



INFRASTRUCTURE PROJECTS OVERVIEW



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Foreword by the Board Chairperson,

Advocate Vusi Khuzwayo, SC



The Board of uMngeni-uThukela Water continues to provide strategic governance and oversight to ensure that infrastructure investment advances long-term water security in KwaZulu-Natal. Through accountable leadership, the Board supports the upgrade of existing assets and the development of new water schemes that improve reliability, expand capacity and meet future demand. This oversight helps ensure that infrastructure delivery is guided by sound planning, responsible stewardship and sustainable decision-making, strengthening the organisation's ability to provide lasting value to communities, municipalities and the provincial economy.

Foreword by the Chief Executive,

Mr Sandile Psychology Mkhize



uMngeni-uThukela Water is accelerating the upgrade of existing infrastructure and the construction of new water schemes to strengthen water security across KwaZulu-Natal. These investments are essential to improving supply reliability, expanding capacity and supporting growing communities and economies. By modernising ageing assets and developing resilient systems, we are laying the foundation for sustainable service delivery. Our focus remains on responsible planning, efficient implementation and long-term infrastructure solutions that secure water for current and future generations.

About the Infrastructure Programme

The Infrastructure Programme is guided by uMngeni-uThukela Water's strategic mandate to develop, operate and maintain bulk water and wastewater infrastructure that ensures reliable water supply and sanitation services across KwaZulu-Natal.

Through this programme, the organisation implements large-scale capital projects aimed at strengthening water security, expanding service coverage, and supporting economic development within the municipalities it serves. These projects include dams, bulk water supply schemes, pipelines, wastewater treatment works and system rehabilitation initiatives.

The programme contributes to improving access to safe drinking water, enhancing sanitation infrastructure, and building resilient water systems capable of supporting growing communities and industries.



Categories of Infrastructure Initiatives

› Bulk Water Supply Schemes

Projects designed to abstract, treat, and distribute bulk potable water to municipalities and communities.

› Water Treatment Plant Upgrades

Infrastructure upgrades aimed at increasing treatment capacity and improving the reliability of water supply systems.

› Wastewater Treatment Infrastructure

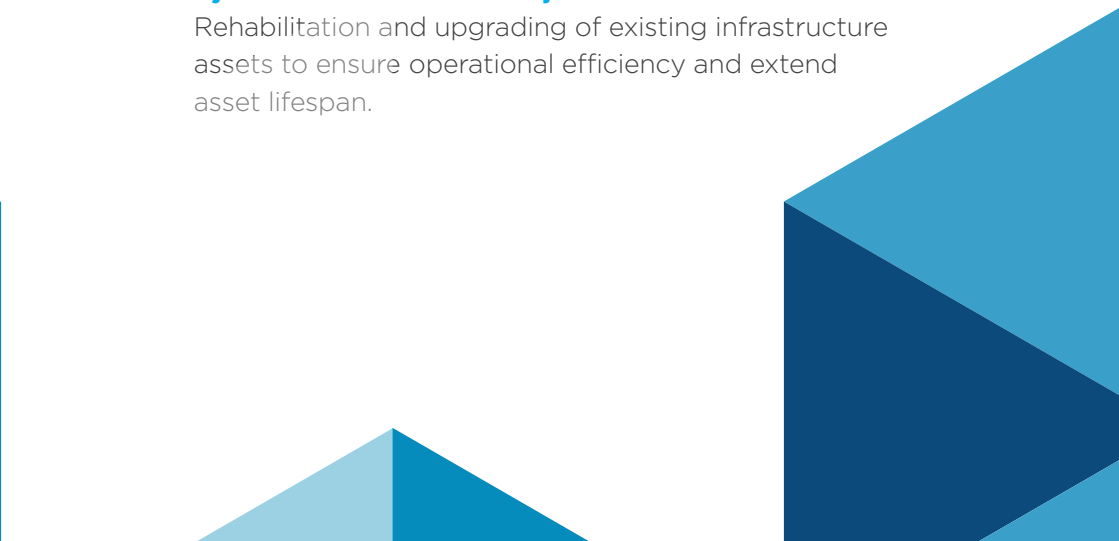
Projects that focus on improving sanitation services and protecting the environment through advanced wastewater treatment facilities.

› Pipeline Development and Expansion

Construction of bulk pipelines that transfer potable water between reservoirs and treatment plants to supply communities across regions.

› System Rehabilitation Projects

Rehabilitation and upgrading of existing infrastructure assets to ensure operational efficiency and extend asset lifespan.



Focus Areas

› **Water Security and Reliability**

Projects aimed at improving access to reliable and safe water supply for municipalities and communities.

› **Infrastructure Expansion**

Development of new bulk water infrastructure to meet increasing demand and support regional growth.

› **Environmental Protection**

Infrastructure designed to protect natural water resources and ensure responsible wastewater management.

› **Economic Development and Job Creation**

Large-scale infrastructure projects contribute to local economic growth through employment opportunities, enterprise development and community participation.



Geographic Footprint

uMngeni-uThukela Water implements infrastructure projects across multiple regions within KwaZulu-Natal to support municipalities and improve service delivery.

North East Region

uMkhanyakude, Zululand, King Cetshwayo and City of uMhlathuze District Municipalities.

North West Region

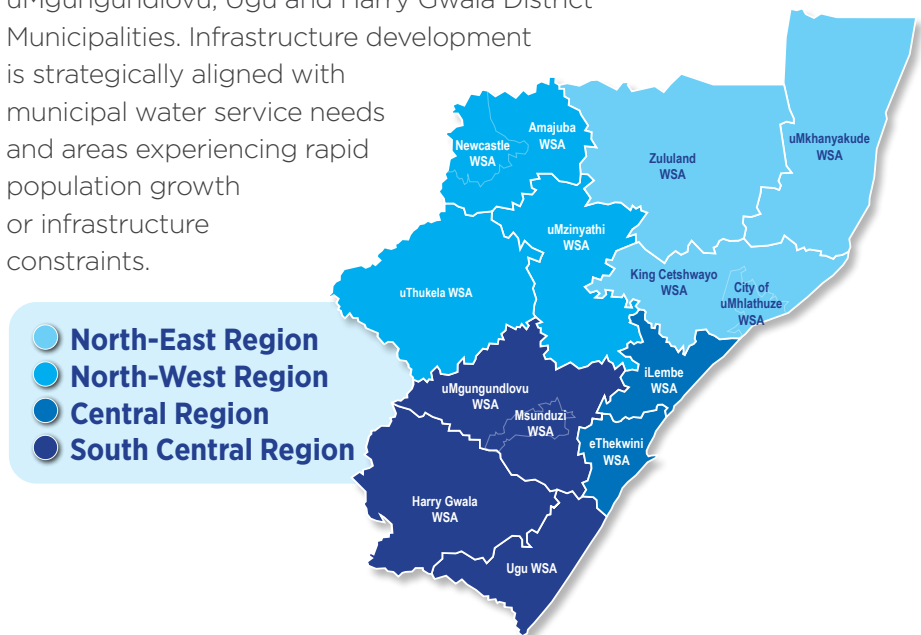
Amajuba, uMzinyathi, uThukela and Newcastle District Municipalities.

Central Region

eThekweni Metropolitan Municipality and iLembe District Municipality.

Southern Central Region

uMgungundlovu, Ugu and Harry Gwala District Municipalities. Infrastructure development is strategically aligned with municipal water service needs and areas experiencing rapid population growth or infrastructure constraints.



Infrastructure Investment

uMngeni-uThukela Water continues to invest significantly in bulk water and sanitation infrastructure through its capital expenditure programme.

These investments support the development, expansion and rehabilitation of key infrastructure systems that improve water supply reliability and strengthen regional water security. Infrastructure projects also contribute to economic development through the creation of employment opportunities and support for local enterprises through Contract Participation Goals (CPGs).

The organisation remains committed to ensuring that infrastructure development contributes to sustainable service delivery and long-term benefits for the communities it serves.



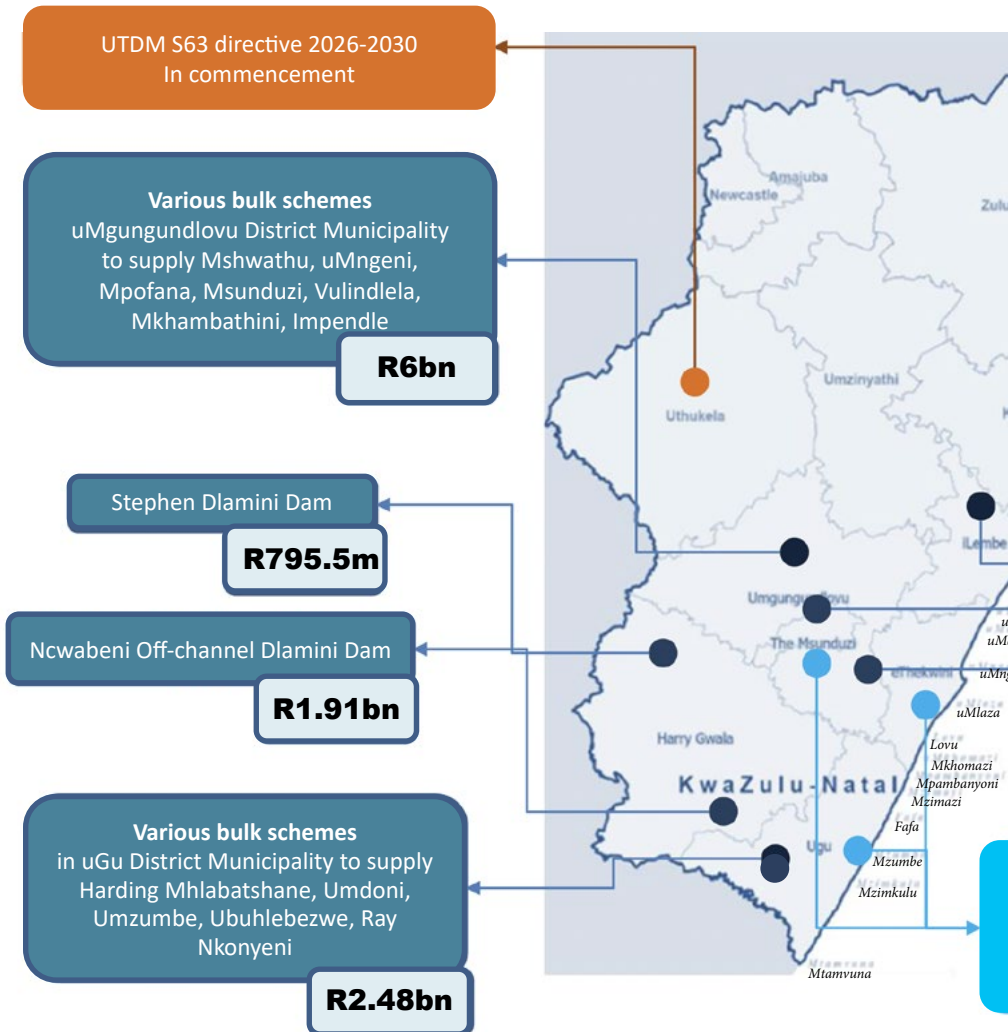
Highlights of Infrastructure Projects

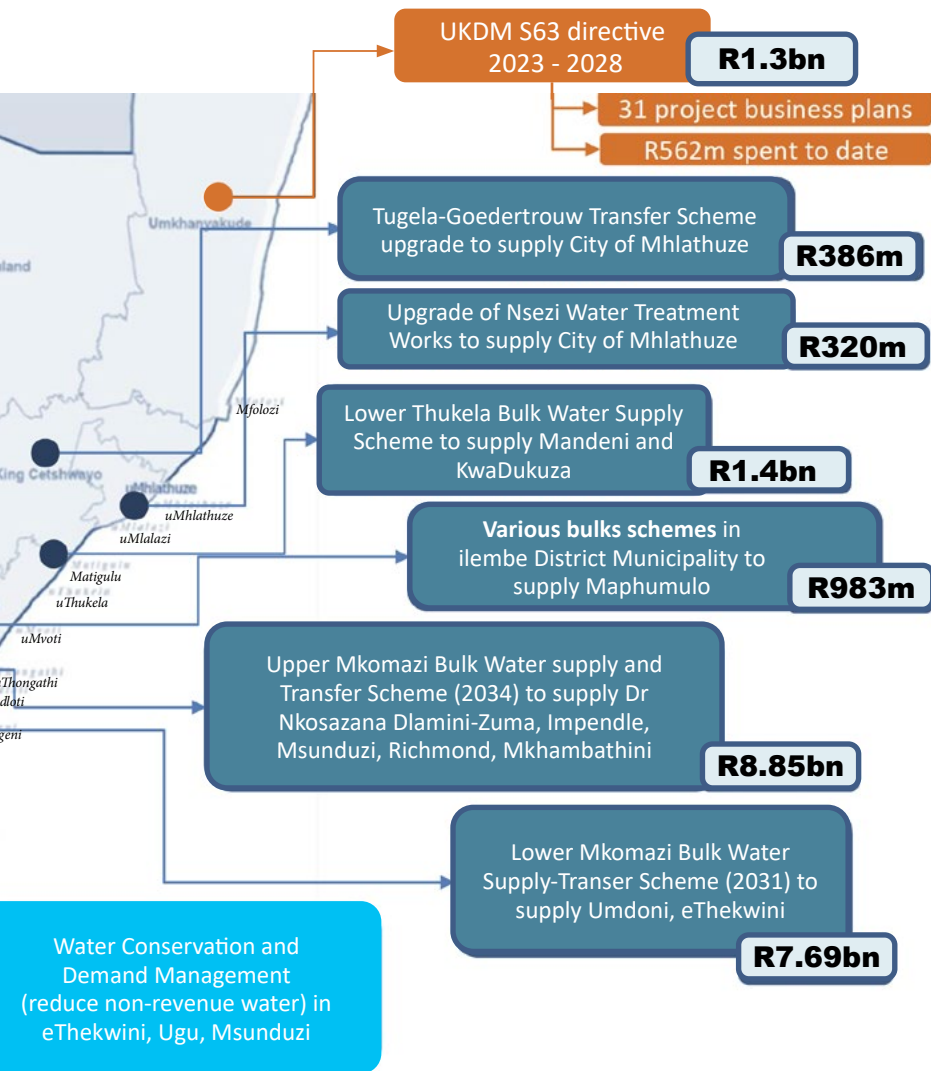
Bulk Water
Supply Schemes



Execution of the Mandate

Future Plans to secure supply and projected CAPITAL cost over next 5 years





Ngwadini Dam

The Lower uMkhomazi Bulk Water Supply Scheme is a major water infrastructure project aimed at improving water supply to communities in the eThekweni Metropolitan Municipality and Ugu District Municipality. Once completed, the project is expected to benefit approximately 50 000 households, with a capacity of 100ML/d. The estimated cost for Phase 1 of the project is approximately R4.3 billion, and the development has already contributed to local economic growth through the creation of 650 decent jobs.

Contract No. 2021/048 involves the construction of the Ngwadini Dam and associated structures. Work began on 17 January 2024, and the project has reached approximately 63% completion. The revised completion date for this contract is 29 August 2027. To date, 60% of the project time has elapsed, while 62% of the budget has been spent.

Lastly, Contract No. 2022/084(A) covers the construction of the Ngwadini Abstraction Works, Pumping System, and Rising Main. Construction began on 24 January 2025, and the project is currently at approximately 24% completion, which is ahead of the planned 17% progress based on the Revision 3 Baseline. The revised completion date is 22 June 2028. However, the contractor's progress report indicates a potential revised date of 3 August 2028 due to delays caused by labour and community-related issues, which remains subject to a formal claim submission and ruling. Currently, 41% of the project time has elapsed, with 27.8% of the budget spent to date.



Lower uMkhomazi Scheme



**100ML/
day water
supply**



**650
jobs
created**



**50,000
households
served**



**R4.3bn
investment**

Contract No. 2020/062:

Ngwadini Advanced Works:

Construction 100% complete.

Certificate of completion issued on 28 August 2024.

Goodenough Abstraction Works

The Lower uMkhomazi Bulk Water Scheme is a major water infrastructure project aimed at improving water supply to communities in the eThekweni Metropolitan Municipality and Ugu District Municipality. Once completed, the project is expected to benefit approximately 50 000 households, with a capacity of 100ML/d. The estimated cost for Phase 1 of the project is approximately R4.3 billion, and the development has already contributed to local economic growth through the creation of 650 decent jobs.

Under Contract No. 2021/018, the Goodenough Abstraction Works and pumping system commenced on 1 June 2022. The project has reached approximately 83% completion to date. The revised completion date is 28 September 2026, assuming that the Eskom electricity connection is completed by the end of June 2026. Time elapsed on the project currently stands at 97.1%, based on the original due completion date of 11 April 2026, while expenditure to date is approximately 98.6%.

Contract No. 2024/140:

Construction of Goodenough Raw Water

Rising Main, Reservoir & Gravity Main:

Kick-off meeting was held on the 16 January 2026.

Construction expected to commence in March 2026.

Anticipated overall completion expected in July 2028.

97.1% Time Elapsed | **98.6%** Budget Spent



Nzinga Bulk Water Supply Scheme

The Nzinga Bulk Water Supply Scheme is another component of the Impendle Bulk Water Supply Scheme aimed at expanding water supply capacity to communities in the uMgungundlovu District Municipality (Impendle Local Municipality). The scheme has an initial capacity of 13 ML/d, with the potential to be upgraded to 18 ML per day in the future. It is expected to benefit approximately 91,466 people. The total expenditure to date amounts to R12,834,132, with a business plan currently being prepared to secure additional funding from the Department of Water and Sanitation (DWS). The variance in program was unavoidable to address design technical requirements and those requested by the Water Service Authority.

The project is anticipated to create around 215 job opportunities. Construction of the Nzinga Scheme is planned to commence in 2027 and is scheduled for completion in September 2030.

Nzinga Bulk Water Supply Scheme: 13 ML/day capacity (upgradeable to 18 ML/day) supplying ±91,466 people; construction 2027–2030, creating ±215 jobs.

Impendle Bulk Water Supply Scheme; Stepmore Scheme

Stepmore Scheme serves uMgungundlovu District Municipality (Impendle Local Municipality) and Harry Gwala District Municipality (Dr. Nkosazana Dlamini-Zuma Local Municipality)

The Bulk Water Supply Scheme: Stepmore Scheme is designed to supply 1.6 Ml/d upgradeable to 3 Ml/d. Construction of the Stepmore Scheme is planned to commence in 2026, with a targeted completion of June 2028. The total expenditure to date is R 12 530 425. Finance has requested that a Business Plan be prepared to source funding from DWS. The project is expected to benefit 13 486 people and has created 50 job opportunities.

The design and tender documentation are complete and being reviewed in preparation for tender advert. Environmental authorisation, land and servitude acquisition are being reviewed to align with recent design amendments and revised regulations. The variance in program was unavoidable to address design technical requirements and those requested by the WSA.

The project is expected to benefit 13 486 people and has created 50 job opportunities.

uMshwathi Bulk Water Supply System Phase 4

The scheme will draw 22.85 ML/d of bulk potable water from the existing 12 ML Ozwathini Reservoir and supply it by gravity to the entire Southern Ndwedwe area, under the Ndwedwe Local Municipality. The detailed design stage is complete. The three work packages are at various stages of implementation. The pipe supply contract was awarded in June 2023 and completion was achieved in March 2025.

The Mshwathi Bulk Water Supply Scheme Phase 4 has created 65 jobs, and allocated R700 000 for community social investment (CSI), and will serve 28 000 households with enhanced water access. Backed by 1.6 billion in total investment, this phase advances water security and local economic development.



**22.85
ML/day
from
Ozwathini
Reservoir,
pipe supply
completed
March 2025.**

uMshwathi Regional Bulk Water Supply Scheme Phase 5

The project will consist of a pipeline from Bruyns Hill Reservoir to Wosiyani in Southern Ndwedwe, with an off-take supplying parts of eThekweni Metro. The capacity of the scheme is 10 ML/day and will ultimately serve 100,000 people.



**Water Supply
Scheme:
10 ML/day
serving
100,000
people.**

Lower Thukela Bulk Water Supply Scheme Phase 2

The project will upgrade the existing Lower Thukela Water Treatment Works from 55 Ml/d to 110 Ml/d. The detailed design has been reviewed by an external Professional Service Provider and currently the recommendations received are being incorporated. The Engineering Services team is also preparing the construction tender document for advertising towards the end of 2025. The project has a budget expenditure of R28 million excluding VAT and has created approximately 159 job opportunities during implementation. The project is expected to benefit 152 114 people. Completion of the upgrade is expected in November 2030.



**R28m
spent,
159 jobs
created,**
completion
November 2030.



Mhlabatshane Bulk Water Supply Scheme Phase 2 – Mzimkhulu River Abstraction

The infrastructure development comprises an abstraction works on the Mzimkhulu River, pump station and pipeline to deliver water to the Mhlabatshane Water Treatment Works. The Mhlabatshane Phase 2 Upgrade is currently in the design phase, therefore no jobs have been created at this stage. The budget allocation for the project is approximately R851 million. Once completed, the project will benefit communities within the Ugu and Harry Gwala District Municipalities. The upgrade will increase the plant capacity to 12 ML/day, improving water supply reliability in the region. The project is scheduled for completion in December 2030.



**Project
Budget:
Approximately
R851m**



Water Treatment Infrastructure





The Maphumulo Water Treatment Plant

The Maphumulo Water Treatment Plant Upgrade project increased the plant's treatment capacity from 6 megalitres per day (ML/d) to 12 ML/d in order to improve water supply reliability and meet growing demand in the surrounding communities. The upgraded facility will benefit approximately 200 000 people by ensuring improved access to safe and reliable drinking water. The total budget spent on the project, including the water treatment works and the construction of the access road, amounts to R300,259,943.48 excluding VAT. The project was successfully completed in November 2025 and forms part of ongoing efforts to strengthen regional water infrastructure.

The upgrade of the Pump Stations is complete. The upgrade of filters, clarifiers, reservoir, reactor, administration building, chlorine room and Head of Works is complete. The Environmental Authorization, Works Permit, WUL A and Waste Management License are all in place, and the project is in compliance with all legislation requirements.



An aerial view of a water treatment facility. In the foreground, a dirt road curves through a grassy area. A person is walking on the road. To the left of the road is a fenced-in area with a small red building with a green roof. Behind the fence are several large concrete tanks and a larger green-roofed building. In the background, there are more buildings and a clear blue sky with some clouds.

**Project
Expenditure:
R300m**
(excluding VAT)
for water treatment
works and
access road.

Augmentation of Nsezi Water Treatment Works

Serves uMhlathuze Local Municipality

The project entailed an increase in capacity of the Nsezi Water Treatment Plant from 205ML/day to 260ML/day, through construction of additional water treatment process units. Total expenditure that was used for this project is R295,120 814.60 and about 15 758 residents benefit, with an approximated population of 74,183. The project has been successfully completed and handed over to Operations. The project created approximately 190 temporary employment opportunities. The defects and liability period will conclude in August 2025 at which point the final Approval Certificate will be issued.

**Project
Impact &
Expenditure:
R300m
spent,**

benefiting 15,758
residents of a 74,183
population.

Wastewater Infrastructure



The Mpophomeni Wastewater Treatment Works

The Mpophomeni Wastewater Treatment Works project involves the construction of a 6 ML per day wastewater treatment facility aimed at improving sanitation services and protecting the environment in the Mpophomeni area. The project is designed to serve approximately 27,000 households. The overall project budget is R580.547 million, with actual expenditure to date amounting to R557,320,505, representing 95% of the total budget. The project has also contributed to local economic development through the Expanded Public Works Programme (EPWP), creating an average of 19 jobs per month. Practical completion was achieved in July 2025, with final completion scheduled for June 2026.



An aerial photograph of a water treatment facility. In the upper left, there are several rectangular aeration tanks with blue-grey water. To the right of these is a larger rectangular tank. In the lower left, two large circular clarifiers are visible, each divided into four quadrants by radial metal beams. A dirt road winds through the site. In the top left corner, there are small red and blue buildings. A body of water is visible in the top right corner.

**Project
Expenditure:
R300m**

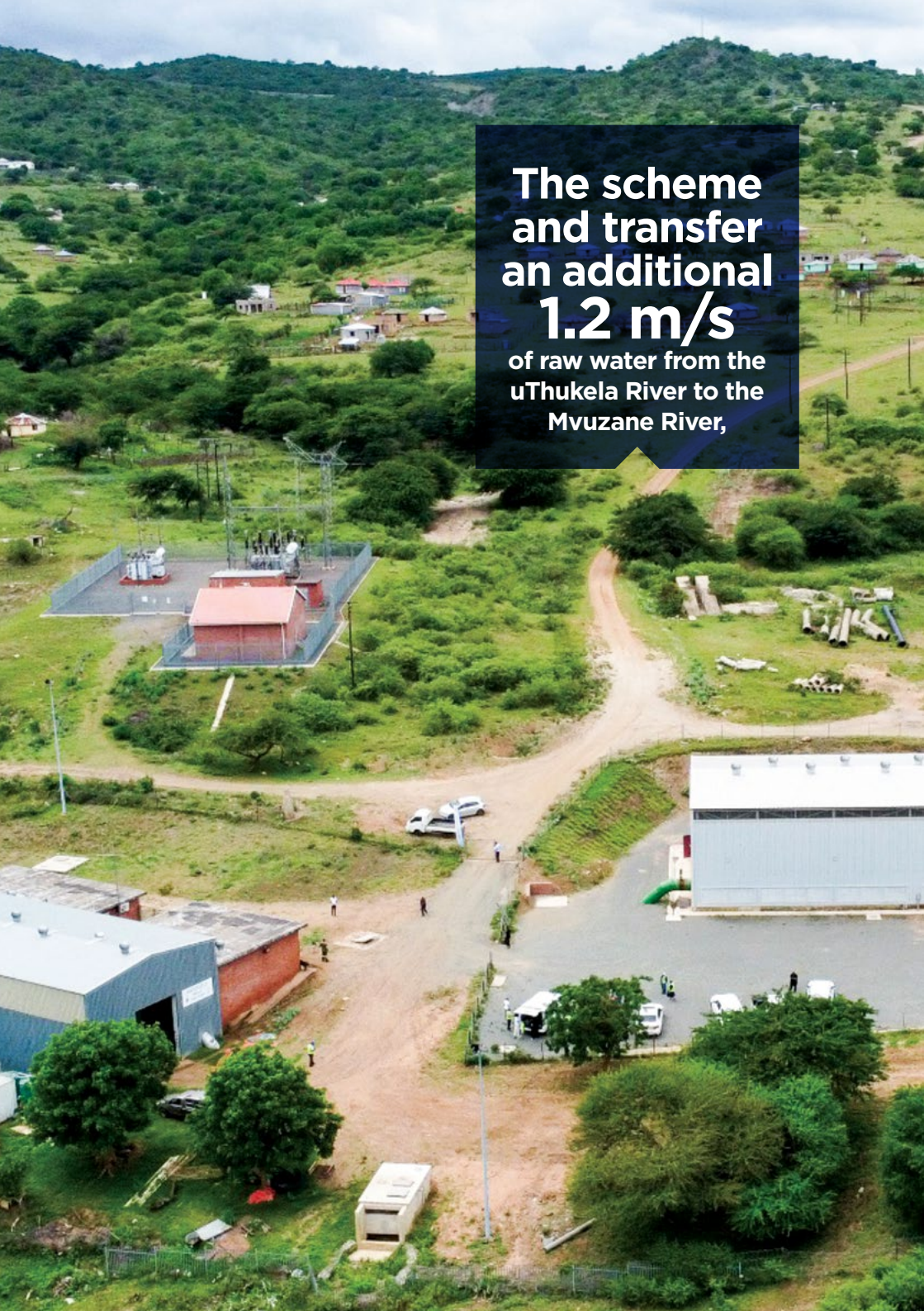
(excluding VAT)
for water treatment
works and
access road.

Thukela-Goedertrouw Transfer Scheme

Infrastructure: 16km pipeline, 2 new pump stations. Community Benefits: Boreholes, cattle drinking facilities, causeways

The project entailed the completion of the upgrade of the Thukela-Goedertrouw transfer scheme to duplicate the existing scheme and transfer an additional 1.2 m³/s of raw water from the uThukela River to the Mvuzane River, a tributary of the Mhlathuze River, upstream of the Goedertrouw Dam. Thukela-Goedertrouw transfer scheme has achieved practical completion in all aspects of the project despite power supply challenges. Provision for interim power supply was implemented while the process for a permanent power supply is ongoing. The project commissioning commenced in June 2025.



An aerial photograph of a water treatment facility. In the foreground, there's a large blue and red building, a paved area with several white vehicles, and a dirt road. A large, modern grey building with a white roof is on the right. In the middle ground, there's a fenced-in area with a red-roofed structure and electrical equipment. The background shows a lush green valley with scattered houses and rolling hills under a cloudy sky.

The scheme and transfer an additional 1.2 m/s

of raw water from the
uThukela River to the
Mvuzane River,

Pipeline Infrastructure





South Coast Pipeline Phase 2B

The pipeline is designed to supply approximately 16.7 Ml/d and will link Scottburgh South to Pennington and then to Malangen Reservoir. The contract was awarded in August 2020 and construction commenced in March 2021. The project is currently undergoing the complex construction of the N2 Umzinto pipe bridge. The project is 95% complete and is envisaged to be completed and commissioned in March 2026, with an estimated project cost of R481 000 000.00 and local Contractor Participation Goals (CPG) participation development and SMME development worth R187 590 000 (39%).



The scheme and transfer an additional **1.2 m/s**

of raw water from the
uThukela River to the
Mvuzane River.



Infrastructure Rehabilitation

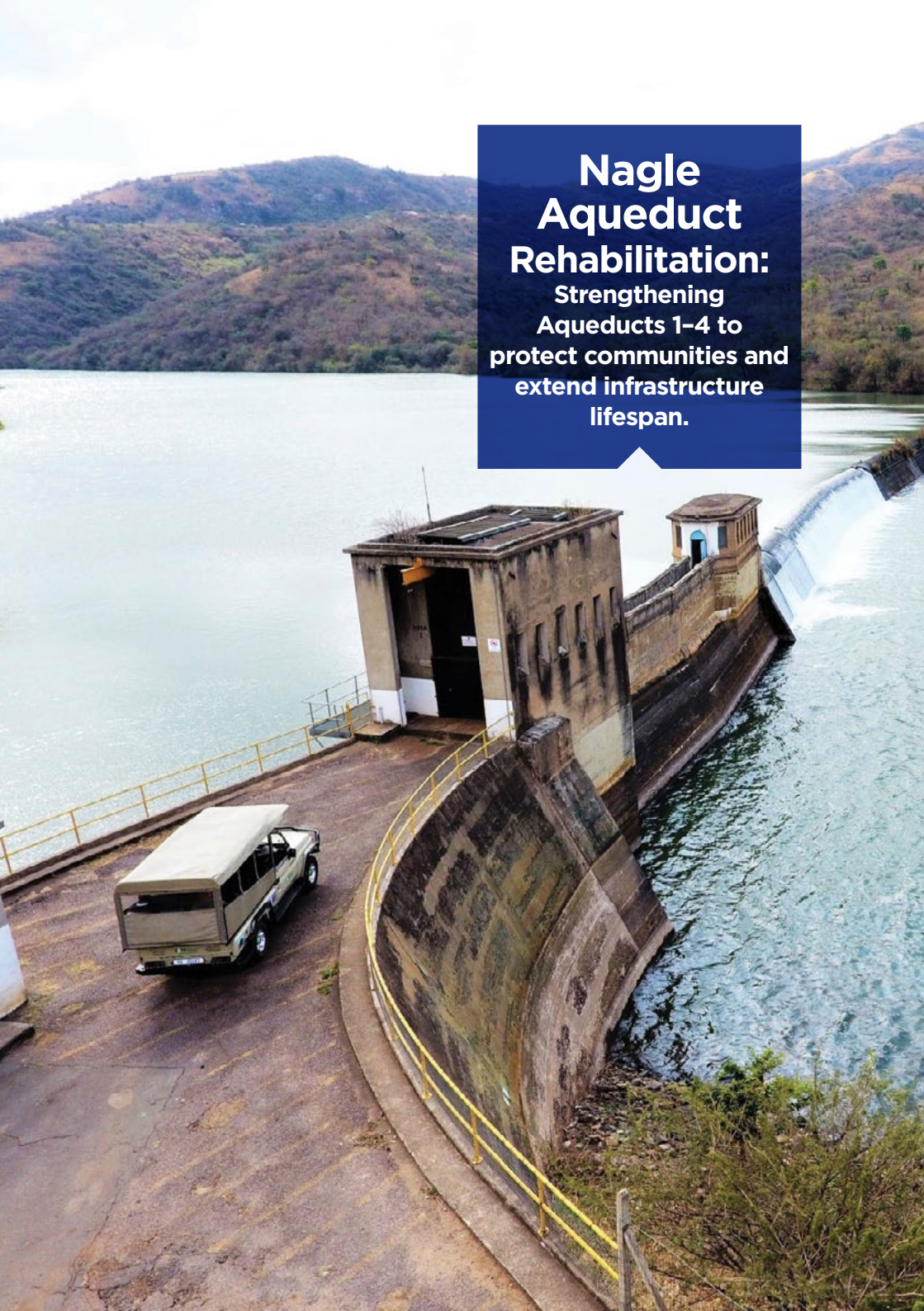




Rehabilitation of Nagle/Durban Heights/Inanda/Wiggins Systems

This project is a rehabilitation of major existing assets and is split into four sub-projects as outlined:

- Emergency Rehabilitation to Aqueducts 3 & 4 Siphon 6: Slip lining will protect the Clermont community against consequences of a burst. Project has been awarded and the appointed contractor was scheduled to commence with work however the April 2022 floods had damaged Nagle Aqueducts 1 & 2. Subsequently, the Nagle Aqueducts 3 & 4 could not be handed over to the contractor and the project has been suspended until the Emergency Rehabilitation of Nagle Aqueducts 1 & 2 has been completed- Project is currently suspended until the CML project has been completed.
- Nagle System Auxiliary Works: Purchasing of large diameter valves to be installed on aqueducts under the Rehab. The rehabilitation of the Nagle Aqueducts 1 & 2 is currently underway. The Project is 98% complete with a due completion date of November 2025.
- Carbon Fibre Repairs: Repair of Nagle Aqueducts following scanning to identify affected portions will ensure longevity of the Nagle Aqueducts. Project is scheduled to only be implemented once the Emergency Rehabilitation to Nagle Aqueducts 1&2 as well as the slip-lining project for Nagle Aqueducts 3 & 4 Siphon 6 has been completed. Project is to be undertaken by Project Office.

A photograph of the Nagle Aqueduct, a large concrete structure with a curved wall and a small building on top, situated on a riverbank. A white van is parked on the paved area next to the structure. In the background, there are hills and a body of water. A blue text box is overlaid on the right side of the image.

Nagle Aqueduct Rehabilitation:

**Strengthening
Aqueducts 1-4 to
protect communities and
extend infrastructure
lifespan.**

Upgrade of the Babanango Spring Water Supply Scheme

uMngeni-uThukela Water (UUW) was requested by the Department of Water and Sanitation (DWS) to investigate and fund the upgrading of a rudimentary water supply system for communities east of Babanango. Babanango is a small town located approximately 54 km north-west of Melmoth.

The scheme is located east of Babanango along the R68. The flow in all bulk pipes is governed by the elevation difference between the spring and the receiving reservoirs. The proposed infrastructure has been determined. To increase the flow of supply to Reservoir A, it is proposed that Spring B be the primary source. This will result in a higher driving head and, therefore, an increased flow. A 110 mm diameter pipe is proposed from Spring B to Reservoir A. Supply from Spring A could be linked to this pipeline to increase the available yield and meet growing demand. This link will also provide a contingency supply to Reservoirs A and B.

The project operates at an estimated capacity of 0.5 ML/day. Accordingly, the storage tanks have been designed to ensure that adequate supply meets the water demands of the Babanango community.

The entire Babanango community will benefit from this project. A total of R203,530,554.27 has been spent to date, and approximately 14 local people have been employed. The Babanango Spring Water Supply Scheme is scheduled for completion in May 2026.



**A total of
R203,530,554.27
has been spent
to date,**

**and approximately 14 local
people have been employed**



