



KWAZULU-NATAL
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA



UGU DISTRICT MUNICIPALITY DELIVERY OF BASIC SERVICES WATER AND SANITATION

**NATIONAL COUNCIL OF PROVINCES (NCOP)
TAKING PARLIAMENT TO THE PEOPLE (TPTTP)
11 – 15 SEPTEMBER 2023**



PRESENTATION OUTLINE

This presentation aims to provide a summarized “snap-shot” of the Integrated Water and Sanitation Services Turn Around Strategy (6-Point Plan) and **progress to date since the previous visit of the NCOP TPTTP in November 2022:**

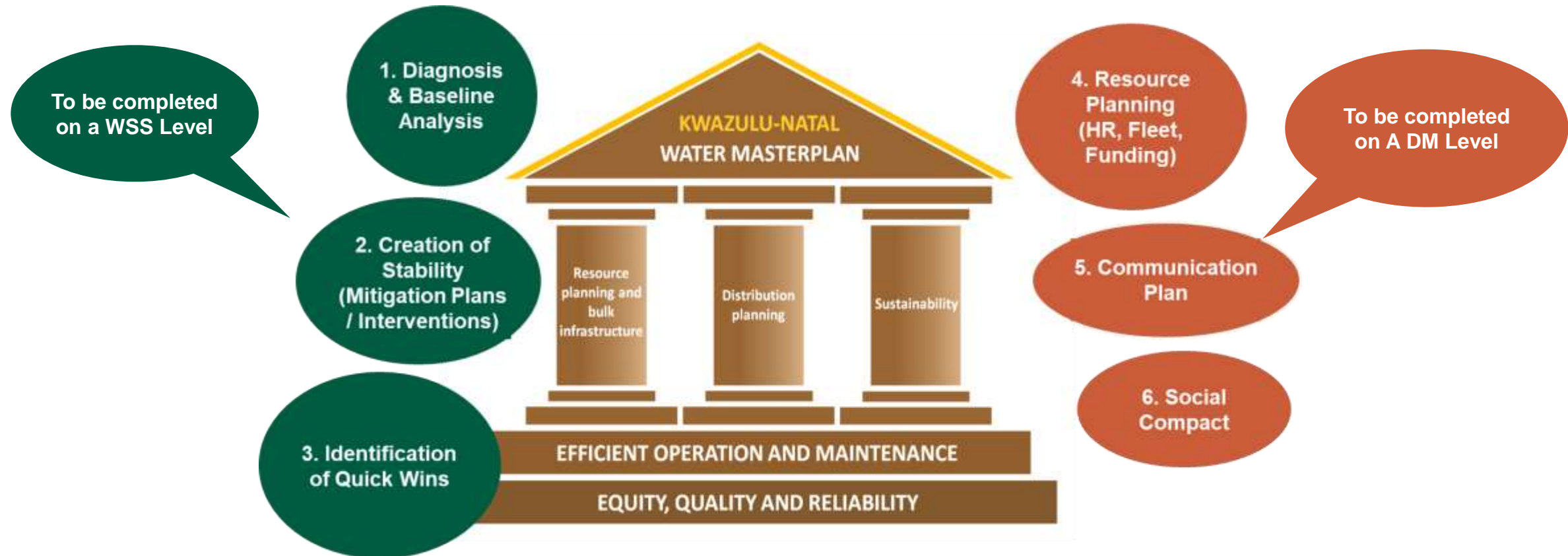
1. Introduction and Background (reminder to the NCOP)
2. Progress on Water Supply Interventions
3. Steps Taken to Restore Water and Sanitation Systems
4. Responses to Parliamentary Questions
5. Challenges and Interventions Required

INTRODUCTION AND BACKGROUND – REMINDER OF THE 6-POINT PLAN

Ugu District Municipality (DM) is a Water Services Authority (WSA) that has the executive authority to provide water services within its area of jurisdiction in terms of Section 84 of the Municipal Structures Act (Act 117 of 1998).

Ugu DM has been experiencing water supply interruption challenges within its operational area of supply due to a number of concurrent factors. Ugu DM has developed a strategic 6-Point Plan to tackle their water issues.

The 6-Point Plan is **directly aligned with the PWMP-KZN:**



INTRODUCTION AND BACKGROUND – REMINDER OF THE PROBLEM STATEMENT

Concurrent factors for intermittent supply challenges are, including, but not limited to, the following:

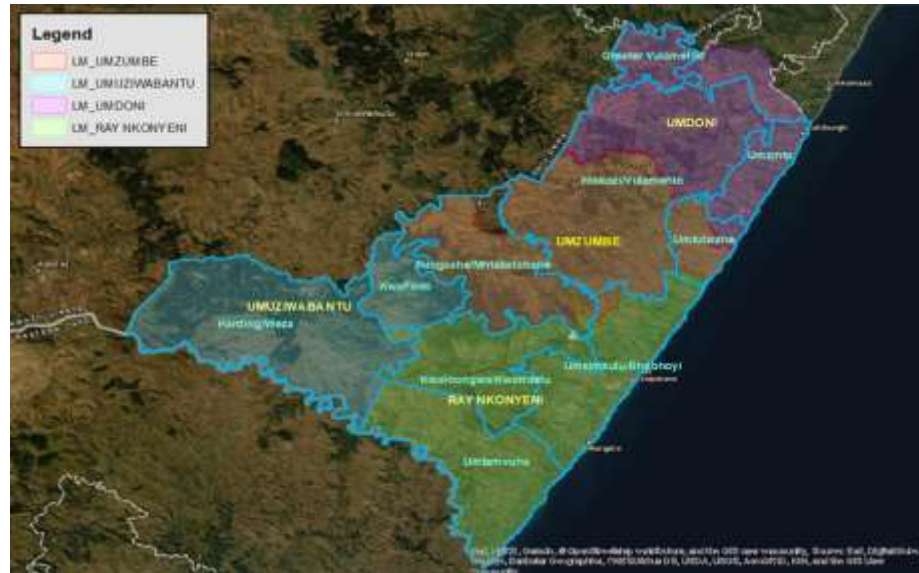
- ❖ **Intermittent water supply**
Supply vs Demand per Scheme
Systems cannot meet Peak demand (Peak Seasons)
- ❖ **Dysfunctional Infrastructure**
Aged and Obsolete Infrastructure and O&M
- ❖ **Universal Access to Water for All**
Infrastructure Access to Water
Mass influx of residents (urban migration)
- ❖ **WC/WDM**
WC (Non-Revenue Water) and
WDM (Needs vs Availability and Seasonal Peaks)
- ❖ **Revenue Enhancement**
Low Revenue Collection, Inaccurate Billing and Consumer Registration (Indigent Registration)
- ❖ **Community Awareness**
Will to Pay, Vandalism of Infrastructure, Illegal Connections and being “Water-Wise”
- ❖ **Resources**
Man Power (Technical Capacity) and Engine Power (Vehicles)



This “Perfect Storm” of simultaneous events building over the past few years has resulted in many areas of Ugu DM either receiving intermittent water supply, water-tankering services, **or no water at all.**

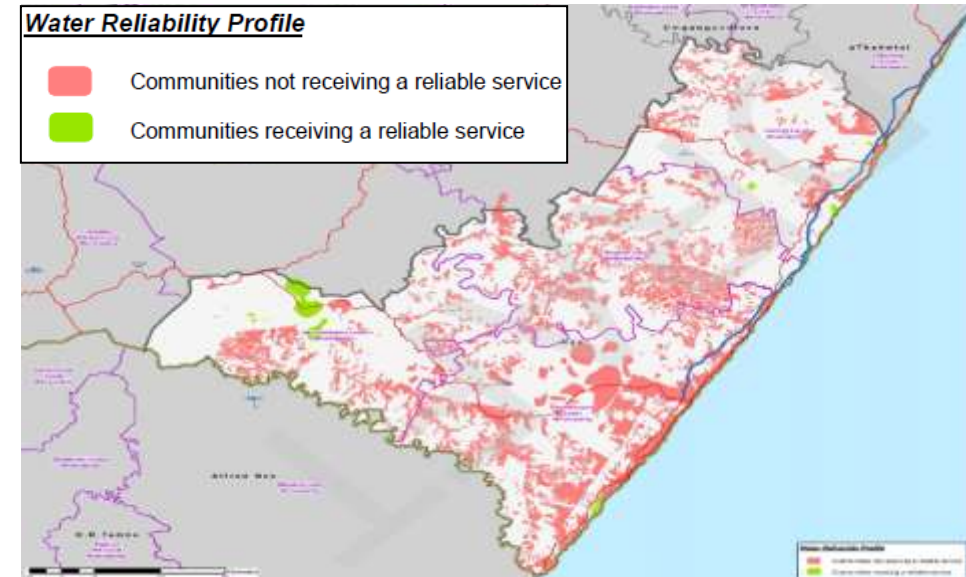
INTRODUCTION AND BACKGROUND – OVERVIEW OF WATER SUPPLY AREAS

The major WSS within UDM are split up into eleven (11) WSS within the four (4) Local Municipalities (LM's) boundaries as follows:



No.	WSS/SS Scheme Name	Local Municipality
1	Umzimkulu-Bhobhoyi	Ray Nkonyeni
2	Umtamvuna	Ray Nkonyeni
3	KwaHlongwa-KwaNdelu	Ray Nkonyeni
4	Greater Vulamehlo	Umdoni
5	Umzinto	Umdoni
6	Hlokozi-Vulamehlo	Umdoni (and Umzumbe)
7	Pungashe-Mhlabatshane	Umzumbe
8	Umtulwane	Umzumbe
9	Harding-Weza	uMuziwabantu
10	KwaFodo	uMuziwabantu
11	Umgeni (Operated by UW)	North Umdoni

The water reliability profile and current (2020) and future (2050) water demands per LM are as follows:



Municipality	2020 Population	2050 Population	2020 (MI /day)	2050 (MI /day)
Umdoni	157 569	253 108	34.84	57.78
Umzumbe	170 140	273 302	30.71	51.30
Ray Nkonyeni	370 334	594 881	91.80	151.59
Umuziwabantu	142 917	229 573	26.61	44.50
Ugu DM Total:	916 572	1 469 398	198,60	328,99

Ugu DM's current water treatment capacity (excluding boreholes) is approx. 140 MI/day (approx. 60 MI/day Shortfall)

INTRODUCTION AND BACKGROUND – OVERVIEW OF WATER SUPPLY AREAS

The following can be noted from the previous table:

- None of the WSS have WTW design capacity to meet the current or 2050 water demands
- The Umzimkulu-Bhobhoyi WSS indicates that there is sufficient WTW Capacity to meet the current demands but this does not match the reality on the ground and is being further assessed in detail.
- There is a difference of **13 MI/day** between the WTW design capacities and the WTW average operating capacity – this has been targeted to be rectified as a quick-win through operational efficiencies and operations and maintenance of the WTW's (short-term interventions)
- The deficit in the minor schemes is being addressed through a borehole programme which could realise in excess of **3 MI/day** over the next three (3) years
- The deficit in the major schemes is being addressed through medium to long-term interventions (3-6 years) which require either augmentation or storage (dams) of raw water and upgrading of the WTW design capacities and bulk storage and distribution networks (Major RBIG Projects planned). These schemes could realise in excess of an additional **60 MI/day**, as well, create stability in the existing supply of water.

Thereby, the interventions above could realise an additional **76 MI/day** of treatment and distribution capacity which will close the gap to the current water demands and begin the sustainability to process to universal access to water for all to 2050

PROGRESS ON WATER SUPPLY INTERVENTIONS

UMZIMKULU-BHOBOHOYI WSS – NEW PUMP-SETS AT ST. HELENS ROCK PS

- Installation and replacement of pumpsets 3 & 4 has been successfully installed and running.
- Project currently at progress of 90%, with work to be finalised on pumpsets 1 & 2, work to be completed by end September 2023.
- These pump-sets at the St. Helens Rock PS will create more stability in the existing supply of water in the Umzimkulu-Bhobhoyi WSS.
- High Lift pump-sets have been delivered and are being installed, completion date by 15th September 2023
- **IMPACT:** These replacement installation will realize an **increase of about 10MI/day.**



PROGRESS ON WATER SUPPLY INTERVENTIONS

UMTHAVUNA WSS – POWER SUPPLY UPGRADE

- There was a seating on 29th August 2023 for the uMthavuna Power Upgrade at Winnie Madikizela Mandela LM scheduled for 11am.
- In the meeting was Alfred Nzo LM, COGTA Eastern Cape, Eskom, Community Property Association(CPA), and Ugu DM.
- Eskom presented the project status quo. The point of contestation was on the once off payment for the land to be used by Eskom and the fact that Eskom opted to use a panel of service providers within the database.
- Eskom proposed R200 000 while CPA wants R500 000
- Eskom wants to short-circuit SCM process, which could take about 3months if they go out to tender, while CPA wants an open tender
- The meeting agreed to reconvene on Wednesday 6 September 2023 to exhaust these negotiations before the general meeting, which is scheduled for Friday 8 September 2023
- **IMPACT:** This critical power upgrade project will realize an **increase of about 10 – 15 MI/day** by allowing additional abstraction volumes (Pumpsets already installed) and pushing the uMthavuna WTW

PROGRESS ON WATER SUPPLY INTERVENTIONS

WSIG PROJECTS

In the November viist of the NCOP, the Honourable Minister of DWS, Mr Senzo Mchunu committed an **additional R150m WSIG Funding** for the 22/23 FY to Ugu DM, earmarked for implementation of the following Projects:

BP	DESCRIPTION	Amount
1	Refurbishment of Bulk Meters and Chamber Valves across the District	R50 000 000
2	Emergency Boreholes Program	R43 090 995
3	Refurbishment of Mechanical and Electrical Infrastructure	R45 189 250
4	Borehole Management System	R39 510 000
	TOTAL:	R177 790 245

UDM has (through the 6-Point Plan) identified pipeline replacement as one of the key component into providing a sustained and reliable water supply.

The estimated total cost to eradicate the aged pipeline infrastructure is over to R2 billion

PROGRESS ON WATER SUPPLY INTERVENTIONS

WSIG PROJECTS

Progress:

1. Refurbishment of Bulk Meters and Chamber Valves across the District

➤ Project Scope

Refurbishment of Bulk Meters and Valve Chamber across the District Municipality. Refurbishment and replacement of key infrastructure installations will enable the Municipality to realize opportunities and mitigate against regular challenges experienced on a daily operational level.

➤ Progress to date (30 August 2023)

- Stage 5: Contract Administration Inspection – 91%
- Stage 6: Project Close Out – 60%

➤ Budget

- R50m (Inclusive of Direct & Indirect Costs) through Additional WSIG Funding

➤ Comments on Progress

- All Contractors are on site and most of them are doing snag and the rest are busy with tie-ins and constructing new chamber where they need to be constructed.
- Tie-ins are scheduled with the DM, doing a few of them in one day so that water supply is only affected for specific time in one day. Some delays could be a result of this.
- The anticipated programme for this week indicates the following:
 - ✓ Melville/Bhobhoyi Water Works/ Pelican Interchange (05/09/2023)
 - ✓ Kirkerldy (30/08/2023)
 - ✓ Palm beach reservoir (31/08/2023)
- Next meeting is at Oslo Beach Meeting with UDM PMU at 08:00-12:00 on 13 September 2023

The **IMPACT** of this Project will be measured through the newly installed flow meters. The additional revenue water will be quantified and reported on.

PROGRESS ON WATER SUPPLY INTERVENTIONS

WSIG PROJECTS

Progress:

1. Refurbishment of Bulk Meters and Chamber Valves across the District



PROGRESS ON WATER SUPPLY INTERVENTIONS

WSIG PROJECTS

Progress:

2. Emergency Boreholes WSIG Program

➤ Project Scope

The existing boreholes are in a state of disrepair and must be refurbished to make them functional. Additional boreholes are required in areas where there are no existing boreholes and where the existing raw water supply is inadequate to cope with the demand. The Water services masterplan identified the need to continue using boreholes as alternative water supply in all areas. The raw water supply throughout the District is inadequate to supply the needs of the people. Boreholes will have to supplement the water demands and will have to remain in place until adequate bulk water becomes available.

➤ Progress to date (30 August 2023)

- Construction stage – 100 % (50 No of Boreholes completed)

➤ Budget

- R43 090 995.00 (Inclusive of Direct & Indirect Costs) through Additional WSIG Funding

➤ Comments on Progress

- The equipping of **Fifty (50) boreholes** have been completed. Five (5) are finalising works on outstanding sites.
- High yielding boreholes, where possible were used to augment nearby existing schemes.
- Ten (10) additional boreholes have been completed.
- A complete borehole setup on site comprises the following:
 - ✓ An equipped borehole
 - ✓ Steel Tank Stand
 - ✓ 5000L Jojo tank
 - ✓ Solar Panels
 - ✓ A Standpipe

The **IMPACT** of this Project was as follows:

- Umdoni LM – 380 m³/day (0,38 MI/day)
- Umzambe LM – 536 m³/day (0,536 MI/day)
- Ray Nkonyeni LM – 765 m³/day (0,765 MI/day)
- Umuziwabantu LM – 346 m³/day (0,346 MI/day)

**Total Volume – 2027 m³/day
(2,027 MI/day)**

PROGRESS ON WATER SUPPLY INTERVENTIONS

WSIG PROJECTS

Progress:

2. Emergency Boreholes WSIG Program

Item N ^o	Activity Description	Scheduled Work Done		
		Billed Qty	Work Done	% Progress
1	Umzumbé LM			
1.1	Geohydrological Investigation: Feasibility, Geophysical surveys and report	15	15	100%
1.2	Drilling New Boreholes, Yield Testing and Water Quality	15	15	100%
1.3	Equipping of boreholes	15	15	100%
2	Umuziwabantu LM			
2.1	Geohydrological Investigation: Feasibility, Geophysical surveys and report	15	13	87%
2.2	Drilling New Boreholes, Yield Testing and Water Quality	15	13	87%
2.3	Equipping of boreholes	15	10	67%
3	Umdoni LM			
3.1	Geohydrological Investigation: Feasibility, Geophysical surveys and report	10	10	100%
3.2	Drilling New Boreholes, Yield Testing and Water Quality	10	10	100%
3.4	Equipping of boreholes	10	10	100%
4	Ray Nkonyeni LM			
4.1	Geohydrological Investigation: Feasibility, Geophysical surveys and report	15	15	100%
4.2	Drilling New Boreholes, Yield Testing and Water Quality	15	15	100%
4.3	Equipping of boreholes	15	20	100%
OVERALL PROGRESS				92%



PROGRESS ON WATER SUPPLY INTERVENTIONS

WSIG PROJECTS

Progress:

3. Refurbishment of Mechanical and Electrical Infrastructure (Area South Central, South & North)

➤ Project Scope

Refurbishment and replacement of key infrastructure installations will enable the Ugu District Municipality to realize opportunities and mitigate against regular challenges experienced on a daily operational level. The Municipality will use data and technology to create efficiencies, improve sustainability, create economic development, and enhance quality of life factors for people living and working in the district:

The proposed Refurbishment and Replacement Plan covers the following:

- Pump Stations Optimization
- Installation of Centralised Access Control Devices
- Bulk Pipelines Monitoring
- Online Data Logging of Reservoir Outlets and Water/ Wastewater Treatment Plants

➤ Progress to date (30 August 2023)

- Construction - **85%**
- Close Out Report – **30%**

➤ Budget

- R45 189 250 (Inclusive of Direct & Indirect Costs) through Additional WSIG Funding

➤ Comments on Progress

- Installation of equipment is on-going. Some sites are complete.
- Some delays experienced by contractors due to revised manufacturing schedules.
- Close out planned for **30 September 2023**

The **IMPACT** of this Project will be measured through the newly installed flow meters. The additional revenue water will be quantified and reported on.

PROGRESS ON WATER SUPPLY INTERVENTIONS

WSIG PROJECTS

Progress:

4. Replacement and refurbishment of pipeline infrastructure – Area South Central

➤ Project Scope

Fourteen (14) roads were prioritized for pipe replacement which all fall under Shelly beach and Margate which is ward 3, 6 & 19. These roads are as follows: Jackson Road, Robbin Road, Boboni Road, Somers Road, Shepstone Road, Buckingham Road, Retreat Road, Syringa Road, Burns Road, Cranbrook Road, Casuarina, Road, Stott Road, Tucker Road and Collins Road.

➤ Progress to date (31 August 2023)

- Construction – **97%**
- Close Out – **50%**

➤ Budget

- R29 810 922 (Inclusive of Direct & Indirect Costs) through Additional WSIG Funding

➤ Comments on Progress

- Currently on 97% progress, with most of pipeline laying completed and tie in to meters has already commenced at about 95%

The **IMPACT** of this Project will be measured through the newly installed flow meters. The additional revenue water will be quantified and reported on.

PROGRESS ON WATER SUPPLY INTERVENTIONS

WSIG PROJECTS

Progress:

4. Replacement and refurbishment of pipeline infrastructure – Area South Central

Site Name	Site location		Length (m)	Progress detail	Progress
	Latitude	Longitude			
Shelly Beach					
Robin road	30°48'00.7"S	30°24'47.20"E	1000	Pipe laying 160dia.	100%
Boboni road	30°48'10.1"S	30°24'33.4"E	700	Proving existing services	99%
Shepstone road	30°47'46.6"S	30°25'03.9"E	420	Pipe laying 110dia.	100%
Buckingham road	30°48'15.26"S	30°24'25.31"E	329	Pipe laying 110dia.	100%
Orange	30°49'22.1"S	30°24'13.8"E	410	Pipe laying 110dia.	95%
Syringa road	30°48'50.1"S	30°24'12.1"E	144	Awaiting valve fittings	96%
Burns road	30°48'47,3"S	30°24'19,4"S	351	Awaiting valve fittings	100%
Margate					
Cranbrook road	30°50'47.4"S	30°22'35.2"E	353	Pipe laying 160dia.	97%
Casuarina road	30°50'58.5"S	30°22'47.9"E	300	Pipe laying 110dia.	97%
Stott road	30°50'45.9"S	30°22'21.6"E	615	Pipe laying 75dia.	95%
Tucker road	30°50'38.57"S	30°22'39.04"E	724	Proving existing services	96%
Collins road	30°50'58.7"S	30°22'48.6"E	670	Proving existing services	97%
Wattle road	30°50'43.28"S	30°21'58.85"E	340	Pipe laying 110dia.	95%
Overall progress					97%



PROGRESS ON WATER SUPPLY INTERVENTIONS

WSIG PROJECTS

Progress:

5. Borehole Management System

➤ Project Scope

The project intends to implement the digitisation of 70 boreholes in total and to establish the network connectivity to 3 Pump stations and 3 Water Treatment Works that currently do not have network connectivity due to its remoteness. This project will enable Ugu DM to improve service delivery by providing an uninterrupted water supply to indigent consumers through utilization of data and technology for the efficient management of the boreholes. As each phase completes, the digitisation of the next set of boreholes will continue to the final completion of 70 boreholes.

➤ Project Scope

The components the proposed monitoring system covers the following:

- Hardware, Data Networks, Software, Citi – IOT

➤ Progress to date (30 August 2023)

- Project Engineering & Management - **64%**
- Borehole Monitoring System(70 Boreholes) – **55%**
- WTW Monitoring System(3 No.) – **55%**
- Pump station Monitoring Systems 9 3 No.) - **40%**

Overall Project Progress – 55%

➤ Budget

- R39 510 000 (Inclusive of Direct & Indirect Costs) through Additional WSIG Funding

PROGRESS ON WATER SUPPLY INTERVENTIONS

WAR ON LEAKS

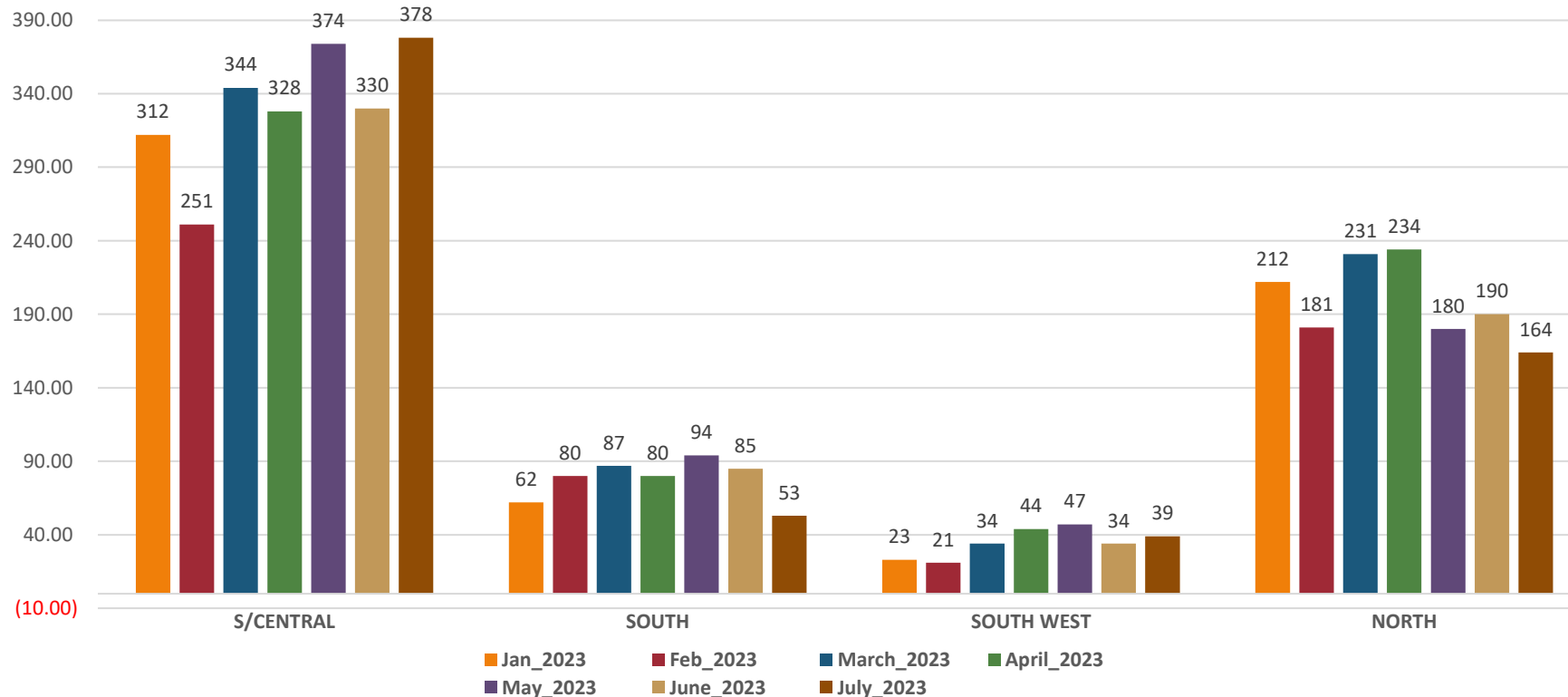
- Although UDM continues to embark on replacement of pipelines projects, aged infrastructure in our system still remains one of the main causes for frequent leaks and bursts in the water supply system.
- The interventions below, are not by choice, but as a temporary measure, to have continuous supply to communities, until the remaining aged pipeline infrastructure is completely eradicated:
 1. Exercise of closing of reservoirs outlets, to build up water level, which may to a certain point regulate pipeline pressure in system
 2. Continuous exercise of closing an opening of valves (vula-vala), which leads to frequency of water charging of pipelines), to a certain extent causes pressure inconsistency within pipeline
 3. Continuous process of replacing AC pipeline with UPVC/HDPE pipeline (municipality still has asbestos pipeline , that gradually gets replaced by UPVC/HDPE whenever there are leak repairs in that section of AC pipeline)
- External forces
 1. Illegal pipeline connections
 2. Over a period of time floods/rain effect may contribute to stability of the ground (causing sink holes, affecting stability of pipelines)

PROGRESS ON WATER SUPPLY INTERVENTIONS

WAR ON LEAKS

- The charts below depict leaks/bursts that are completed and encountered per LM
- This data analysis is used to identify areas of concern and priority in replacement of pipelines, also in monitoring milestones, system behaviour and keeping track of impact of completed projects.

No. PIPELINE BURST/LEAKS

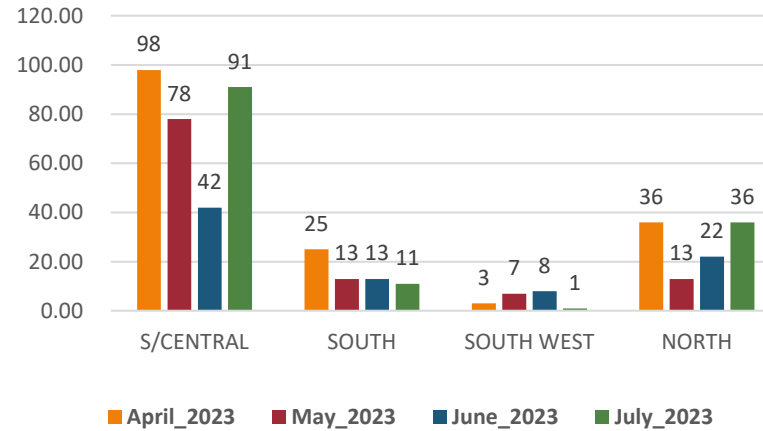


PROGRESS ON WATER SUPPLY INTERVENTIONS

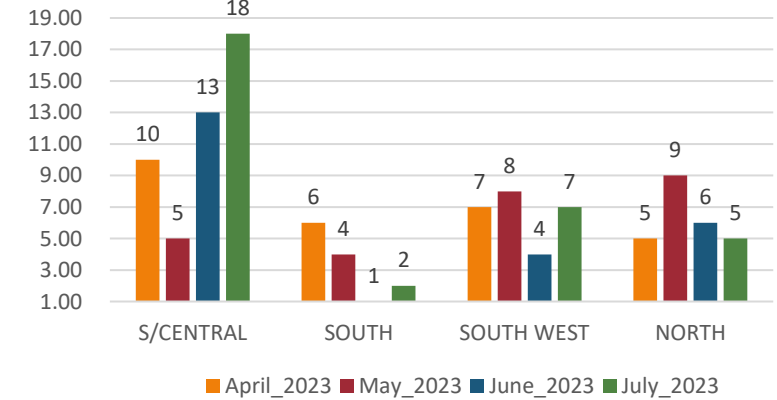
WAR ON LEAKS



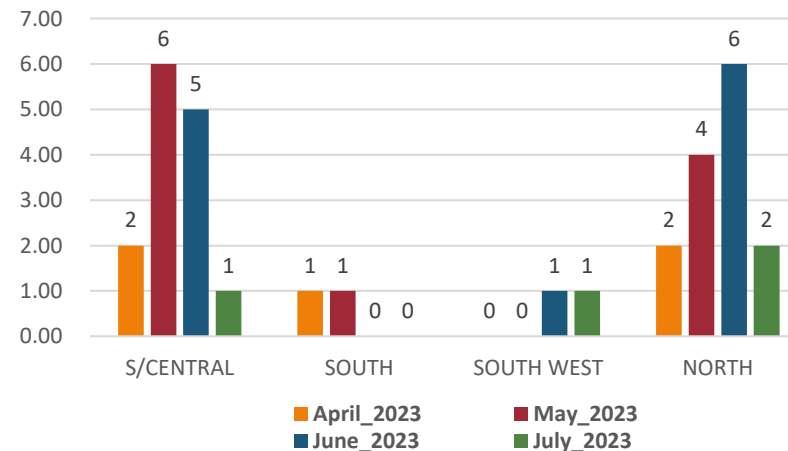
No. WATER METERS BURST/LEAKS



No. STANDPIPES BURST/LEAKS



No. VALVES LEAKS



PROGRESS ON WATER SUPPLY INTERVENTIONS

WAR ON LEAKS – PROGRAMME THROUGH EPWP AND COTA COLLABORATION

Ugu DM is one of the municipalities prioritized for the War on leaks programme which will be implemented through EPWP in collaboration with COGTA. The aim of the project is to reduce water losses in the distribution systems (real loss & apparent loss), create awareness on water use and conservation, advocate community ownership of water schemes/resources/utilities and promote job creation and skills development. The project is as follows :

NAME OF PROJECT	PROJECT STAGE	NAME OF PROJECT
Labour intensive construction capacity building at Ray Nkonyeni and Umuziwabantu LM	Ugu	In Progress

CoGTA War on Leaks Labour Intensive Programme

Quantity of Real Water Loss By WSA:

- eThekwini: 11 378 814
- uThukela: 6 072 557
- iLembe: 10 977 668
- Harry Gwala: 1 040 602
- Umhlathuze: 4 453 546
- Ugu: 7 579 866
- uMgungundlovu: 7 892 262
- uMkhanyakude: 2 040 481
- Newcastle: 11 138 189
- uMzinyathi: 5 567 837
- Zululand: 4 024 650
- Amajuba: 2 528 848
- King Cetshwayo: 12 112 725
- Msunduzi: 15 242 190

Totals: 102 050 235

Proposed Allocation in Proportional to Quantity of Real Water loss:

- eThekwini: 35 + 9 artisans
- uThukela: 26 + 7 artisans
- iLembe: 35 + 9 artisans
- Harry Gwala: 23 + 5 artisans
- Umhlathuze: 23 + 5 artisans
- Ugu: 26 + 7 artisans
- uMgungundlovu: 26 + 9 artisans
- uMkhanyakude: 23 + 5 artisans
- Newcastle: 35 + 9 artisans
- uMzinyathi: 26 + 7 artisans
- Zululand: 23 + 5 artisans
- Amajuba: 23 + 5 artisans
- King Cetshwayo: 35 + 9 artisans
- Msunduzi: 41 + 11 artisans

Totals: 400 participants & 100 artisans

Allocation Criteria:

General Participants

- 15 - 20 mil: 41
- 10 - 15 mil: 35
- 5-10 mil: 26
- 1-5 mil: 23

Artisans Allocation

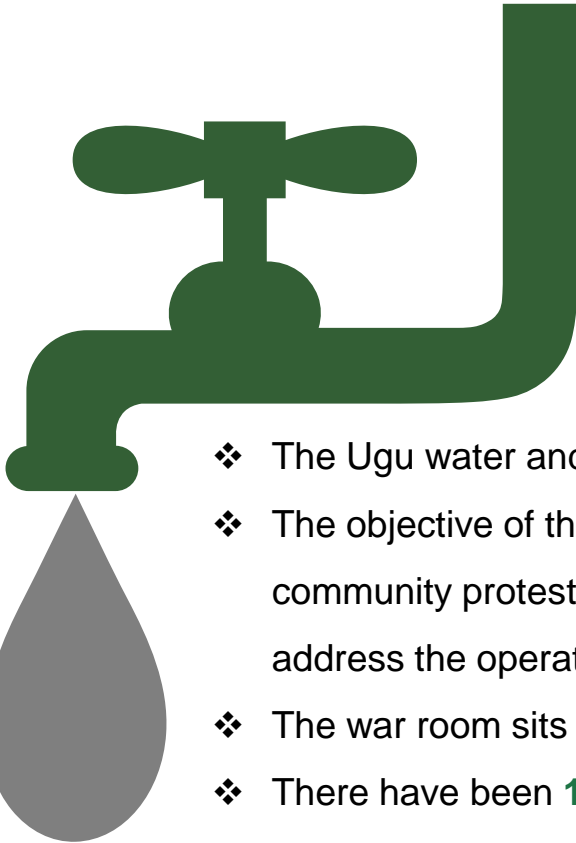
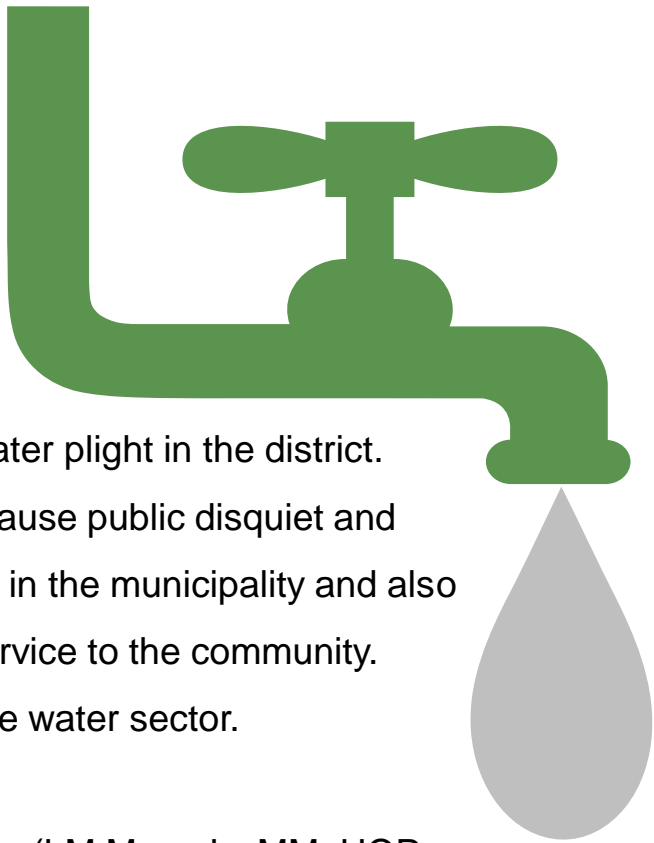
- >40 participants: 11
- >35 participants: 9
- >26 participants: 7
- >23 participants: 5

Additional Notes:

- Municipal Planning to map-out all targeted townships within the WSAs.
- A priority will be given to 2% PLDs, 55% females and 55% Youth.
- Public Works agreed that Cogta will be leading the recruitment process and reporting of the programme on EPWPRS
- EPWP Guidelines will be used to recruit participants. This includes sourcing participants from the indigent databases of Municipalities.
- All participants will reside in their respective wards to limit costs associated with movement.
- The WhatsApp and other communication platforms will be used to report all identified leaks.
- The general participants will receive R110/day for a maximum of 8 days a month. Artisans will receive a month stipend of R4500.

STEPS TAKEN TO RESTORE WATER AND SANITATION SYSTEMS

ESTABLISHMENT OF UGU WATER AND SANITATION WAR ROOM

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- ❖ The Ugu water and sanitation war room was established in February 2022 to response to the water plight in the district.
 - ❖ The objective of the war room is to resolve and prevent community service delivery issues that cause public disquiet and community protests which at times lead to persistent deterioration of performance & functionality in the municipality and also address the operational issues, bottlenecks that maybe preventing the municipality to provide service to the community.
 - ❖ The war room sits bi-weekly (Tuesdays at 8:00 am) with a full compliment of all role players in the water sector.
 - ❖ There have been **15 sittings of the Ugu Water and Sanitation War Room** to date
 - ❖ The Ugu Water and Sanitation War Rooms have been successful to date and applauded by many (LM Mayor's, MM, HOD Champion) as showing a vast improvement in the supply of water within the communities
 - ❖ The Department of Cooperative Governance and Traditional Affairs (COGTA) is tasked with the responsibility to oversee the establishment and functionality of Water war rooms.

STEPS TAKEN TO RESTORE WATER AND SANITATION SYSTEMS

RE-PRIORITISATION OF EXISTING FUNDS AND GRANTS

There has been several meetings between CoGTA, UGU DM, MISA and COGTA PMU support to discuss a way forward on UGU's overcommitment for the next 3 years; the latest meeting being held on 23rd August 2023. The following is noted (summary of the outcomes):

- Unspent funds as at end of June of registered projects amounts to **R1 283 355 930**
- Unspent funds over MTEF as cash flowed amounts to **R1 012 575 384**
- MTEF allocation amounts to **R 913 238 000**. This means the Cash flows must be reduced from **R1 012 575 384** to **R913 238 000** (the necessary reduction amounts to **R99 337 384,16**)
- Further reduction of MEC cash flow to accommodate new projects to a maximum amount of **R913 238 000** (This means further reduction is needed to the value of **R306 160 204 which is the estimated value of the New Projects to be presented at MBPAC**)
- This means the total reduction of the Current August MECs cashflowed must be to the value of approximately **R405m (R306 160 204 + R99 337 384)**.
- It is recommended that some projects be reduced and eliminated from being implemented on the current cashflows (based on age of project, not credible or not achievable cash flows or implementation) to help reduce cash flows and unspent funds .
- This means a New letter and template for the de-commisisoning must be drafted and submitted again by UGU and send it to CoGTA.
- Planning projects will remain on PAPER as records of PLANNING and to be monitored for implementation
- Deviation letter must be submitted to DCOG once CoGTA and UGU DM agree on changes and way forward

STEPS TAKEN TO RESTORE WATER AND SANITATION SYSTEMS

MAJOR PROJECTS PLANNED (WATER)

Currently UDM has **no RBIG Funding**

There are four (4) projects below which are mostly Implementation Readiness Study (IRS) ready as they have EIA Approval, Feasibility Studies and Preliminary Designs are complete. However, we still need some funding to compile the actual IRS and PDR according to the revised 2021 guidelines.

DWS have allocated Funding for preparation of the IRS Reports – but have not concluded the IA Agreements with Ugu DM

NO	PROJECT NAME	AREAS COVERED	BUDGET (estimated)	START AND END DATE	PROGRESS	IMPACT
1	Cwabeni Dam Bulk Infrastructure	All within the Umzimkhulu - Bhuboyi WSS area	R2 2b	1. Funding for design and EIA and IRS: DWS 2. Submit IRS: May 2024 3. Targeted RBIG for Construction: July 2024	None due to No Funding available for Planning Phases of the Project.	1. The water treatment deficit will be reduced by 25 Ml/day. 2. The "Access to Water" will be increased by 8%.
2	Harding-Weza WSS	All of Umuziwabantu LM's and Ray Nkonyeni LM Wards 34, 35, 36	R1 3b	1. Funding for IRS: DWS 2. Submit IRS: May 2024 3. Targeted RBIG for Construction: July 2024	1. EIA Approval, Feasibility Studies and Preliminary Designs are complete. 2. IRS needs to be compiled and submitted for RBIG Funding.	1. The water treatment deficit will be reduced by 7 Ml/day. 2. The "Access to Water" will be increased by 2%.
3	Vulamehlo Cross-Border WSS	Umzumbe LM Wards 6, 7 & 8 and Umdoni LM Wards 4, 5 & 6	R1 1b	1. Funding for IRS: DWS 2. Submit IRS: May 2024 3. Targeted RBIG for Construction: July 2025	1. EIA Approval, Feasibility Studies and Preliminary Designs are complete. 2. IRS needs to be compiled and submitted for RBIG Funding.	1. The water treatment deficit will be reduced by 6 Ml/day. 2. The "Access to Water" will be increased by 2%.
4	Umtamvuna Bulk Infrastructure	All within the Umtamvuna WSS area	R1 2b	1. Funding for design and EIA and IRS: DWS 2. Submit IRS: May 2024 3. Targeted RBIG for Construction: July 2025	None due to No Funding available for Planning Phases of the Project.	1. The water treatment deficit will be reduced by 15 Ml/day. 2. The "Access to Water" will be increased by 4%.

STEPS TAKEN TO RESTORE WATER AND SANITATION SYSTEMS

MAJOR PROJECTS PLANNED (SANITATION)

IMMEDIATE FLOOD DAMAGE REPAIR COSTS:

- Water: R50m
- Sanitation: 37m

BUILD BACK BETTER COST ESTIMATES:

- Water infrastructure (upgrades) is covered in detail
- Sanitation: R610m

FUNDING REQUIREMENT FOR SANITATION INFRASTRUCTURE REPAIRS:

Repairs and Refurbishment (WWTW and Pump Station) (2023/2024) - R110 m

NO SIGNIFICANT FLOOD REPAIRS (OR BUILD BACK BETTER UPGRADES) HAVE BEEN EXECUTED AS LIMITED FUNDING HAS BEEN MADE AVAILABLE TO A VALUE OF R2 MILLION.

Ugu DM had targeted R130m from the Disaster Management Grant (23/24 FY) but these funds have subsequently been REVOKED in the DoRA

High Flood Damage Severity	Existing Capacity (MI/day)	REQUIRED FUTURE CAPACITY (MI/day)	Upgrade cost-estimates
Gamalakhe WWTW	3	Capacity is adequate	
Margate WWTW	7	12	R96,459,668.37
Ramsgate WWTW	0.7	2	R25,079,513.78
Scottburg WWTW	2.3	6	R71,380,154.59
Sub-Total			R192,919,336.74

Medium Flood Damage Severity	Existing Capacity (MI/day)	AVERAGE FLOWS 2020 (MI/day)	Upgrade cost-estimates
Pennington WWTW	2	6	R77,167,734.69
Shelly Beach WWTW	2	6	R77,167,734.69
Umbango WWTW	12	20	R154,335,469.39
Uvongo WWTW	2.4	8	R108,034,828.57
Sub-Total			R416,705,767.35



STEPS TAKEN TO RESTORE WATER AND SANITATION SYSTEMS

FINANCIAL AND TECHNICAL SUPPORT BY COGTA TO UGU DM

Financial support for the implementation of water and sanitation infrastructure projects through the accelerated water intervention programme including Technical support to Ugu DM are as follows:

No.	PROJECT DESCRIPTION	DATE OF TRANSFER / DURATION OF CONTRACT	IMPACT	BUDGET
1	Upgrade of Umthamvuna Raw Water Pump station Electrical Supply	December 2019	Ray Nkonyeni LM	R14 Million
2	St Helens Rock Water Abstraction Pump System Replacement, refurbishment and repairs (pump 1,2,3,4, 5 and 6)	December 2022	Ray Nkonyeni LM	R 15,3 Million
3	Ugu Borehole programme (11 production and 1 hand pump boreholes)	December 2022	Al 4 LM's	R 4 Million
4	Refurbishment / replacement of existing mechanical, electrical equipment and civil works at the Umthamvuna Raw Water Pump Station	March 2022	Ray Nkonyeni LM	R 6.4 million
5	Provision of 8 water tankers pro-floods for immediate response	April 2022	All affected LM's	R 6.9 million
6	PMU team (The Project Management Teams consists of a Water Engineer, Project Manager, 4 x Civil Engineering Technicians , Stakeholder Management Personnel and Administrative support personnel) for the restoration of Water and Sanitation System	24 months	Ugu DM	R 51,9 Million
7	Purchase of 2 Water Tankers	February 2023	Ugu DM	R 4,0 million
8	uMthavuna raw water pump station – Phase 2 Implementation: replacement and refurbishment of mechanical and electrical infrastructure	February 2023	Ray Nkonyeni LM	R 2,6 million
9	Purchasing and supplying of static tanks	May 2023	Ugu DM	-

RESPONSES TO PARLIAMENTARY QUESTIONS

DEPARTMENT/ ORGANISATION	MUNICIPALITY	CHALLENGES	PROGRESS
uGu District Municipality Cooperative Governance and Traditional Affairs (COGTA) Water and Sanitation	Ray Nkonyeni LM	<ul style="list-style-type: none"> The areas experience intermittent water cuts, taps that are running dry and water infrastructure which needs to be repaired. Some areas have been without water for long periods of time and have been dependent of sources of water such as rivers and streams. 	<p>Refurbishment of St Helen Rock and upgrade of Marberg pipeline has realise a more stable water supply system. Additionally, water tankers and dispersed static tanks across RNLM is assisting in supplementing for water supply during high peak season, duirng planned shutdowns, during pipeline repairs and during load shedding. Projects completed include:</p> <ul style="list-style-type: none"> St. Helens Rock PS, pump-sets and electrical panels have been upgraded which will realize a deficit/increase of about 30 MI/day (Wards 12, 13, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 27, 28) Pipeline replacements in Gamalakhe (Ward 5) and Marburg (Wards 17, 18, 20 and 21) Pipeline replacements in Margate and Shelly Beach (Wards 3, 6 & 19) Msikaba Water Supply - Phase 1, Construction of DN300x 5.5km long steel pipeline from Nsimbini Pumpstation to Bomela North Reservoir (Ward 25) Construction of Hannover Pump Station No.2, 5ML Reservoir and pipeline (Ward 25) Emergency Boreholes installation and replacement (Wards 7, 8, 9, 24, 23, 25, 26, 29, 33, 34, 36, 35 & 36) Various WCWDM measures are underway including the “Refurbishment of Mechanical and Electrical Infrastructure” and the “Refurbishment of Bulk Meters and Chamber Valves” to save the water we have.

RESPONSES TO PARLIAMENTARY QUESTIONS

DEPARTMENT/ ORGANISATION	MUNICIPALITY	CHALLENGES	PROGRESS
uGu District Municipality Cooperative Governance and Traditional Affairs (COGTA) Water and Sanitation	Umdoni LM	<ul style="list-style-type: none"> • Their current tanks/reservoir capacity is too small to accommodate allocated communities and have water pumps which cannot reach the allocated areas and dysfunctional. • There is a shortage of skills in relation to water and water challenges over the past 15 years. 	<ul style="list-style-type: none"> • Malangeni / Esperanza Long-Term Bulk Water Supply (South Coast Pipeline) - Stage 2 (Wards 7, 8, 9, 11,14 & 15) • COGTA KZN purchased and donated 100 Static Tanks to Ugu DM (all Wards) • COGTA KZN has appointed a PMU (effective June 2022) to support Ugu DM in “The Restoration of Water and Sanitation Systems” for a two (2) year period.

RESPONSES TO PARLIAMENTARY QUESTIONS

DEPARTMENT/ ORGANISATION	MUNICIPALITY	CHALLENGES	PROGRESS
uGu District Municipality Cooperative Governance and Traditional Affairs (COGTA) Water and Sanitation	Umuziwabantu LM	<ul style="list-style-type: none"> Water schemes that are put in place are dysfunctional and not operational in the communities. Sewer pipes have burst and are overflowing, some have been left unattended to for several years. 	<p>Replacement of the pumping main pipeline from Weza to Khwezi reservoirs project has realized a stable and improved bulk water supply. In addition to that, areas like Kwajali, Kwanyuswa , Bazini e.c has since realised pipeline upgrades, with upcoming future projects on the sewage system. On short term basis there is an ongoing internal (mechanical/electrical) unfractured repairs. In addition to that , the raw water from Weza to Harding dam project was also successfully implemented.</p> <p>The sewer spillages were an isolated incident which occurred around the last NCOP visit and have since been rectified through the O&M Team. There are short, medium and long term interventions being planned and implemented on the sanitation system. Projects completed include:</p> <ul style="list-style-type: none"> KwaNyuswa Pipeline Replacement (Wards 17, 18, 20 & 23), KwaJali Pipeline Replacement (Wards 7 & 9) and Bazini Pipeline Replacement (Ward 9) Replacement of the pumping main pipeline (355mm) from Weza to Khwezi reservoirs (Wards 4, 5, 6 & 1) Emergency Boreholes installation and replacement (Wards 1, 2, 4, 9 & 10) Installation of Ventilated Improved Pits (Wards 34, 35 & 36)

RESPONSES TO PARLIAMENTARY QUESTIONS

DEPARTMENT/ ORGANISATION	MUNICIPALITY	CHALLENGES	PROGRESS
uGu District Municipality Cooperative Governance and Traditional Affairs (COGTA) Water and Sanitation	Umzumbe LM	<ul style="list-style-type: none"> The number of boreholes installed do not accommodate the community. Reservoirs being installed but remaining empty for several years. Areas being situated in higher resulting in water not being able to reach different homes without a strong pump. 	<p>Mhlabatshane Bulk Water Supply Scheme phase-1 has been completed which has seen a positive improvement on the entire system, right down to Mehlomyama command reservoir which ultimately feeds Oshabeni and KwaMadlala. The scheme is a 4 MI/day which affect supply and result in water being rationed to all supply scheme. Still to follow phase 2 to phase 6. Projects completed include:</p> <p>Production boreholes and emergency boreholes project has been realized and ongoing. In addition, construction of Mabeleni pipeline and storage tank is one of the projects that was successfully completed to improve on the pumping regime. In addition, the Mechanical & Electrical replacement project has kicked off successfully, with completion date anticipated end of September 2023. Projects completed include:</p> <ul style="list-style-type: none"> Pungashe-Mhlabatshane recommissioning of Hlokozi WTW (Wards 6, 7) Emergency Boreholes installation and replacement (Wards 1, 7, 8 & 16) Construction of Mabheleni 75/35 mm dia HDPE pipelines, installation storage tank (Ward 12) is completed District Wide Borehole Management System is completed

CHALLENGES AND INTERVENTIONS REQUIRED

ESKOM INTERVENTIONS

- Pending the outcome of the sitting on 8 September 2023

RBIG INTERVENTIONS

- Completion of the Planning Phase IA agreements between DWS and Ugu DM and allocation of funding

WSIG INTERVENTIONS

- Ugu DM has shown that they can efficiently and effectively spend additional WSIG allocations and would welcome further allocation again in 23/24 FY

MIG INTERVENTIONS

- Assistance with deregistration of dormant projects and/or completed planning projects to make space for new critical projects

NATIONAL PROCUREMENT FREEZE AND EMPLOYMENT FREEZE

- Request for exemption or critical targets and interventions will not be met

MAJOR O&M INTERVENTIONS

- **Critical Spares Stores**
 - Approximately R80m is required to get the stores back to where they need to be
 - There's no help in saying that this is an O&M problem as there is no money in the Municipality to replace these critical spares
- **Fleet Resources**
 - Approximately R80m is required to get the fleet back to where it needs to be
- **O&M Budget**
 - O&M budget needs to be increased – Equitable Share is fully committed already
 - Employees are using their own vehicles, own fuel, and own tools to keep the Municipality stable
 - The 10% of MIG for O&M is already allocated to critical repairs projects

THANK YOU

