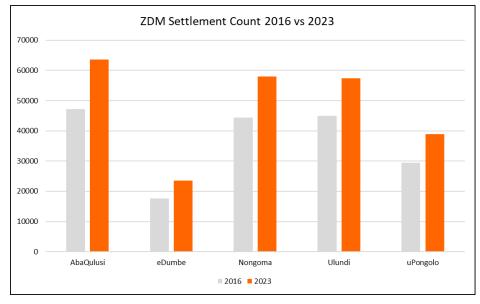
Figure A.6.2: ZDM and Census household growth analysis (2011 - 2023)

In the following graph the household growth per local municipality can be reviewed since the last household count in 2016. An annual average growth rate of 4-5% is evident in all 5 LM's.

Table A.6.3: 2016 vs 2023 Household Growth

| | Totals of Rural HH & Urban HH | | | | | | | |
|-----------------------|-------------------------------|---------|-------------------------------------|--|--|--|--|--|
| Local Municipality | 2016 | 2023 | Household Growth (2016- 2023) | Annual household growth rate (%) | | | | |
| AbaQulusi | 47 119 | 63 575 | 16 456 | 4.99% | | | | |
| eDumbe | 17 641 | 23 592 | 5 951 | 4.82% | | | | |
| Nongoma | 44 376 | 58 030 | 13 654 | 4.40% | | | | |
| Ulundi | 44 987 | 57 350 | 12 363 | 3.93% | | | | |
| uPongolo | 29 519 | 38 853 | 9 334 | 4.52% | | | | |
| | 183 642 | 241 400 | | | | | | |

Figure A.6.3: Annual Growth per Local Municipality



Data derived from 2016 and 2023 Aerial Photography

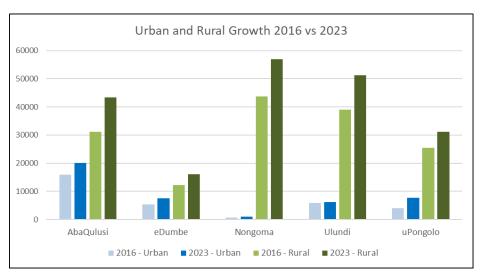
2025-2026 Review Section A: Page 28 of 57

When urban growth is compared versus rural growth, uPhongolo has experienced the highest urban growth over the 7-year period, with Ulundi the lowest. In the rural areas AbaQulusi has experienced the highest growth, with uPhongolo LM the lowest.

Table A.6.4: Urban and Rural Household Growth (2013-2023)

| | | Urban | | Rural | | | |
|-----------------------|--------|--------|--------------------|--------|--------|--------------------|--|
| Local Municipality | 2016 | 2023 | Annual growth rate | 2016 | 2023 | Annual growth rate | |
| AbaQulusi | 16 000 | 20 175 | 3.73% | 31 119 | 43 400 | 5.64% | |
| eDumbe | 5 458 | 7 530 | 5.42% | 12 183 | 16 062 | 4.55% | |
| Nongoma | 632 | 1 049 | 9.43% | 43 744 | 56 981 | 4.32% | |
| Ulundi | 5 912 | 6 190 | 0.67% | 39 075 | 51 160 | 4.42% | |
| uPongolo | 4 009 | 7 776 | 13.42% | 25 510 | 31 077 | 3.12% | |

Figure A.6.4: Annual Urban and Rural Household Growth per Local Municipality



Data derived from 2016 and 2023 Aerial Photography

In Table A.3(d) the domestic dwellings and farm houses per local municipality can be reviewed. Industrial and business properties were only captured in urban areas since it is not always possible to distinguish businesses and commercial buildings in rural areas from aerial photography.

Table A.6.5: Current consumer profile (units)

| | | | FARM HOUSES / | |
|----------------------|----------|--------------|---------------|---------|
| | | INDUSTRIAL / | SCATTERED | |
| LOCAL MUNICIPALITIES | DOMESTIC | BUSINESSES | HOUSEHOLDS | TOTAL |
| AbaQulusi | 20 175 | 1 794 | • | 21 969 |
| eDumbe | 7 530 | 218 | • | 7 748 |
| Nongoma | 1 048 | 321 | • | 1 369 |
| Ulundi | 6 190 | 533 | - | 6 723 |
| uPhongolo | 7 776 | 456 | • | 8 232 |
| Total (urban) | 42 719 | 3 322 | • | 46 041 |
| AbaQulusi | 42 880 | 390 | 520 | 43 790 |
| eDumbe | 15 736 | 113 | 326 | 16 175 |
| Nongoma | 56 966 | 79 | 16 | 57 061 |
| Ulundi | 50 855 | 209 | 305 | 51 369 |
| uPhongolo | 28 615 | 333 | 2 462 | 31 410 |
| Total (rural) | 195 052 | 1 124 | 3 629 | 199 805 |
| Total | 237 771 | 4 446 | 3 629 | 245 846 |

2025-2026 Review Section A: Page 29 of 57

Chapter 2: Service Level & Associated Services Profile

The current levels of access to water services in the district are indicated below:

Table A.6.6: Residential consumers: access to water

| | | | Communal | Yard/House | House | |
|--------------------|------------|--|------------|-------------|-------------|---------|
| | NOT SERVED | Rudimentary | standpipes | connections | Connections | TOTALS |
| Water | | <rdp< th=""><th></th><th>RDP</th><th></th><th></th></rdp<> | | RDP | | |
| AbaQulusi LM | 0 | 145 | 0 | 578 | 19 011 | 19 734 |
| eDumbe LM | 0 | 0 | 0 | | 7 282 | 7 282 |
| Nongoma LM | 0 | 0 | 0 | | 1049 | 1 049 |
| Ulundi LM | 0 | 0 | 0 | 522 | 5 672 | 6 194 |
| uPhongolo LM | 0 | 0 | 0 | 1 457 | 5 910 | 7 367 |
| Total (urban) | 0 | 145 | 0 | 2 557 | 38 924 | 41 626 |
| AbaQulusi LM | 6 928 | 10 047 | 13136 | 10 837 | 2 647 | 43 595 |
| eDumbe LM | 3 146 | 1754 | 2301 | 9 134 | | 16 335 |
| Nongoma LM | 6 542 | 13 905 | 14 564 | 21 980 | | 56 991 |
| Ulundi LM | 2 937 | 3 151 | 19 877 | 24 885 | 578 | 51 428 |
| uPhongolo LM | 3 468 | 1734 | 3515 | 22 535 | 173 | 31 425 |
| Total (rural) | 23 021 | 30 591 | 53 393 | 89 371 | 3 398 | 199 774 |
| Total (households) | 23 021 | 30 736 | 53 393 | 91 928 | 42 322 | 241 400 |

Table A.6.7: Residential consumers: access to sanitation

| | NOT SERVED | VIP | Septic tank | Waterborne | TOTALS |
|--------------------|------------|---------|-------------|------------|---------|
| | | DDD | , 000 | | |
| | | RDP | >RDP | | |
| AbaQulusi LM | 145 | 0 | 1071 | 18 518 | 19 734 |
| eDumbe LM | 0 | 6632 | 650 | 0 | 7 282 |
| Nongoma LM | 0 | 0 | 0 | 1049 | 1 049 |
| Ulundi LM | 0 | 856 | 110 | 5 228 | 6 194 |
| uPhongolo LM | 0 | 1457 | 0 | 5 910 | 7 367 |
| | | | | | |
| Total (urban) | 145 | 8 945 | 1 831 | 30 705 | 41 626 |
| AbaQulusi LM | 11 423 | 32 139 | 0 | 33 | 43 595 |
| eDumbe LM | 1 922 | 14 347 | 0 | 66 | 16 335 |
| Nongoma LM | 7 940 | 49 051 | 0 | 0 | 56 991 |
| Ulundi LM | 1 533 | 49 317 | 0 | 578 | 51 428 |
| uPhongolo LM | 5 811 | 25 441 | 0 | 173 | 31 425 |
| Total (rural) | 28 629 | 170 295 | 0 | 850 | 199 774 |
| | | | | | |
| Total (households) | 28 774 | 179 240 | 1 831 | 31 555 | 241 400 |

Table A.6.8: Backlog Figures

| YEAR | BACKLOGS (Households) | | ALLOCA | Household | |
|------------|-----------------------|------------|-------------|------------|--------------------|
| | Water | Sanitation | Water | Sanitation | count |
| 2019-2020 | 42 711 | 30 586 | 383 328 220 | 51 310 825 | |
| 2020-2021 | 39 145 | 28 586 | 394 165 250 | 59 721 750 | 2016 |
| 2020-2021 | 37 497 | 26 848 | 596 157 000 | 61 127 500 | Households |
| 2022/2023 | 36 196 | 22 538 | 549 102 401 | 36 334 200 | |
| 2023/2024 | 34 930 | 20 733 | 741 007 860 | 62 495 140 | |
| 2024/2025` | 54 561 | 28 774 | 550 315 000 | - | |
| 2025/2026 | 53 757 | 28 774 | 633 375 207 | 15 843 793 | 2023 Households |

2025-2026 Review Section A: Page 30 of 57

Table A.6.9: Backlog Eradication Progress

| YEAR | BACKLOGS R | Household count | | |
|-----------|------------------|-----------------|------------------|--|
| | Water Sanitation | | Household coulit | |
| 2019-2020 | 23.26 | 16.66 | | |
| 2020-2021 | 21.32 | 15.57 | | |
| 2021/2022 | 20.42 | 14.62 | 2016 Households | |
| 2022/2023 | 19.70 | 12.30 | | |
| 2023/2024 | 19.02 | 11.29 | | |
| 2024/2025 | 22.60 | 11.92 | | |
| 2025/2026 | 22.27% | 11.92% | 2023 Households | |

Table A.6.10: Public institutions and 'dry' industries: access to water

| | | WATER | | | | |
|--------------------|--------|------------|-----------|------------|--|--|
| Institution | No off | None or | Communal | Yard | | |
| | | inadequate | standpipe | connection | | |
| Businesses | 3 980 | | | 958 | | |
| Clinics | 68 | 5 | 48 | 15 | | |
| Creches | 7 | 2 | | 5 | | |
| "Dry" Industries | | | | | | |
| Hospitals | 13 | | | 13 | | |
| Magistrate offices | 7 | | | 7 | | |
| Police Stations | 15 | 4 | | 11 | | |
| Prisons | 3 | | | 3 | | |
| Schools | 789 | 360 | 329 | 100 | | |
| Community Halls | 39 | 27 | | 12 | | |
| Total | 4 921 | 398 | 377 | 1 124 | | |

Table A.6.11: Public institutions and 'dry' industries: access to sanitation

| | | SANITATION | | | | |
|--------------------|--------|--------------------|------------------------|------------|--|--|
| Institution | No off | None or inadequate | Dry pit / Septic tanks | Waterborne | | |
| Businesses | 3 980 | | | 3 980 | | |
| Clinics | 68 | | 1 | 67 | | |
| Creches | 7 | 2 | | 5 | | |
| "Dry" Industries | | | | | | |
| Hospitals | 13 | | | 13 | | |
| Magistrate offices | 7 | | | 7 | | |
| Police Stations | 15 | 4 | | 11 | | |
| Prisons | 3 | | | 3 | | |
| Schools | 789 | 24 | 637 | 128 | | |
| Community Halls | 39 | 27 | | 12 | | |
| Total | 4 921 | 57 | 638 | 4 226 | | |

2025-2026 Review Section A: Page 31 of 57

Chapter 3: Water Resource Profile

The ZDM falls within the Mfolozi (W2), Mkuze (W3) and Pongola (W4) secondary catchments of the Usuthu/Mhlathuze Water Management Area (WMA)¹. The aerial extent of the ZDM occupies approximately 22% of this WMA. The total available water and requirements as at year 2000, based on a 98% assurance of supply within these sub-areas, is summarised in Table A.6.6. It is evident that apart from the Pongola catchments, water from these sub-areas is currently over-utilised and a deficit is created. However, according to Basson and Rossouw², this deficit is a result of the provision made for future implementation of the Reserve. The Reserve is a legislated requirement of the amount of water required to satisfy the ecological needs of a river system (provisionally estimated at 20%) as well as the basic human needs (that have been established as 25 litres per person per day).

Table A.6.12: Water balance - summary of the water available and required within Zululand District Municipality for the year 2000 (Million m³ (kℓ) per annum).

| | | | Mfolozi | Mkuze | Pongola | Total |
|--------------|--------------------------|-----------------------------|---------|-------|---------|-------|
| | Natural resource | surface water | 36 | 15 | 616 | 667 |
| | Naturar resource | groundwater | 5 | 12 | 8 | 25 |
| | | Irrigation | 5 | 6 | 21 | 32 |
| Available | Usable return flow | Urban | 4 | 0 | 0 | 4 |
| water | | Mining & bulk | 1 | 0 | 0 | 1 |
| | Total local yield* | | 51 | 33 | 645 | 729 |
| | Transfers in | | 0 | 30 | 0 | 30 |
| | | Total available | 51 | 63 | 645 | 759 |
| | | Irrigation | 51 | 61 | 213 | 325 |
| | | Urban** | 12 | 1 | 1 | 14 |
| | Consumer groups | Rural** | 11 | 10 | 6 | 27 |
| Water | | Mining & bulk industrial*** | 4 | 0 | 1 | 5 |
| requirements | | Afforestation**** | 2 | 6 | 34 | 42 |
| | Total local requirements | - | 80 | 78 | 255 | 413 |
| | Transfers out | | 18 | 0 | 30 | 48 |
| | | Total used | 98 | 78 | 285 | 461 |
| | Balance | | -47 | -15 | 360 | 298 |

Source: Basson and Rossouw (2003).

2025-2026 Review Section A: Page 32 of 57

^{*}Includes allowance for impacts of the ecological component of the Reserve, river losses, alien vegetation, rain-fed agriculture and urban run-off on yield

^{**}Includes allowance for basic human needs component of the Reserve (25 ℓ /c/d).

^{***}Mining and bulk industrial water uses that are not part of the urban system.

^{****}Afforestation quantities refer to the impact on yield only.

¹ The Usuthu/Mhlathuze WMA is one of 19 areas defined across South Africa in terms of the National Water Act, 1998 (Act 36 of 1998). These WMAs have been defined to improve water resource management within South Africa. With time, each of the WMAs will establish a catchment management agency (CMA) for the regulation and control of water use in the WMA.

² Op cit 2 at 23.

White Umfolozi Catchment (Hlahlindlela Regional Water Supply and Nkonjeni Regional Water supply Area)

A detailed catchment study for the Mfolozi River has not been undertaken before. The catchment has however been included in national water resource studies such as the Surface Water Resources of South Africa 1990 (WR90) and the Water Resources of South Africa 2005 (WR2005) studies of the Water Research Commission. Although the Usuthu to Mhlathuze Water Management Area (WMA6) is not considered by the Department of Water Affairs (DWA) to be a water stressed area as a whole, the Mfolozi River catchment is considered to have a net deficit in the water balance for the catchment according to the National Water Resource Strategy (September 2004 edition). The National Water Resource Strategy also indicates that there will be no net increase in water requirements within the catchment from 2000 to 2025. However there has been growing water demand over the past decade mainly due to an increase in the provision of water services to the large rural population within the catchment.

A reconnaissance level water resource catchment study for the White Mfolozi River was undertaken in 2009/2010. The yield analyses indicate that there is **insufficient** water to currently meet the requirements of eMondlo at 98% assurance and by 2030 there will be significant shortfalls in the water availability to meet the requirements of all the main towns, especially if the Reserve are released from the main dams. One of the recommendations of the study was that the Water Resource Planning Model (WRPM) be used to determine the scheduling requirements for new infrastructure and to recommend operating rules for the system.

ZDM undertook a Water Resource Modelling of **the upper White uMfolozi River System** during 2011/2012. Areas served by this System are Vryheid Town and surrounding suburbs, Bhekuzulu, Lakeside, eMondlo Town and surrounding areas (Hlahlindlela Regional Water Supply Scheme), Mpumanhlope, Ulundi, Babanango (Nkonjeni Regional Water supply Scheme) and Nondweni (Umzimyathi District Municipality).

The following recommendations were proposed:

- Take immediate action to augment the water supply to eMondlo.
- Start the necessary pre-feasibility and /or feasibility studies to be prepared for the next Water Resource Augmentation project.
- Implement the proposed operating rules for Mvunyane, Bloemveld and Grootgewacht Dams
- Make a decision on a restriction strategy for eMondlo. Implement restrictions to eMondlo based on the short-term yield curves and the water requirement projections.
- Continue to track the actual water usage in the system and update the water demand projections regularly.
- Monitor all dam levels on a daily basis, including the rainfall and evaporation.
- Monitor water abstractions and return flows on a daily basis.
- Rerun the WRPM every year in May with the updated system storage information and the updated water projections to revise the projected implementation date for the next water resource augmentation project.

2025-2026 Review Section A: Page 33 of 57

- Review the recommendations made in the First Order Reconciliation strategies done during Small Town Studies, particular attention should be paid to Water Conservation and Demand Management Strategies in the ZDM supply areas.
- Review the option of raising Klipfontein dam as proposed in the First Order Reconciliation strategies
 with other water resource development alternatives to improve the system yield. The raising of
 Klipfontein Dam is likely to be expensive due to the potential impact on the road and railway line.

Subsequent to the water modelling study, DWA is currently in Phase 1 to raise the Klipfontein Dam wall. This will provide enough storage capacity to proceed with the Hlahlindlela Regional Water Supply Scheme, and augment the water release capacity for Mpungamhlope and Ulundi weirs.

Black Umfolozi Catchment (Usuthu Regional Water Supply)

ZDM investigated the available water resources in the upper Black Mfolozi River during 2011.

The purpose of the investigation was twofold:

- An assessment was undertaken to determine the available water resources of the upper Black Mfolozi
 River which involved quantifying the divertible flows at the existing weir on the river near Nongoma
 upstream of the Kwa Nkweme River confluence. This represents the situation prior to construction of
 the off-channel storage dam on the Kwa Nkweme River. Analyses were performed for 18.6 Ml/day
 (2025 demand) and 25 Ml/day (2035 demand).
- Detailed yield analyses were undertaken to determine the water resources capability of a proposed system on the upper Black Mfolozi River, which consists of a new off-channel storage dam on the Kwa Nkweme River. Water for this off-channel storage dam will be supplied by diverting available flows from the existing weir on the Black Mfolozi River. The performance of the system was evaluated for a variety of possible configurations including a range of dam (storage) sizes, flow diversion capacities and downstream environmental flow requirements (EFR's).

Based on the results of the water resource assessment it is concluded that:

Prior to the construction of the proposed off-channel storage dam on the Kwa Nkweme River, a run-of-river scheme on the upper Black Mfolozi River could supply a target abstraction of 18.6Ml/day (or 6.8 million m³/a, the projected water requirement for the proposed scheme in 2025) with an annual risk of failure of 64% (recurrence interval of 1:1.6 years). This risk is well above accepted levels for schemes of this increase the supply capability (assurance of supply) of the system.

ZDM is currently in the process of reviewing the Usuthu Technical Report with updated cost estimates. The off-storage dam for the Usuthu Regional Scheme will be proposed to provide sustainable water to

2025-2026 Review Section A: Page 34 of 57

the Usuthu Regional Scheme. The Regional Scheme Implementation Is currently on hold pending construction of the off-storage dam.

Pongola Catchment (Simdlangentsha Central/East, Mandlakazi, and Gumbi Regional Water Supply Areas)

The Pongola catchment is currently under-utilised and the catchment area is not under stress.

A new WTW at the Belgrade abstraction works is proposed to replace the ageing package plants at Belgrade. This WTW will supply sustainable water for the Simdlangentsha Central, as well as the northern portion of Simdlangentsha East.

New upstream bulks for the Mandlakazi Regional Scheme are in progress that will replace the water supply from Senekal Boerdery. A new abstraction works and upgraded WTW will supply Mandlakazi as well as the Hlabisa Regional Water Supply Scheme.

2025-2026 Review Section A: Page 35 of 57

CHAPTER 4: Operation & Maintenance

Operation and Maintenance management is split up as follows:

❖ Bulk Water and Wastewater Management:

The core function for Water Services Provision Bulk is to ensure that water and wastewater infrastructure is managed properly in order to produce a cost effective and SANS 241 acquiescent quality of water. It is also to Operate and Maintain the Bulk Infrastructure in order to minimize down time).

* Rural and Urban Reticulation:

The main function of the "Urban and Rural Reticulation Section" division is to operate and maintain the water and sanitation networks in both urban and rural areas within the Local Municipalities.

Of critical importance is the funding of Operations and Maintenance of existing and future schemes as they are being commissioned. Correct O&M of physical infrastructure is arguably more important than infrastructure construction because unless successful preventative maintenance procedures are instituted schemes will become inoperative. As a large proportion of expenditure relates to staff, competent personnel are required to ensure that the large investments in water services are not negated through dysfunction or dereliction.

This section looks at existing infrastructure which have reached its end of lifespan, and whether refurbishment, O&M or replacement is necessary for sustainable service delivery. This is applicable for water and sanitation components such as WTW's or Pump Stations, but also for scheme networks where infrastructure has deteriorated or reached the end of its lifespan. It furthermore entails O&M for all borehole and spring protection services where O&M plays a significant role.

Other factors influencing proper O&M include Staff capacity, external resources, equipment and budget requirements.

The DWS 5-Year Water and Sanitation Reliability Service Delivery Implementation Plan has been completed during 2024. This Implementation Plan takes all the above aspects into account and provides a pipeline of projects for the next 5 years to enable the municipality in providing a 90% reliable service delivery for water and sanitation. This forms part of the KZN PGDS Framework. Projects related to this 5-year Plan will be addressed under the WCWDM Strategic approach.

Table A.6.13 below shows the operational costs associated with the provision of water services in the district against the total income. At present a significant decline exists for O&M, and ZDM is addressing these issues through various means.

2025-2026 Review Section A: Page 36 of 57

Table A.6.13: Operational costs and income

| Operating costs and income | Tot | tal 5yr projected | | 2020-2021 | | 2021-2022 | | 2022-2023 | | 2023-2024 | | 2024-2025 | | 2025-2026 | 20 | 26-2027 |
|--------------------------------|-----|-------------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|------------|----|---------|
| Operational costs | R | 2 135 402 037 | R | 344 986 742 | R | 317 975 886 | R | 349 773 474 | R | 384 750 822 | R | 423 225 904 | | TBC | | TBC |
| Personnel costs | R | 903 187 212 | R | 134 235 055 | R | 134 490 718 | R | 147 939 790 | R | 162 733 769 | R | 179 007 146 | | TBC | | TBC |
| Total O&M costs | R | 3 038 589 249 | R | 479 221 796 | R | 452 466 604 | R | 497 713 264 | R | 547 484 591 | R | 602 233 050 | R | - | R | - |
| MIG Alalocation (1%) | | | | | | | | | | | | | R | 27 258 600 | | TBC |
| Equitable share: FBS | R | 2 892 813 490 | R | 564 272 000 | R | 524 645 000 | R | 559 056 000 | R | 566 225 000 | R | 577 549 500 | | TBC | | TBC |
| Income: sales (actual payment) | R | 290 114 352 | R | 25 410 596 | R | 43 200 000 | R | 47 520 000 | R | 52 272 000 | R | 57 499 200 | | TBC | | TBC |
| Total income | R | 3 182 927 842 | R | 589 682 596 | R | 567 845 000 | R | 606 576 000 | R | 618 497 000 | R | 635 048 700 | R | - | R | - |
| Deficit/surplus | R | 144 338 593 | R | 110 460 800 | R | 115 378 396 | R | 108 862 736 | R | 71 012 409 | R | 32 815 650 | R | - | R | - |

The O&M financial information is still being processed and will be included as soon as it is available. KPI's include maintaining proper O&M on relevant assets, as well as keeping staff and budget requirements in place.

The following figure provides an overview on the KZN Blue Drop Assessments. ZDM has a yellow status, and will require interventions in the operation and maintenance of its water treatment plants.

KwaZulu-Natal: vater & sanitation 14 WSAs & 172 systems audited Blue Drop Scores 2023 per WSA 2 Water Boards & 4 WSPs 71.6% ave. TSA score 45.5% BDRR - Low risk 3 BD Certifications 21 Critical State systems 74.32% Zululand DM 43.93% Legend

Figure A.6.5: ZDM Blue Drop Assessment Outcome (2023)

The following figure provides an overview on the KZN Green Drop Assessments. ZDM has a high risk rating status, and will require interventions in the operation and maintenance of its wastewater treatment plants.

Section A: Page 37 of 57 2025-2026 Review

KwaZulu-Natal: water & sanitation Green Drop Critical Risk Rating Trend 2022 vs 2023 per WSA ESWATIN 53.1% %0.99 74.2% 64.3% /laseru 53.0% Drakensberg aritzburg Range The Msunduzi LM ban 65.2% Legend LESOTHO WSA Provincial Legend CRR % Year Legend CRR <50% 2023 CRR 50%<70% High 70% - <90% Critical 90% - 100%

Figure A.6.6: ZDM Green Drop Assessment Outcome (2023)

2025-2026 Review Section A: Page 38 of 57

Chapter 5: Water Conservation/ Demand Management

ZDM has embarked on an extensive Unaccounted for Water programme (UAW), aimed at understanding the usage of water in the district and to provide guidance to future demand management and waterloss interventions. Specific interventions will be launched at individual schemes to address water losses through:

- Pressure management
- Leak repair programmes
- Meter repair & replacement programmes
- Internal plumbing leaks
- Consumer end-use demand management initiatives

The water demand strategy will focus on a number of ways to ensure the reduction of water demand by consumers, for example:

- Influencing the behaviour of consumers
 - School and public educational and awareness programmes aimed at promoting effective usage of water (brochures, advertising, newsletters, demonstrations, exhibits, informative billing, etc)
 - o Water services tariff that promotes efficient water usage
 - o Any other "win-win" initiatives that could influence consumers positively
- · Specific targeted projects like;
 - Repair plumbing leaks inside properties
 - o Installation of water flow control devices, etc.

ZDM has made considerable efforts to improve the WCWDM function in the district. An updated WCWDM Plan was compiled in 2024 to provide a holistic approach to water conservation and demand management. A 10% allocation from the annual MIG funding has been approved to facilitate and implement WCWDM for all regional schemes.

The following figure provides an overview on the KZN No Drop Assessments. ZDM has an average status, and this score should improve considerably with the interventions undertaken by ZDM since 2024.

2025-2026 Review Section A: Page 39 of 57

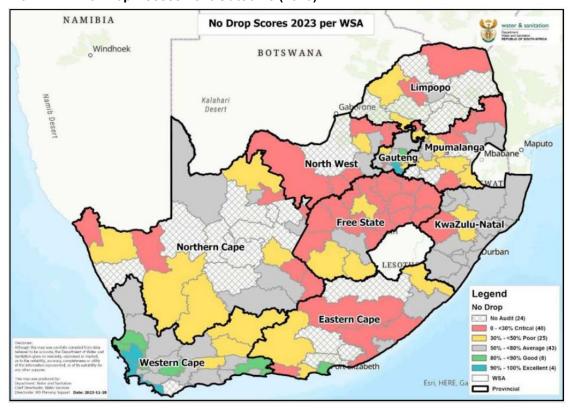


Figure A.6.7: ZDM No Drop Assessment Outcome (2023)

2023 No Drop Criteria

The 2023 No Drop assessments were performed using a reduced set of No Drop Criteria. These criteria were selected to assess a WSA's understanding of their WC/WDM status, the plans, strategies, budgets, and implementation of remedial projects. Below is a brief description of the Criteria.

| Criteria 1 | WC/WDM status quo, plans and strategies, budgets, and implementation of projects (Water Resource Diagram, Water Balance, Council approved WC/WDM strategies and budgets) |
|------------|--|
| Criteria 2 | Asset management as it relates to meter replacement. Monitoring, analysis, and action of high loss District Metered Areas (DMAs) in metropolitan municipalities |
| Criteria 3 | Technical skills of WC/WDM team |
| Criteria 5 | Compliance and Performance based on the water loss and efficiency Key Performance Indicators (KPI) and year on year improvement there-of |



2025-2026 Review Section A: Page 40 of 57

Chapter 6: Water and Sanitation Services Infrastructure Profile

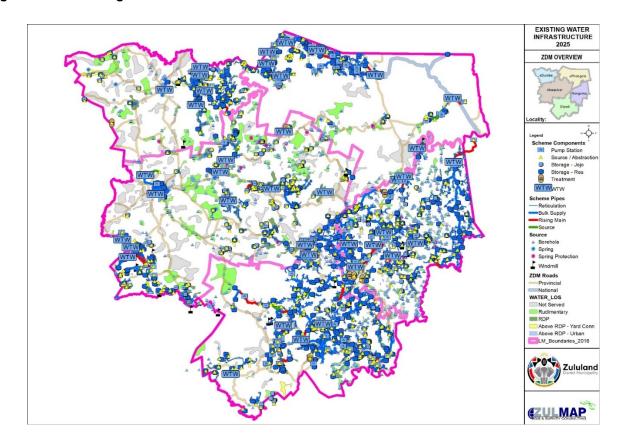
ZDM has done extensive work on the development of a database that will serve as an asset register, but also to be used as the basis for the development of an asset management system and to capture asset related information electronically for ongoing use. The system has been named 'MANZI' and access can be gained on the ZDM website at www.zululand.org.za once the user has been issued with a username and password. Table A.6.8 below provides a brief overview of the schemes in the district that have been captured on the MANZI system and a summary of the infrastructure under consideration, as well as a rough estimate of the value of assets. These figures will be refined over time once the asset management system has been rolled out.

Table A.6.14: Summary of water schemes in the district

| Summary Data | LOS | Total |
|---------------------|------------------------|-------|
| | Above RDP - Urban | 14 |
| | Above RDP - Rural | 67 |
| Number of Schemes | RDP | 122 |
| Number of scrientes | Rudimentary | 145 |
| | To be confirmed on GIS | 7 |
| | TOTAL SCHEMES | 355 |

The following figures and proceeding table shows examples of water infrastructure data that is currently available on the GIS. New infrastructure details are captured and updated from as-builts on an annual basis.

Figure A.6.8: Existing Water Infrastructure



2025-2026 Review Section A: Page 41 of 57

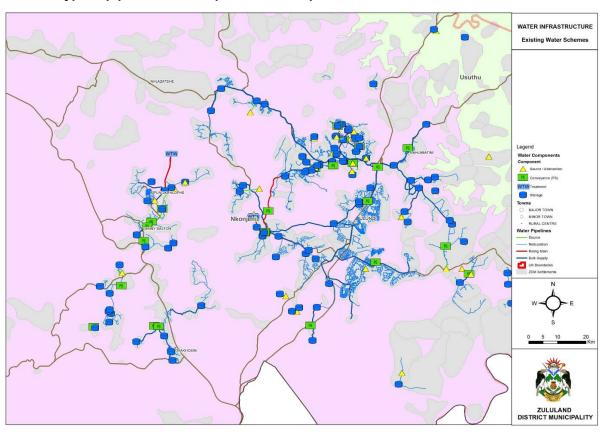
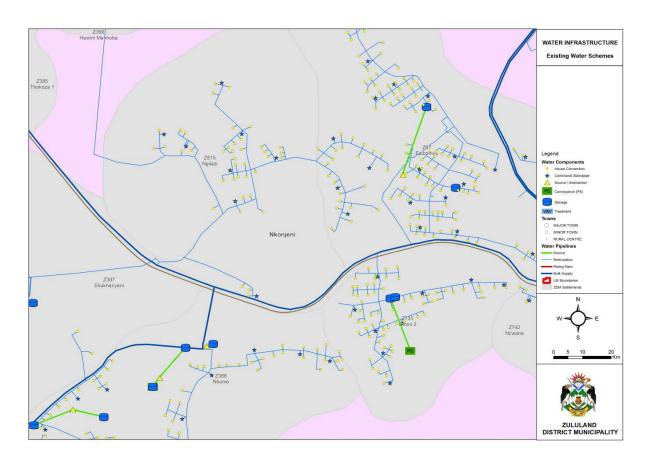


Figure A.6.9: Typical pipeline and component details per scheme



2025-2026 Review Section A: Page 42 of 57

Table A.6.15: Summary of water infrastructure components available the ZDM GIS

| Summary Data | Description | Total |
|-------------------|-------------------------------------|--------------------|
| Dinalinas | Bulk | 1586 km |
| Pipelines | Reticulation | 6601 km |
| | Yard Connection | 33 355 |
| | StandPipe - Barrel | 305 |
| | StandPipe - Communal | 6 659 |
| | Electrical Point | 72 |
| | Valve | 16 992 |
| | Meter | 1 431 |
| | Bulk Metering Points | 234 |
| | Handpump | 886 |
| | Playpump | 32 |
| | Electrical Pump | 101 |
| | Diesel Pumps | 26 |
| Installations | Equipped BH pumps (Type unverified) | 2057 |
| | Pump Station | 114 |
| | Scheme Source / Abstraction | 574 |
| | Break-pressure Tank | 618 |
| | Storage - Jojo | 249 |
| | Storage - Reservoir | 795 |
| | Weir | 30 |
| | Treatment (Sand filters etc) | 8 |
| | Water Treatment Works | 40 |
| | Boreholes | 2690 |
| | Spring Protections | 73 |
| | Windmills | 49 |
| | Civil | R 2 187 465 532.77 |
| | Mechanical | R 638 857 590.23 |
| Daniacamant Value | | |
| Replacement Value | Electrical | R 252 906 251.28 |

Sanitation services are divided up between formal waterborne sewer services, as well as basic RDP-level services in the form of VIP-type sanitation facilities for households.

There are 19 formal waterborne sewer treatment plants in ZDM. Louwsburg and Paulpietersburg towns only have soak-away drain pits, while Frischgewaagd only has VIP-type sanitation. These details can be seen in the following figure and table.

2025-2026 Review Section A: Page 43 of 57

Figure A.6.10: Existing Sanitation Infrastructure

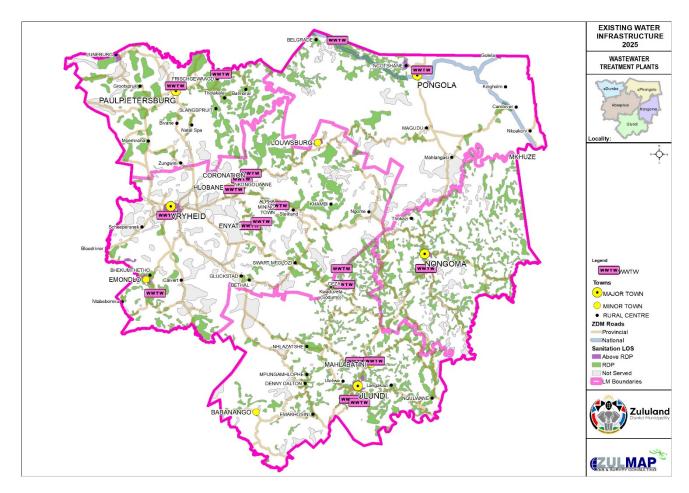


Table A.6.16: Summary of waterborne infrastructure details available the ZDM GIS

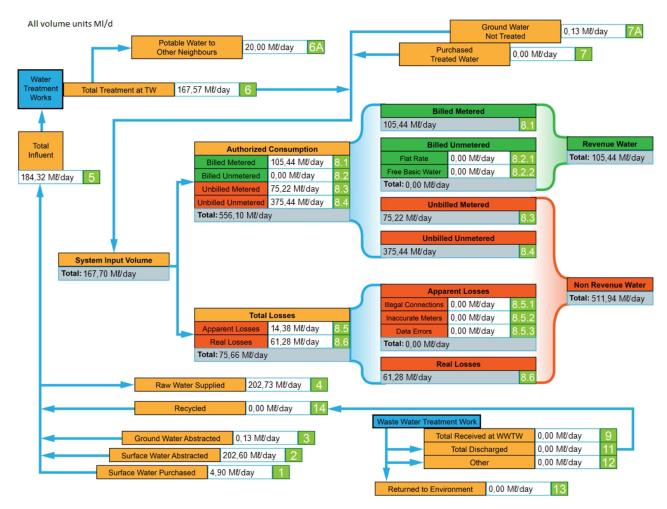
| Summary Data | LOS | Total |
|--------------------|----------------------------|----------|
| Number of Schemes | Waterborne Schemes | 20 |
| | | |
| | | |
| | | |
| Summary Data | Description | Total |
| Dinalinas | Bulk | 62.4 km |
| Pipelines | Reticulation | 561.2 km |
| Installations | Pump Station | 7 |
| installations | Wastewater Treatment Works | 19 |
| | Civil | TBC |
| Dominos mont Value | Mechanical | TBC |
| Replacement Value | Electrical | TBC |
| | Telemetry | TBC |

2025-2026 Review Section A: Page 44 of 57

Chapter 7: Water Balance

A first order water balance is presented in Chapter 7 from available data at the time.

Figure A.6.11: ZDM Water Balance



As part of the Water Conservation and Water Demand Management Plan, in-depth details will be obtained regarding Apparent Losses to provide a more complete water balance chart.

Chapter 8: Water Services Institutional Arrangements

ZDM has taken over the function of WSA and WSP for the entire district in 2003. An interim agreement was however signed between ZDM and AbaQulusi LM, whereby AbaQulusi LM will act as the WSP for the urban areas in the municipality until such time that ZDM can take over the responsibility. This agreement has however been extended up to now.

At present AbaQulusi Local Municipality is still functioning as the Water Services Provider for the urban areas within AbaQulusi. ZDM has undertaken a revised Section 78 Assessment on the WSP function for AbaQulusi LM, and was concluded in May 2024. An extended agreement was signed between ZDM and AbaQulusi LM whereby AbaQulusi LM will continue with the WSP function on the urban areas.

2025-2026 Review Section A: Page 45 of 57

Chapter 9: Customer Services Profile

The provision of high quality water services to consumers involves good water quality and the reliability of water services. This chapter covers interventions implemented or planned by ZDM to address the above mentioned issues. A customer care charter is being drafted that will be the "contract" with the consumer and will also list the consumer's responsibilities in this regard. Work has been done on the drafting of a customer care strategy and the following key focus areas have been identified:

- To know your customers (complete customer database)
- To develop proper mechanisms for effective two way communication with customers
- To provide affordable, high quality services that are accessible to all
- To empower your consumers through education
- To develop a customer focused organisation
- To develop a customer charter and honour the agreement with the customer
- To accelerate the implementation of appropriate service provision structures

ZDM has developed a system for the capturing and tracking of customer complaints, from the point where the complaint is recorded by the Customer Care centre, referred to specific individuals to deal with and closed out when finally dealt with. The system is called SIZA and records the time from when the complaint was lodged until the issue has been successfully completed. Response time to consumer complaints and the time it takes to deal with issues are therefore measured and can be reported on.

Chapter 10: Financial Profile

This chapter deals with two financial issues related to water services infrastructure, namely:

- New capital projects
- Operations and maintenance (O&M) of existing infrastructure

The details are contained in Chapter 9 but can be summarised in the tables below:

2025-2026 Review Section A: Page 46 of 57

Table A.6.17: Capital requirements: water

| WATER | Ca | pital requirements | | 2022/2023 | | 2023-2024 | | 2024-2025 | | 2025-2026 | | 2026-2027 |
|-------------------------------|----|--------------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|
| Regional bulk | R | 7 231 592 510 | R | 346 335 383 | R | 519 827 030 | R | 494 047 695 | R | 564 212 716 | R | 534 572 203 |
| Reticulation | R | 2 591 418 512 | R | 282 150 148 | R | 221 180 830 | R | 159 813 619 | R | 69 162 491 | R | 135 089 108 |
| Total capital (new) | R | 9 823 011 022 | R | 628 485 531 | R | 741 007 860 | R | 653 861 314 | R | 633 375 207 | R | 669 661 311 |
| Regional bulk (WTW) | R | 378 401 219 | | TBA |
| Reticulation | | TBA | | TBA | | TBA | | TBA | | TBA | | TBA |
| Total capital (refurbishment) | R | 378 401 219 | | | | | | | | | | |
| Total capital | R | 10 201 412 241 | R | 628 485 531 | R | 741 007 860 | R | 653 861 314 | R | 633 375 207 | R | 669 661 311 |

Table A.6.18: Capital requirements: sanitation

| SANITATION | Cap | ital requirements | | 2022/2023 | | 2023-2024 | | 2024-2025 | | 2025-2026 | | 2026-2027 |
|---------------------------------|-----|-------------------|---|------------|---|------------|---|------------|---|------------|---|------------|
| Bulk infrastructure | | TBA | | TBA | | TBA | | TBA | | TBA | | TBA |
| Reticulation | | TBA | | TBA | | TBA | | TBA | | TBA | | TBA |
| VIP toilets | R | 575 480 000 | | 36 334 200 | R | 62 495 140 | R | 11 388 135 | | 15 843 793 | | 50 000 000 |
| Total capital (new) | R | 575 480 000 | R | 36 334 200 | R | 62 495 140 | R | 11 388 135 | R | 15 843 793 | R | 50 000 000 |
| Bulk infrastructure (WWTW) | | 777 305 526 | | TBA |
| Reticulation | | TBA | | TBA | | TBA | | TBA | | TBA | | TBA |
| VIP toilets (Replacement Prgrm) | | 817 760 000 | | TBA |
| Total capital (refurbishment) | R | 1 595 065 526 | R | • | R | - | R | | R | | R | - |
| Total capital | R | 2 170 545 526 | R | 36 334 200 | R | 62 495 140 | R | 11 388 135 | R | 15 843 793 | R | 50 000 000 |

2025-2026 Review Section A: Page 47 of 57

Table A.6.19: Sources of Capital Income: Water

| WATER | | Expected Funding | | 2022/2023 | | 2023-2024 | | 2024-2025 | | 2025-2026 | | 2026-2027 |
|----------------------|---|------------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|
| MIG | R | 223 195 800 | R | 223 195 800 | R | 209 222 860 | R | 273 226 865 | R | 257 012 207 | R | 257 012 207 |
| DWA (RBIG) | R | 217 883 101 | R | 217 883 101 | R | 430 905 000 | R | 165 700 000 | R | 276 363 000 | R | 276 363 000 |
| Housing | R | - | R | - | R | - | R | - | R | - | R | - |
| WSIG | R | 121 000 000 | R | 121 000 000 | R | 100 880 000 | R | 100 000 000 | R | 100 000 000 | R | 100 000 000 |
| Loans | R | - | R | - | R | - | R | - | R | - | R | - |
| TOTAL | R | 562 078 901 | R | 562 078 901 | R | 741 007 860 | R | 538 926 865 | R | 633 375 207 | R | 633 375 207 |
| Capital requirements | R | 10 201 412 241 | | | | | | | | | | |
| Shortfall up to 2027 | R | -9 639 333 340 | | | | | | | | | | |

Table A.6.13: Sources of Capital Income: Sanitation

| SANITATION | Ex | pected Funding | 2022/2023 | | | 2023-2024 | | 2024-2025 | | 2025-2026 | | 2026-2027 |
|----------------------|----|----------------|-----------|---------------|---|------------|---|------------|---|---------------|---|---------------|
| MIG | R | 176 061 268.00 | R | 36 334 200.00 | R | 62 495 140 | R | 11 388 135 | R | 15 843 793.00 | R | 50 000 000.00 |
| DWA | | | | | | | | | | | | |
| Housing | R | - | R | - | R | - | R | - | R | - | R | - |
| Other grant funding | | | | | | | | | | | | |
| Loans | | | | | | | | | | | | |
| TOTAL | R | 176 061 268 | R | 36 334 200 | R | 62 495 140 | R | 11 388 135 | R | 15 843 793 | R | 50 000 000 |
| Capital requirements | R | 2 170 545 526 | | | | | | | | | | |
| Shortfall up to 2027 | R | -1 994 484 258 | | | | | | | | | | |

Table A.6.20: Operational costs and income

| Operating costs and income | Tot | Total 5yr projected | | 2020-2021 | | 2021-2022 | | 2022-2023 | | 2023-2024 | | 2024-2025 | 2 | 2025-2026 | 20 | 026-2027 |
|--------------------------------|-----|---------------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|------------|----|----------|
| Operational costs | R | 2 135 402 037 | R | 344 986 742 | R | 317 975 886 | R | 349 773 474 | R | 384 750 822 | R | 423 225 904 | | TBC | | TBC |
| Personnel costs | R | 903 187 212 | R | 134 235 055 | R | 134 490 718 | R | 147 939 790 | R | 162 733 769 | R | 179 007 146 | | TBC | | TBC |
| Total O&M costs | R | 3 038 589 249 | R | 479 221 796 | R | 452 466 604 | R | 497 713 264 | R | 547 484 591 | R | 602 233 050 | R | - | R | - |
| MIG Alalocation (1%) | | | | | | | | | | | | | R | 27 258 600 | | TBC |
| Equitable share: FBS | R | 2 892 813 490 | R | 564 272 000 | R | 524 645 000 | R | 559 056 000 | R | 566 225 000 | R | 577 549 500 | | TBC | | TBC |
| Income: sales (actual payment) | R | 290 114 352 | R | 25 410 596 | R | 43 200 000 | R | 47 520 000 | R | 52 272 000 | R | 57 499 200 | | TBC | | TBC |
| Total income | R | 3 182 927 842 | R | 589 682 596 | R | 567 845 000 | R | 606 576 000 | R | 618 497 000 | R | 635 048 700 | R | - | R | - |
| Deficit/surplus | R | 144 338 593 | R | 110 460 800 | R | 115 378 396 | R | 108 862 736 | R | 71 012 409 | R | 32 815 650 | R | - | R | - |

The O&M financial information is still being processed and will be included in future reviews. KPI's include maintaining proper O&M on relevant assets, as well as keeping staff and budget requirements in place.

2025-2026 Review Section A: Page 48 of 57

Chapter 11: List of Projects

The ZDM Water Master Plan comprises of ten back-to-back regional water schemes. The detailed project list included under Chapter 10 herewith lists sub-projects or phases associated with each regional scheme according to the approved progressive roll-out of the scheme.

The WSDP further allows for intermediate stand-alone schemes for areas falling within the regional scheme context which will take a long time to be implemented due to costly bulks. These intermediate stand-alone schemes are designed with a sustainable intermediate source which will all be integrated into the regional scheme once the regional scheme bulks reach the area.

For remote communities where no bulk services are feasible or possible, a rudimentary water level of service is implemented in the form of boreholes with handpumps, or spring protections. In some areas a small reticulation scheme with RDP level of services will be constructed where possible.

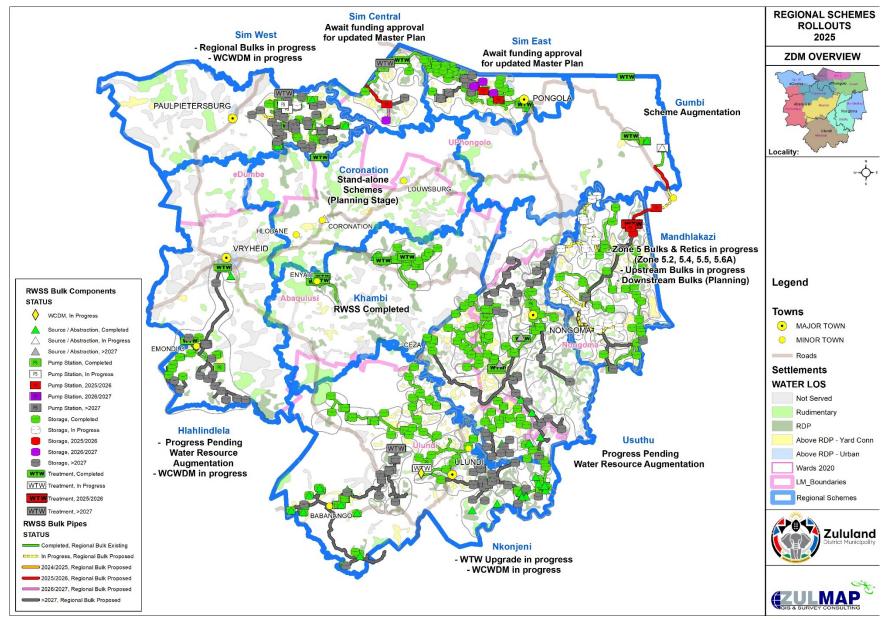
Sanitation is being rolled out progressively based on prioritised zones or clusters to make implementation more cost-effective and practical. There is also a future sanitation rollout planned to replace the old Archloo, Zinc and block-type VIP's.

The water and sanitation projects to be implemented over the next 5 years and beyond are listed in detail in Chapter 10 of the document. Rollout maps can be reviewed under <u>Figure A.6.6 – A.6.10</u>, and include the following rollouts:

- Regional Water Supply Schemes
- Intermediate Stand-alone Water Supply Schemes
- Rudimentary Water Supply
- Rural Sanitation
 - o New infrastructure
 - o Future Rural Sanitation Replacement Programme
- 5-year Water & Sanitation Reliability Service Delivery Implementation Plan

2025-2026 Review Section A: Page 49 of 57

Figure A.6.12: Regional Water Supply Schemes



2025-2026 Review Section A: Page 50 of 57

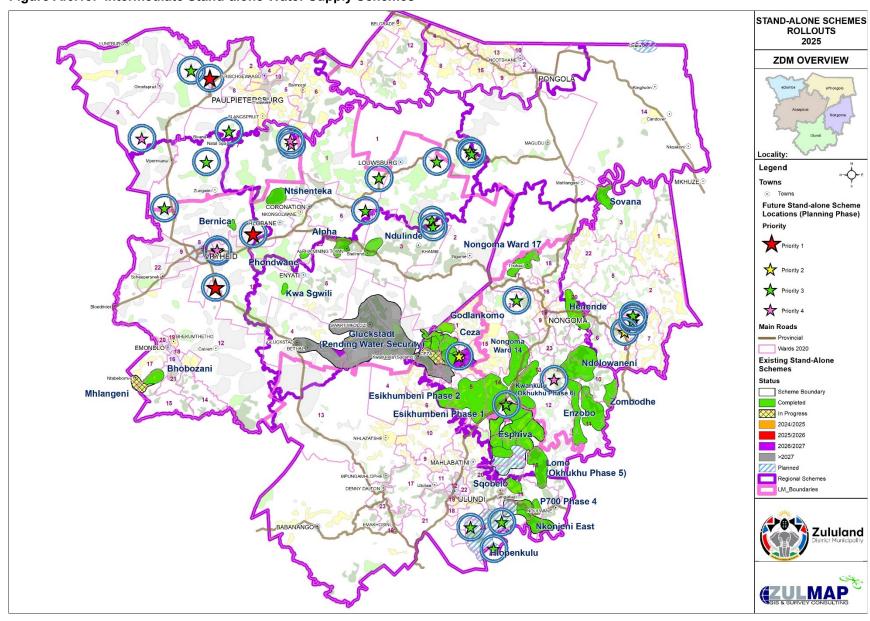
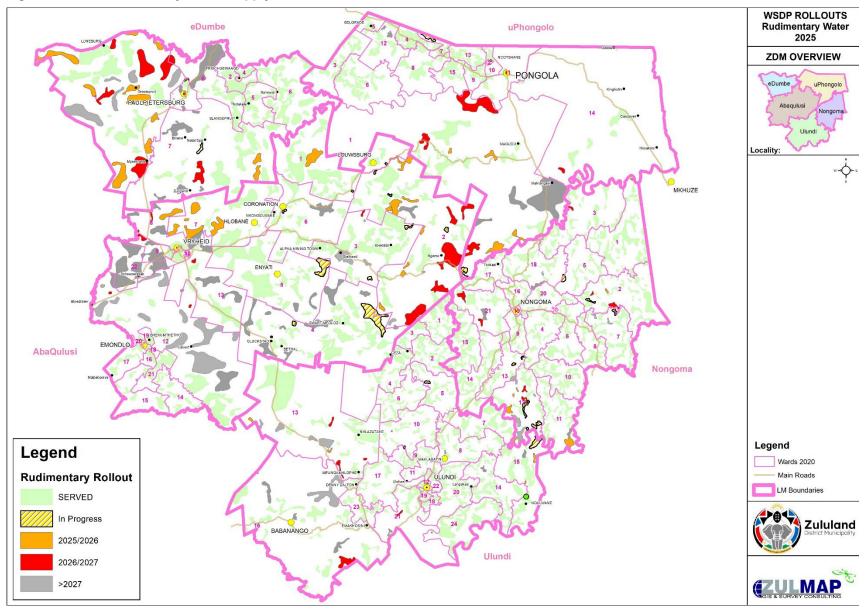


Figure A.6.13: Intermediate Stand-alone Water Supply Schemes

2025-2026 Review Section A: Page 51 of 57

Figure A.6.14: Rudimentary Water Supply



2025-2026 Review Section A: Page 52 of 57

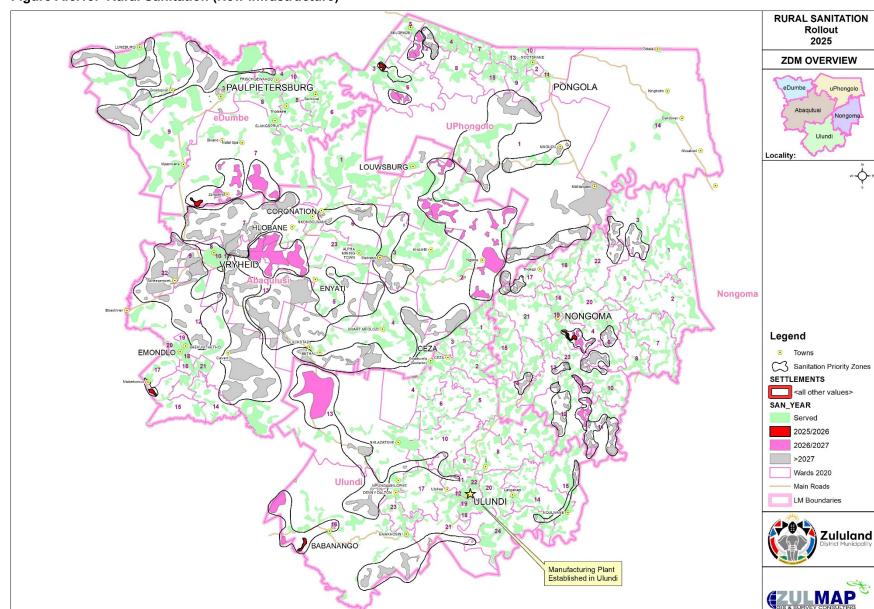
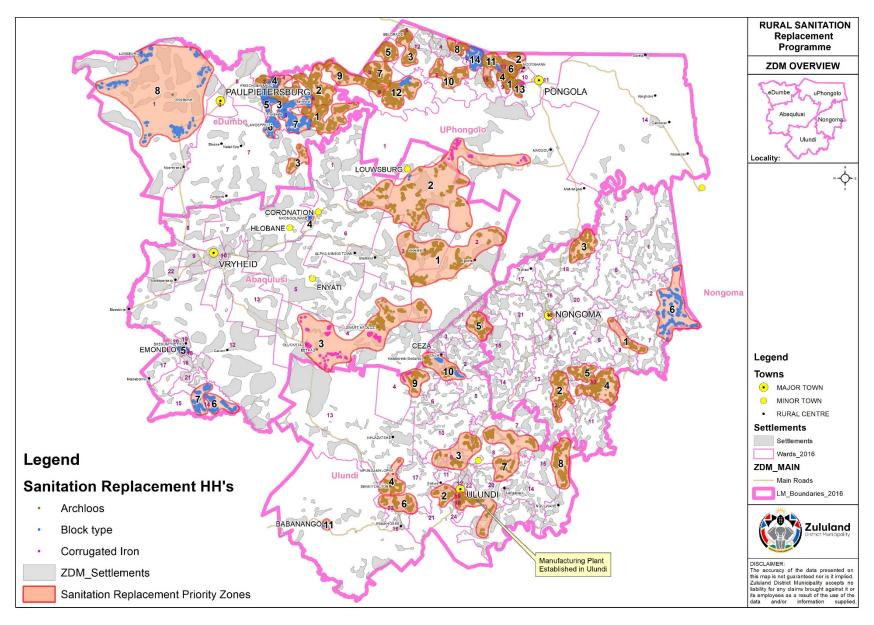


Figure A.6.15: Rural Sanitation (New infrastructure)

2025-2026 Review Section A: Page 53 of 57

Figure A.6.16: Future Rural Sanitation (Replacement Programme)



2025-2026 Review Section A: Page 54 of 57

Chapter 12: Strategic Objectives & Development Strategies

The ZDM WSDP supports the KZN PGDS Strategic Framework. WSDP goals, objectives, interventions and projects are aligned to place ZDM in a position to fulfil its role as WSA in achieving the provincial PGDS for 2035.

While the focus has been predominantly on providing each person with sustainable infrastructure and eradicating backlogs, the status of existing and aging infrastructure, as well as the availability and sustainability of water resources has been neglected.

As water provision will increase, so will water resources needs, operation and maintenance of existing infrastructure, efficient institutional and financial capacity to manage infrastructure and revenue etc. The KZN PGDS Framework aims to achieve at least 90% reliable services by 2035.

An overview of the KZN PGDS framework with associated goals and objectives for water and sanitation services can be reviewed in the next figure.

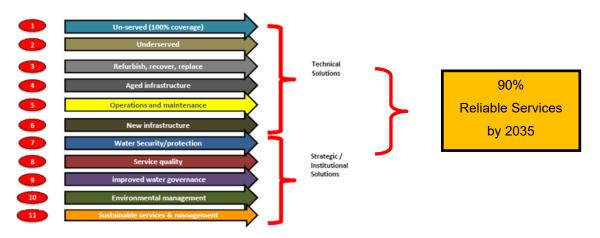


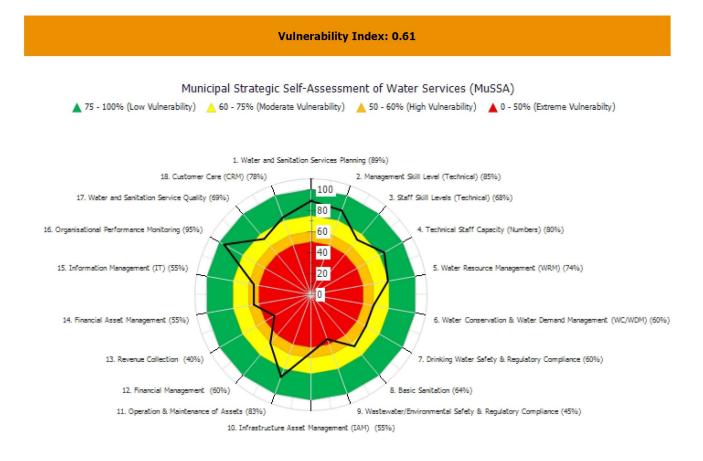
Figure A.6.17: KZN PGDS Strategic Framework

The Department of Water and Sanitation has overseen the annual use of the MuSSA to survey and assess the overall "business health" of a Municipality when fulfilling its water services function. The MuSSA asks senior municipal financial and technical managers 5 clear and relatively simple "essence" questions that cover 18 key business health attributes, and thereby generates key strategic flags (as opposed to deep technical detail, which is captured elsewhere). Responses to the questions are reflected in the MuSSA Spider Diagram which illustrates the vulnerability levels across key service areas/business attributes.

The latest MuSSA report dated 2024 for ZDM indicates a Vulnerability Score of 0.61, as opposed to the MuSSA report of 2023 which had a score of 0.52. This is 0.09% higher than the review of 2023.

2025-2026 Review Section 12: Page 55 of 57

Figure A.6.18: MuSSA Results (2024)



According to DWA, a WSA is required to provide an Action Plan for items in the MuSSA scoring that are below 50%. For the 2024 review, these include:

- Revenue Collection (40%)
- Wastewater/Environmental Safety & Regularity Compliance (45%)
- Infrastructure Asset Management (IAM) (55.0%)
- Information Management (IT) (55.0%)
- Financial Asset Management (55.0%)

The outcome for the 2024 self-assessment can be reviewed in the next two graphs. KPl's can be reviewed in the next table to track progress on each topic in the above graph.

2025-2026 Review Section 12: Page 56 of 57

| TOPIC | 2021 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 |
|--|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1. Water and Sanitation Services Planning | 100.0% | 94.0% | 89.0% | 92.0% | 95.0% | 98.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 2. Management Skill Level (Technical) | 84.0% | 90.0% | 85.0% | 90.0% | 95.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 3. Staff Skill Level (Technical) | 89.0% | 90.0% | 68.0% | 73.0% | 78.0% | 83.0% | 88.0% | 93.0% | 98.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 4. Technical Staff Capacity (Numbers) | 99.0% | 89.0% | 80.0% | 85.0% | 90.0% | 95.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 5. Water Resource Management (WRM) | 55.0% | 60.0% | 74.0% | 79.0% | 84.0% | 89.0% | 94.0% | 99.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 6. Water Conservation & Water Demand Management (WC/WDM) | 65.0% | 63.0% | 60.0% | 65.0% | 70.0% | 75.0% | 80.0% | 85.0% | 90.0% | 95.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 7. Drinking Water Safety & Regulatory Complience | 70.0% | 70.0% | 60.0% | 65.0% | 70.0% | 75.0% | 80.0% | 85.0% | 90.0% | 95.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 8. Basic Sanitation | 82.0% | 64.0% | 64.0% | 69.0% | 74.0% | 79.0% | 84.0% | 89.0% | 94.0% | 99.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 9. Wastewater / Environmental Safety & Regulatory Complience | 75.0% | 50.0% | 45.0% | 50.0% | 55.0% | 60.0% | 65.0% | 70.0% | 75.0% | 80.0% | 85.0% | 90.0% | 95.0% | 100.0% |
| 10. Infrastructure Asset Management (AIM) | 90.0% | 94.0% | 55.0% | 60.0% | 65.0% | 70.0% | 75.0% | 80.0% | 85.0% | 90.0% | 95.0% | 100.0% | 100.0% | 100.0% |
| 11. Operation & Maintanence of Assets | 80.0% | 90.0% | 83.0% | 88.0% | 93.0% | 98.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 12. Financial Management | 60.0% | 70.0% | 60.0% | 65.0% | 70.0% | 75.0% | 80.0% | 85.0% | 90.0% | 95.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 13. Revenue Collection | 40.0% | 65.0% | 40.0% | 45.0% | 50.0% | 55.0% | 60.0% | 65.0% | 70.0% | 75.0% | 80.0% | 85.0% | 90.0% | 95.0% |
| 14. Financial Asset Management | 45.0% | 55.0% | 55.0% | 60.0% | 65.0% | 70.0% | 75.0% | 80.0% | 85.0% | 90.0% | 95.0% | 100.0% | 100.0% | 100.0% |
| 15. Information Management (IT) | 94.0% | 70.0% | 55.0% | 60.0% | 65.0% | 70.0% | 75.0% | 80.0% | 85.0% | 90.0% | 95.0% | 100.0% | 100.0% | 100.0% |
| 16. Organisation Preformance Monitoring | 100.0% | 95.0% | 95.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 17. Water and Sanitation Service Quality | 89.0% | 59.0% | 69.0% | 74.0% | 79.0% | 84.0% | 89.0% | 94.0% | 99.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 18. Customer Care (CRM) | 80.0% | 64.0% | 78.0% | 83.0% | 88.0% | 93.0% | 98.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| Vulnerability Index | 0.36 | 0.52 | 0.61 | | | | | | | | | | | |

Table A.6.21: Self-assessment improvement scores for 2025

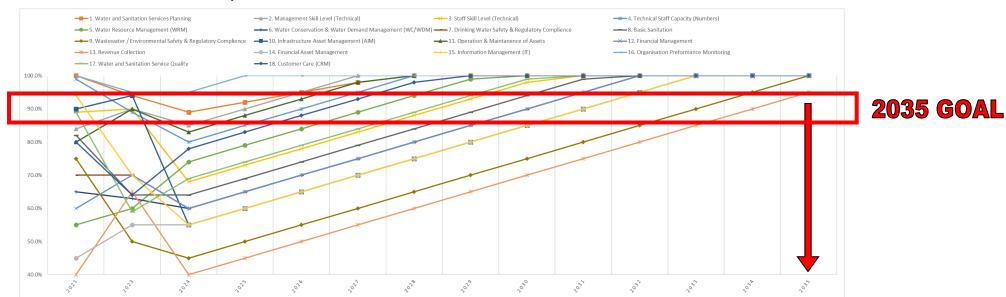


Table A.6.22: Self-assessment improvement goals for 2035

2025-2026 Review Section 12: Page 57 of 57

11. List of projects

11.1 Introduction

ZDM has the following implementation programmes in terms of water and sanitation provision:

• WATER

o Regional Water Supply Schemes

There were originally 10 back to back Regional Water Supply Schemes. Coronation is however currenlty under review to rather implement stand-alone schemes:

| NAME | STATUS QUO | |
|------------------------|--|--|
| Coronation | Masterplan under review to implement stand-alone schemes | |
| | instead of regional scheme | |
| Khambi | Scheme augmentation | |
| Hlahlindlela | Pending water source security | |
| Mandlakazi | In progress | |
| Gumbi | Scheme upgrading and augmentation planned | |
| Nkonjeni | In progress | |
| Simdlangentsha East | Planning (New Business Plan for remainder of work) | |
| Simdlangentsha Central | Planning (New Business Plan for remainder of work) | |
| Simdlangentsha West | In progress | |
| Usuthu | In progress, pending water source security | |

Each regional scheme footprint has a sustainable water source from where infrastructure is progressively being rolled out to all households within the supply area. The supply footprints have been identified in such a way that water can be provided to all households within the area in a sustainable manner and at the lowest possible cost (R/kl).

o Intermediate Stand-alone Schemes

Due to time and budget constraints with implementation of costly bulk infrastructure, ZDM has initiated an intervention to alleviate the severe water shortage in areas where a sustainable local source can be developed. These water sources will supply several settlements in the surrounding area, and will become part of the Regional Scheme infrastructure in future. Implementation will be done according to the ZDM Prioritisation Model for water services within each Regional Scheme.

Rudimentary Water Supply

In areas where settlements cannot be served in the near future by the Regional Schemes or Intermediate Schemes, local water sources will be used to provide a survival level of water on

2025-2026 Review Section 11: Page 1 of 70

a rudimentary level. Implementation is done according to the ZDM Prioritisation Model for water services.

RURAL SANITATION

Sanitation in the rural areas is being provided in the form of dry-pit VIP toilets. Implementation is done according to the ZDM Prioritisation Model for rural sanitation services.

A Rural Sanitation Replacement Programme has also been deemed neccessary in 2013 to replace the old Archloo-, Block- and Zink-type VIP's. This programme's implementation will be included in the next 5-year review of the WSDP.

• SPECIAL PROJECTS

Special projects are individual infrastructure requirements on a Local Municipal level which are addressed and budgetted for on a needs basis.

• <u>EMERGENCY INTERVENTION PROJECTS</u>

Emergency Intervention Projects are projects which require immediate intervention, such as during disaster management. Two such projects have been implemented over the past few years in ZDM, namely:

Drought Relief

Emergency drought relief funding was provided to ZDM in 2016. An amount of R37 493 000 was made available in 2016 for drought relief interventions, and a planned 7 880 households were to benefit from this funding allocation.

♦ COVID-19

Emergency interventions were immendiately put in place in ZDM during the COVID pandemic. Two task teams were deployed to plan, manage and oversee emergency interventions. More details can be reviewed at the end of this section.

• 5-YEAR WATER & SANITATION RELIABILITY SERVICE DELIVERY IMPLEMENTATION PLAN PROJECTS

These projects are assisting the municipality in providing a 5-year pipeline of projects that will ensure a 90% reliable water and sanitation service through the following 5 workstreams:

- ❖ Infrastructure
- Reliability
- ❖ Water Security
- ❖ Water Governance
- Finances

Rollout programmes for each of the above can be reviewed at the end of this section.

2025-2026 Review Section 11: Page 2 of 70

11.2 ZDM Prioritisation Models

11.2.1 Introduction to Prioritisation Models in Service Delivery

The first Water Supply and Sanitation Policy White Paper was published in 1994 and enacted as the Water Services Act, Act 108 of 1997 (dwa.gov.za, 1994). The Department of Water Affairs (DWA) had the responsibility of providing these services. A few guidelines were provided on how to implement these services, and **the primary principle is that development should be demand-driven.** The Apartheid era has left a legacy of prejudice, and it is important that the new water supply policies ensure that their implementation does not become subjective to political influence. The Water for Growth and Development Framework, published by DWA, stipulates that proper planning and resources need to be used to supply water through various programmes, such as bulk water schemes, intermediate stand-alone schemes, and survival-level of water where water scarcity is prevalent (dwa.gov.za, 2011). The water policies, however, provide little guidance about how these services should be prioritised.

The Water and Sanitation White Paper was revised in 2002 and adopted by Parliament on 17 September 2003 as the Strategic Framework for Water Services (dwa.gov.za, 2003). Some major amendments were made to the roles of the DWA and local government. DWA's function changed from being a direct delivery function to being a sector leader, supporter and regulator. The responsibility of service delivery was handed over to the local government, and each district and local municipality have to implement their own policies to manage service delivery. This includes their approach to prioritise service delivery. The prioritisation of these services is water and sanitation supply. Due to the vastness and remote characteristics of the rural areas, it is one of the most difficult aspects of service delivery that local government faces. Additional to the spatial characteristics of these areas, political influence often dictates the outcomes of service delivery planning instead of focusing on the actual water needs of rural communities.

Most District Municipalities, in the more rural areas, are the WSP's for their respective area of jurisdiction. This includes the Local Municipal areas within the District Municipal area. In the Water Services Act of 1997, it stipulates that an Integrated Development Plan (IDP) for each District Municipality should provide details on all Sector Plans required on a National level (Government Gazette, 1997). The purpose of Sector Plans is to provide details on certain aspects or roles that the District Municipalities have to adhere to, explaining their plan of action for each aspect. The Water Services Development Plan (WSDP) is the Sector Plan detailing the approach that the municipality follows for water services, and how they intend to provide water services to its users. This is part of

2025-2026 Review Section 11: Page 3 of 70

the planning purposes of the Municipality; therefore, the responsibility for compiling the WSDP usually lies with the Planning Department.

The WSDP should, therefore, detail the approach that the municipality follows for water services delivery, and the process followed to prioritise and implement these services. It is this process that should include the consultative process with all relevant stakeholders to take their views into consideration (dwa.gov.za, 2004).

This consultative process is, in many cases driven by political influence, and is prone to result in argumentative situations between ward councillors to motivate projects within their own wards.

The ward councillors fulfil the role of acting on behalf of the local people in their respective wards with their focus on a consultative and participatory process for service delivery needs. A ward councillor, therefore, has the responsibility of being a spokesperson for the ward, which entails the successful voicing of community needs to the entities providing service delivery. Due to this responsibility, it is important that the councillor ensures that community needs are being addressed. Councillors for these wards may affiliate to different political parties.

Ward councillors are, therefore, in a predicament because they compete with the other ward councillors for budget allocations. The Water Services Provider (WSA), in return, faces the following challenges:

- If ten communities from different wards do not have water services, how should the budget allocations be done and which settlement will get water services first?
- Whose viewpoint acts as the decisive when deciding where water services should be implemented?

The community with the lowest level of services in one ward may, for example, be in a better position compared to communities in other wards because it is close to a perennial river. The question remains what objective measurement can determine which community is worse-off?

Figure 1 represents a typical workflow process to approve a WSDP review:

2025-2026 Review Section 11: Page 4 of 70

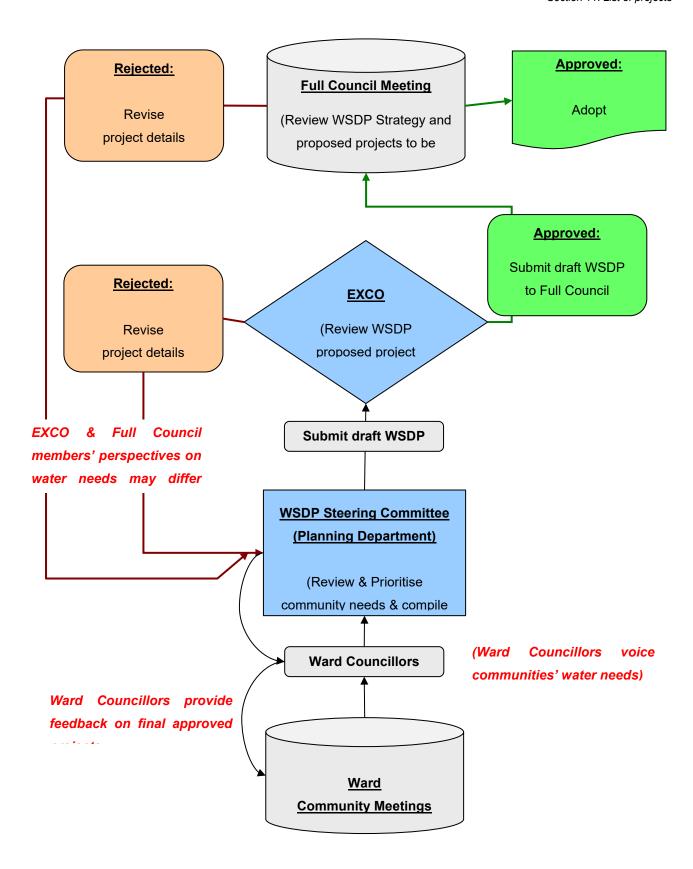


Figure 11.2.1: Typical WSDP Approval Process of a District Municipality

2025-2026 Review Section 11: Page 5 of 70

Figure 1 clearly demonstrates that an endless cycle of resubmissions may occur if the perspectives of the Executive Council (EXCO) and the councillors on water needs differ from what the WSDP Steering Committee view as priorities for water services implementation. Three factors play a dominant role in the above situation:

• Individual perceptions of their own needs

People in one location may feel that they have an urgent need for water services since they have to walk down to the river to fetch water, but another community may not even have surface water within walking distance.

• Community expectations of ward councillors

Ward councillors are voted for mainly on the expectation from the ward communities about what the councillor can do for them. This includes service delivery on various levels. Councillors, therefore, need to ensure that service delivery is taking place in their respective wards else they will lose their position as ward councillor.

Political pressure

Since multiple political parties are presented in a given municipality, it may become a tug-of-war to see which political party can do the most for their wards. This mainly consists of provision for basic services in the rural areas. Prioritisation for service delivery may, therefore, become biased to maintain favour with the ward communities.

A Prioritisation Model for water and sanitation needs resolves the above conflict situations where projects are prioritised in an objective, unbiased approach based on their most urgent need for water and sanitation services.

11.2.2 Prioritisation Methods

Several prioritisation methods exist that can be used, depending on the scenario and what the desired outcomes should be. A few of these typical methods are discussed in this section.

The National Association of County and City Health Officials (NACCHO), Washington DC, has developed the Assessment Protocol for Excellence in Public Health (APEXPH) planning tool (NACCHO, 2012). This is a flexible planning tool for health officials to address health-related issues in communities. A critical component of the Part I and Part II APEXPH processes occurs at the point where the identified issues are prioritised. Prioritising issues allows the health department and community to direct resources, time, and energy to those issues that are deemed most critical and practical to address.

2025-2026 Review Section 11: Page 6 of 70

The APEX*PH* workbook briefly mentions some of the most popular prioritisation methods, which are further described in the NACCHO document (cdc.gov, 2012). A brief summary of these methods is described next:

1 Simplex Method

The Simplex Method obtains group perceptions by the use of questionnaires. The answers to the questionnaires are scored and ranked and the issues with the highest scores are given the highest priority.

2 Nominal Group Planning Method

Nominal Group Planning was developed for situations where individual judgments must be obtained and combined to arrive at decisions which cannot be determined by one person. This strategy is best for problem exploration, knowledge exploration, priority development, program development, and program evaluation.

3 Criteria Weighting Method

The criteria weighting method is a mathematical process whereby participants establish a relevant set of criteria and assign a priority ranking to issues based on how they measure against the criteria. The calculated values do not necessarily dictate the final policy decision, but offer a means by which choices can be ordered.

4 A "Quick and Colorful" Method

This technique uses a means whereby individual group members vote to prioritise each health problem. A ballot or open method can be used.

The document further provides a summary of the positive and negative aspects of each method in Table 11.2.1.

2025-2026 Review Section 11: Page 7 of 70

Table 11.2.1: Prioritisation Methods

| PRIORITIZATION TECHNIQUES | Strengths | Weaknesses | Optimal size of group |
|---|---|--|--|
| Simplex | Efficient and quick to use, once questionnaire is constructed. Can be used with any size group. Allows for weighting of problems. | Requires the development of a questionnaire. Relies heavily on how questions are asked. | Any size. |
| Nominal Group Planning | Motivates and gets all participants involved. Can be used to identify areas for further discussion and can be used as part of other techniques (e.g., to help develop a Simplex questionnaire.) Allows for many ideas in a short period of time Stimulates creative thinking and dialogue. Uses a democratic process. | Vocal and persuasive group members can affect others. A biased or strong-minded facilitator can affect the process. Can be difficult with larger groups (more than 20-25) May be overlap of ideas due to unclear wording or inadequate discussion. | 10-15 (larger groups can be broken down into subgroups.) Not <6. |
| Criteria Weighting | Offers numerical criteria with which to prioritize. Mathematical process (this is a weakness for some.) Objective; may be best in situations where this is competition among the issues. Allows group to weight criteria differently. | Can become complicated. Requires predetermining criteria. | Any size. |
| Hanlon (described in the APEX <i>PH</i> Workbook, pp 23 24 and Appendix E) | PEARL component can be a useful feature. Offers relatively quantitative answers that are appealing for many. Baseline data for issues can be used for parts; this can be appealing due to the objectivity of the data. | The process offers the lowest priorities for those issues where solution requires additional resources or legal changes which may be problematic. Very complicated. | Any size. |
| A "Quick and Colorful" Approach | Simple. Well-suited to customizing. Blinded responses prevent individuals influencing others. Less time intensive. | Less sophisticated (may be a benefit for some groups). Doesn't offer the ability to eliminate options that may be difficult to address given current laws and resources. If open voting is used, participants may be influenced by others' votes. | Any size. |

The document concludes with the following statement:

"By using formalized techniques, such as those described here, groups have a structured mechanism that can facilitate an orderly process. Such a process also offers a common starting point that groups can alter to suit their own specific needs. Whatever technique is used, it is important to keep in mind that the reason prioritization is undertaken is to include input from all interest groups. Therefore, it is vitally important to include the community when defining criteria."

The theoretical foundation of the expected outcomes and results of a prioritisation model is that the level of urgency or the need for water ans sanitation supply to rural communities can be determined by establishing the existing form of water access.

It should be possible to assign a "water and sanitation needs" value to the various aspects and characteristics of each settlement related to water and sanitation access. A total score can then be

2025-2026 Review Section 11: Page 8 of 70

assigned to each settlement, which represents their urgency or need for water and sanitation services.

The higher the score, the higher the priority of the project for implementation.

The most appropriate prioritisation technique for water and sanitation services in the South African rural context proves to be the Criteria Weighting method, and has been used successfully in various local government institutions to prioritise service delivery.

11.2.3 ZDM Prioritisation Models for Service Delivery

ZDM has initiated prioritisation models for water and sanitation implementation since 2002. The purpose of the prioritisation models are to prioritise settlements and project implementation in an un-biased, objective way. Current Prioritisation Models include:

- 1 Regional Scheme Rollouts
- 2 Intermediate Stand-Alone Schemes
- 3 Rudimentary Water Supply Rollouts
- 4 Rural Sanitation Rollouts
 - 4.1 New Infrastructure
 - 4.2 Phase 3 Replacement Programme (TBA)
- 5 Budget Allocation Model

The Prioritisation Models are based on a weighted criteria method, whereby criteria for each model is given a weight, which counts up to a total score of 100. The highest score implies the highest priority for implementation.

11.2.4 Water Implementation Model

For water implementation on a rudimentary as well as regional level, the weighted criteria is based on specific characteristics of each settlement within ZDM. Where water needs to be provided to individual settlements, the settlements' individual prioritisation score is used to prioritise implementation.

Where larger areas are involved with several settlements grouped together, eg. within regional bulk reservoir zones, the average score of all settlements within each zone is calculated. This is then used as a zoning score to prioritise zones. The scoring criteria can be seen below:

2025-2026 Review Section 11: Page 9 of 70

Table 11.2.2: Scoring criteria for water implementation

| FACTOR | CRITERION | VALUE | WGHT |
|---|---|-------|------|
| Existing Primary Water Source | Urban & RWSS (with Bulk, Secondary Bulk, Retic) | 0 | 30 |
| , | RWSS (with Bulk, Secondary Bulk) | 0.25 | |
| | RWSS (only Retic) | 0.5 | |
| | CWSS/Stand alone | 0.5 | |
| | Potable BH/Spring/H.Pump | 0.75 | |
| | Unprotected Surface Water (River/Dam etc) | 1 | |
| Project Cost / Capita | > R 40,000 | 0.2 | 15 |
| Project Cost / HH | R30,000 - R40,000 | 0.4 | |
| • | R20,000 - R30,000 | 0.6 | |
| | R10,000 - R20,000 | 0.8 | |
| | < R10,000 | 1 | |
| Walking Distance to Water | < 1 km | 0 | 20 |
| | 1 – 3 km | 0.7 | |
| | > 3 km | 1 | |
| Within 4 km of a Dev. Corridor/RSC | Primary / Service Centre | 1 | 5 |
| | Secondary | 0.75 | |
| | Tertiary | 0.5 | |
| | None | 0 | |
| Existing Sanitation | Less than 5% | 1 | 5 |
| | 25% | 0.75 | |
| | 75% | 0.25 | |
| | More than 95% | 0 | |
| Existing Use / Level of Service | Nothing (> 3km walking) | 1 | 15 |
| | Survival (< 3km walking) | 0.75 | |
| | Rudimentary | 0.5 | |
| | <u>></u> RDP | 0 | |
| Linkages to other projects< (supplyable) | Yes | 1 | 5 |
| All settlements within 5km of existing Regional | No | 0 | |
| Scheme Layouts | | | _ |
| History of Water Borne Disease | Yes | 1 | 5 |
| | No | 0 | |
| | | Total | 100 |

11.2.5 Rural Sanitation Implementation Model

Rural sanitation implementation is based on the same principle as with water, however different criteria and weights are used to address specific rural sanitation needs. Two prioritisation models are used for sanitation implementation:

Phase 1, 2 and 3 (New projects)

These phases provide sanitation to settlements having not received any form of sanitation from previous sanitation projects.

• Phase 4 (Replacement Programme)

Phase 4 will be initiated after completion of the current remaining settlements without sanitation services have been completed. This project will replace old VIP-type structures, especially the Archloo-type structures which have proofed to have a very short lifespan. Old VIP-types such as block- and zink-type where pits are full and the top structure cannot be moved to a new location will also be replaced.

The scoring criteria for both these two programmes can be seen below:

Table 11.2.3: Phase 1 and 2 scoring criteria for rural sanitation implementation

| FACTOR | CRITERION | VALUE | WEIGHT |
|---|--|-------|--------|
| Water Implementation | Catch-up | 1 | 40 |
| water implementation | • | • | 40 |
| | Current Water Implementation (2008-2014) | 0.5 | |
| | , | 0 | |
| | Future Water Projects | 0 | |
| Distance to downstream | <50m | 1 | 25 |
| open groundwater | 100m | 0.6 | |
| (Pollution potential) | 250m | 0.4 | |
| | 500m | 0.2 | |
| | >500m | 0 | |
| Settlement density | > 10 | 1 | 15 |
| in relation to HH count. | 5 - 9.99 | 0.6 | |
| (Susceptability to diseases) | 2 - 4.99 | 0.4 | |
| , , , | 1 - 1.99 | 0.2 | |
| | <1 | 0.1 | |
| Settlement type | Urban Fringe | 1 | 10 |
| (Susceptability for diseases to surrounding urbanised | Peri-urban | 0.5 | |
| area) | Rural | 0.1 | |
| | V | | 40 |
| Rural Development Nodes | Yes | 1 | 10 |
| Development Corridors Service | No | 0 | |
| Centres | | | |
| | | Total | 100 |

Table 11.2.4: Phase 3 scoring criteria for rural sanitation implementation

| FACTOR | CRITERION | VALUE | WEIGHT |
|---|------------------|-------|--------|
| | 76-100% | 1 | 35 |
| Existing households not covered by previous | 51-75% | 0.67 | |
| project | 26-50% | 0.33 | |
| | 0-25% | 0.01 | |
| | Archloo | 1 | 25 |
| Sanitation Top Structure Type | Zink | 0.67 | |
| Samtation Top Structure Type | Block | 0.33 | |
| | Pre-cast | 0.01 | |
| | Need replacement | 1 | 20 |
| Condition | Need repairs | 0.5 | |
| | New | 0.01 | |
| | <2000 | 1 | 5 |
| Year built | 2001-2006 | 0.5 | |
| | >2007 | 0.01 | |
| | High | 1 | 15 |
| Sattlement density | Medium | 0.6 | |
| Settlement density | Low | 0.3 | |
| | Very low | 0.01 | |
| | • | Total | 100 |

11.2.6 Budget Allocation Model

The annual funding allocations are split proportionally between the various implementation programmes for ZDM. Each implementation programme area is allocated a percentage in proportion to the overall budget requirement for eradicating the total backlog in that particular category of infrastructure projects.

Due to backlogs being eradicated continuously, these percentages are revised on an annual basis to ensure that the allocations reflect the revised backlogs for a particular programme and area.

2025-2026 Review

11.3 Project Details

11.3.1 Regional Schemes

The ten Regional Water Supply Schemes require the largest portion of external funding due to costly bulk infrastructure. Due to this, ZDM augment the bulk reservoir zones with intermediate stand-alone schemes as well as survivial-level rudimentary water supply. Each rollout is prioritised as described above.

Since the master planning was done for the regional schemes, ZDM has experienced some unique challenges concerning the sustainability of the water sources to be used for the regional schemes. Land reform areas have seen an unexpected high household growth in certain areas, which increased the water demand for regional schemes drastically. Critical issues related to the above have been identified for each regional scheme, and project progress and interventions to these issues are discussed in more detail below.

11.3.1.1 Nkonjeni

Background

The Nkonjeni regional scheme is in the privileged position of having a well-developed and sustainable water source. Therefore the bulk of the available funding can be applied towards the progressive roll-out of water services to the respective communities.

Key Issues and Interventions

The sustainability of the scheme is threatened by water losses in existing networks and excessive water usage from unmetered consumers. A water audit was done in 2006 (Ulundi Water Audit – October 2006) that indicated the inefficiency of water usage in Ulundi town to be 68% of the volume of water put into the system. ZDM has initiated a waterloss management programme where these waterlosses are systematically been addressed.

Due to limited spatial information that was available for planning purposes at the start of the Regional Schemes, the area around Babanango was not covered initially under Nkonjeni Regional Scheme. During 2008 a demographic verification process was done which allowed ZDM to identify existing settlements footprints in the Babanango area. A business plan was submitted to DWA and MIG in 2009 which included these settlements under MIG funding, and implementation of water supply is completed. In the long-term planning it is proposed to provide Babanango and surrounding areas with sustainable water supply from Mpungamhlope WTW.

• External Support

Funding for Nkonjeni Regional Scheme is provided through MIG.

2025-2026 Review Section 11: Page 12 of 70

11.3.1.2 Usuthu

Background

The Usuthu Regional Scheme is the largest water supply scheme in the district and also represents the biggest portion of the total backlogs. The scheme required the development of a new water source from the Black Mfolozi river and expensive bulk infrastructure to be rolled out over vast distances to scattered rural communities.

Key Issues and Interventions

The biggest challenge with this scheme is the funding of the enormous capital investment for bulk services that is required. ZDM has aquired additional DWA funding to fast-track the implementation of bulk services for this scheme via RBIG funding.

The huge capital investment required eradicating the backlogs through the regional scheme infrastructure and the resulting slow progress with the roll-out of services requires an intermediate solution to be developed to alleviate immediate water supply needs. The existing rudimentary supply programme, whereby local groundwater sources are developed within 800m walking distance from households, was hampered in Usuthu area due to difficulty in finding reliable and good quality water sources close to communities. ZDM has initiated intermediate, stand-alone water schemes to address the delay in providing reticulation to communities. These intermediate schemes are developed from production boreholes where available, and are designed in such a way that they can easily be integrated into the bulk services network in future.

The sustainability of the main water source of Nongoma town is under severe strain and not sustainable during drought periods. The installation of a bulk pipeline from the Black Mfolozi river to Nongoma has been completed to address this issue. The internal bulks for Nongoma town have also been upgraded to augment the existing water supply. An off-storage dam near the Usuthu WTW is planned that will provide sustainable water during periods of drought.

Nongoma town frequently experiences intermittent water supply to consumers and businesses, even outside of drought periods. Excessive water usage by unmetered consumers and high water losses contribute to the problem. A water loss study conducted in 2003 indicated that unaccounted water supply in Nongoma was in excess of 41%. A waterloss and water demand strategy is in progress as part of the Usuthu Regional Scheme planning.

External Support

Funding is provided by MIG as well as RBIG (Bulks).

2025-2026 Review Section 11: Page 13 of 70

11.3.1.3 Mandlakazi

Background

The Mandlakhazi Regional Scheme represents the second largest supply area in the district and also the second biggest portion of the total backlogs of the municipality. There are no towns in the supply area and the communities are sparsely scattered and vast distances apart. The provision of water services to all communities are therefore extremely expensive and will take a long time to conclude.

Water supply problems in the neighbouring Hlabisa area has resulted in a change of priorities and the construction of a bulk supply pipeline to supply the eastern side of Mandlakazi and eventually reach the Hlabisa communities.

The scheme is supplied with raw water from a privately-owned dam outside of the Zululand municipal area. The dam is supplied by the owner from the Pongolapoort Dam, which is a very reliable water source. Bulk water supply agreements are in place with the owner and the supply is secured. ZDM has however obtained an individual allocation and raw water abstraction permit from DWA for abstraction from the Pongolapoort Dam for long-term sustainability. Funding from RBIG was obtained to fast-track the implementation, and implementation of this is in progress.

Key Issues and Interventions

The Mandlakazi area is also in need of an intermediate solution to accelerate the provision of services to households until the regional scheme bulk infrastructure can eventually reach all the communities. Drought problems are frequent in the area and the rudimentary programme has limited success in finding sustainable and potable local sources. However, success has been achieved in some areas for good production boreholes and this will be developed as intermediate stand-alone schemes which will be integrated into the regional scheme in future.

External Support

The regional scheme is funded by MIG as well as an allocation from RBIG to accellerate the implementation of the bulk services.

2025-2026 Review Section 11: Page 14 of 70

11.3.1.4 Gumbi

Background

The Gumbi Regional Scheme (formerly referred to as Mkhuze) comprises of mostly formal farm areas and a small number of sparsely scattered rural communities. The construction of a single regional scheme to supply the entire footprint is not feasible, but rather individual schemes from local sources.

Key Issues and Interventions

An existing land reform project at the Gumbi settlement has resulted in a dramatic influx of families that settled without any water or sanitation infrastructure being in place. This resulted in the construction of an emergency supply from the neighbouring Pongolapoort Dam. This project is completed. The abstraction point at the dam is however not ideal and in future a second abstraction point from a more ideal position is planned.

There is huge potential for economic development on the western side of the Pongolapoort Dam but abstraction on that side of the dam is unfortunately very difficult. Groundwater sources in the area are also of poor quality and insufficient yield to sustain large scale development.

• External Support

Funding is provided by MIG.

11.3.1.5 Simulangentsha East

Background

The Simdlangentsha East Regional Scheme is a well-served area and consists of the lowest backlogs in the district. The scheme supplies Pongola town as well as a vast rural area. Water is abstracted from irrigation channels next to the Pongola river and with an emergency supply that is available further down at the Pongola river. The irrigation channels are managed by DWS and the supply is mostly reliable, except when the channels are closed for maintenance. ZDM also pays DWS a raw water charge for water abstracted from the channels.

Key Issues and Interventions

Water supply in the rural areas is under severe pressure with frequent interruptions to the supply. Excessive water usage and high waterlosses due to illegal and unmetered connections are the main contributors to the problem. Apart from the above problems the bulk infrastructure is also in need of upgrade as a result of population growth since the inception of the scheme. The challenges on the scheme therefore require a combination of water demand management interventions and the upgrade of bulk infrastructure to address the long-term sustainability of the scheme. The waterloss

2025-2026 Review Section 11: Page 15 of 70

managagement programme initiated by ZDM is addressing this at present, and the upgrading of the existing bulk infrastructure for the southern part of the scheme is in progress.

Pongola town has experienced significant development over the recent years and this was hampered by especially the absence of waterborne sanitation throughout the town. There is a need to compile a sewerage master plan for the area and plan upgrade requirements systematically.

External Support

Funding is provided by MIG.

11.3.1.6 Simulangentsha Central

Background

The planning of the Simdlangentsha Central scheme is complete and the first phases of the bulk infrastructure have been completed. The project also requires a substantial investment in bulk infrastructure before communities will be reached with water supply. The area is however quite well served with localised schemes from local sources. The challenge is to keep these schemes operational until the bulk scheme can reach all the areas.

• Key Issues and Interventions

The Simdhlangentsha East Regional Scheme experienced water pressure problems, and the Simdhlangentsha Central Regional Scheme is used to augment water supply to these settlements.

The Simdlangentsha Central scheme contributes a small portion to the total backlogs of the ZDM and therefore also receives a small portion of the available capital funds, although a substantial capital investment is still required to provide the necessary infrastructure.

Although the area is generally well-served, all schemes are old and the regional scheme planning will include infills to provide water to additional households. A new WTW is planned that will eventually replace the package plants at Belgrade.

External Support

Funding is provided by MIG.

2025-2026 Review Section 11: Page 16 of 70

11.3.1.7 Simdlangentsha West

Background

Simdhlangentsha West Regional Scheme mainly consists of rural areas to the east of Paulpietersburg town. The area is generally well-served although existing networks are old and infills and waterloss management is required.

The current capacity of the rising main line from the existing weir in the Pongola River to the existing Water Treatment Works at Frischgewaagd Township is 2ML/day (Supplies Frischgewaagd and Mangosuthu with raw water), and the current capacity of the existing Water Treatment Works at Frischgewaagd town is 3Ml/day. New networks were installed at Frischgewaagd during 2007/2008. and the water demand was reduced from the maximum possible supply of 2ML/day to 0.7Ml/day. The balance of the water (1.3ML/day) is consumed by Mangosuthu (with only 20% of the population of Frischgewaagd). A new Water Treatment Works and rising main line from the Pongola river to Frischgewaagd have been constructed. Bulk infrastructure will be constructed to link up all the existing stand-alone schemes to provide sustainable water throughout the regional scheme.

Key Issues and Interventions

High waterlosses are evident, especially in the Mangosuthu area. ZDM has addressed this issue and the construction of new networks at Mangosuthu is completed. Construction includes metered yard connections and consumers are restricted to 200 litres per household. Consumers will be able to register for a higher level of service, but will be billed for the balance. A Water Demand study is also planned to assess the entire regional scheme area.

In the near future Frischgewaagd will also be restricted to 200 litres per day, with the option to register and pay for a higher level of service.

The biggest challenge is to obtain funding for the proposed bulk infrastructure, and other funding sources will be required to fast-track the construction of bulk infrastructure. Construction of bulk services are in progress from Frischgewaagd WTW to Tholakela WTW.

External Support

Existing funding is provided by MIG.

2025-2026 Review Section 11: Page 17 of 70

11.3.1.8 Khambi

Background

The Khambi Tribal Authority area is well-served with several small stand alone schemes. (Esihlengeni, Kwamakweshe, Ngenetsheni, Cibilili and Ntumbane Community Water Supply schemes). Not all of these schemes however have had a sustainable water source. The clinic at Ntumbane is often without water during the dry winter periods.

A weir was constructed in the KwaMthazi River and a new water treatment works was constructed. This supplies water to the Khambi Tribal Authority and the integration of all the stand-alone schemes to this bulk service is completed.

Key Issues and Interventions

The long-term planning was to supply water from the Coronation Dam to the Khambi area, but an indepth study by ZDM concluded that the Coronation Dam will not be a sustainable solution for the long-term additional demand, and the cost per capita would be too high. A new sustainable local source with a new rising main was recently completed that will provide more sustainable water to the WTW.

• External Support

Funding is provided by MIG.

11.3.1.9 eMondlo/Hlahlindlela

Background

The eMondlo area is well-served with existing stand-alone schemes. eMondlo town receives water from the Mvunyane dam. These existing sources are however not sustainable for future use, and will receive water in future from the Klipfontein dam situated next to Vryheid town. Mvunyane dam is silted up to such an extent that it is no longer a sustainable source for eMondlo town.

Key Issues and Interventions

During 2000 a new water reticulation network at eMondlo A and B was installed in order to lessen the water losses from 12 Ml/day to 4 Ml/day. The eMondlo water treatment works can supply 8 Ml/day. This meant that 4 Ml/day would have been available towards the settlements surrounding eMondlo A and B after the installation of the new networks. Networks were installed at these settlements and connected to eMondlo A and B. The old network at Emondlo A and B was never decommissioned and expected savings of 4Ml/day never realised. The residents of eMondlo also connected the new network to the old network with pipes in their yards.

The eMondlo water treatment works has been refurbished and upgraded to supply 12Ml/day, but the water demand has grown from 8Ml/day in 2000 to 16 Ml/day currently. With the refurbishment completed

there is still a shortfall of 4 MI/day. The existing rising main line from Mvunyane Dam to eMondlo Water Treatment works can furthermore only supply 12 MI/day.

The above issues will all be addressed with the bulk services implementation through the Hlahlindlela Regional Scheme. In future water will be supplied from Klipfontein Dam to Vryheid Water Treatment works. Water will then be pumped from the Vryheid Water Treatment works to Hlahlindlela (including eMondlo Township). A regional water supply assessment was done during 2015 providing several recommendations to cater for the Hlahlindlela water demand. The most feasible option was to raise the Klipfontein Dam wall to provide more storage during the dry winter months. This is in progress by DWA.

AbaQulusi as the WSP for urban areas has initiated a waterloss programme at eMondlo B. This is crucial towards the sustainability of water supply to the area. In addition to this, ZDM has allocated funding for the remaining Emondlo B as well as eMondlo A to resolve excessive waterlosses experienced in these two areas. The implementation of the remaining scope of works for the regional scheme is pending on water security from Klipfontein dam.

External Support

Funding is provided by MIG.

11.3.1.10 Coronation

Background

The Coronation Regional Scheme consists of a few small and isolated towns and a number of scattered and very isolated rural settlements within formalised farm areas.

Key Issues and Interventions

The towns have a high level of service but the infrastructure is very old and urgent refurbishment is required in most cases. The Coronation scheme however is a small contributor to the total backlogs of the district and receives a small portion of the total capital funds. Refurbishment needs are competing with new infrastructure requirements for limited available funds. There is a need for refurbishment funding over and above funding for the eradication of backlogs.

The original planned regional scheme is currently under revision. The Coronation dam is not sustainable to supply Khambi Regional Scheme with additional water, and bulk services to the rural scattered settlements of Coronation area will be too costly to supply from a bulk infrastructure network. A revised Master Plan is currently in progress whereby stand-alone schemes from local sustainable sources will be developed to cover as many settlements as possible. Khambi Regional Scheme will also receive additional water needed from local sustainable sources.

2025-2026 Review Section 11: Page 19 of 70

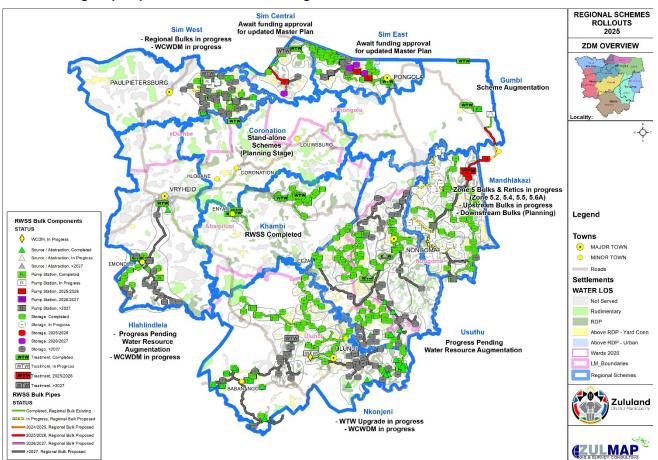
The town of Louwsburg within the Coronation regional scheme area have a water resource challenge that will not be easy to solve. The existing dam has a limited catchment and groundwater is difficult to find due to the locality of the town. Any possible solutions will be very costly and there is insufficient funding at this stage to address the issue. The town is also in need of waterborne sewage, but the water problems receive a higher priority at present.

A revised Master Plan for Coronation is in progress to assess local water sources for stand-alone schemes in areas where no sustainable water is present.

External Support

Funding is provided by MIG.

The following map depicts the rollouts of the regional schemes:



2025-2026 Review Section 11: Page 20 of 70

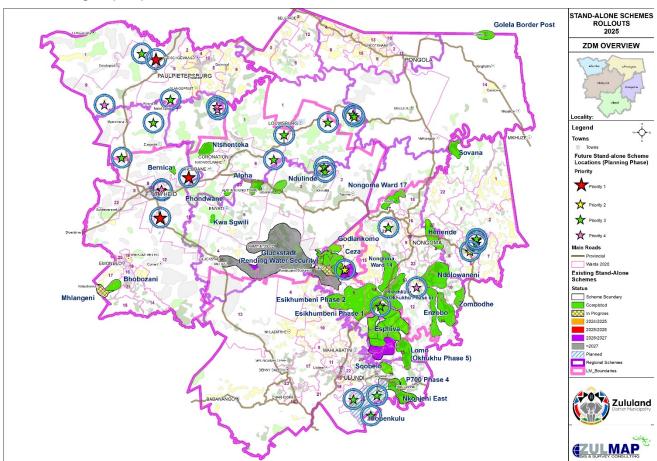
11.3.2 Intermediate Stand-alone Schemes

Due to time and budget constraints with implementation of costly bulk infrastructure, ZDM has initiated an intervention to alleviate the severe water shortage in areas where a sustainable local source can be developed. These water sources will supply several settlements in the surrounding area, and will become part of the Regional Scheme infrastructure in future.

New production boreholes are continuously been identified under the Rudimentary Programme, and if suitable, an intermediate stand-alone scheme will be designed around these production boreholes.

Implementation are done according to the ZDM Prioritisation Model for water services within each Regional Scheme.

The following map depicts the rollouts of the current intermediate stand-alone schemes:



2025-2026 Review Section 11: Page 21 of 70

11.3.3 Rudimentary Water Supply

In areas where settlements cannot be served in the near future by the Regional Schemes or Intermediate Schemes, local water sources will be used to provide a survival level of water on a rudimentary level. Implementation is done according to the ZDM Prioritisation Model for water services. Through the rudimentary programme production boreholes are also identified for possible implementation of stand-alone schemes.

WSDP ROLLOUTS Rudimentary Water 2025 ZDM OVERVIEW PONGOLA AbaQulusi Legend Legend Wards 2020 **Rudimentary Rollout** Main Roads I M Boundaries SERVED In Progress Zululand 2025/2026 2026/2027 >2027

The following map depicts the rollouts of the rudimentary programme:

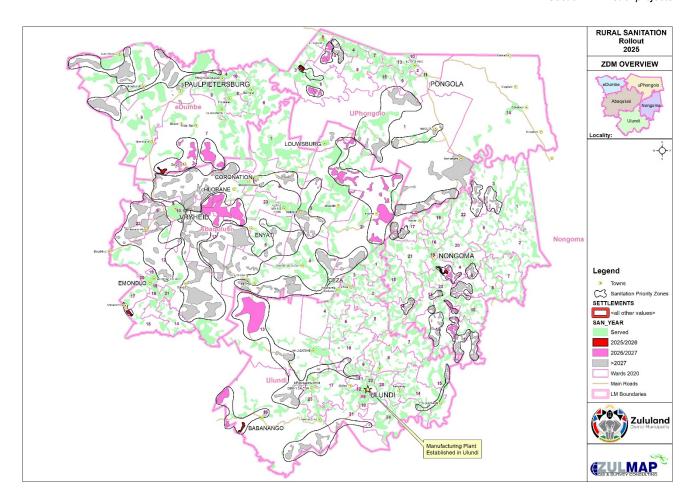
11.3.4 Sanitation Services

Sanitation in the rural areas is being provided in the form of dry-pit VIP toilets. Implementation is done according to the ZDM Prioritisation Model for rural sanitation services.

A Rural Sanitation Replacement Programme has also been deemed neccessary in 2013 to replace the old Archloo-, Block- and Zink-type VIP's. This programme's implementation will commense after the current outstanding settlements have been served.

The following map depicts the rollouts of the sanitation programme:

2025-2026 Review Section 11: Page 22 of 70



11.3.5 Emergency Intervention Projects

Emergency Intervention Projects are projects which require immediate intervention, such as during disaster management. Two such projects have been implemented over the past few years in ZDM, namely:

❖ Drought Relief

Emergency drought relief funding was provided to ZDM in 2016. An amount of R37 493 000 was made available in 2016 for drought relief interventions, and a planned 7 880 households were to benefit from this funding allocation.

A summary of the interventions can be seen in the next table.

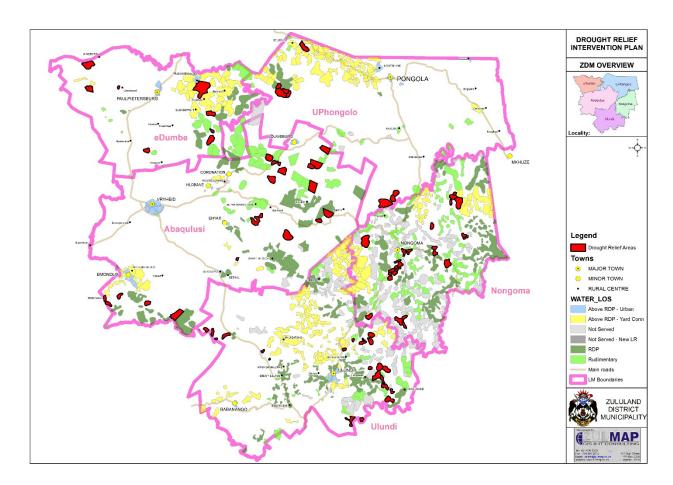
2025-2026 Review Section 11: Page 23 of 70

| Municipal Name | Spring Protection | Water Tankers rental (6 months' period) | Boreholes Drilling and equipping | functioning Schemes |
|----------------|----------------------|--|-------------------------------------|---------------------|
| | Qty | Qty | Qty | Qty |
| Abaqulusi LM | 4 | | | |
| | | 1 | | |
| | | | 14 | |
| | | | | 1 |
| Nongoma LM | 2 | | | |
| | | 2 | | |
| | | | 27 | |
| | | | | 3 |
| | | | | |
| uLundi LM | 2 | | | |
| | | 2 | | |
| | | | 18 | |
| | | | | 2 |
| | _ | | | |
| eDumbe LM | 6 | 1 | | |
| | | 1 | 8 | |
| | | | | |
| uPhongolo LM | 4 | | | |
| | | 1 | | |
| | | | 10 | |

The town of Vryheid was forced to rely on water tankers and water points at designated borehole and water tank points. Since then dam levels have normalised again but it is clear that the greater Vryheid region is in urgent need for major interventions in terms of sustainable water during dry winter months. From the regional water demand study that was conducted in 2015, the most effective recommendation was to increase the Klipfontein dam level with approximately 1 meter to increase capacity. Implementation of this is however unclear.

The present status of ZDM is satisfactory, but water use and dam levels are closely monitored.

2025-2026 Review Section 11: Page 24 of 70



♦ COVID-19

South Africa is currently in lock-down due to the COVID-19 epidemic. Emergency interventions were immendiately put in place in ZDM, with 2 task teams deployed to plan, manage and oversee emergency interventions.

Two task teams, namely the ZDM Techincal Task Team and the ZDM Command Council was established, which are represented by ZDM and it's local municipalities' management delegates, MEC, the SADF, SAPS and Dept. of Health. These task teams meet bi-weekly where feedback and planning are discussed.

The COVID-19 pandemic accelerated the need for emergency interventions and as a result the municipality was required to expand the programme to include additional vulnerable communities.

The emergency water supply interventions include water provision through static tanks and water tankers. These interventions are implemented throughout the district, in each of the five Local Municipalities. Water tankers operate on fixed routes and pre-approved water supply rosters, which determine when each community will receive water. The aim is to supply each community at least once a week.

The table below shows the full contingent of water tankers operating in the distribution per LM's:

2025-2026 Review Section 11: Page 25 of 70

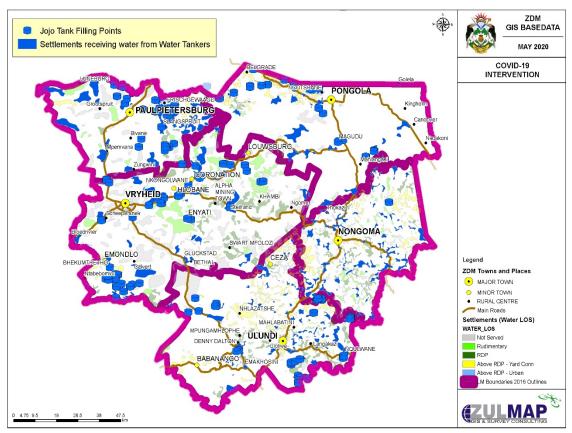
| Local Municipality | Total | Hired | ZDM | Rand Water | COGTA | LM's |
|--------------------|-------|-------|-----|---------------|-------|------|
| Ulundi | 22 | 18 | 3 | 1 | | |
| Nongoma | 11 | 10 | | 1 | | |
| eDumbe | 9 | 7 | 1 | | 1 | |
| Abaqulusi | 15 | 12 | | 1 | 1 | 1 |
| uPhongolo | 10 | 8 | | 2 | | |
| | 67 | 55 | 4 | 5 | 2 | 1 |

The majority of the water tankers are hired and operated by external Service Providers, under the supervision of ZDM technical personnel. ZDM water tanker supervisors accompany the water tanker drivers to ensure that the supply routes are adhered to and water is delivered where intended, in accordance with the water supply roster. ZDM also contributed four water tankers from our own fleet towards the programme.

The Department of Water and Sanitation, through Rand Water, contributed an additional five water tankers to the district for the duration of the pandemic. COGTA also contributed two water tankers, albeit directly to the eDumbe and Abaqulusi LM's. These water tankers are being controlled by the respective LM's. Abaqulusi LM also contributed a water tanker from their own fleet.

COGTA made available 50 x 2 700L static tanks during April 2020, and also distributed static tanks directly to certain Local Municipalities.

A map depicting settlements benifitting from the water tanker water supply as well as positions of current Jojo tanks can be reviewed in the map sbelow.



2025-2026 Review Section 11: Page 26 of 70

ZDM has also assisted with the provision of emergency sanitation facilities in some areas, as part of the COVID-19 intervention programme. Temporary sanitation facilities have been provided at the following places, to assist with the COVID-19 prevention measures:

- uPhongolo taxi rank (2 units)
- Mavalane road block (4 units)

ZDM has, in response to Circular 11 of 2020, issued by the Department of Cooperative and Traditional Affairs on 1 April 2020, reprioritised the MIG and WSIG capital programmes to make funding available for Covid-19 interventions. ZDM reprioritised R15m from the WSIG and R20m from the MIG allocations towards this programme.

The WSIG Business Plan for the approval and re-prioritisation of R15m funding was also approved. The aim of this programme was to refurbish existing non-functioning water schemes and provide additional handpumps as an emergency intervention for water supply to communities.

11.3.6 5-YEAR WATER & SANITATION RELIABILITY SERVICE DELIVERY IMPLEMENTATION PLAN PROJECTS

These projects are assisting the municipality in providing a 5-year pipeline of projects that will ensure a 90% reliable water and sanitation service through the following 5 workstreams:

- ❖ Infrastructure
- ❖ Reliability
- ❖ Water Security
- ❖ Water Governance
- Finances

2025-2026 Review Section 11: Page 27 of 70

11.4 Project Rollouts

11.4.1 Regional Water Supply Schemes

11.4.2 Intermediate Stand-alone Schemes

11.4.3 Rudimentary Water Supply

11.4.4 Sanitation Rollouts

11.4.5 5-Year Water & Sanitation Reliability Service Delivery Projects

2025-2026 Review Section 11: Page 28 of 70

Table 11.4.1: Roll-out of Regional Water Infrastructure

2025-2026 Review Section 11: Page 29 of 70

| | | | | REGIONA | L SCHEME RO | LLOUTS | 3 | |
|-----|------------------------|--|-------------------|---|---------------------------------|-------------------|---------------|--|
| LM | Reg. Scheme | FIN. YEAR | Wards | Infrastructure Type | Size or Number of households | LENGTH or SIZE | Settlement ID | Description or Settlement Name |
| | Coronation | Business Plan In Progress | 1,2,3,5,6,7,13,23 | Bulks & Retics | | | | Coronation Regional Scheme Masterplan - Stand-alone Schemes |
| | Hlahlindlela | In Progress | 18,20 | WCWDM | | | Town16a | eMondlo Town water conservation & demand management |
| | Hlahlindlela | In Progress | 14,15,21 | Reticulation Upgrade | 40.054.181 | | | Drilling & equipping of 10 boreholes with associated reticulation network |
| 1 | Hlahlindlela Khambi | Revised Business Plan in Progress Completed | TA 3 | Bulks & Secondary Bulk Connection Khambi RWSS Augmentation | 16 051 HH | | | Remaining Regional Bulks & Secondary bulk connections to all existing stand-alone schemes New Production BH, rising main to existing Khambi WTW. |
| | Khambi | Completed | 3 | Settlement Reticulation | | 26 | ZNEW30 | Kewulane |
| | Khambi | Completed | 3 | Settlement Reticulation | | | ZNEW31 | Ndulinde |
| | Coronation | Business Plan In Progress | 7 | Bulks & Retics | | | ZIVEVVOI | Coronation Regional Scheme Masterplan - Stand-alone Schemes |
| l 1 | Sim West | Completed | 4 | Treatment | 10ML | | | Phase2 10ML to Sim West |
| 1 | Sim West | Completed | 4 | Bulks | | | | Raw Water Abstraction, Booster P/S & Rising Main to Frishgewaagd. |
| 1 | Sim West | In Progress | 2.4.5.6.8 | WCDM | | | | Water Conservation & Demand Management |
| | Sim West | In Progress | 2 | Bulks | 10ML | | | New 10ML Terminal Res |
| | Sim West | In Progress | 4 | Bulks | | | | New P/S to Mpunzi, bulks to Mpunzi Res, new Mpunzi Res 5ML |
| | Sim West | In Progress | 2,10 | Bulks | | | | New bulks from Mpunzi Res to Tholakela WTW |
| | | | | | | | | |
| | Sim West | In Progress | 10 | Bulks | | | | New bulks from Tholakela WTW to Mpundu Res, New bulks from Bilanyoni Res to Ophuzane |
| | Sim West | >2027 | 5,6,8 | Bulks | | | | Remaining scope of works to connect all existing stand-alone schemes |
| | Mandlakazi | Completed | 3 | Bulks | | | | Phase 5.1 Bulks |
| | Mandlakazi | Completed | 3 | Reticulation | | | | PHASE 5.1 Reticulation |
| | Mandlakazi | Completed | 3 | Bulks | | | | PHASE 5.3 Bulk Pipelines & Reservoirs |
| | Mandlakazi | Completed | 2,5,22 | Bulks | | | | PHASE 5.5 Bulk Pipelines & Reservoirs |
| | Mandlakazi | In Progress | 3,22 | Bulks | | | | PHASE 5.2 Bulk Pipelines & Reservoirs |
| 1 | Mandlakazi | In Progress | 3,22 | Reticulation | | | | PHASE 5.2 Reticulation |
| 1 | Mandlakazi | In Progress | 3 | Reticulation | | | | PHASE 5.3 Reticulation |
| | Mandlakazi | In Progress | 3 | Bulks | | | | PHASE 5.4 Bulk Pipelines & Reservoirs |
| | Mandlakazi | In Progress | 3 | Reticulation | | | | PHASE 5.4 Reticulation |
| l I | Mandlakazi | In Progress | 2,5,22 | Reticulation | | | | PHASE 5.5 Reticulation |
| | Mandlakazi | In Progress | 20 | Bulks | | | | PHASE 5.6A Bulk Pipelines & Reservoirs |
| | Mandlakazi | In Progress | 20 | Reticulation | | | | PHASE 5.6A Reticulation |
| | Mandlakazi | In Progress | 6,7,8 | Bulks | | | | PHASE 5.6B Bulk Pipelines & Reservoirs |
| | | | | Reticulation | | | | |
| l I | Mandlakazi | In Progress | 6,7,8 | | | | | PHASE 5.6B Reticulation |
| l | Mandlakazi | In Progress | All | Bulks Bulks | | | | Upstream Bulks: Phase 1A-1B Rising Mains up to Mkhuze |
| | Mandlakazi | In Progress | All | | | | | Upstream Bulks: Phase 1C Bulks |
| | Mandlakazi | In Progress | All | Bulks | | | | Upstream Bulks: Mkhuze Pipe Bridge |
| | Mandlakazi | In Progress | All | Bulks | | | | Upstream Bulks: Abstraction Works |
| l i | Mandlakazi | 2025/2026 | All | Bulks | | | | Upstream Bulks: Phase 2A-2B Bulks |
| l [| Mandlakazi | TBC | All | Bulks | | | - | Downstream Bulks: WTW Upgrade to 60ML/day |
| | Mandlakazi | TBC | 1,5,6,7,8,20 | Bulks | | | | Downstream Bulks: Phase 1A Clearwater Pump Station |
| | Mandlakazi | TBC | 1,5,6,7,8,20 | Bulks | | | | Downstream Bulks: Phase 2A Steel Rising Main |
| | Mandlakazi | TBC | 1,5,6,7,8,20 | Bulks | | | | Downstream Bulks: Phase 2B Interm. Cleawater P/S & 1ML Res |
| | Mandlakazi | TBC | 1,5,6,7,8,20 | Bulks | | | | Downstream Bulks: Phase 2B 800 Steel Rising Main |
| | Mandlakazi | TBC | 1,5,6,7,8,20 | Bulks | | | | Downstream Bulks: Phase 5 30ML Command Reservoir |
| | Mandlakazi | TBC | 1,5,6,7,8,20 | Bulks | | | | Downstream Bulks: Phase 5 500 Steel Gravity Main |
| | Mandlakazi | TBC | Hlabisa | Bulks | | | | Downstream Bulks: Phase 6 30ML Command Reservoir |
| | Mandlakazi | TBC | Hlabisa | Bulks | | | | Downstream Bulks: Phase 6 700 Steel Gravity Main (Res I1 to Res KLM) |
| l F | Mandlakazi | TBC | Hlabisa | Bulks | | | | Downstream Bulks: Phase 6 800 Steel Gravity Main (Command Res to Res I1) |
| l f | Mandlakazi | TBC | Hlabisa | Bulks | | | | Downstream Bulks: Phase 6 400/500/700 Steel Gravity Main (Res KLM to Hlabisa Res's) |
| | | | | | l | l | | The state of the s |

2025-2026 Review Section 11: Page 30 of 70

| | | | | REGION <i>A</i> | AL SCHEME RO | LLOUTS | 3 | |
|---------|-------------|-------------------------------|-------------------------|------------------------------|---------------------------------|-------------------|---------------|---|
| LM | Reg. Scheme | FIN. YEAR | Wards | Infrastructure Type | Size or Number of households | LENGTH or SIZE | Settlement ID | Description or Settlement Name |
| | Usuthu | 2025/2026 | 23 | Reticulation | | | | Holinyoka Area Reticulation |
| | Usuthu | Planning | 4,6 | Bulks | | | | Off-channel Dam |
| | Usuthu | Completed | 9 | PS Mech/Electr | | | | Lindizwe PS2 |
| | Usuthu | Completed | 9 | PS Mech/Electr | | | | Holinyoka PS1 |
| | Usuthu | Completed | 9 | Usuthu Bulk Res B & 3ML Res | | | | Completion of bulk reservoirs for Zone G |
| | Usuthu | Completed | 15 | Usuthu Raw Water Abstraction | | | | Mechanical Works |
| | Usuthu | Completed | 14 | Reticulation | | | | Reticulation to Ward 14 |
| | Usuthu | Completed | 16 | Pump Station | | | | Canaan Pump Station |
| | Usuthu | Completed | 13 | Reticulation | | | | Ophalule/Canaan Reticulation |
| | Usuthu | Completed | 18 | Bulks | | | | Bulk pipelines for Bulk Res G North |
| Nongoma | Usuthu | Pending water source security | 18 | Bulks | | | | Remaining Bulk pipelines for Bulk Res G North |
| Nongoma | Usuthu | Pending water source security | 23 | Bulks | | | | Bulk Pipline to Res F, Reservoir F |
| | Usuthu | Pending water source security | 10,12,13,23 | Reticulation | | | | Reticulation within Bulk Res F Zone |
| | Usuthu | Pending water source security | 23,10 | Bulks | | | | Bulk Pipeline to Res J, Reservoir J |
| | Usuthu | Pending water source security | 10,11 | Reticulation | | | | Reticulation within Bulk Res J Zone |
| | Usuthu | Pending water source security | 17,21 | Bulks | | | | Bulks in Res H Zone |
| | Usuthu | Pending water source security | 17,21 | Reticulation | | | | Reticulation in Bulk Res H Zone |
| | Usuthu | Pending water source security | 12,13 | Bulks | | | | Bulk supply lines & Reservoirs to Zone D |
| | Usuthu | Pending water source security | 4 | Reticulation | | | | White City Reticulation Upgrade |
| | Usuthu | Pending water source security | 16 | Reticulation | | | | Mthwatube and surrounding reticulation upgrade |
| | Usuthu | Pending water source security | 13 | RWSS | | | | Fish Ladder @ Vuna Dam |
| | Usuthu | Pending water source security | 13 | RWSS | | | | Vuna Dredging |
| | Usuthu | Pending water source security | 7,8,14 | Bulks | | | | Bulk supply lines & Reservoirs to Zone E |
| Ulundi | Usuthu | Pending water source security | 5 | Bulks | | | | Bulk supply lines & Reservoirs to Zone C |
| | Usuthu | Pending water source security | 4,5 | Bulks | | | | Bulk Supply to Ceza, Ceza Bulk Res |
| | Nkonjeni | Completed | RWSS | Bulks | | | | Replace Rising Main to Ulundi Town |
| | Nkonjeni | Completed | 15 | Reticulation | 455 | | Z417 | Reticulation upgrade at Nqulwane |
| | Nkonjeni | Completed | RWSS | RWSS Borehole Augmentation | | | | Scheme Source Augmentation |
| | Nkonjeni | In Progress | RWSS | WCDM | | | | Water Conservation & Demand Management |
| Ulundi | Nkonjeni | In Progress | RWSS | Bulks | 20ML | | | Upgrade WTW with 20ML |
| | Nkonjeni | 2026/2027 | RWSS | Pump Station | 22KV | | | Upgrading of P/S at WTW |
| | Nkonjeni | >2027 | RWSS | WTW | 30ML | | | Upgrading of WTW Phase 3 to 30ML/day |
| | Nkonjeni | >2027 >2027 | 14,20,24 13,16,17,23 | Bulks Bulks | | | | Planned bulk water supply to Nkonjeni Central and East |
| | Nkonjeni | | | | | | | Planned bulk water supply to Mpungamhlope region |
| | Nkonjeni | >2027 | 16 | Bulks | | | <u> </u> | Planned bulk water supply to Babanango region from Mpungamhlope WTW |

2025-2026 Review Section 11: Page 31 of 70

| | | | | REGIONA | L SCHEME RC | LLOUTS | 3 | |
|-----------|-------------|---------------------------|-----------|-------------------------|---------------------------------|-------------------|---------------|--|
| LM | Reg. Scheme | FIN. YEAR | Wards | Infrastructure Type | Size or Number of households | LENGTH or SIZE | Settlement ID | Description or Settlement Name |
| | Coronation | Business Plan In Progress | 1 | Bulks & Retics | | | | Coronation Regional Scheme Masterplan - Stand-alone Schemes |
| | Gumbi | Completed | 1 | RWSS Augmentation | | | ZHR2 | uGumbi Trust Water Supply Augmentation |
| | Gumbi | Planning | 1 | RWSS Augmentation | | | ZHR2 | Upgrading of Abstraction, Rising Main & WTW |
| | Sim East | Completed | 9 | Bulks | 1ML | | | PROJECT 3A: Rising Main, Pump Station & Reservoir S1 |
| | Sim East | Completed | 9 | Reticulation | | | | PROJECT 3B: Reticulation to Res S1 zone |
| | Sim East | Completed | 11 | | | | | Augmentation to Golela WTW, Rising Main & Reticulation to Golela Border Post |
| | Sim East | Pending New Business Plan | 9,11 | Reticulation | | | | PROJECT 1B: Reticulation to Reservoir S2 |
| | Sim East | Pending New Business Plan | 13 | | 700ML | | | PROJECT 2A: Rising Main, Pump Station & Reservoir S3 |
| | Sim East | Pending New Business Plan | 13 | Reticulation | | | | PROJECT 2B: Reticulation to Res S3 zone |
| | Sim East | Pending New Business Plan | 9,15 | | 300KL | | | PROJECT 4-6: 2x Pump Stations & Reservoir P2 |
| | Sim East | Pending New Business Plan | 13 | | 300KL | | | PROJECT 7-9A: Pump Station, Rising Main & Reservoir S5 |
| | Sim East | Pending New Business Plan | 13 | Reticulation | | | | PROJECT 9B: Reticulation to Res S5 |
| uPhongolo | Sim East | Pending New Business Plan | 7,8,13,15 | | | | | PROJECTS 11-24: Bulks & Reticulation to Res S4, S6,S7,S8, S11, P3, S12, S13, S14 |
| | Sim Central | Completed | 3 | Bulks | 250 | | | Regional bulk pipeline from Luphiso reservoir to new regional bulk reservoir at Ombimbini1 |
| | Sim Central | Completed | 3 | Storage | 3ML | | | New bulk regional reservoir at Ombimbini |
| | Sim Central | Pending New Business Plan | 3,6 | Bulks | | | | Regional bulk to Bongaspoort P/S |
| | Sim Central | Pending New Business Plan | 3 | Settlement Reticulation | | | | Ward 3 Settlements reticulation |
| | Sim Central | Pending New Business Plan | 6 | Pump Station | | | | Booster Pump Stations at Bongaspoort |
| | Sim Central | Pending New Business Plan | 6 | Bulks | | | | Bulk Pipeline to Res 4 at Klipwal |
| | Sim Central | Pending New Business Plan | 6 | Storage | 1ML | | | Res 4 at Klipwal |
| | Sim Central | Pending New Business Plan | 6 | Settlement Reticulation | | | | Ward 6 settlement reticulation |
| | Sim Central | Pending New Business Plan | 6 | Bulks | | | | 1ML Res 3 at Emabomvu |
| | Sim Central | Pending New Business Plan | 6 | Bulks | 1ML | | | Bulk Pipeline to Res 3 at Emabomvu |
| | Sim Central | Pending New Business Plan | 3 | Treatment | 18ML | | | New WTW at abstraction to supply Sim Central |
| | Sim East | >2027 | 11 | Abstraction | TBA | | | Planned upgrading of abstraction works at river |

2025-2026 Review Section 11: Page 32 of 70

Table 11.4.2: Roll-out of Stand-alone Schemes

2025-2026 Review Section 11: Page 33 of 70

| | | | INTERMEDIATE | STAND-ALONE | SCHEM | ES | | |
|--------------------|-----------------|--------|---|--|--------------------|------------------|----------------------|-------------------|
| Local Municipality | Regional Scheme | Wards | Implementation Year | Stand-alone Scheme Name | Phase | Z-Nr | Settlement Name | Households Served |
| | | 15 | Completed | Bhobozani | | Z116 | Bhobozani (Ginqa) | 238 |
| | Hlahlindlela | 15/17 | Under construction | Mhlangeni/Nqulwane | | Z119 | Mhlangeni | 249 |
| - | | 15/17 | Under construction | Mhlangeni/Nqulwane | Dhara 4 | Z941 | Nqulwane | 120 |
| | | 4 | Pending water security | Gluckstad/Bevenson | Phase 1 | ZNIe.u.F.C | EIA and Approvals | 22 |
| | | 4 | Pending water security | Gluckstad/Bevenson Gluckstad/Bevenson | Phase 2 Phase 2 | ZNew56 ZNew57 | Emaqigwe | 22 28 |
| | | 4 | Pending water security Pending water security | Gluckstad/Bevenson | Phase 2 | ZNew58 | Hlongane Enkaleni | 53 |
| | | 4 | Pending water security | Gluckstad/Bevenson | Phase 3 | ZNew55 | KwaNgada | 59 |
| | | 4 | Pending water security | Gluckstad/Bevenson | Phase 3 | ZNew54 | KwaNgada KwaDevan | 48 |
| | | 4 | Pending water security | Gluckstad/Bevenson | Phase 4 | ZNN6 | Egazini | 175 |
| | | 4 | Pending water security | Gluckstad/Bevenson | Phase 4 | ZNN7 | Kwanyoni | 29 |
| | | 4 | Pending water security | Gluckstad/Bevenson | Phase 4 | ZNN9 | Mfofana | 79 |
| AbaQulusi | IZII-: | 4 | Pending water security | Gluckstad/Bevenson | Phase 5 | ZMAP126 | Mangoe | 103 |
| | Khambi | 4 | Pending water security | Gluckstad/Bevenson | Phase 5 | ZNN14 | Emangumbu | 81 |
| | | 4 | Pending water security | Gluckstad/Bevenson | Phase 6 | ZNN10 | Makukula | 207 |
| | | 4 | Pending water security | Gluckstad/Bevenson | Phase 6 | ZMAP60 | KwaSodumo | 69 |
| | | 4 | Pending water security | Gluckstad/Bevenson | Phase 6 | ZTAS52 | Cebekazi | 138 |
| | | 4 | Pending water security | Gluckstad/Bevenson | Phase 6 | ZNN1 | Zwati | 146 |
| | | 4 | Pending water security | Gluckstad/Bevenson | Phase 6 | ZNN11 | Mandunduwe | 75 |
| | | 4 | Pending water security | Gluckstad/Bevenson | Phase 6 | ZTAS50 | Esigangeni 2 | 58 |
| | | 4 | Pending water security | Gluckstad/Bevenson | Phase 6 | ZNN13 | KwaSozwane | 71 |
| | | 4 | Pending water security | Gluckstad/Bevenson | Phase 8 | Z897a | Bethel (Mission) | 93 |
| | | 4 | Pending water security | Gluckstad/Bevenson | Phase 8 | Z897b | Bethel (Salema) | 205 |
| | Nkonjeni | 4 | Pending water security | Gluckstad/Bevenson | Phase 6 | ZMAP59 | Masigane | 50 |
| | | 2 | Planned | Nhlebela | | Z251 | Ovukneni | 141 |
| | | 3 | Completed | Sovana | Phase 1 | Z330 | Sovana | 97 |
| | | 3 | Completed | Sovana | Phase 1 | Z327 | Macijo | 62 |
| | | 3 | Completed | Sovana | Phase 1 | Z329 | Vesonweni | 43 |
| | | 3 | Completed | Sovana | Phase 1 | Z331 | Machibini | 133 |
| | | 3 | Completed | Sovana | Phase 1 | Z332 | Njonyomane | 78 |
| | | 4 | Completed | Henenende | | Z211 | Khokhwaneni | 170 |
| | | 5 5 | Planned Planned | Nhlebela Nhlebela | | Z248 Z250 | Nhlebela Fakude | 135 110 |
| | | 5 | Planned | Nhlebela | | Z268 | Ndimhlana | 140 |
| | | 5 | Planned | Nhlebela | | Z266 | Khethankomo | 198 |
| | | 5 | Planned | Nhlebela | | Z264 | New Town | 74 |
| | | 5 | Planned | Nhlebela | | Z265 | Mthincongo | 183 |
| Nongoma | Mandhlakazi | 5 | Planned | Nhlebela | | Z280 | Singanda | 175 |
| | | 5 | Planned | Mphuphuzi | | Z247 | Mpuphusi | 137 |
| | | 5 | Planned | Kwajuba | | Z718 | Mahlomane | 71 |
| | | 5 | Planned | Kwajuba | | Z292 | Kwajuba | 126 |
| | | 5 | Planned | Kwajuba | | Z294 | Kolubomvu 1 | 20 |
| | | 7 | Planned | Bhekumthethu | | Z956 | Egudu | 157 |
| | | 7 | Planned | Bhekumthethu | | Z957 | Nzondwane | 40 |
| | | 7 | Planned | Bhekumthethu | | Z197 | Mpuqwini | 206 |
| | | 7 | Planned | Bhekumthethu | | Z205 | Chinamorgan | 45 |
| | | 7 | Planned | Bhekumthethu | | Z206 | Nkungwini | 74 |
| | | 8 | Planned | Bhekumthethu | | Z186 | Ncemaneni | 110 |
| | | 8 | Planned | Bhekumthethu | | Z196 | Bhekumthetho 2 | 305 |
| | | 8 | Planned | Bhekumthethu | | Z207 | Nkonjeni | 185 |
| | | 20 | Completed | Henenende | | Z630 | Vilane | 267 |

2025-2026 Review Section 11: Page 34 of 70

| | | | INTERMEDIATE | STAND-ALONE | SCHEM | ES | | |
|--------------------|-----------------|----------|-----------------------------|--|--------------------|----------------------|---|-------------------|
| Local Municipality | Regional Scheme | Wards | Implementation Year | Stand-alone Scheme Name | Phase | Z-Nr | Settlement Name | Households Served |
| | | 4 4 4 | Completed Completed Planned | Henenende Henenende Esiphambanweni | | Z823 Z218 Z219 | Mbonjeni Henenende Esiphambanweni | 54 295 432 |
| | | 6 | Planned Planned | oDuswhini Mangashi | | Z209 Z210 | oDuswhini Mangashi | 370 762 |
| | | 10 | Completed | Zombodhe | | Z575 | Kwahelibheshu | 15 |
| | | 10 10 | Completed Completed | Zombodhe Zombodhe | | ZBUK56 ZNN26 | Nombanjana Engongoma | 65 21 |
| | | 10 11 | Completed Completed | Enzobo Enzobo | | Z572 Z155 | Qule Ezighumeni | 22 114 |
| | | 11 | Completed | Enzobo | | Z156 | Entwala | 54 |
| | | 11 11 | Completed Completed | Enzobo Enzobo | | Z157 Z158 | Nqala Entuthukweni | 79 125 |
| | | 11 11 | Completed Completed | Enzobo Enzobo | | Z159 ZBA4 | Elanjeni/Msasanani Sidakeni 2 | 174 27 |
| | | 11 | Completed | Enzobo Enzobo | | ZBA5 ZNN22 | Khanjaneni Ebungwini | 53 |
| | | 11 11 | Completed Completed | Enzobo | | Z570 | Kwazungu | 121 175 |
| | | 11 11 | Completed Completed | Enzobo Enzobo | | ZNN23 Z568 | Emhemeni Mbamba | 62 51 |
| | | 11 11 | Completed Completed | Enzobo Enzobo | | Z567 ZNN27 | Othinsangu Hlathidumayo | 115 80 |
| | | 11 | Completed | Enzobo | | ZBA2 | Singangeni | 73 |
| | | 11 11 | Completed Completed | Enzobo Enzobo | | Z154 Z153 | Zampilo Mcibilindini | 37 47 |
| Nongoma | Usuthu | 11 11 | Completed Completed | Enzobo Enzobo | | Z151 ZBA1 | Mhlabaneni Kwavumela | 60 76 |
| 9 | | 11 | Completed | Enzobo | | Z152 | Masokaneni | 160 |
| | | 12 13 | Completed Completed | Kwankulu Kwankulu | | Z347 ZMAP17 | Manhlanhla Emgodi 2 | 169 87 |
| | | 13 13 | Completed Completed | Kwankulu Kwankulu | | Z350 Z372 | Kwamfemfeni Ingundwane | 117 19 |
| | | 13 | Completed | Kwankulu | | Z351 | Kwankulu | 97 |
| | | 13 14 | Completed Completed | Kwankulu Esikhumbeni | Phase 1 | Z353 Z549a | Hlambanyathi 1 KwaMusi | 87 312 |
| | | 14 14 | Completed Completed | Esikhumbeni Esikhumbeni | Phase 1 Phase 1 | Z549b Z551b | KwaMahashi KwaBoy 2 | 39 17 |
| | | 14 14 | Completed Completed | Esikhumbeni Esikhumbeni | Phase 1 Phase 2 | Z551a ZMAP29 | Dayeni Mbhukudu | 104 116 |
| | | 14 | Completed | Esikhumbeni | Phase 2 Phase 2 | Z555 | Ezimpakaneni | 164 |
| | | 14 14 | Completed Completed | Esikhumbeni Esikhumbeni | Phase 2 Phase 2 | Z552 Z553 | Shisuthu Nsimbini | 143 137 |
| | | 14 17 | Completed Completed | Esphiva Nongoma Ward 17 | Phase 3 | Z550 Z659 | Onyango Thokazi | 156 142 |
| | | 17 | Completed | Nongoma Ward 17 | | ZKAY1 | Esiweni | 25 |
| | | 17 17 | Completed Completed | Nongoma Ward 17 Nongoma Ward 17 | | ZKAY7 ZMAP34 | Msasaneni Phoqukhalo | 35 23 |
| | | 17 17 | Completed Completed | Nongoma Ward 17 Nongoma Ward 17 | | Z660 Z658 | Mjiza Mbengo | 157 73 |
| | | 17 | Completed | Nongoma Ward 17 | | ZKAY8 | Echibini | 9 |
| | | 18 20 | Completed Completed | Nongoma Ward 17 Henenende | | ZKAY6 Z224 | Magedlana B Qathaqatheni | 57 121 |
| | | 20 | Completed | Henenende | | Z223 | Ebukhalini | 68 |

2025-2026 Review Section 11: Page 35 of 70

| | INTERMEDIATE STAND-ALONE SCHEMES | | | | | | | | | | | |
|--------------------|----------------------------------|--|---|--|---|---|--|--|--|--|--|--|
| Local Municipality | Regional Scheme | Wards | Implementation Year | Stand-alone Scheme Name | Phase | Z-Nr | Settlement Name | Households Served | | | | |
| | Nkonjeni | 14 14 14 14 14 14 15 15 24 24 24 24 24 24 24 24 24 24 24 24 24 | Planned Planned Planned Completed Planned | Nkonjeni East Nkonjeni East Nkonjeni East Sqobelo Sqobelo P700 (Dindi) Nkonjeni East Nkonjeni Hopenkulu Hlopenkulu Hlopenkulu Hlopenkulu Hlopenkulu Hlopenkulu Hlopenkulu Hlopenkulu | Phase 3 Phase 3 Phase 4 Phase 4 Phase 4 Phase 2 Phase 2 Phase 3 Phase 3 | Z403 Z404 Z413 Z407 Z782 Z412 Z410 Z416 Z166 Z411 ZNew100 ZTAS13 ZTAS17 ZTAS17 ZMAP109 ZMAP108 Z758 ZTAS18 Z820b Z398 Z820a | Tshiyazane Bhongisilwane Njomelwane Ezinyosini Sqobelo Zilulwane Ganwini Zenzele Ngqolothi Dindi Eskhaleni Kwankosi England Nkonjane Kwathuthu Ezisasaneni Basamilio Ekujulukeni Ezimfeneni Enguqe Sibanisakhe Ekatini Hlophekhulu | 81 32 318 203 70 99 146 88 193 243 13 80 213 19 26 66 269 67 178 64 42 80 | | | | |
| Ulundi | Usuthu | 24 24 24 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | Planned Planned Planned Planned >2027 Completed Completed Completed Completed Completed >2027 >2027 >2027 >2027 >2027 >2027 >2027 >2027 >2027 In Progress Completed In Progress | Hlopenkulu Hlopenkulu Hlopenkulu Ceza Ceza Ceza Ceza Ceza Ceza Ceza Ceza | Phase 6 Phase 4 Phase 4 Phase 4 Phase 4 Phase 4 Phase 6 Phase 3 | Z820a Z820c Z820c ZTAS19 Z26 Z10b Z16 Z14 Z15 Z9 Z10a Z19 ZMAP116 Z25 ZRN6 ZRN1 ZMAP115 ZMAP114 Z24 Z17 ZRN4 Z436 Z437a Z437b Z443 Z441 ZMD9 Z438b Z438a Z440 Z439 ZNew51 | Hiopnekhulu Gijima Ezikhumbeni Obhedeni Kwamasane Mndaweni Nsimbi Phethu Mgxotshwa Brush/Nsukangihlale Nomponjwana Ezinxagwini Siyekela Ezimqaqeni Ezihlaqeni Nhlohlala Sikhalampama Edlakude Nhlonga Godlankomo Weir B, Rising Main & WTV Isihululu Mguluze Nsukahlale Nomdidwa Mkhulwana Ngobodo Dayingubu Nhlatwini Magayiseni Dakaneni Eziqhwageni Eziqhwageni Weir A & Bulks Ezembeni 1 | 85 99 36 31 78 129 78 14 355 64 49 100 49 40 118 80 81 132 322 | | | | |

2025-2026 Review Section 11: Page 36 of 70

| | | | INTERMEDIA | TE STAND-ALON | E SCHEM | ES | | |
|--------------------|-----------------|---|--|---|---|--|--|--|
| Local Municipality | Regional Scheme | Wards | Implementation Year | Stand-alone Scheme Name | Phase | Z-Nr | Settlement Name | Households Served |
| Ulundi | Usuthu | 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | >2027 >2027 >2027 >2027 >2027 >2027 >2027 >2027 >2027 >2027 >2027 >2027 Completed Com | Ceza Ceza Ceza Ceza Ceza Ceza Ceza Ceza | Phase 6 Phase 1 Phase 1 Phase 1 Phase 1 Phase 2 Phase 1 Phase 1 Phase 1 Phase 3 Phase 3 Phase 6 Phase 6 Phase 2 Phase 2 Phase 2 Phase 2 Phase 3 Phase 1 Phase 1A Phase 1A Phase 1B Phase 1B Phase 2C Phase 3 Phase 2C Phase 3 | ZNew117 Z33 Z29 Z30 Z27 Z28 ZMAP113 Z83 Z89 Z46 Z82 Z44 Z43 Z45 Z42 Z41 Z40 ZMAP112 Z47 Z48 Z49 ZHR6 Z32 Z31 Z38 Z39 ZHR7 ZHR6 Z32 Z31 Z38 Z39 ZHR7 ZHR5 Z670 Z674 Z80 Z676 Z671 Z672 Z679 Z675 ZMAP93 Z686 Z691 Z692 Z685 ZNew78 Z682 Z682 Z682 Z682 Z682 Z683 Z681 Z682a Z682b ZTAS6 Z701 Z693 | Magagodolo Ntambonde Egqumeni Ndwaleni Nende Ezembeni 2 KwaFini Kwameke Phangole Qhudebe Sikhumbeni Kwasaku Odizima Okhalweni 1 Kwampanza Esibomvu Okhwathe Ezimfabeni Nsabekkuluma 1 Emfenyane Esembeni Mashiyane Dlabane Emabeka Qwasha (Nongoma) Nzukasi Shkulile Nqabeni Bhokweni Kwamame Thusini Xasane Bhungwane Esphiva Mpangeleni Qubeni Xolo Cizima | 15 76 110 48 15 88 40 78 47 127 113 57 33 64 104 149 124 1 166 129 71 267 162 112 65 27 170 82 84 214 252 52 175 123 120 76 24 219 233 53 96 105 7 94 88 83 31 48 83 36 4107 |
| | | 8 14 14 | Completed 2026/2027 2026/2027 | Esphiva Mabululwane Mabululwane | | Z682b ZTAS6 Z701 | Chibini 1 Ewela 1 Mabululwane Njojo Bhodludaka Glula Makhukwane | 83 36 74 |

2025-2026 Review Section 11: Page 37 of 70

| | | | INTERMEDIATE | STAND-ALONE | SCHEM | ES | | |
|--------------------|------------------|-------|---------------------|----------------------------|-----------|---------|----------------------------|-------------------|
| Local Municipality | Regional Scheme | Wards | Implementation Year | Stand-alone Scheme Name | Phase | Z-Nr | Settlement Name | Households Served |
| uPhongolo | Simdlangentsha E | 14 | Completed | Golela | | ZMAP124 | Golela Border Post | 154 |
| | | 1 | Planning Stage | Proposed Production | | ZPM17a | Enhlangweni | 99 |
| | | 1 | Planning Stage | Proposed Production | | ZNew63 | Kwanogalaja | 8 |
| | Coronation | 2 | Planning Stage | Proposed Production | | ZNew40 | Kwasithole | 118 |
| | | 3 | Planning Stage | Proposed Production | BH Scheme | ZHR26 | Sgubudu | 201 |
| | | 6 | Planning Stage | Proposed Production | BH Scheme | ZPM6 | Mkhuze 2 | 97 |
| | | 7 | Planning Stage | Proposed Production | BH Scheme | ZNew107 | Shoba 1 | 756 |
| AbaQulusi | | 7 | Planning Stage | Proposed Production | BH Scheme | ZNew108 | Shoba 2 | 497 |
| AbaQuiusi | | 12 | Planning Stage | Proposed Production | BH Scheme | ZNew169 | Tintas Drift | 843 |
| | Hlahlindlela | 13 | Planning Stage | Proposed Production | BH Scheme | ZNew96 | Banya | 14 |
| | Папшиета | 13 | Planning Stage | Proposed Production | BH Scheme | ZMAP123 | Emadoshini | 343 |
| | | 13 | Planning Stage | Proposed Production | BH Scheme | ZNew93 | Eskame | 79 |
| | | 13 | Planning Stage | Proposed Production | BH Scheme | ZNew109 | Hluma | 41 |
| | | 13 | Planning Stage | Proposed Production | BH Scheme | ZNew75 | Tholithemba | 86 |
| | Khambi | 3 | Planning Stage | Proposed Production | BH Scheme | ZNew29 | Mabova | 37 |
| | Coronation | 7 | Planning Stage | Proposed Production | BH Scheme | ZTAS54 | Palmietfontein 5841 (Mbhar | 22 |
| | Hlahlindlela | 7 | Planning Stage | Proposed Production | BH Scheme | ZMAP5 | Khambula | 182 |
| | Папшиета | 7 | Planning Stage | Proposed Production | BH Scheme | ZNew150 | Mqwabe | 38 |
| eDumbe | | 3 | Planning Stage | Proposed Production | BH Scheme | ZNew3 | Mandakane | 534 |
| | Sim West | 7 | Planning Stage | Proposed Production | BH Scheme | ZMAP6 | Koudbad / Welverdiend | 92 |
| | Sim west | 9 | Planning Stage | Proposed Production | BH Scheme | ZMAP3 | Geluk 2 | 63 |
| | | 9 | Planning Stage | Proposed Production | BH Scheme | ZMAP121 | Mananjalo | 82 |
| | | 7 | Planning Stage | Proposed Production | BH Scheme | Z955 | Maganganeni | 76 |
| | Mandhlakazi | 7 | Planning Stage | Proposed Production | BH Scheme | Z197 | Mpuqwini | 243 |
| Nongoma | | 7 | Planning Stage | Proposed Production | BH Scheme | Z204 | Sibanyaneni | 164 |
| - | Usuthu | 12 | Planning Stage | Proposed Production | BH Scheme | ZMAP12 | Nqobuzulu | 65 |
| | Osumu | 21 | Planning Stage | Proposed Production | BH Scheme | Z607 | Mangomhlophe | 327 |
| | | 24 | Planning Stage | Proposed Production | BH Scheme | Z813 | Enguqe | 221 |
| Ulundi | Nkonjeni | 24 | Planning Stage | Proposed Production | BH Scheme | ZTAS19 | Ezikhumbeni | 115 |
| | | 24 | Planning Stage | Proposed Production | | ZMAP109 | Ezisasaneni | 30 |
| uDhongo!s | Coronation | 1 | Planning Stage | Proposed Production | BH Scheme | ZNew37 | Kwaslevu | 42 |
| uPhongolo | Coronation | 1 | Planning Stage | Proposed Production | BH Scheme | ZNew38 | Mthaniya | 42 |

2025-2026 Review Section 11: Page 38 of 70

Table 11.4.3: Roll-out of Rudimentary Water Services

2025-2026 Review Section 11: Page 39 of 70

| | | | | | | RUDIMENTARY | ROLLOUT | S | | |
|-----------|--|------------|---------------------------------|---------|--------------|--------------------|---------------|------------|---|--|
| | Served/Comple | 4 D | 1- | | | | | | | |
| | | • | | | | | | | | |
| | Settlement Status to be verified (2025/26) | | | | | | | | | |
| | Priority Project | s for next | financial year | | | | | | | |
| Local | Regional | Wards | Year | Z-Nr | | Settlement Name | Cost Estimate | Households | Proposed | Progress to date |
| | | 1 | Served | ZNew63 | Kwanogalaja | | * | 3 | 3 Functional solar pump | |
| | | 1 | Served | ZPM17a | Enhlangweni | | | 73 | 3 Functional handpump | |
| | | 5 | Served | ZNew25 | Malangweni | | | 72 | 2 Functional handpump | |
| | | 1 | Served | ZPM17b | Mbizo | | | 23 | 3 | 2x Equipped BH |
| | | 2 | Served | ZBUK61 | Endinsi | | | 46 | 6 | 1x BH Equipped |
| | | 2 | Served | ZBUK60 | Kwafakazi | | | 85 | 5 | 1x Spring protection, 1x BH Equipped |
| | | 3 | Served | ZHR26 | Sgubudu | | | 170 | 0 | 1x BH Equipped |
| | | 6 | Served | ZNew103 | Uitzicht | | | 29 | 9 | 1x BH Equipped |
| | | 6 | Served | ZPM6 | Mkhuze 2 | | | 78 | 8 | 2x BH equipped |
| | | 7 | Served | ZHC5 | Boomlaer | | | 40 | 0 | 1x BH Equipped |
| AbaQulusi | Coronation | 1 | Status to be verified (2025/26) | ZNew45 | Madanyini | | 400 000 | 29 | 9 Spring protections | Recommendation for spring protection |
| | | 1 | Status to be verified (2025/26) | ZPM11 | Ezakhiweni 1 | | 60 000 | 17 | 7 Resolve solar pump problem | To be equipped with handpump |
| | | | , | | | | | | | Land reform, investigate if water can be sourced from farmstead 600m away, alternatively drill 1 |
| | | 2 | Status to be verified (2025/26) | ZNew46 | Emarondweni | | 420 000 | | 3 Hydrocensus Status to be verified (2025/26) | borehole. |
| | | 2 | Status to be verified (2025/26) | | Empumazi | | 450 000 | | 4 Hydrocensus Status to be verified (2025/26) | |
| | | 6 | | | Enkwaleni | | 350 000 | | 8 Additional BH required | 1x BH drilled. To be equipped |
| | | 1 | 2025/2026 | ZNew50 | Kwantebe | | 870 000 | | 1 Hydrocensus & Rudimentary water supply | |
| | | 2 | 2025/2026 | ZNew22 | Kwabudula | | 580 000 | | 9 Hydrocensus & Rudimentary water supply | |
| | | 2 | 2025/2026 | ZNew20 | Kwanmnunse | | 850 000 | | 1 Hydrocensus & Rudimentary water supply | |
| | | 2 | 2025/2026 | ZNew40 | Kwasithole | | 1 040 000 | | 7 Hydrocensus & Rudimentary water supply | |
| | | 2 | 2025/2026 | ZNew21 | Makhwela | | 1 040 000 | | 3 Hydrocensus & Rudimentary water supply | |
| | | 3 | 2026/2027 | ZNew32 | Mfabantu | | 520 000 | | 0 Hydrocensus & Rudimentary water supply | |
| | | 6 | >2027 | ZNew34 | Gobeni | | 460 000 | | 7 Hydrocensus & Rudimentary water supply | |
| | | 6 | >2027 | ZNew33 | Mciyo | | 660 000 | 29 | 9 Hydrocensus & Rudimentary water supply | |

2025-2026 Review Section 11: Page 40 of 70

| Se | erved/Complete ettlement Status iority Projects Eu- Eu- iority Projects Eu- iority Projects Eu- Eu- Eu- Eu- Eu- Eu- Eu- Eu- Eu- Eu- | s to be v | erified (2025/26) financial year | | | | | | |
|-----------------------|--|------------|-------------------------------------|--------------------|-----------------------------|--------------------|------------|--|--------------------------------|
| Se Pr | ettlement Status | s to be ve | erified (2025/26) financial year | | | | | | |
| Pr | riority Projects | for next t | financial year | | | | | | |
| | | | | | | | | | |
| Local Municipality | Regional Scheme | Wards | _ | | | | | | |
| Munic | Reg | Š | Year | Z-Nr | Settlement Name | Estimate | Households | Proposed | Progress to date |
| | | | ۶ | Ż | Sett. | Cost E | Hous | Prop | Program |
| | | 7 | Served | ZNew107 | Shoba 1 | 0 | 266 | | |
| | | 8 | Served | ZMAP122 | Vryheid Dump Site | | 115 | | Functional Handpump |
| | | 8 | Served | ZNew128 | KwaNgethe | | 45 | | Served by farm |
| | | 8 | Served | ZNew153 | Kwatwo | | 29 |) | Served by farm |
| | | 12 | Served | ZNew177 | Brakfontein 2 | | 12 | 2 | Served by farm |
| | | 12 | Served | ZNew168 | Mabunya | | 13 | } | Served by farm |
| | | 13 | Served | ZNew76 | Mpofini | | 53 | | Water supplied by smallholding |
| | | 7 | Served | ZNew108 | Shoba 2 | | 272 | | 2x BHs drilled. |
| | | 7 | Served | ZNew95 | Voorkeur | | 63 | | 1x BH Equipped |
| | | 12 | Served | ZNew161 | Emooi | | 80 |) | Partially served only. |
| | | 12 | Served | ZNew169 | Tintas Drift | | 84 | | 3x Handpumps |
| | | 12 | Served | ZNew179 | Mdlenevini | | 34 | | 1x BH Equipped |
| | | 12 | Served | ZNew172 | Haqa | | 8 | | 1x BH Equipped |
| | | 13 | Served | ZNew96 | Banya | | 10 | | 1x Handpump |
| | | 13 | Served | ZMAP123 | Ema300 | | 284 | | 2x BHs equipped |
| | | 13 | Served | ZNew93 | Eskame | | 52 | | |
| | | 13 | Served | ZNew109 | Hluma | | 45 | | 1x Handpump |
| | | 13 | Served | ZNew75 | Beafort (Tholithemba) | | 64 | Hydrocensus & Rudimentary water supply | 1x Handpump (Partially Served) |
| | | 14 | Served | Z126 | Qweqwe 1 | | 234 | Scheme Augmentation: New 250KL reservoir | |
| | | 14 | Served | Z133 | Mvunjane/Simashwini | | 467 | 7 Scheme Augmenetation: 100K Reservoir | |
| | | 15 | Served | Z125 | Esigodini | | 525 | Scheme Augmentation: New 250KL reservoir | |
| | | 7 | 2025/2026 | ZNew111 | Emakwateni | 940 000 | 68 | Hydrocensus & Rudimentary water supply | |
| | | 7 | 2025/2026 | ZNew112 | Geluk 1 | 390 000 | | Hydrocensus & Rudimentary water supply | |
| | | 7 | 2025/2026 | ZNew113 | Kwalancast | 480 000 | | Hydrocensus & Rudimentary water supply | |
| | | 7 | 2025/2026 | ZNew90 | Ntendeka 2 | 1 140 000 | | Hydrocensus & Rudimentary water supply | |
| | | 7 | 2025/2026 | ZNew94 | Zungweni | 810 000 | | Hydrocensus & Rudimentary water supply | |
| | | 8 | 2025/2026 | ZNew130 | Hellberg farms | 950 000 | | Hydrocensus & Rudimentary water supply | |
| | | 8 | 2026/2027 | ZNew127 | KwaBeshu | 670 000 | | Hydrocensus & Rudimentary water supply | |
| aQulusi | Hlahlindlela | 8 | 2026/2027 | ZNew129 | KwaBevu | 490 000 680 000 | | Hydrocensus & Rudimentary water supply | |
| Quiusi | Hianiindiela | 8 | 2026/2027 | ZNew126 | Magot | | | Hydrocensus & Rudimentary water supply | |
| | | 9 | 2026/2027 | ZNew154 | KwaMatiela KwaSavells | 510 000 530 000 | | Hydrocensus & Rudimentary water supply | |
| | | 9 | 2026/2027 2026/2027 | ZNew125 ZNew119 | Stillwater | 1 130 000 | | Hydrocensus & Rudimentary water supply Hydrocensus & Rudimentary water supply | |
| | | 12 | >2026/2027 | ZNew119 ZNew175 | Aardappel | 540 000 | | Hydrocensus & Rudimentary water supply Hydrocensus & Rudimentary water supply | |
| | | 12 | >2027 | ZNew163 | Brakfontein | 520 000 | | Hydrocensus & Rudimentary water supply | |
| | | 12 | >2027 | ZNew176 | Dubbelrecht | 440 000 | | Hydrocensus & Rudimentary water supply | |
| | | 12 | >2027 | ZNew160 | Enyanyeni | 510 000 | | Phydrocensus & Rudimentary water supply | |
| | | 12 | >2027 | ZNew178 | Fairplay | 470 000 | | Hydrocensus & Rudimentary water supply | |
| | | 12 | >2027 | ZNew173 | Geluk 3 | 410 000 | | Hydrocensus & Rudimentary water supply | |
| | | 12 | >2027 | ZNew171 | Grootfontein | 660 000 | | Hydrocensus & Rudimentary water supply | |
| | | 12 | >2027 | ZNew170 | KwaMshomoloza | 580 000 | 28 | Hydrocensus & Rudimentary water supply | |
| | | 12 | >2027 | ZNew164 | Langverwacht | 660 000 | | Hydrocensus & Rudimentary water supply | |
| | | 12 | >2027 | ZNew165 | Mawelawela | 580 000 | | Hydrocensus & Rudimentary water supply | |
| | | 12 | >2027 | ZNew167 | Nsengeni | 470 000 | 20 | Hydrocensus & Rudimentary water supply | |
| | | 12 | >2027 | ZNew162 | Vamba | 600 000 | | Hydrocensus & Rudimentary water supply | |
| | | 13 | >2027 | ZNew74 | Golden Valley | 870 000 | | Hydrocensus & Rudimentary water supply | |
| | | 13 | >2027 | ZNew77 | Klipfontein | 570 000 | | Hydrocensus & Rudimentary water supply | |
| | | 13 | >2027 | ZNew110 | Kwabanga 1 | 960 000 | | Hydrocensus & Rudimentary water supply | |
| | | 13 | >2027 | ZNew92 | Kwabanga 2 | 780 000 | | Hydrocensus & Rudimentary water supply | |
| | | 22 | >2027 | ZNew124 | Betel | 490 000 | | Hydrocensus & Rudimentary water supply | |
| | | 22 | >2027 | ZNew106 | Eensgevonden plotte | 1 130 000 | | Hydrocensus & Rudimentary water supply | |
| | | 22 | >2027 | ZNew122 | Fearmdale | 980 000 | | Hydrocensus & Rudimentary water supply | |
| | | 22 | >2027 | ZNew123 | KwaLubeck | 490 000 | | Hydrocensus & Rudimentary water supply | |
| | | 22 22 | >2027 >2027 | ZNew120 ZNew121 | Scheepersnek Zaaifontein | 640 000 510 000 | | Hydrocensus & Rudimentary water supply Hydrocensus & Rudimentary water supply | |

2025-2026 Review Section 11: Page 41 of 70

| | | | | | RUDIMEN | TARY ROLLOUTS | | Section 11: List of projects |
|-----------------------|------------------|-------------|---------------------------------|-------------------|-----------------------|----------------------|--|--|
| | | | | | RODIIII ZII | | | |
| | Served/Comple | ted Projec | ets | | | | | |
| | Settlement Stat | tus to be v | verified (2025/26) | | | | | |
| | Priority Project | s for next | financial year | | | | | |
| | | | | | | Φ. | | |
| Local Municipality | Regional | Wards | Year | Z-Nr | Settlement Name | Cost Estimate | Households Proposed Intervention | Progress to date |
| | | 2 | Served | ZNew18 | Kwazondo | | 21 | 1x BH Equipped |
| 1 | | 2 | Served | ZNew13 | Ongcwezeni (Eskame) | 1370000 | 185 Hydrocensus & Rudimentary water supply | 1x Handpump |
| | | 3 | Served | ZNew31 | Ndulinde | | 54 | |
| | | 3 | Served | ZNew29 | Mabova | | 32 | 1x BH Equipped |
| | | 4 | Status to be verified (2025/26) | ZNew67 | Thabankulu | | 32 | 1x BH Equiped |
| | | 5 | Served | ZNew82 | KwaJohn 2 | | 21 | 1x BH Equiped |
| | | 13 | Served | ZNew72 | Ishoba 1 | | 131 | 4x BH Equipped |
| | | 2 | Status to be verified (2025/26) | | Dlomodlomo 2 | 1370000 | 172 | Drilled 3 x BH's (COVID19 project). To equip 2x BH's |
| | | | , , | | | | | Site and drill one borehole |
| | | 3 | Status to be verified (2025/26) | | Bhukubhu | 400 000 | 29 Test 2 springs | Equip existing artesian borehole with tank, |
| | | 4 | Status to be verified (2025/26) | ZMAP55 | Weltevreden 2 | 60 000 | 55 Equip existing BH | overflow to livestock. |
| | | 4 | Status to be verified (2025/26) | ZNew66 | KwaPaul | 350 000 | 6 Drill 1x BH | Site and drill one borehole |
| | | 4 | Status to be verified (2025/26) | ZNew64 | Emgageni | 1 900 000 | 146 Hydrocensus & Rudimentary water supply | (2025/26) |
| | | 5 | Status to be verified (2025/26) | ZMAP75 | Mbogozi | 900 000 | 131 Investigate 3x springs | Handed over to COGTA |
| | | 2 | 2025/2026 | ZMAP62 | Ketango | 440 000 | 17 Hydrocensus & Rudimentary water supply | |
| | 121 1: | 2 | 2025/2026 | ZMAP63a | Nsonyane | 870 000 | 29 Hydrocensus & Rudimentary water supply | |
| AbaQulusi | Khambi | 2 | 2025/2026 | ZMC13 | Ntabazelanga | 660 000 | 27 Hydrocensus & Rudimentary water supply | |
| | | 2 2 | 2025/2026 2026/2027 | ZNew16 ZNew19 | Kwakopie Kwathemba | 420 000 590 000 | 13 Hydrocensus & Rudimentary water supply 30 Hydrocensus & Rudimentary water supply | |
| | | 2 | 2026/2027 | ZNew19 ZNew12 | Mphitiphtini | 1 640 000 | 134 Hydrocensus & Rudimentary water supply | |
| | | 2 | 2026/2027 | ZNew17 | Ndulo | 390 000 | 9 Hydrocensus & Rudimentary water supply | |
| | | 2 | 2026/2027 | ZNew14 | Ngongomane | 2 140 000 | 177 Hydrocensus & Rudimentary water supply | |
| | | 2 | 2026/2027 | ZNew15 | Diomodiomo | 520 000 | 25 Hydrocensus & Rudimentary water supply | |
| | | 2 | >2027 | ZNew11 | Thuthukani | 450 000 | 14 Hydrocensus & Rudimentary water supply | |
| | | 3 | >2027 | ZNew181 | Hlanganani CPA | 370 000 | 6 Hydrocensus & Rudimentary water supply | |
| | | 3 | >2027 | ZNew30 | Kewulane | 1 070 000 | 81 Hydrocensus & Rudimentary water supply | |
| | | 3 | >2027 | ZNew28 | Mthumeni | 380 000 | 15 Hydrocensus & Rudimentary water supply | |
| | | 4 | >2027 | ZNN21 | eMkhweleni | 800 000 | 53 Hydrocensus & Rudimentary water supply | |
| | | 4 | >2027 | ZNew70 | Berlin | 380 000 | 8 Hydrocensus & Rudimentary water supply | |
| | | 4 | >2027 | ZNew60 | Dagane | 660 000 | 39 Hydrocensus & Rudimentary water supply | |
| | | 4 | >2027 | ZNew68 | Elim | 460 000 | 15 Hydrocensus & Rudimentary water supply | |
| | | 4 | >2027 | ZNew62 | Enqothweni | 980 000 | 78 Hydrocensus & Rudimentary water supply | |
| | | 4 | >2027 | ZNew69 | Entabeni 1 | 410 000 | 8 Hydrocensus & Rudimentary water supply | |
| | | 4 | >2027 | ZNew53 | Kwamahashi | 590 000 | 30 Hydrocensus & Rudimentary water supply | |
| | | 4 | >2027 | ZNew65 | Kwaschoeman | 490 000 | 11 Hydrocensus & Rudimentary water supply | |
| | | 4 | >2027 >2027 | ZNew61 ZMAP126 | Leeunek 1 Mangoe | 510 000 1 250 000 | 24 Hydrocensus & Rudimentary water supply 103 Hydrocensus & Rudimentary water supply | |
| | | 4 | >2027 | ZNew59 | Siyaphambile | 650 000 | 33 Hydrocensus & Rudimentary water supply | |
| | | 5 | >2027 | ZNew81 | Ekamvu | 560 000 | 26 Hydrocensus & Rudimentary water supply | |
| | | 5 | >2027 | ZNew131 | Lenjane 2 | 730 000 | 26 Hydrocensus & Rudimentary water supply | |
| | | 8 | >2027 | ZNew127 | KwaBeshu | 670 000 | 32 Hydrocensus & Rudimentary water supply | |
| | | 8 | >2027 | ZNew129 | KwaBevu | 490 000 | 23 Hydrocensus & Rudimentary water supply | |
| | | 8 | >2027 | ZNew126 | Magot | 680 000 | 41 Hydrocensus & Rudimentary water supply | |
| | | 9 | >2027 | ZNew125 | KwaSavells | 530 000 | 25 Hydrocensus & Rudimentary water supply | |
| | | 9 | >2027 | ZNew119 | Stillwater | 1 130 000 | 90 Hydrocensus & Rudimentary water supply | |
| | | 12 | >2027 | ZNew160 | Enyanyeni | 510 000 | 22 Hydrocensus & Rudimentary water supply | |
| | | 13 | >2027 | ZNew73 | Leeunek 2 | 420 000 | 12 Hydrocensus & Rudimentary water supply | |

2025-2026 Review Section 11: Page 42 of 70

| | | | | | RUDIMENTAR | RY ROLLOUT | S | Section 11. List of projects |
|-----------------------|--|------------|---------------------------------|---------|---|---------------|---|-------------------------------------|
| | Served/Comple | ted Projec | te | | | | | |
| | | | | | | | | |
| | Settlement Status to be verified (2025/26) Priority Projects for next financial year | | | | | | | |
| | Priority Project | s for next | financial year | | | | | |
| Local Municipality | Regional | Wards | Year | Z-Nr | Settlement | Cost Estimate | Households Proposed Intervention | Progress to date |
| | | 7 | 2025/2026 | ZPM35 | Baqulusini 5 | 450 000 | 15 Hydrocensus & Rudimentary water supply | |
| | | 7 | 2025/2026 | ZTAS56 | Palmietfontein (Rondspring 137, Kwambhedleni) | 550 000 | 24 Hydrocensus & Rudimentary water supply | |
| | Coronation | 7 | 2026/2027 | ZNew149 | Gweje | 1 170 000 | 87 Hydrocensus & Rudimentary water supply | |
| | | 7 | >2027 | ZNew146 | Makhwabe | 370 000 | 9 Hydrocensus & Rudimentary water supply | |
| | | 7 | Served | ZNew150 | Mqwabe | | 28 | 1x BH Equipped |
| | | 7 | Served | ZMAP4 | Mthashana | | 44 | 1x BH Equipped |
| | | 7 | Served | ZMAP6 | Koudbad / Welverdiend | | 36 | |
| | | 7 | Status to be verified (2025/26) | ZNew6 | KwaManzi | 300 000 | 26 Investigate spring | Handed to COGTA |
| | Hlahlindlela | 1 | 2025/2026 | ZNew4 | Bivanyana | 710 000 | 38 Hydrocensus & Rudimentary water supply | |
| | | 1 | 2025/2026 | ZNew132 | Khambula mission | 890 000 | 60 Hydrocensus & Rudimentary water supply | |
| | | 1 | 2026/2027 | ZNew133 | Penvaan | 1 300 000 | 100 Hydrocensus & Rudimentary water supply | |
| | | 7 | >2027 | ZNew152 | Sefamanzi | 790 000 | 47 Hydrocensus & Rudimentary water supply | |
| | | 7 | >2027 | ZNew148 | Zungwini | 490 000 | 23 Hydrocensus & Rudimentary water supply | |
| | | 1 | Status to be verified (2025/26) | ZNew141 | Bazangoma | | 107 | |
| | | 2 | Served | Z788 | Mangosuthu | | 2126 Scheme Augmentation: Boreholes & Rising main | |
| | | 3 | Status to be verified (2025/26) | ZNew3 | Mandakane | 700 000 | 403 Drill 2x BHs | BH's to be drilled for water supply |
| | | 1 | 2025/2026 | ZMAP71 | Bella Vista | 830 000 | 53 Hydrocensus & Rudimentary water supply | |
| | | 1 | 2025/2026 | ZMAP1 | Rooipoort | 850 000 | 57 Hydrocensus & Rudimentary water supply | |
| | | 1 | 2025/2026 | ZNew143 | Brecher | 730 000 | 43 Hydrocensus & Rudimentary water supply | |
| | | 1 | 2025/2026 | ZNew135 | Eloyi | 790 000 | 49 Hydrocensus & Rudimentary water supply | |
| | | 1 | 2025/2026 | ZNew155 | Ematafuleni | 530 000 | 22 Hydrocensus & Rudimentary water supply | |
| eDumbe | Sim West | 1 | 2025/2026 | ZNew9 | Esitikini | 560 000 | 26 Hydrocensus & Rudimentary water supply | |
| | | 1 | 2025/2026 | ZNew139 | Hloko | 1 100 000 | 67 Hydrocensus & Rudimentary water supply | |
| | | 1 | 2026/2027 | ZNew10 | Knoopaan | 1 680 000 | 128 Hydrocensus & Rudimentary water supply | |
| | | 1 | 2026/2027 | ZNew140 | KwaBhema | 850 000 | 57 Hydrocensus & Rudimentary water supply | |
| | | 1 | >2027 | ZNew134 | Kwalembe | 900 000 | 61 Hydrocensus & Rudimentary water supply | |
| | | 1 | >2027 | ZNew142 | Loti | 660 000 | 36 Hydrocensus & Rudimentary water supply | |
| | | 1 | >2027 | ZNew136 | Mkhupane | 540 000 | 26 Hydrocensus & Rudimentary water supply | |
| | | 1 | >2027 | ZNew137 | Ntshakwe | 550 000 | 25 Hydrocensus & Rudimentary water supply | |
| | | 1 | >2027 | ZMAP120 | Schikhoek (Land Reform) | 870 000 | 62 Hydrocensus & Rudimentary water supply | |
| | | 1 | >2027 | ZMAP121 | Tholwethu (Land Reform) | 1 070 000 | 73 Hydrocensus & Rudimentary water supply | |
| | | 1 | >2027 | ZNew144 | Titane | 690 000 | 36 Hydrocensus & Rudimentary water supply | |
| | | 7 | >2027 | ZNew151 | Ndabezitha | 460 000 | 13 Hydrocensus & Rudimentary water supply | |
| | | 7 | >2027 | ZNew5 | Nzenze | 550 000 | 80 Hydrocensus & Rudimentary water supply | |
| | | 8 | >2027 | ZNew8 | Nhlungwane | 1 450 000 | 116 Hydrocensus & Rudimentary water supply | |

2025-2026 Review Section 11: Page 43 of 70

| | | | | | RUDIMENTARY | ROLLOUT | S | | Section 11: List of projects |
|-----------------------|-------------------|-------------|---------------------------------|--------|--------------------|---------------|------------|---|---|
| | | | | | | | | | |
| | Served/Complete | ed Project | S | | | | | | |
| | Settlement Statu | us to be ve | rified (2025/26) | | | | | | |
| | Priority Projects | for next f | inancial year | | | | | | |
| | | | | | | | | | |
| Local Municipality | Regional | Wards | Year | Z-Nr | Settlement Name | Cost Estimate | Households | Proposed Intervention | Progress to date |
| | | 2 | Served | Z234 | Kwankweme | | 5 | 8 | 5x Handpump Equipped Hydrocensus completed. No source. |
| | | 2 | Unsuccessful | ZMAP38 | Ntenjane | | 4 | 1 Only Water Tankers | rydrocensus completed. No source. River/Stream water or Tanker delivery from ZDM. |
| | | 5 | Served | Z247 | Mpuphusi | | 13 | | Repair Generator, no drilling |
| | | 2 | Served | ZBUK21 | Enkanyezini | 1 050 000 | | 7 Drilled 2x BHs, to equip | Handpump equipped |
| | | 7 | Status to be verified (2025/26) | Z204 | Sibanyaneni | | 12 | | 3x BH Equipped |
| | | 20 | Served | Z227 | Manqashaneni | | 11 | 6 | 2x BH Equipped |
| | | 2 | Status to be verified (2025/26) | ZMAP39 | Dungamanzi 1 | 350 000 | | 2 Drill 1x BH | 1x BH drilled, to be equipped |
| Nongoma | Mandhlakazi | 7 | Status to be verified (2025/26) | Z954 | Bhidi | 350 000 | | 4 Drill 1x BH | |
| | | 1 | 2025/2026 | ZMAP20 | Mhlanjeni | 510 000 | | 6 Hydrocensus & Rudimentary water supply | |
| | | 2 | 2025/2026 | Z236 | Esixeni | 530 000 | | 2 Hydrocensus & Rudimentary water supply | |
| | | 2 | 2026/2027 | ZBUK11 | Vusu Musi | 1 090 000 | 7 | 0 Hydrocensus & Rudimentary water supply | |
| | | 3 | 2026/2027 | ZBUK25 | Magendene | 550 000 | 2 | 5 Hydrocensus & Rudimentary water supply | |
| | | 7 | >2027 | Z198b | Dongothule | 2 070 000 | 6 | 9 Hydrocensus & Rudimentary water supply | |
| | | 7 | >2027 | ZBUK23 | Mgolokotho | 610 000 | 2 | 7 Hydrocensus & Rudimentary water supply | |
| | | 18 | >2027 | ZBUK24 | Meyame | 440 000 | 1 | 5 Hydrocensus & Rudimentary water supply | |
| | | 18 | >2027 | Z243 | Zibusele | 1 710 000 | 14 | 5 Hydrocensus & Rudimentary water supply | Only partially served. |
| | | 13 | Served | ZMAP28 | Mahayoyo | | 22 | 8 Regional scheme water supply | |
| | | 21 | Served | Z607 | Mangomhlophe | | 30 | 0 | |
| | | 4 | Status to be verified (2025/26) | | Emaqeleni 3 | 350 000 | | 3 Drill 1x BH | There is a water pipe that comes from a water tank. The water comes from a spring uphill that |
| | | 12 | Status to be verified (2025/26) | Z338 | Esigoqobeni | 980 000 | 6 | 3 Drill 1x BH | |
| | | 12 | Status to be verified (2025/26) | ZKAY4 | Emayeni 1 | 350 000 | 5 | 0 Drill 1x BH | No source of water in the area for this community. Site and drill one borehole around |
| | | 12 | Status to be verified (2025/26) | Z342 | Emayeni 2 | 350 000 | 8 | 3 Drill 1x BH | |
| | | 12 | Status to be verified (2025/26) | Z340 | Esidakeni 1 | 350 000 | 5 | 8 Drill 1x BH | |
| Nongoma | Usuthu | 12 | Status to be verified (2025/26) | Z339 | Ngwabe | 700 000 | 7 | 8 Drill 2x BHs | |
| | | 13 | Status to be verified (2025/26) | | Embokodweni | 1 120 000 | | 5 Protect spring & refurbish reticulation | |
| | | 4 | >2027 | Z362 | Emaqeleni 2 | 370 000 | | 0 Hydrocensus & Rudimentary water supply | |
| | | 11 | 2025/2026 | Z147 | Ngolotshe | 3 710 000 | | 6 Hydrocensus & Rudimentary water supply | |
| | | 11 | >2027 | ZMAP9 | Doncaneni | 950 000 | | 6 Hydrocensus & Rudimentary water supply | |
| | | 12 | 2025/2026 | ZMAP15 | Dum-Dum | 680 000 | 3 | 5 Hydrocensus & Rudimentary water supply | |
| | | 12 | 2025/2026 | Z349 | Isizinda A | 410 000 | | 9 Hydrocensus & Rudimentary water supply | |
| | | 12 | 2025/2026 | Z341 | Isizinda B | 1 620 000 | | 7 Hydrocensus & Rudimentary water supply | |
| | | 12 | 2025/2026 | Z373 | Nhloyane | 410 000 | | 0 Hydrocensus & Rudimentary water supply | |
| | | 12 | 2026/2027 | ZMAP13 | Nqalu | 780 000 | | 6 Hydrocensus & Rudimentary water supply | |
| | | 12 | 2026/2027 | ZAM12 | Ezingolaneni | 610 000 | | 6 Hydrocensus & Rudimentary water supply | |
| | | 12 | >2027 | ZMAP16 | KwaLuphonjwana | 1 650 000 | | 4 Hydrocensus & Rudimentary water supply | |
| | | 12 | >2027 | Z346 | KwaQuqu | 350 000 | | 0 Hydrocensus & Rudimentary water supply | |
| | | 12 | >2027 | Z374 | Ngalonde | 1 350 000 | 9 | 4 Hydrocensus & Rudimentary water supply | |
| | | 12 | >2027 | ZAM11 | Nzama | 1 300 000 | 9 | 6 Hydrocensus & Rudimentary water supply | |
| | | 21 | 2026/2027 | Z614 | Mayini / Ntonga | 2 380 000 | | 5 Hydrocensus & Rudimentary water supply | |
| | | 21 | 2026/2027 | Z597 | Semangadini | 1 250 000 | | 7 Hydrocensus & Rudimentary water supply | |
| | | 21 | >2027 | Z598 | Mpunzana | 2 190 000 | 19 | 4 Hydrocensus & Rudimentary water supply | |

2025-2026 Review Section 11: Page 44 of 70

| | | | | | RUDIMENTA | ARY ROLLOUT | s | | Section 11: List of projects |
|-----------------------|------------------|--------------|---------------------------------|-------------------|-------------------------|--------------------|------------|---|--|
| | | | | | 1.022 | | | | |
| | Served/Comple | eted Project | ts | | | | | | |
| | Settlement Sta | tus to be v | erified (2025/26) | | | | | | |
| | Priority Project | ts for next | financial year | | | | | | |
| | | | | | | | | | |
| Local Municipality | Regional | Wards | Year | Z-Nr | Settlement Name | Cost Estimate | Households | Proposed Intervention | Progress to date |
| | | 8 | Served | Z931 | Mahlabathini | | | 0 Handpump | |
| | | 13 | Served | ZHC3 | Witpoort | | 1 | 7 Handpump | |
| | | 13 | Served | ZNew115 | KwaHenie (Thandabantu) | | 17 | 8 | 2x Boreholes Equipped |
| | | 14 | Served | Z413 | Njomelwane | | 31 | 8 Handpump | |
| | | | | | | | | | |
| | | 16 | Served | Z479 | Emakhosini | | | O Scheme Augmenetation: Borehole, Rising Main and Reservoir | |
| | | 20 | Served | Z795 | KwaMvula | | 14 | 1 Handpump | |
| | | 20 | Served | Z745 | Kwagqikazi | | 32 | 6 Handpump | |
| | | 20 | Served | Z402a | Kwavilakazi 2 | | 12 | 2 Handpump | |
| | | 24 | Served | Z813 | Enguge | | | '8 Handpump | |
| | | 24 | Served | ZTAS18 | Ezimfeneni | | | 7 Drilled, tested, to equip | 1x Handpump (Partially Served) |
| | | 24 | Served | ZMAP108 | Basamlilo | | 6 | 6 | 2x BH Equipped |
| | | 24 | Served | ZTAS19 | Ezikhumbeni | | 9 | 9 | 1x Handpump |
| | | 24 | Served | ZMAP109 | Ezisasaneni | | 2 | 6 | 2x BH Equipped |
| | | 9 | Status to be verified (2025/26) | ZNew79 | Manaba | 350 000 | 1 | 0 Drill & equip borehole | No source in the area. Borehole proposed in the area |
| | | 8 | Status to be verified (2025/26) | Z88 | Donsamahoho | 1 000 000 | | Scheme extension | |
| | | | (, | | | | | | |
| | | 8 | Status to be verified (2025/26) | Z692 | eWela 2 | 350 000 | | Drill & equip borehole | |
| | | 8 | Status to be verified (2025/26) | Z685 | Mganimbobo | | | Drill & equip borehole | |
| Ulundi | Nkonjeni | 14 | Status to be verified (2025/26) | | eWela 1 | 350 001 | | Drill & equip borehole | |
| | | 23 | Status to be verified (2025/26) | Z939 | Denny Dalton | 2 000 000 | 4 | 0 Scheme Augmentation | |
| | | 13 | 2025/2026 | ZTAS10 | Mandeva | 490 000 | 2 | 0 Hydrocensus & Rudimentary water supply | |
| | | 13 | 2025/2026 | ZAM5 | Ensileni | 400 000 | | 9 Hydrocensus & Rudimentary water supply | |
| | | 13 | 2026/2027 | ZMAP96 | Mbombo | 650 000 | | 4 Hydrocensus & Rudimentary water supply | |
| | | 13 | 2026/2027 | ZNew87 | Maduna | 460 000 | | 6 Hydrocensus & Rudimentary water supply | |
| | | 13 | >2027 | ZNew114 | Nhlazatshe | 550 000 | | 8 Hydrocensus & Rudimentary water supply | |
| | | 13 | >2027 | ZAM9a | Thkelana 1 | 580 000 | | 7 Hydrocensus & Rudimentary water supply | |
| | | 13 | >2027 | ZMAP95 | Mzingathi | 550 000 | | 5 Hydrocensus & Rudimentary water supply | |
| | | 15 | 2025/2026 | ZMAP92 | Nsingizane 2 | 420 000 | | 1 Hydrocensus & Rudimentary water supply | |
| | | 16 | 2026/2027 | ZMAP90 | Nzololo | 1 200 000 | | 2 Equip BH & rising main | |
| | | 16 | >2027 | ZNew80 | Mandevu 1 | 340 000 | | 4 Hydrocensus & Rudimentary water supply | |
| | | 16 | >2027 | ZNew24 | Nyashana | 350 000 | | 5 Hydrocensus & Rudimentary water supply | |
| | | 16 21 | >2027 2026/2027 | ZNew23 ZMAP102 | Qanuatho Kwamadumela | 400 000 540 000 | | 9 Hydrocensus & Rudimentary water supply 9 Hydrocensus & Rudimentary water supply | |
| | | 21 | >2027 | ZNew101 | Dorsfontein | 350 000 | | Hydrocensus & Rudimentary water supply Hydrocensus & Rudimentary water supply | |
| | | 24 | >2027 | ZNew101 ZNew99 | Isandiwana | 380 000 | | 5 Hydrocensus & Rudimentary water supply | |
| | | 27 | - 2021 | Z1 40 W 33 | Iodiamand | 300 000 | | o riyarooonoao a raadiinentary water suppry | 1 |

2025-2026 Review Section 11: Page 45 of 70

| | | | | | RUDIMENTARY | ROLLOUT | S | |
|-----------------------|--|----------------|---|-------------------------|---|---------------------------------|--|--|
| | Served/Complet | ed Projec | ts | | | | | |
| | Settlement Status to be verified (2025/26) Priority Projects for next financial year | | | | | | | |
| | | | | | | | | |
| | Priority Projects | for next | rinanciai year | | | | | |
| Local Municipality | Regional | Wards | Year | Z-Nr | Settlement Name | Cost Estimate | Households Proposed Intervention | Progress to date |
| | | 6 7 14 | Served Served Served | Z32 Z674 Z706 | Mashiyane oBhokweni Mbanda | | 162 214 Reticulation 37 Served by Esphiva scheme | 3x BH Equipped Stand-alone scheme |
| | | 5 15 14 | Status to be verified (2025/26) Status to be verified (2025/26) >2027 | | Mshayazafe Hluthy (Kwa-Hlaza) Makhalathini Kwamswane | 700 000 2 480 000 590 000 | 21 Hydrocensus & Rudimentary water supply 30 Drill 2x BHs 218 Hydrocensus Status to be verified (2025/26) 23 Hydrocensus & Rudimentary water supply | No source in the area. Community get water from Umfolozi River. Two boreholes are proposed at Hluthy Hlaza and Hluthy Dlaiya Investigation Status to be verified (2025/26) |
| Ulundi | Usuthu | 15 15 15 | 2025/2026 >2027 >2027 | ZMAP110 Z689 Z698 | Mgubameni Obinda Pholela | 520 000 590 000 1 580 000 | 25 Hydrocensus & Rudimentary water supply 15 Hydrocensus & Rudimentary water supply 130 Hydrocensus & Rudimentary water supply | |
| | | 1 | Served | ZNew37 | Kwaslevu | 1 380 000 | 37 Drill 2x BHs | |
| | Coronation | 1 | Served | ZNew41 | Kwamshikashika | | 32 | Only one successful borehole uotside settlement |
| | | 1 | 2026/2027 | ZNew42 | Kwaphatha | 600 000 | 28 Hydrocensus & Rudimentary water supply | |
| | | 1 | Served | ZNew43 | Morreson | | 85 | Only one successful borehole equipped |
| | | 1 | Proposed | Z936 | Magudu | 10 000 000 | 151 Scheme Augmentation | |
| | | 1 | 2025/2026 | ZMAP52 | Hhinihhini | 490 000 | 18 Hydrocensus & Rudimentary water supply | |
| | Gumbi | 1 | 2025/2026 | ZNew36 | Emganwini | 600 000 | 28 Hydrocensus & Rudimentary water supply | |
| uPhongolo | | 1 | 2026/2027 | ZNew44 | Emkhayeni | 1 420 000 | 100 Hydrocensus & Rudimentary water supply | |
| | | 14 | 2026/2027 | ZNew157 | Ngulwane | 600 000 | 35 Hydrocensus & Rudimentary water supply | |
| | Sim Central | 6 | Served | ZBUK63 | Diomodiomo 1 | | 95 Handpump | |
| | Sim East | 7 | Served | Z496 | Sivule | | 195 Served by Regional Scheme | |
| | | 1 | | | Eskhaleni | 350 000 | 69 Drill BH | 1x Spring tested, unsuccessful. Investigate BH supply |
| | | 1 | 2025/2026 | ZMAP32 | Kwampondo | 920 000 | 61 Hydrocensus & Rudimentary water supply | |
| | Usuthu | 1 | 2025/2026 | ZHC25 | Mpalaza | 1 180 000 | 93 Hydrocensus & Rudimentary water supply | |
| | | 1 | 2026/2027 | ZNew35 | Embangeni | 770 000 | 49 Hydrocensus & Rudimentary water supply | |

2025-2026 Review Section 11: Page 46 of 70

Table 11.4.4: Roll-out of New Rural Sanitation Services

2025-2026 Review Section 11: Page 47 of 70

| URBAN SEWER ROLLOUTS | | | | | | | | | | | |
|----------------------|---|----------|------------|--------------------------|------------|-------------|--|--|--|--|--|
| Municipality | Bulk Sewer | Wards | Z_Number | Settlement Name | Households | Cost | | | | | |
| Abaqulusi | | 2 | ZNew47 | Kwamadamu | 149 | | | | | | |
| eDumbe | Water-borned Sewer to eDumbe & Paulpietersburg town | 3,9 | ZNew46 | Paulpietersburg & eDumbe | 2962 | 205 000 000 | | | | | |
| Nongoma | Upgrade Nongoma Town water-borne sewer | 9,19 | ZNew31 | Nongoma Town | 419 | 295 000 000 | | | | | |
| Ulundi | Upgrade Ulundi Town water-borne sewer | 12,19,22 | Not on GIS | Ulundi Town | 5806 | 120 000 000 | | | | | |
| uPhongolo | Upgrade Pongola Town WWTW | 2,10,11 | Not on GIS | Pongola & Ncotshane | 5720 | TBC | | | | | |

2025-2026 Review Section 11: Page 48 of 70

| Allocated by ZI 2022/2023 but not implement 2025/2021 Abaqulusi Local Municipality >2027 | M in | Wards 2 2 3 15 15 15 15 17 23 4 4 13 | Z_Number ZNew47 ZNew46 ZNew31 Not on GIS Not on GIS Not on GIS Not on GIS Z116 Z941 ZNew97 Not on GIS Not on GIS | Settlement Name Kwamadamu Emarondweni Ndulinde Esigodini Ginqa Thelezeni Ntshibantshiba Ginqa (Bhobozane) Emadwaleni 1 KwaBoy 3 Bhelekazi | 40 40 | Cost Completed Completed Completed Completed Completed Completed Completed Completed | NOT PART OF SAN BP or WSDP rollo. |
|--|-------|--|---|--|------------------------------------|---|-------------------------------------|
| Allocated by Zi 2022/2023 but not implement 2025/2026 2025/2026 Abaqulusi Local Municipality | vere | 2 3 15 15 15 15 15 17 23 4 4 4 13 | ZNew46 ZNew31 Not on GIS Not on GIS Not on GIS Not on GIS 2116 Z941 ZNew97 Not on GIS Not on GIS Not on GIS | Emarondweni Ndulinde Esigodini Ginqa Thelezeni Ntshibantshiba Ginqa (Bhobozane) Emadwaleni 1 KwaBoy 3 | 12 119 100 40 40 30 | Completed Completed Completed Completed Completed | NOT PART OF SAN BP or WSDP rollo |
| Allocated by Zi 2022/2023 but not implement a 2025/2021 Abaqulusi Local Municipality | vere | 3 15 15 15 15 15 15 17 23 4 4 4 13 | ZNew46 ZNew31 Not on GIS Not on GIS Not on GIS Not on GIS 2116 Z941 ZNew97 Not on GIS Not on GIS Not on GIS | Emarondweni Ndulinde Esigodini Ginqa Thelezeni Ntshibantshiba Ginqa (Bhobozane) Emadwaleni 1 KwaBoy 3 | 12 119 100 40 40 30 | Completed Completed Completed Completed Completed | NOT PART OF SAN BP or WSDP rollo |
| Allocated by Zi 2022/2023 but not implement according to the property of the p | vere | 15 15 15 15 15 17 23 4 4 4 13 | Not on GIS Not on GIS Not on GIS Not on GIS 2116 2941 ZNew97 Not on GIS Not on GIS Not on GIS | Esigodini Ginqa Thelezeni Ntshibantshiba Ginqa (Bhobozane) Emadwaleni 1 KwaBoy 3 | 100 40 40 30 40 | Completed Completed Completed | NOT PART OF SAN BP or WSDP rollou |
| Allocated by ZZ 2022/2023 but not implement and implement according to the control of the contro | vere | 15 15 15 15 17 23 4 4 4 13 | Not on GIS Not on GIS Not on GIS 2116 2941 ZNew97 Not on GIS Not on GIS Not on GIS | Ginqa Thelezeni Ntshibantshiba Ginqa (Bhobozane) Emadwaleni 1 KwaBoy 3 | 40 40 30 40 | Completed Completed | NOT PART OF SAN BP or WSDP rollou |
| Allocated by Zi 2022/2023 but not implement according to the second seco | vere | 15 15 15 17 23 4 4 4 13 | Not on GIS Not on GIS Z116 Z941 ZNew97 Not on GIS Not on GIS | Thelezeni Ntshibantshiba Ginqa (Bhobozane) Emadwaleni 1 KwaBoy 3 | 40 30 40 | Completed | |
| Allocated by Zi 2022/2023 but not implement according to the second seco | vere | 15 15 17 23 4 4 4 13 | Not on GIS Z116 Z941 ZNew97 Not on GIS Not on GIS | Ntshibantshiba Ginqa (Bhobozane) Emadwaleni 1 KwaBoy 3 | 30 40 | | NOT PART OF SAN BP or WSDP rollou |
| 2022/2023 but not implement 2025/2026 2026/2023 Abaqulusi Local Municipality | vere | 15 17 23 4 4 4 13 | Z116 Z941 ZNew97 Not on GIS Not on GIS | Ginqa (Bhobozane) Emadwaleni 1 KwaBoy 3 | 40 | | NOT PART OF SAN BP or WSDP rollou |
| 2022/2023 but not implement 2025/2026 2026/2023 Abaqulusi Local Municipality | vere | 17 23 4 4 4 13 | Z941 ZNew97 Not on GIS Not on GIS | Emadwaleni 1 KwaBoy 3 | | Completed | NOT PART OF SAN BP or WSDP rollou |
| 2022/2023 but not implement 2025/2026 2026/2023 Abaqulusi Local Municipality | vere | 23 4 4 4 4 13 | ZNew97 Not on GIS Not on GIS | KwaBoy 3 | | Completed Completed | |
| 2022/2023 but not implement 2025/2026 2026/2023 Abaqulusi Local Municipality | vere | 4 4 4 13 | Not on GIS Not on GIS | | | Completed | |
| 2022/2023 but not implement 2025/2026 2026/2023 Abaqulusi Local Municipality | vere | 4 4 13 | Not on GIS | DITCICKUZI | 52 | | NOT PART OF SAN BP or WSDP rollo |
| 2022/2023 but not implement 2025/2026 2026/2023 Abaqulusi Local Municipality | vere | 4 13 | | Mabhula | 51 | | NOT PART OF SAN BP or WSDP rollo |
| 2025/2021 Abaqulusi Local Municipality | - | 13 | Not on GIS | Ngada | 51 | | NOT PART OF SAN BP or WSDP rollo |
| 2025/2026 2026/2025 Abaqulusi Local Municipality | red | 4.2 | Not on GIS | Esidakeni | 6 | | NOT PART OF SAN BP or WSDP rollor |
| 2026/202: Abaqulusi Local Municipality | | 13 | Not on GIS | E17 | 48 | | NOT PART OF SAN BP or WSDP rollo |
| 2026/202: Abaqulusi Local Municipality | | 15 | Z121 | St. Paul | 40 | 800 000 | Already served with previous projec |
| 2026/202: Abaqulusi Local Municipality | | 15 | Not on GIS | Mdengenduku | 20 | 400 000 | NOT PART OF SAN BP or WSDP rollo |
| 2026/202: Abaqulusi Local Municipality | | All | | ocol & Baseline Studies for P | | TBA | |
| Abaqulusi Local Municipality | - | 15 | Z119 | Mhlangeni | 270 | 5 400 000 | |
| Abaqulusi Local Municipality | | 2 | ZNew48 | Empumazi | 16 | 320 000 | |
| Abaqulusi Local Municipality | - | 2 | ZNew49 | Kwamsezane | 62 | 1 240 000 | |
| Abaqulusi Local Municipality | - | 2 | ZNew40 ZNew15 | Kwasithole | 84 | 1 680 000 | |
| Abaqulusi Local Municipality | - | 2 | ZNew15 ZNew22 | Dlomodlomo Kwabudula | 33 30 | 660 000 600 000 | 1 |
| Abaqulusi Local Municipality | - | 2 | ZNew22 ZNew16 | Kwakopie | 16 | 320 000 | 1 |
| Abaqulusi Local Municipality | - | 2 | ZNew20 | Kwanmnunse | 61 | 1 220 000 | |
| Abaqulusi Local Municipality | - | 2 | ZNew19 | Kwathemba | 35 | 700 000 | |
| Abaqulusi Local Municipality | F | 2 | ZNew18 | Kwazondo | 23 | 460 000 | |
| Abaqulusi Local Municipality | l | 2 | ZNew21 | Makhwela | 94 | 1 880 000 | |
| Abaqulusi Local Municipality | | 2 | ZMAP65 | Mkuze | 13 | 260 000 | |
| Municipality | | 2 | ZNew17 | Ndulo | 9 | 180 000 | |
| Municipality | | 2 | ZNew14 | Ngongomane | 208 | 4 160 000 | |
| Municipality | | 2 | ZNew13 | Ongcwezeni | 190 | 3 800 000 | |
| Municipality | | 3 | ZNew29 | Mabova | 33 | 660 000 | |
| | | | | Boschoek (Bhokwe) Low- | | | |
| >2027 | - | 5 | Z960 | cost Housing | 1000 | | From 2022 allocated by ZDM |
| >2027 | - | 7 | ZNew107 | Shoba 1 | 512 | 10 240 000 | |
| >2027 | F | 7 5 | ZNew108 ZNew83 | Shoba 2 | 382 331 | 7 640 000 | |
| >2027 | F | 13 | ZNew86 | Shikila Triangle store | 1059 | 6 620 000 21 180 000 | |
| >2027 | - | 6 | ZNew104 | Enkwaleni | 1039 | 360 000 | |
| >2027 | | 6 | ZNew34 | Gobeni | 19 | 380 000 | |
| >2027 | | 6 | ZNew33 | Mciyo | 37 | 740 000 | |
| >2027 | T | 6 | ZNew103 | Uitzicht | 33 | 660 000 | |
| >2027 | Ī | 2 | ZNew12 | Mphitiphtini | 146 | 2 920 000 | |
| >2027 | | 2 | ZNew11 | Thuthukani | 17 | 340 000 | |
| >2027 | | 3 | ZNew27 | Hlanewana | 44 | 880 000 | |
| >2027 | >2027 | 3 | ZNew181 | Hlanganani CPA | 4 | 80 000 | |
| >2027 | | 3 | ZNew30 | Kewulane | 88 | 1 760 000 | |
| >2027 | | 3 | ZNew32 | Mfabantu | 20 | 400 000 | |
| >2027 | | 3 | ZNew28 ZNew26 | Mthumeni Shawelwo | 14 75 | 280 000 1 500 000 | 1 |
| >2027 | | 4 | ZNew64 | Emgageni | 157 | 3 140 000 | 1 |
| >2027 | | 4 | ZNew53 | Kwamahashi | 33 | 660 000 | |
| >2027 | | 4 | ZNew70 | Berlin | 10 | 200 000 | |
| | | 4 | ZNew52 | Boschoek | 18 | 360 000 | 1 |
| | | 4 | ZNew60 | Dagane | 48 | 960 000 | |
| | | 4 | ZNew68 | Elim | 16 | 320 000 | |
| | | 4 | ZNew56 | Emaqigwe | 26 | 520 000 | |
| | | 4 | ZNew58 | Enkaleni | 57 | 1 140 000 | |
| | | 4 | ZNew62 | Enqothweni | 83 | 1 660 000 | |
| | | 4 | ZNew69 | Entabeni 1 | 9 | 180 000 | |
| | L | 4 | ZNew57 | Hlongane | 38 | 760 000 | |
| | | 4 | ZNew54 | KwaDevan | 58 | 1 160 000 | |
| | | 4 | ZNew55 | KwaNgada | 62 | 1 240 000 | |
| | | 4 | ZNew66 | KwaPaul | 9 | 180 000 | |
| | | 4 | ZNew65 | Kwaschoeman | 17 | 340 000 | |
| 1 | | 4 | ZNew61 ZNew71 | Leeunek 1 Lenjane 1 | 31 70 | 620 000 1 400 000 | |

2025-2026 Review Section 11: Page 49 of 70

| | ı | NEW RURA | L SANITATION | I ROLLOUTS | | |
|-----------------|-----------------|----------|--------------------|----------------------------------|------------|------------------------|
| Municipality | Sanitation Year | Wards | Z_Number | Settlement Name | Households | Cost |
| , | | 4 | ZNew59 | Siyaphambile | 38 | 760 000 |
| | | 4 | ZNew67 | Thabankulu | 38 | 760 000 |
| | | 5 | ZNew81 | Ekamvu | 20 | 400 000 |
| | | 5 | ZNew82 ZNew116 | KwaJohn 2 KwaMdaga | 22 104 | 440 000 2 080 000 |
| | | 5 | ZNew131 | Lenjane 2 | 26 | 520 000 |
| | | 7 | ZNew89 | Bozuzu | 30 | 600 000 |
| | | 7 | ZNew111 | Emakwateni | 95 | 1 900 000 |
| | | 7 | ZNew105 ZNew112 | Entabeni 2 Geluk 1 | 81 14 | 1 620 000 280 000 |
| | | 7 | ZNew130 | Hellberg farms | 80 | 1 600 000 |
| | | 7 | ZNew129 | KwaBevu | 26 | 520 000 |
| | | 7 | ZNew91 | Kwabozuzu | 23 | 460 000 |
| | | 7 | ZNew113 ZNew128 | Kwalancast KwaNgethe | 19 47 | 380 000 940 000 |
| | | 7 | ZNew153 | Kwatwo | 29 | 580 000 |
| | | 7 | ZNew126 | Magot | 45 | 900 000 |
| | | 7 | ZNew88 | Mtenteka | 59 | 1 180 000 |
| | | 7 | ZNew90 ZNew95 | Ntendeka 2 Voorkeur | 111 84 | 2 220 000 1 680 000 |
| | | 7 | ZNew94 | Zungweni | 62 | 1 240 000 |
| | | 8 | ZMAP122 | Vryheid Dump Site | 130 | 2 600 000 |
| | | 9 | ZNew154 | KwaNatiela | 21 26 | 420 000 |
| | | 9 | ZNew125 ZNew119 | KwaSavells Stillwater | 100 | 520 000 2 000 000 |
| | | 12 | ZNew163 | Brakfontein | 33 | 660 000 |
| | | 12 | ZNew177 | Brakfontein 2 | 12 | 240 000 |
| | | 12 | ZNew174 ZNew176 | Driefontein Dubbelrecht | 30 14 | 600 000 280 000 |
| Abaqulusi Local | >2027 | 12 | ZNew161 | Emooi | 92 | 1 840 000 |
| Municipality | | 12 | ZNew160 | Enyanyeni | 24 | 480 000 |
| | | 12 | ZNew173 | Geluk 3 | 8 | 160 000 |
| | | 12 12 | ZNew171 ZNew166 | Grootfontein Jimane/Driekwart | 51 174 | 1 020 000 3 480 000 |
| | | 12 | ZNew164 | Langverwacht | 39 | 780 000 |
| | | 12 | ZNew168 | Mabunya | 14 | 280 000 |
| | | 12 | ZNew172 | Middelpunt | 10 | 200 000 |
| | | 12 12 | ZNew169 ZNew162 | Tintas Drift Vamba | 163 33 | 3 260 000 660 000 |
| | | 13 | ZNew96 | Banga | 10 | 200 000 |
| | | 13 | ZNew75 | Beafort | 79 | 1 580 000 |
| | | 13 | ZMAP123 | Ema300 | 285 | 5 700 000 |
| | | 13 13 | ZNew93 ZNew74 | Eskame Golden Valley | 61 74 | 1 220 000 1 480 000 |
| | | 13 | ZNew109 | Hluma | 46 | 920 000 |
| | | 13 | ZNew72 | Ishoba 1 | 153 | 3 060 000 |
| | | 13 | ZNew85 | Ishoba 2 | 28 | 560 000 |
| | | 13 13 | ZNew77 ZNew110 | Klipfontein Kwabanga 1 | 20 85 | 400 000 1 700 000 |
| | | 13 | ZNew92 | Kwabanga 2 | 66 | 1 320 000 |
| | | 13 | ZNew73 | Leeunek 2 | 14 | 280 000 |
| | | 13 | ZNew84 | Ma'Romenie | 155 | 3 100 000 |
| | | 13 22 | ZNew76 ZNew124 | Mpofini Betel | 40 26 | 800 000 520 000 |
| | | 22 | ZNew106 | Eensgevonden plotte | 115 | 2 300 000 |
| | | 22 | ZNew122 | Fearmdale | 70 | 1 400 000 |
| | | 22 | ZNew123 | KwaLubeck | 25 41 | 500 000 |
| | | 22 | ZNew120 ZNew121 | Scheepersnek Zaaifontein | 28 | 820 000 560 000 |
| | 2025/2026 | All | | cocol & Baseline Studies for P | | TBA |
| | 2025/2026 | 7 | ZNew152 | Sefamanzi | 50 | 1 000 000 |
| | | 7 | ZNew147 | Mazezeni | 40 | 800 000 |
| | | 7 | ZNew146 ZNew148 | Makhwabe Zungwini | 9 27 | 180 000 540 000 |
| | 2026/2027 | 7 | ZNew149 | Gweje | 111 | 2 220 000 |
| | | 7 | ZNew150 | Mqwabe | 37 | 740 000 |
| | | 7 | ZNew156 | Doornkloof Matshekazi | 43 | 860 000 |
| eDumbe Local | | 7 | ZNew145 ZMAP120 | Schikhoek (Land Reform) | 180 70 | 3 600 000 1 400 000 |
| Municipality | | 1 | ZNew143 | Brecher | 43 | 860 000 |
| | | 1 | ZNew139 | Hloko | 66 | 1 320 000 |
| | | 1 | ZNew140 | KwaBhema | 65 | 1 300 000 |
| | >2027 | 1 | ZNew137 ZNew138 | Ntshakwe Ntshakwe (Mhlamone) | 31 169 | 620 000 3 380 000 |
| | | 4 | ZNew182 | Bilanyoni New Stands | 20 | 400 000 |
| | | 9 | ZNew134 | Kwalembe | 67 | 1 340 000 |
| | | 9 | ZMAP121 | Tholwethu (Land Reform) | 73 | 1 460 000 |
| | l | 9 | ZNew144 | Titane | 32 | 640 000 |

2025-2026 Review Section 11: Page 50 of 70

| | N | IEW RURA | L SANITATION | ROLLOUTS | | |
|---------------|-----------------|----------|----------------|--------------------------------|------------|------------------------|
| Municipality | Sanitation Year | Wards | Z_Number | Settlement Name | Households | Cost |
| | | 3 | Z331 | Machibini | 148 | Completed |
| | | 3 | ZBUK25 | Magendene | | Completed |
| | Completed | 3 | Z336 | Mapambeni | 135 | Completed |
| | | 3 | Z332 | Njonyomane | 95 | Completed |
| | | 3 | Z329 | Vesonweni | 50 | Completed |
| | | 5 | Z247 | Mpuphusi | | Completed |
| | | 5 | Z269 | Toyisa Langalesizwe | | Completed |
| | | All | | cocol & Baseline Studies for I | | TBA |
| | 2025/2026 | 23 | ZNew159 | Sikheleni B | 96 | 1 920 000 |
| | | 9 | Z215 | Mfankomo | 94 | 1 880 000 |
| | | 4 | Z192 Z190 | Makholweni Manyoni 1 | 61 237 | 1 220 000 4 740 000 |
| | | 4 | Z190 Z193 | Sindaba | 90 | 1 800 000 |
| | | 9 | Z214 | Mhlwehlwe | 73 | 1 460 000 |
| | 2026/2027 | 11 | ZNN23 | Emhemeni | 65 | 1 300 000 |
| | 2020/2027 | 10 | Z569 | Kwandwandwe | 148 | 2 960 000 |
| | | 11 | ZNN27 | Hlathidumayo | 79 | 1 580 000 |
| | | 11 | Z570 | Kwazungu | 176 | 3 520 000 |
| | | 11 | Z567 | Othinsangu | 119 | 2 380 000 |
| | | 12 | Z375 | Macekaneni | 98 | 1 960 000 |
| | | 12 | ZAM12 | Ezingolaneni | 27 | 540 000 |
| | | 12 | Z349 | Isizinda A | 10 | 200 000 |
| | | 12 | Z373 | Nhloyane | 10 | 200 000 |
| | | 12 | ZMAP13 | Nqalu | 54 | 1 080 000 |
| | | 6 | Z170 | Ekuvukeni | 191 | 3 820 000 |
| | | 6 | Z171 | Ndololwane | 63 | 1 260 000 |
| | | 10 | Z164 | Esweni | 92 | 1 840 000 |
| | | 10 | Z165 | Hlathi | 146 | 2 920 000 |
| | | 10 | ZMAP18 | Nokhesheni | 19 | 380 000 |
| | | 12 | ZMAP16 | KwaLuphonjwana | 121 | 2 420 000 |
| | | 12 | ZMAP14 | Ndlazini | 75 | 1 500 000 |
| | | 10 13 | Z168 | Magutshwa | 120 25 | 2 400 000 |
| | | 13 | Z362 Z362 | Emageleni 2 | 25 | 500 000 500 000 |
| | | 13 | Z359 | Emaqeleni 3 Embokodweni | 77 | 1 540 000 |
| longoma Local | | 13 | Z360 | Engwelezane | 29 | 580 000 |
| Municipality | | 13 | Z374 | Ngalonde | 96 | 1 920 000 |
| ···ame.pancy | | 14 | Z554 | Badlaneni | 150 | 3 000 000 |
| | | 14 | Z560 | Khalweni | 52 | 1 040 000 |
| | | 14 | Z559 | Newgoli | 111 | 2 220 000 |
| | | 23 | Z361 | Mashenge | 55 | 1 100 000 |
| | | 3 | Z314 | Emathlomane | 56 | 1 120 000 |
| | | 3 | Z322 | Esigodiphola 1 | 72 | 1 440 000 |
| | | 3 | Z291 | Geqa | 55 | 1 100 000 |
| | | 3 | Z317 | Hlushwaneni | 108 | 2 160 000 |
| | >2027 | 3 | Z316 | Mduda | 111 | 2 220 000 |
| | | 3 | Z321 | Mgxanyini | 131 | 2 620 000 |
| | | 3 | Z313 | Mngamunde | 30 | 600 000 |
| | | 3 | Z303 | Mthonjaneni | 123 | 2 460 000 |
| | | 3 | Z304 | Ntweni 1 | 84 | 1 680 000 |
| | | 3 | ZBUK29 | Shalashala | 69 | 1 380 000 |
| | - | 3 | Z290 | Zidwadweni | 93 | 1 860 000 |
| | | 6 | Z194/Z195/Z187 | Esidinsi | 665 | 13 300 000 |
| | | 11 | ZMAP9 | Doncaneni | 75 | 1 500 000 |
| | | 11 | Z156 | Entwala | 61 | 1 220 000 |
| | | 11 | Z155 | Eziqhumeni | 142 | 2 840 000 |
| | | 11 | ZBA1 | Kwavumela Masokaneni | 88 | 1 760 000 |
| | | 11 | Z152 | | 180 54 | 3 600 000 |
| | | 11 11 | Z153 Z151 | Mcibilindini Mhlabaneni | 71 | 1 080 000 1 420 000 |
| | | 11 | Z147 | Ngolotshe | 340 | 6 800 000 |
| | | 11 | Z157 | Ngala | 95 | 1 900 000 |
| | | 11 | Z154 | Zampilo | 41 | 820 000 |
| | | 17 | ZKAY8 | Echibini | 13 | 260 000 |
| | | 17 | Z641 | Efefe | 150 | 3 000 000 |
| | | 17 | Z644a | Kwanomehle | 29 | 580 000 |
| | | 17 | Z645 | Majomela | 438 | 8 760 000 |
| | | 17 | Z644b | Maqoma | 157 | 3 140 000 |
| | | 17 | Z642 | Obhuqwini | 126 | 2 520 000 |
| | | 22 | Z294 | Kolubomvu 1 | 20 | 400 000 |
| | - | 22 | Z292 | Kwajuba | 136 | 2 720 000 |
| | | | | | | |

2025-2026 Review Section 11: Page 51 of 70

| | N | EW RURA | L SANITATION | N ROLLOUTS | | | |
|---------------------------|--|----------|--------------------|---|--------------|------------------------|-------------------------------------|
| Municipality | Sanitation Year | Wards | Z_Number | Settlement Name | Households | Cost | |
| | | 16 | ZMAP87 | Nsingizane 1 | 38 | Completed | |
| | | 16 | ZNew24 | Nyashana | | Completed | |
| | | 16 | ZMAP88 | Qaba | | Completed | |
| | Completed | 16 | ZMAP117 | Mhlathuze | 45 | Completed | |
| | | 16 | ZMAP82 | Mombeni | 27 | | |
| | | 16 | ZMAP118 | Ngenetsheni | | Completed | |
| | | 16 | ZNew23 | Qanuatho | 9 | Completed | |
| | Allocated in 2022/2023 but were not | All | Community | Public Amenities - Ulundi Public Amenities - | 250 | 5 000 000 | NOT PART OF SAN BP or WSDP rollouts |
| | implemented | All | Community | Babanango | 250 | 5 000 000 | NOT PART OF SAN BP or WSDP rollouts |
| | 2025/2026 | All | Geoundwater Pro | tocol & Baseline Studies for P | roject Areas | TBA | |
| | 2023/2020 | 16 | ZBUK49 | Uitzight 203 | 17 | 340 000 | |
| | | 16 | ZNew183 | Ntinini | 81 | 1 620 000 | |
| Ulundi Local Municipality | 2026/2027 | 16 | ZMAP119 | Hlengile | 51 | 1 020 000 | |
| | | 13 | ZNew115 | KwaHenie | 204 | 4 080 000 | |
| | | 13 | ZNew87 | Maduna | 18 | 360 000 | |
| | | 13 | ZNew114 | Nhlazatshe | 57 | 1 140 000 | |
| | | 16 | ZNew80 | Mandevu 1 | 146 | 60 000 | |
| | | 16 16 | ZBUK51 ZMAP90 | Langfontein Nzololo-Maganda | 146 60 | 2 920 000 1 200 000 | |
| | | 15 | ZMAP90 ZMAP110 | | 26 | 520 000 | |
| | | 16 | ZMAP110 ZMAP100 | Mgubameni Dingaanstad | 61 | 1 220 000 | |
| | >2027 | 21 | ZNew101 | Dorsfontein | 2 | 40 000 | |
| | | 24 | ZNew100 | Eskhaleni Kwankosi | 13 | 260 000 | |
| | | 24 | ZNew99 | Isandiwana | 4 | 80 000 | |
| | | 9 | ZNew79 | Manaba | 12 | 240 000 | |
| | | 11 | ZNew98 | Kwamhlongo | 10 | 200 000 | |
| | | 15 | Z689 | Obinda | 12 | 240 000 | |
| | | 15 | Z710/Z711 | Okhukhu Phansikwentaba | 80 | 1 600 000 | |
| | | 1 | ZHR3 | Dwarsrand | 116 | Completed | |
| | | 1 | ZNew36 | Emganwini | 39 | Completed | |
| | | 1 | ZMAP52 | Hhinihhini | | Completed | |
| | | 1 | ZNew41 | Kwamshikashika | | Completed | |
| | Completed | 1 | ZNew42 | Kwaphatha | | Completed | |
| | | 1 | ZNew37 | Kwaslevu | | Completed | |
| | | 1 | ZNew43 | Morreson | | Completed | |
| | | 1 | ZNew38 | Mthaniya | | Completed | |
| | | 6 | Z527 | Mfaluvalo | | Completed | |
| | | 6 All | ZTAS57 | Thusazane tocol & Baseline Studies for P | 39 | Completed TBA | |
| | 2025/2026 | 3 | Z753 | Newstand | 118 | 2 360 000 | |
| | | 6 | Z768 | Klipwal | 179 | 3 580 000 | |
| | 2025/2027 | 6 | Z767 | Mfenyane | 82 | 1 640 000 | |
| | | 6 | ZBUK63 | Dlomodlomo 1 | 86 | 1 720 000 | |
| Dhaaaa i i i i | 2026/2027 | 12 | Z463 | Kwesimhlope (Manyander | 145 | 2 900 000 | |
| uPhongolo Local | | 12 | Z460 | Manyandeni | 265 | 5 300 000 | |
| Municipality | | 12 | Z464 | Gabela (Manyandeni) | 119 | 2 380 000 | |
| | >2027 | 1 | ZNew35 | Embangeni | 56 | 1 120 000 | |
| | | 1 | ZNew39 | Emthunzini | 39 | 780 000 | |
| | | 1 | ZNew118 | Eskhaleni | 92 | 1 840 000 | |
| | | 12 | Z789 | Kwazibhedlu | 32 | 640 000 | |
| | | 12 | Z486 | Nyawoshane | 122 | 2 440 000 | |
| | | 1 | ZNew44 | Emkhayeni | 96 | 1 920 000 | |
| | | 1 | ZMAP33 | Kwamhlanga | 52 | 1 040 000 | |
| | | 1 1 | ZMAP32 | Kwampondo | 71 | 1 420 000 | |
| | | 1 1 | ZJD1 Z936 | Kwasotsha | 21 168 | 420 000 3 360 000 | |
| | | 1 | ZTAS51 | Magudu Manzamhlophe | 130 | 2 600 000 | |
| | | 1 | ZMAP31 | Mpakama | 292 | 5 840 000 | |
| | | 1 | ZHC25 | Mpalaza | 100 | 2 000 000 | |
| | | | | | 88 | | |
| | | 1 | ZMAP81 | Nyaliza | XXI | 1 760 000 | |

2025-2026 Review Section 11: Page 52 of 70

Table 11.4.5: 5-Year Water & Sanitation Reliability Service Delivery Projects

2025-2026 Review Section 11: Page 53 of 70

Projects from the 5-year Water Reliability Master Plan will be implemented through the newly completed Water Conservation and Water Demand Management Plan. The most critical projects will be addressed first as funding is allocated for these projects.

2025-2026 Review Section 11: Page 54 of 70

11.5 Project Rollout Maps

11.5.1 Regional Water Supply Schemes

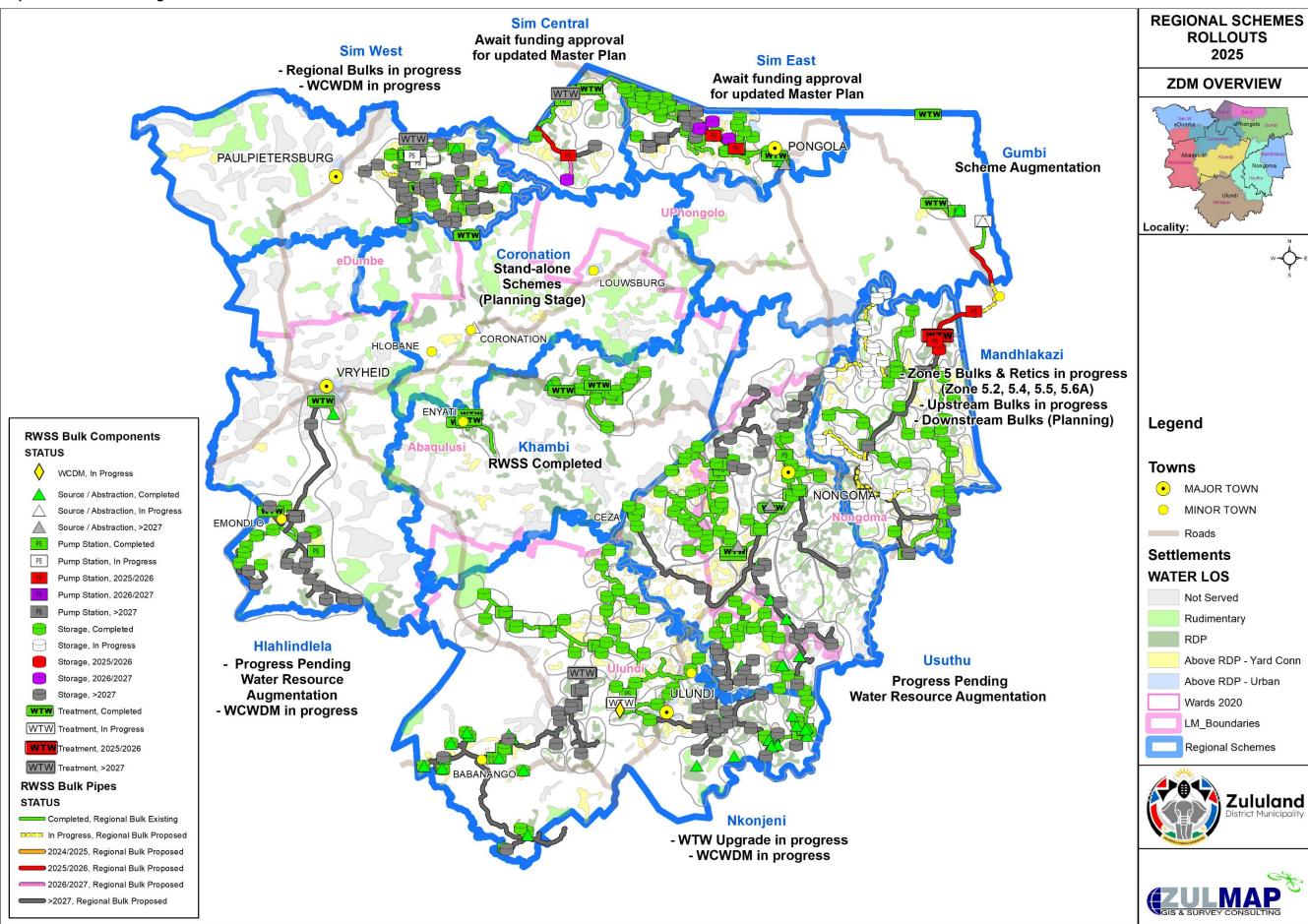
11.5.2 Intermediate Stand-alone Schemes

11.5.3 Rudimentary Water Supply

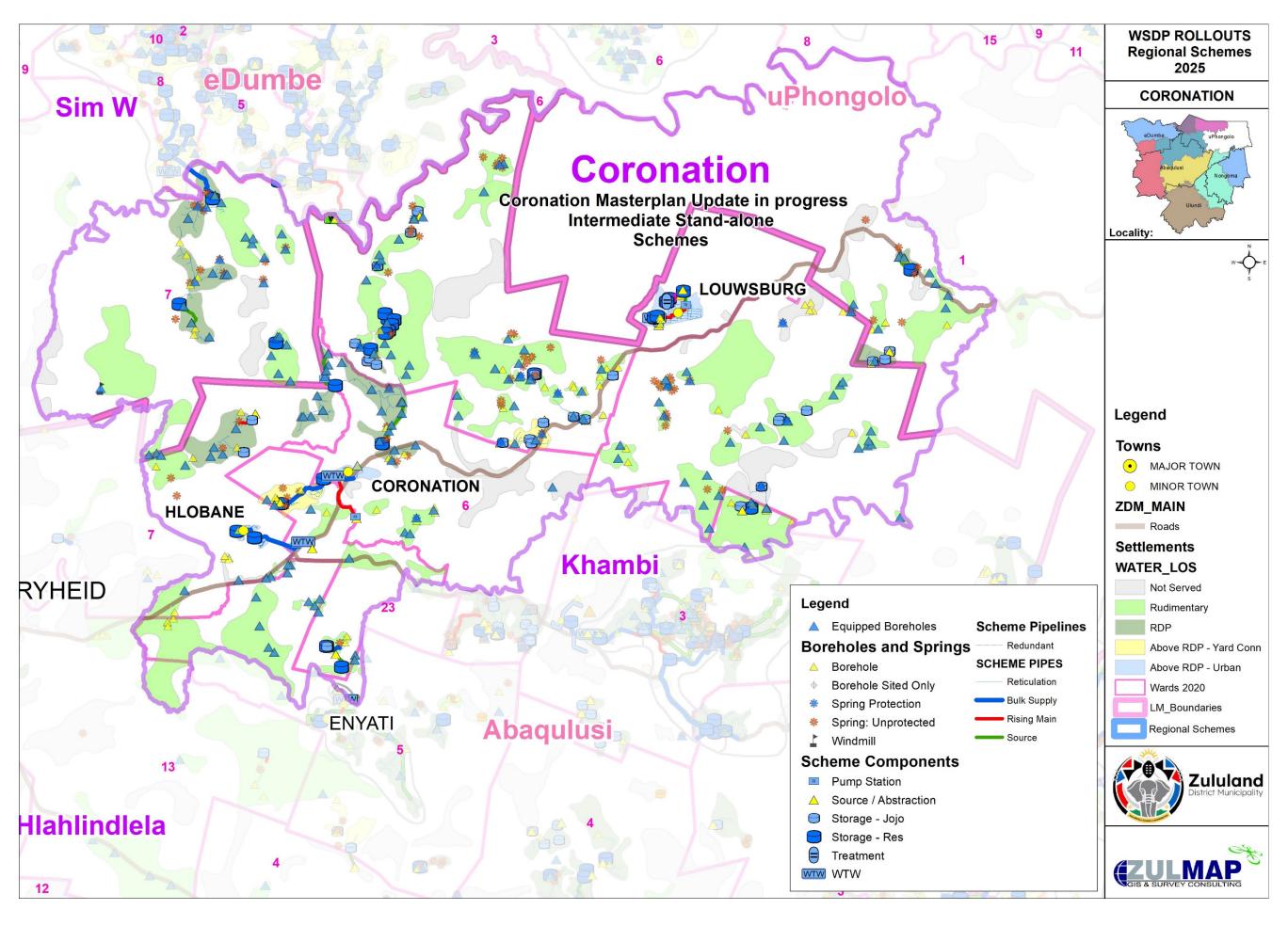
11.5.4 Sanitation Rollouts

2025-2026 Review Section 11: Page 55 of 70

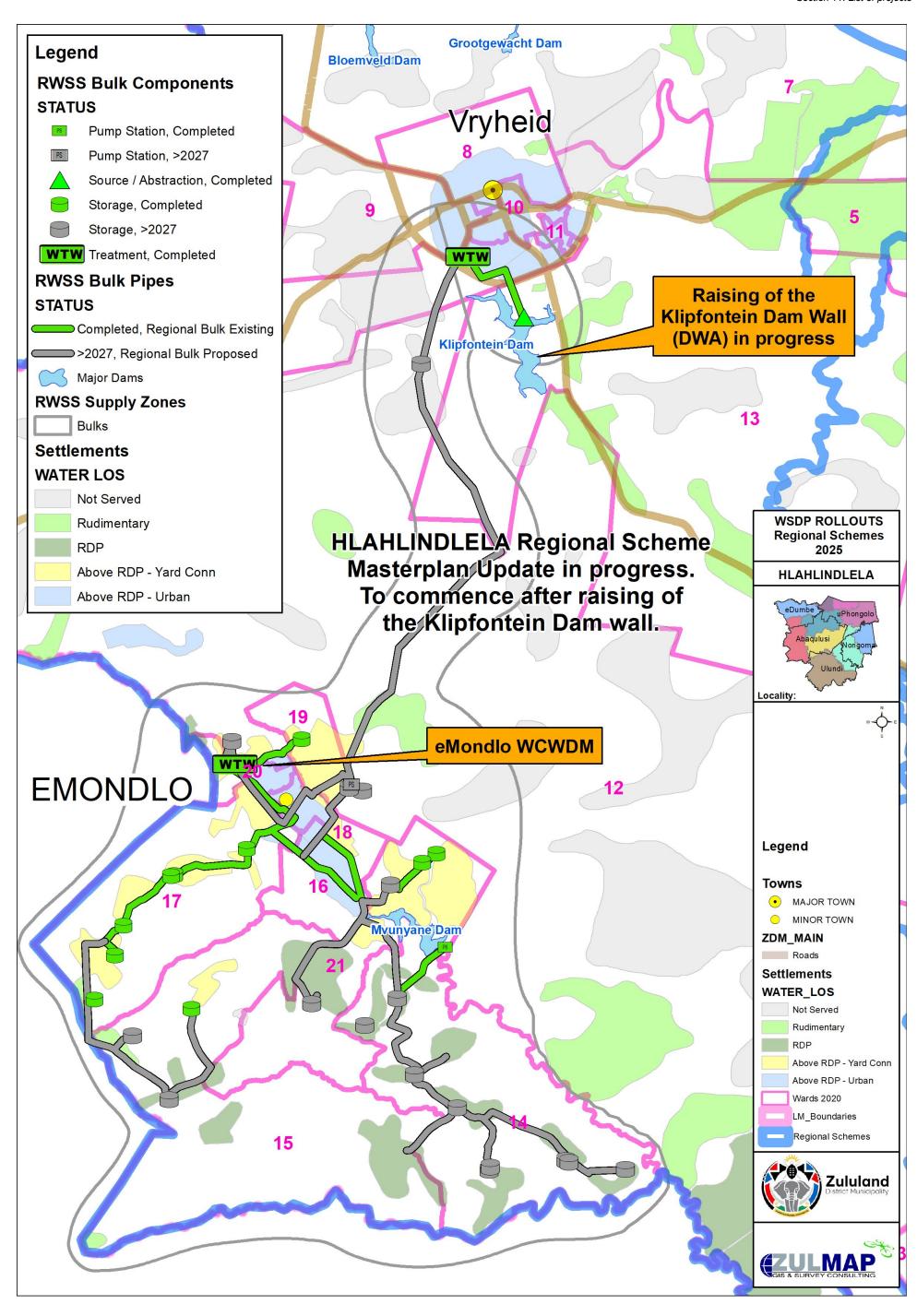
Map 11.5.1: Roll-out of regional water services in the district



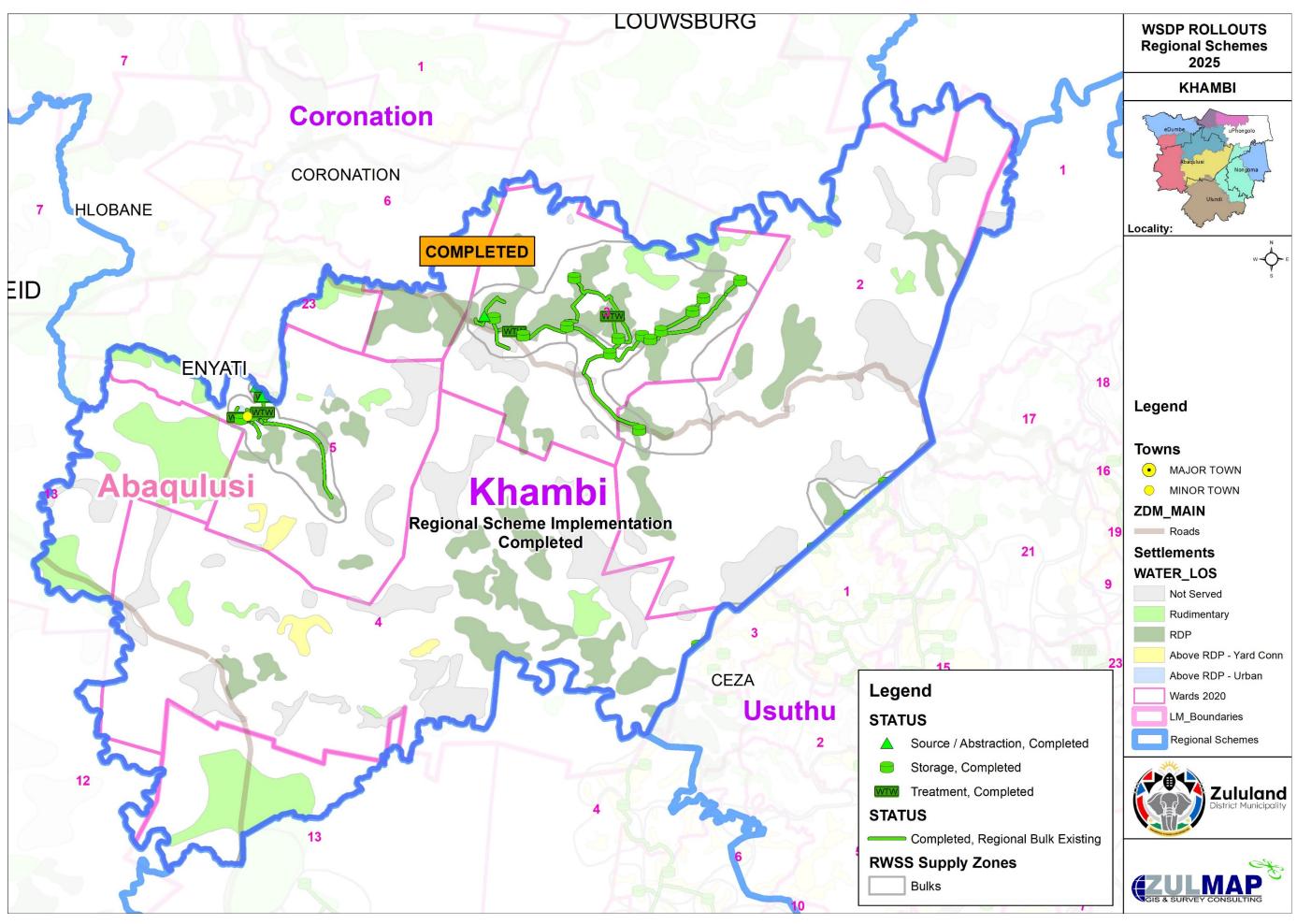
2025-2026 Review Section 11: Page 56 of 70

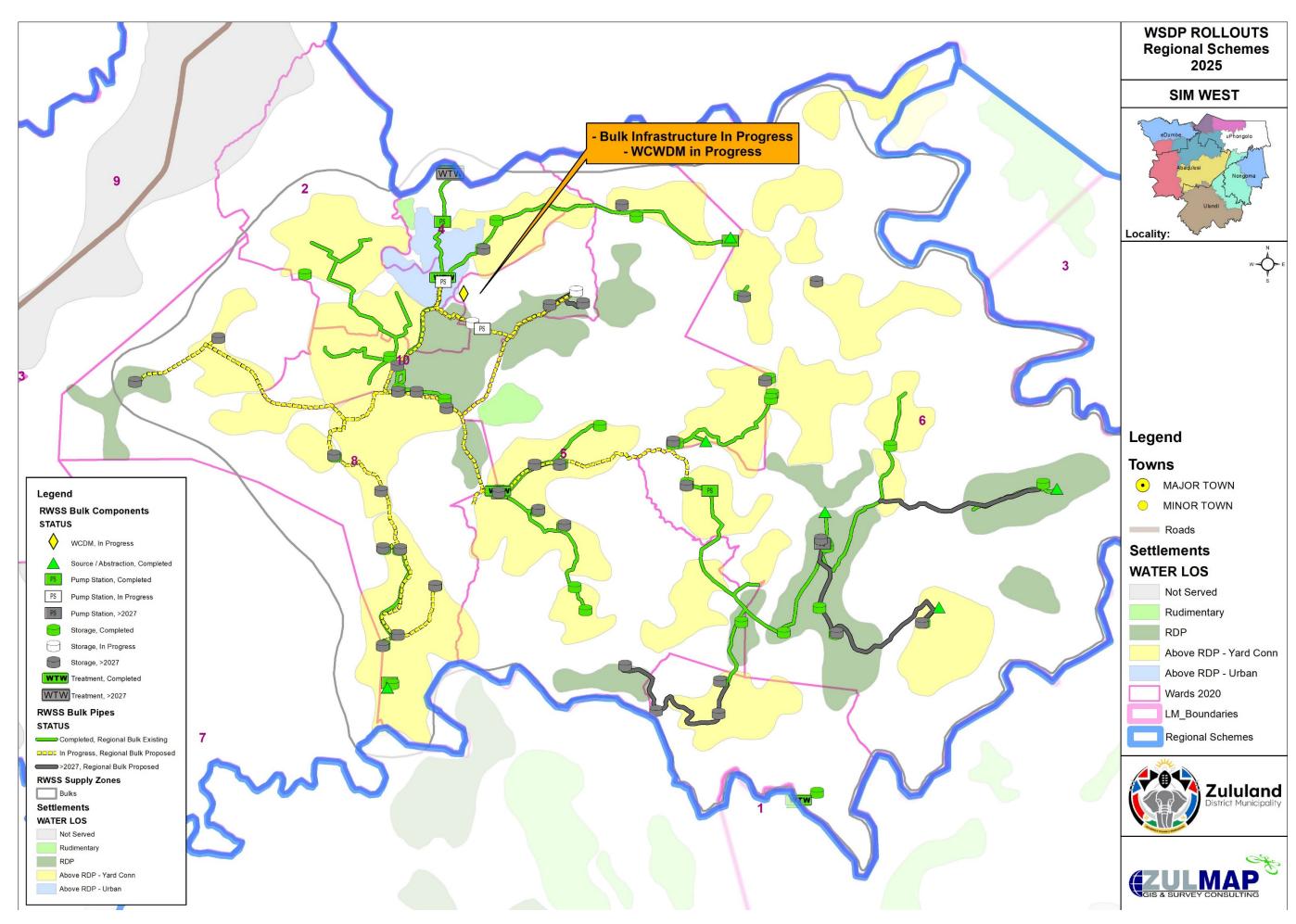


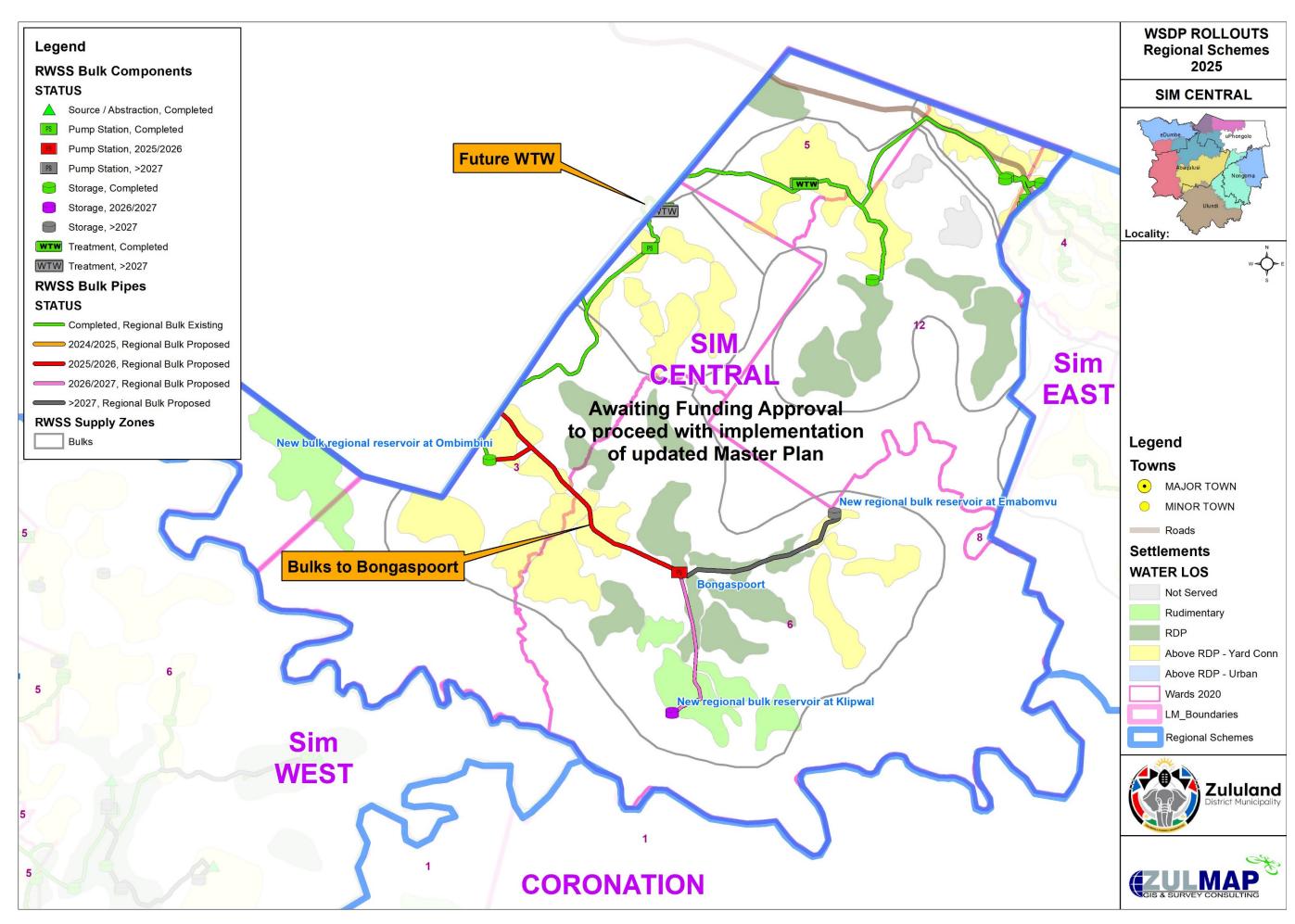
2025-2026 Review Section 11: Page 57 of 70

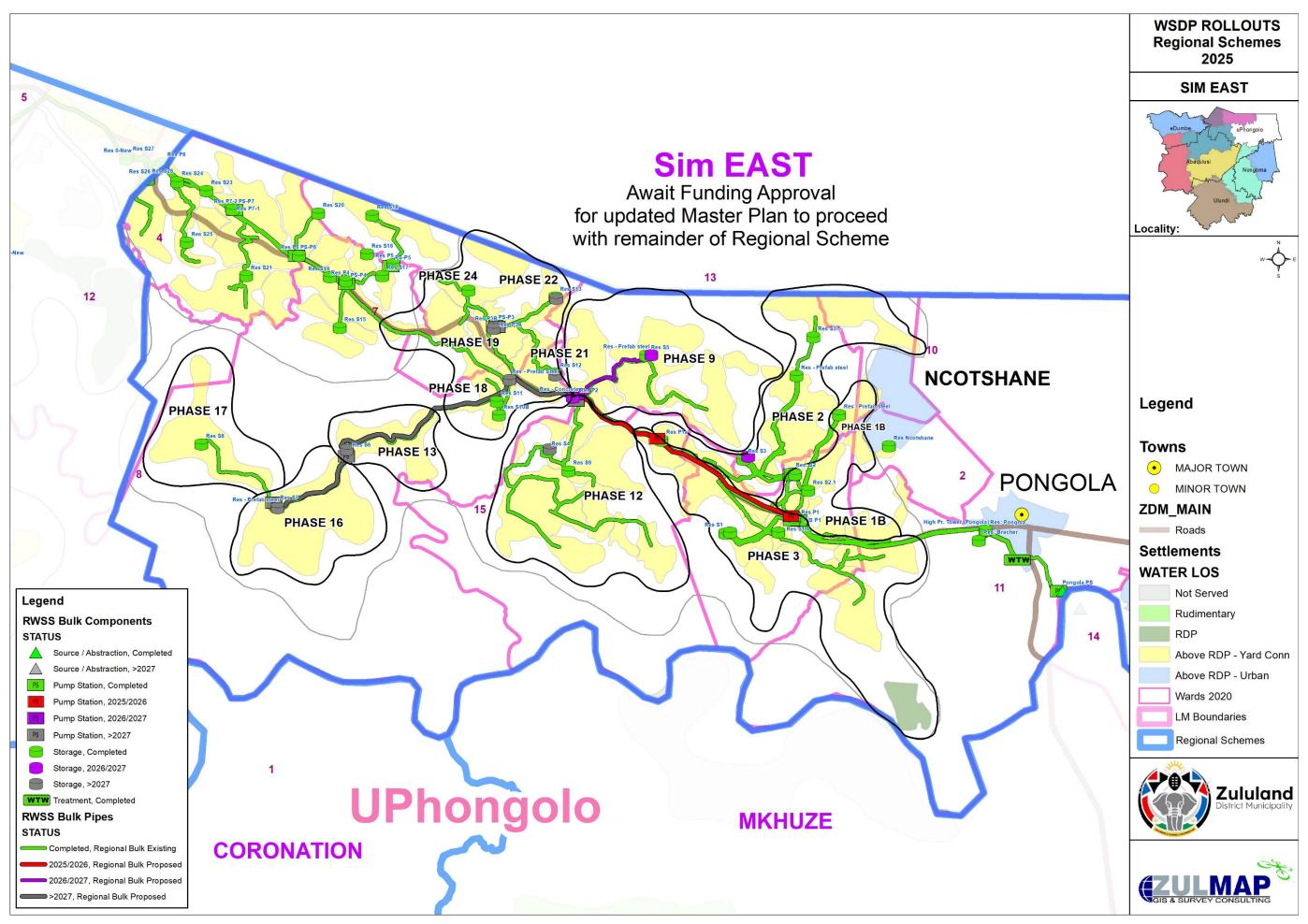


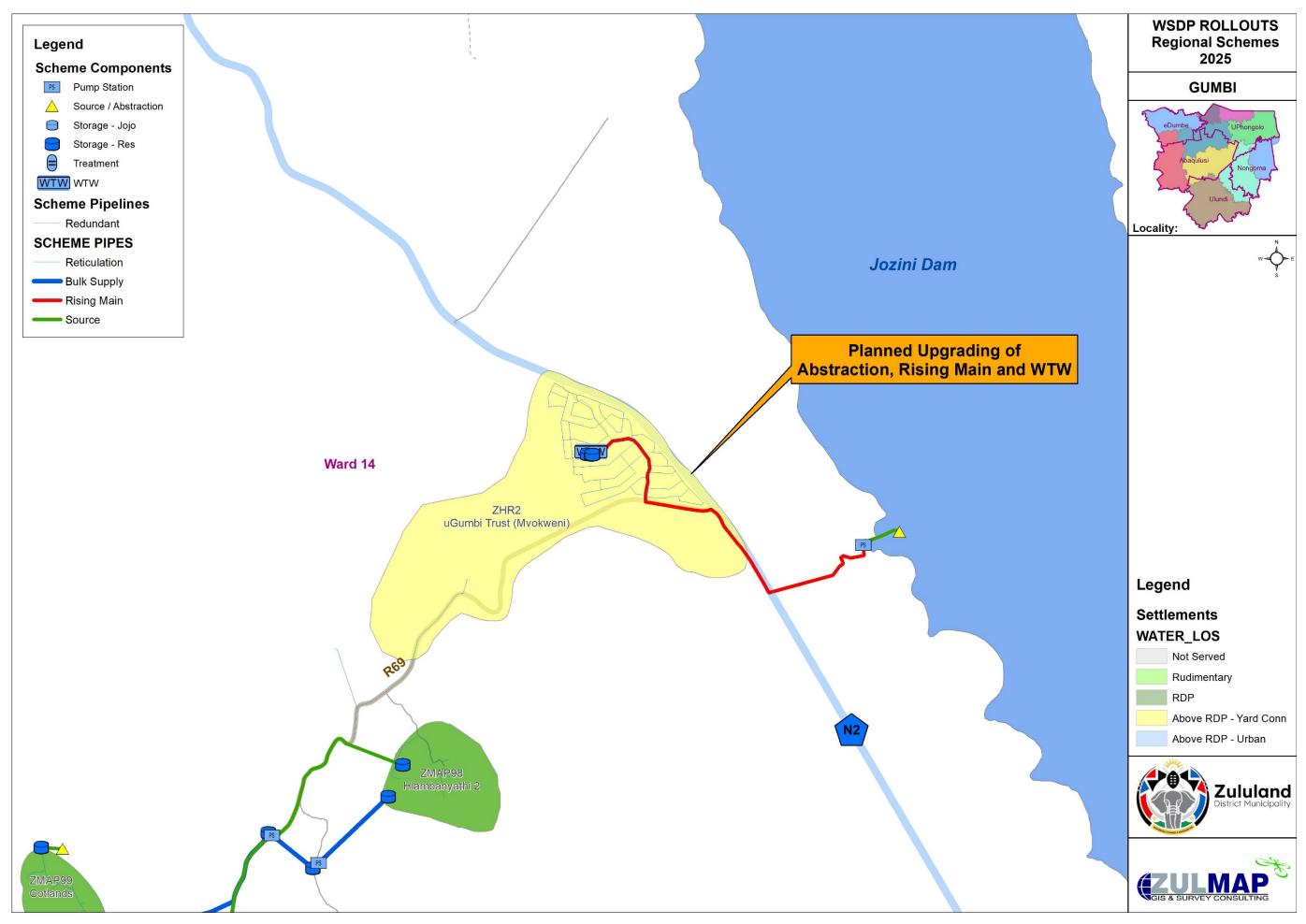
2025-2026 Review Section 11: Page 58 of 70

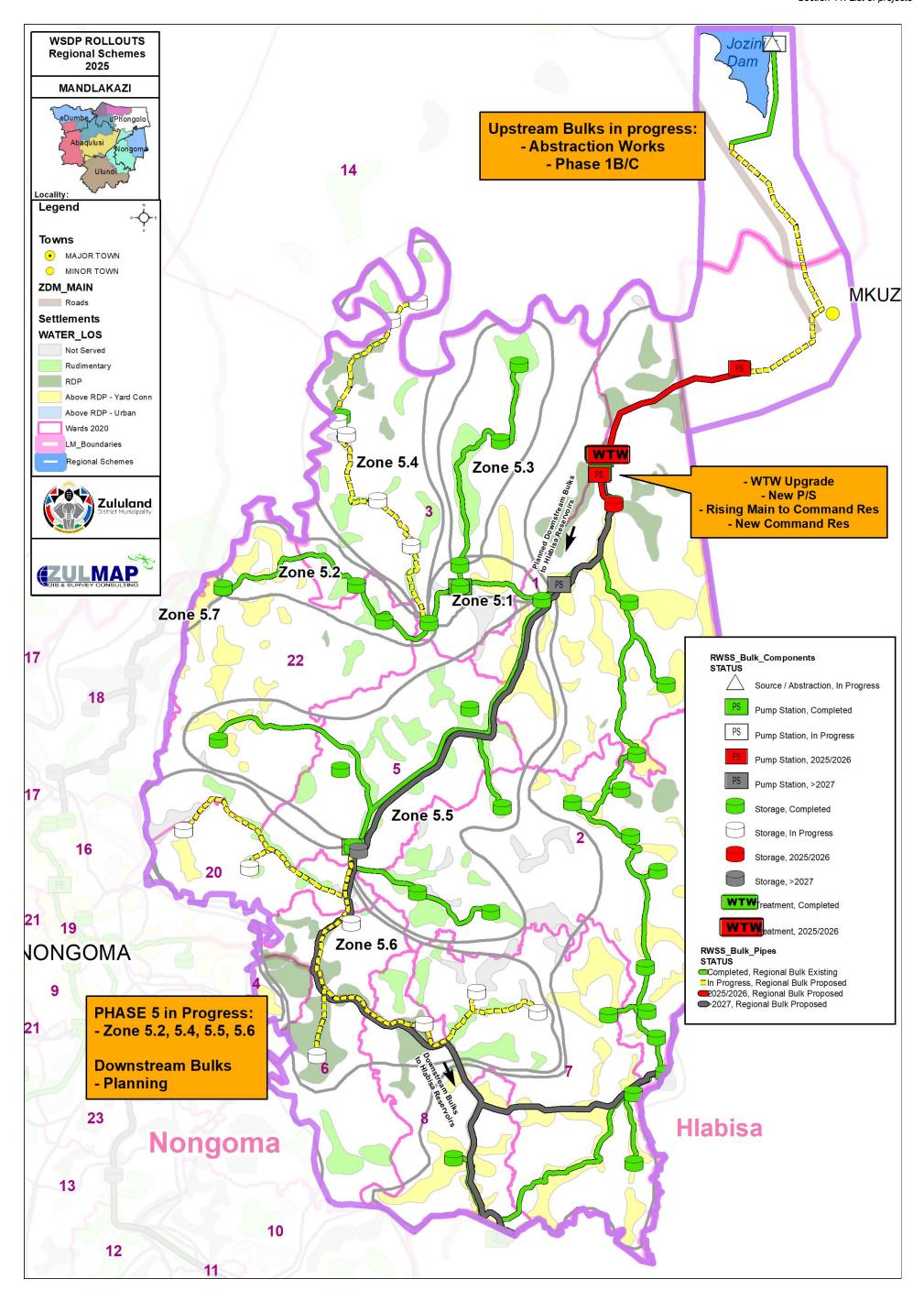




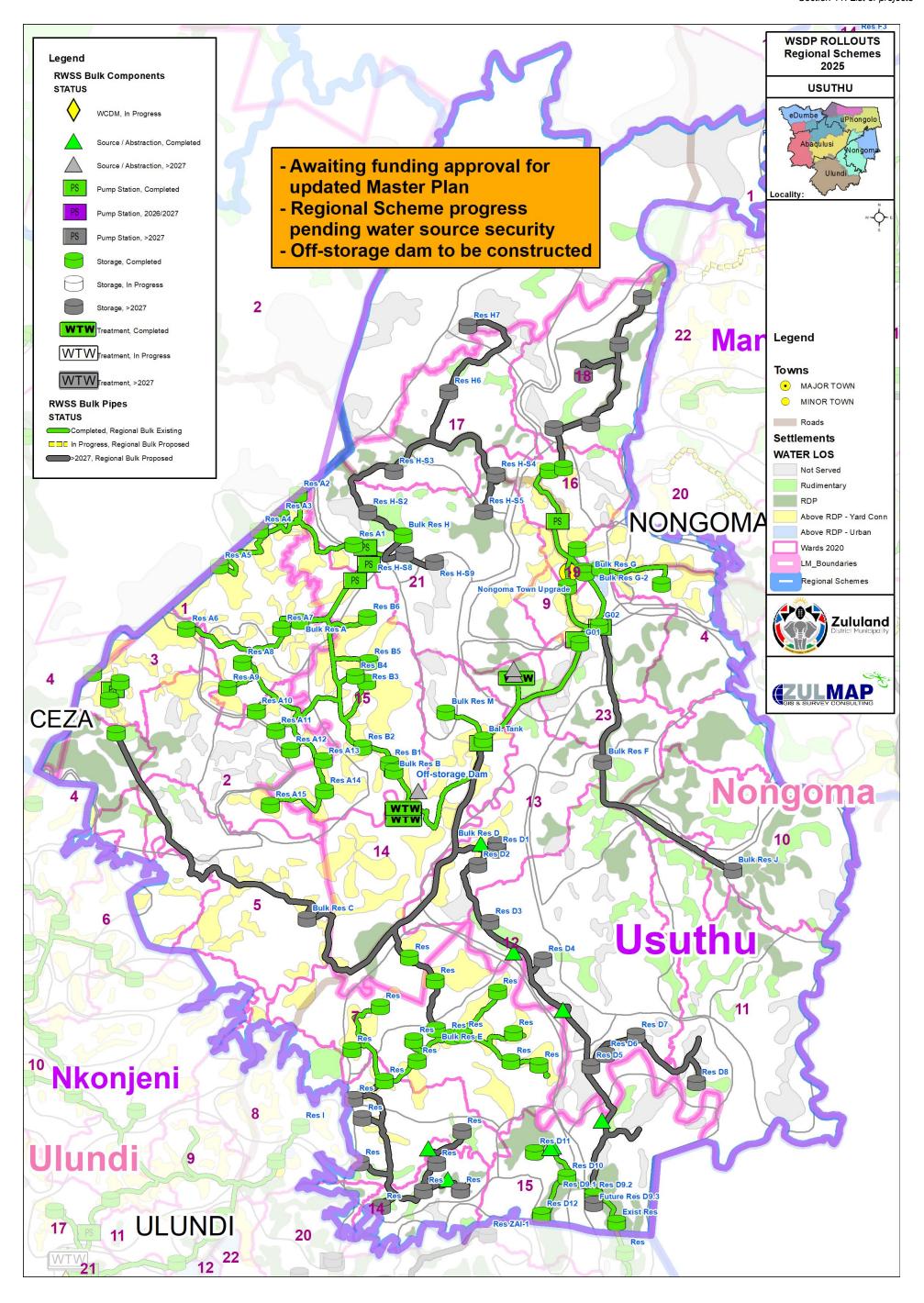




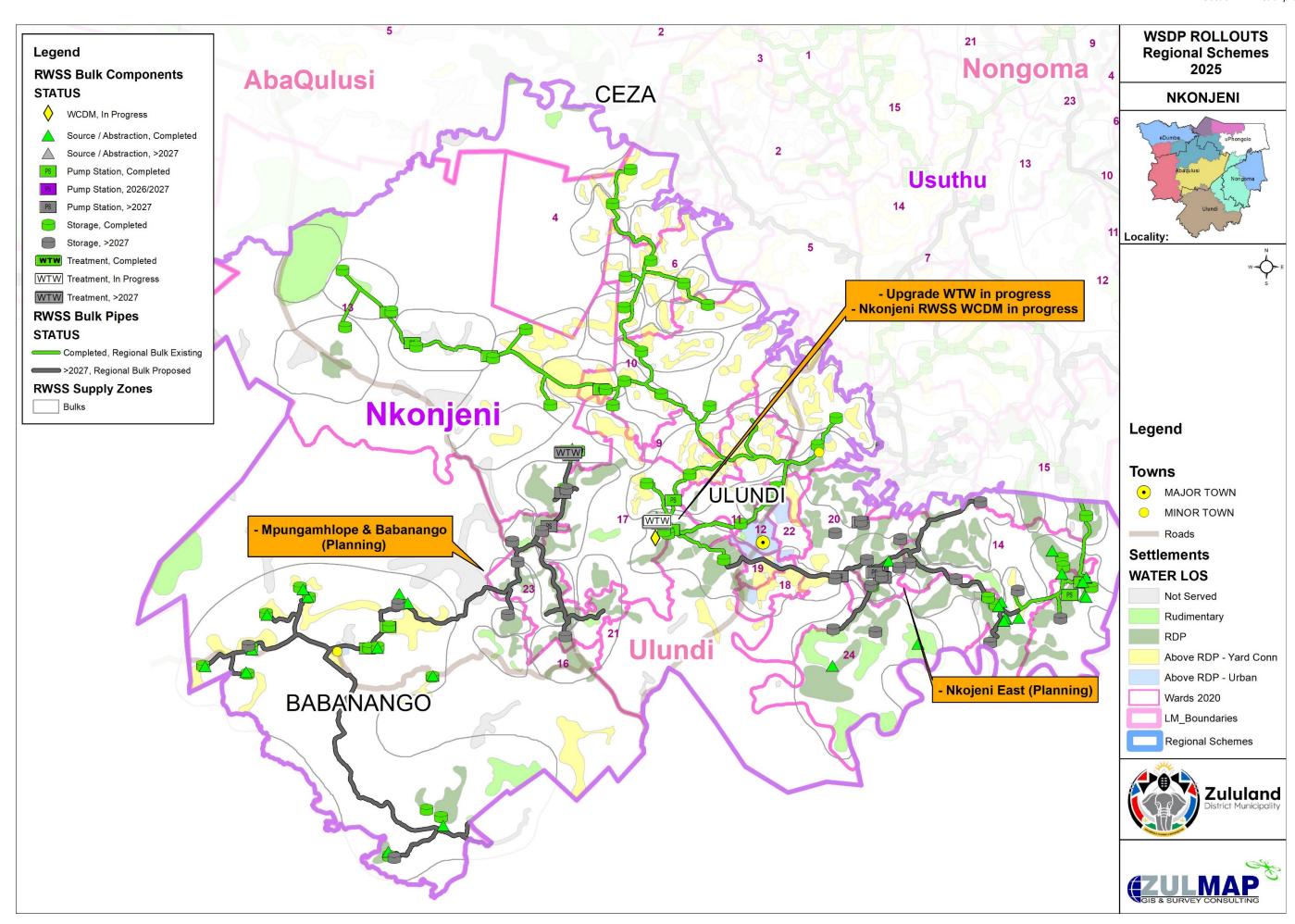




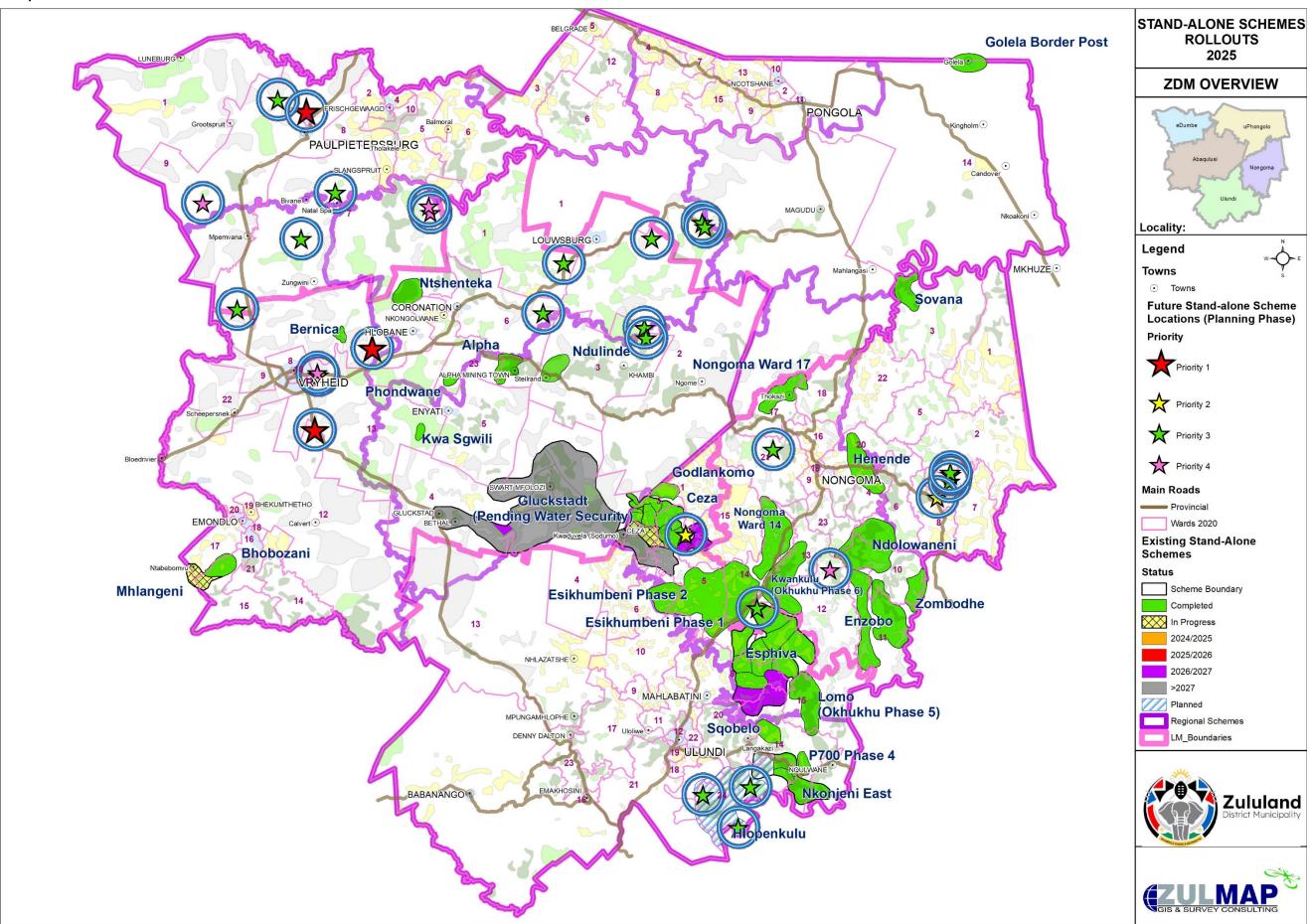
2025-2026 Review Section 11: Page 64 of 70



2025-2026 Review Section 11: Page 65 of 70

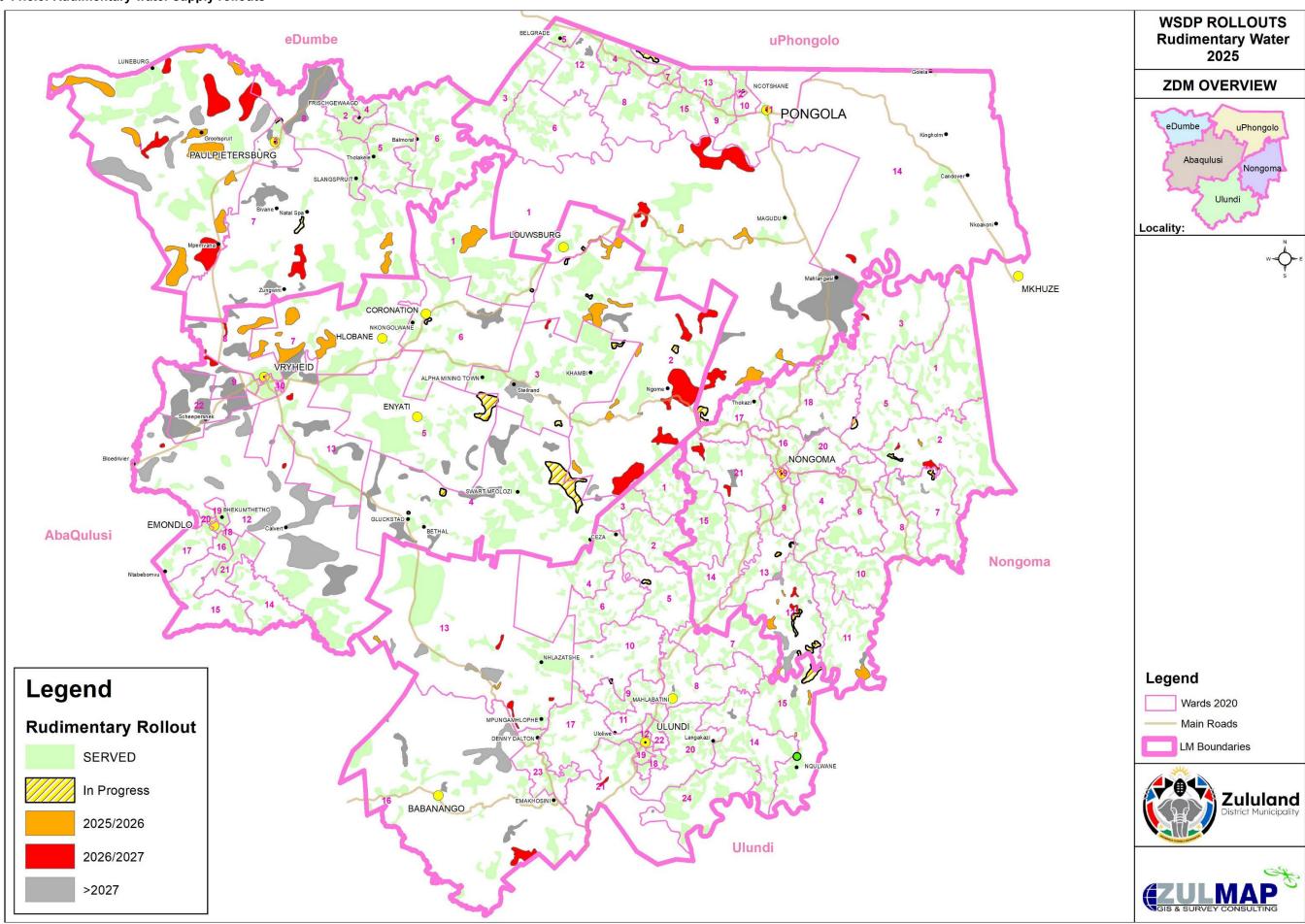


Map 11.5.2: Identified Stand-alone Schemes

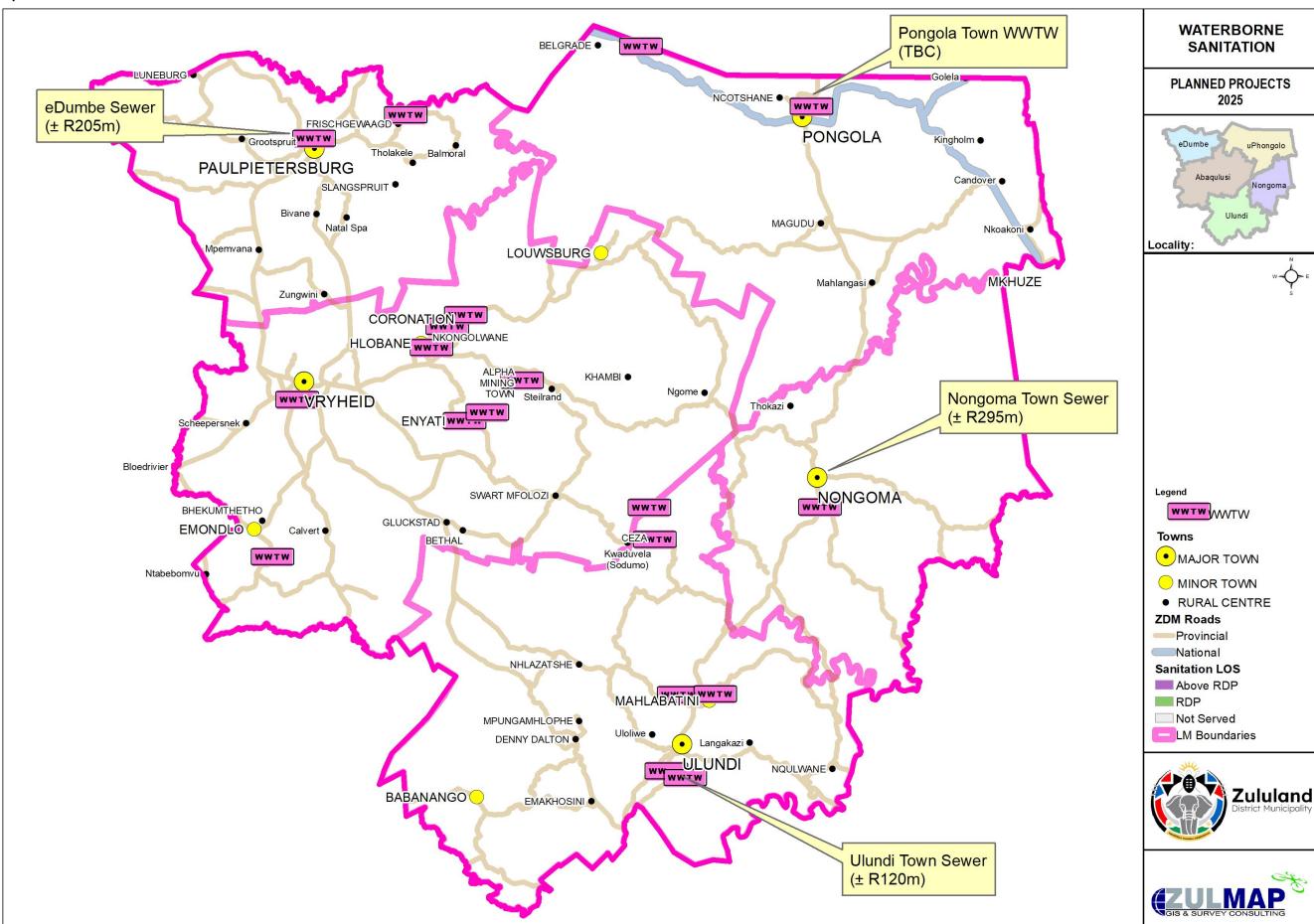


2025-2026 Review Section 11: Page 67 of 70

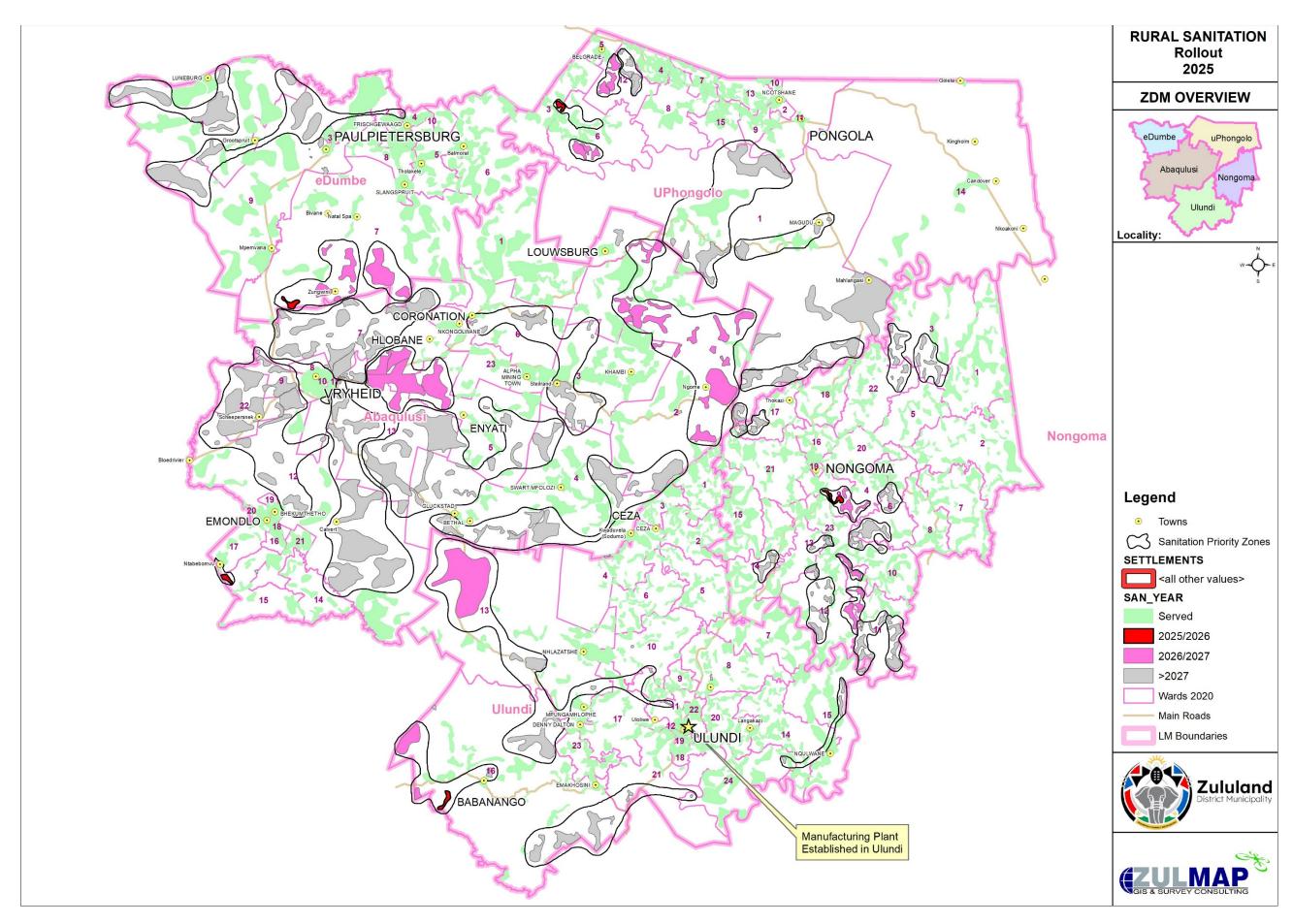
Map 11.5.3: Rudimentary water supply rollouts



Map 11.5.4: Roll-out of urban sanitation services in the district



Map 11.5.5: Roll-out of rural sanitation services in the district



2025-2026 Review Section 11: Page 70 of 70