

# Floumeter

December 2014

*From the Board, Executive  
and Management, Merry  
Christmas, Happy Festive  
Season and a Prosperous  
New Year*



A journey from water  
for a few to water for all









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## CE OFFICE



**T**is the season to be jolly..... Yes, indeed, it is the season to be in a celebratory mood as another year comes to an end and another festive season begins. If you are now winding down and tying up the loose ends before you go on leave, happy holidays; you've earned it. From an organisational perspective, it has certainly been both a momentous and jam-packed year as we lurched from one activity to another in our pursuit to fulfil our mandate, commitments to our customers and, at the same time, indulge in some nostalgia generated by Umgeni Water's 40 years of existence.

This blog will be the last for 2014, and I thought I'd do a quick recap of 2014 before we take a well-deserved break from our busy schedules. The year undoubtedly began at normal pace, but gained additional momentum in the weeks ahead. As you are aware, all of our activities and functions at Umgeni Water are informed by the mandate that has been issued to us in terms of the legal framework that led to the establishment of Water Boards, and are guided by the organisational Score Card and business plan. With regards to the latter, work began on the new organisational Score Card and business plan in the

### *Christmas Message from the CE*

preceding financial year and the business plan was finalised in March 2014. Implementation of these strategic documents has begun in earnest, and I am delighted to report that we are on track insofar as our commitments are concerned.

In the run-up to the May 2014 General Elections Water Boards, including Umgeni Water, were kept on their toes as public focus shifted to service delivery, water quality and the sustainable provision of safe drinking water. Umgeni Water, for its part, has consistently ensured that its customers were and are able to provide an acceptable level of water services to consumers; therefore, there were no community frustrations over service delivery in the Umgeni Water operational area. In the aftermath of the General Elections, some significant structural changes occurred, manifested in the Department of Water and Environmental Affairs becoming the Department of Water and Sanitation. In addition, water sector institutions now have a new Minister and Director-General. The Minister is Nomvula Mokonyane while the Director-General is Margaret-Ann Diedricks.

Following the appointment of the Minister and Director-General, water sector institutions had a series of strategic and high-level meetings with the leadership of the Department of Water and Sanitation to charter the way forward in the planning of future water resources and provision of water services to communities that are resident in unserved areas. There have also been discussions over sanitation as an area of responsibility of the Department of Water and Sanitation, with a view to developing a blue print that will be aligned to the National Development Plan.



## CE OFFICE



On the question of stakeholder engagements, we continued to meet our obligations in relation to mandatory as well as voluntary interactions. I can say without an iota of hesitation that we were able to meet with our entire spectrum of stakeholders, from the Executive Authority, to Strategic (the KwaZulu-Natal Provincial Government), to customers, the media and civil society. There were a few strategically important highlights in these engagements which included a dialogue with our customers and potential customers and the South African Local Government Association, our participation in an imbizo in Pietermaritzburg, the release of our performance results and several planning sessions at which water sector institutions brain-stormed over their role in consolidating and contributing to the accelerated delivery of water services, especially to communities in backlog areas. It was heart-warming and a learning curve for us when we went to the community living in the vicinity of Inanda Dam to launch an awareness campaign on how to prevent drowning in rivers and dams. The community was highly receptive and welcomed us warmly as an expression of their appreciation.

As we approach the third and fourth quarters of

### *Christmas Message from the CE*

the current financial year, I do not predict that there will be any letting up on our engagements with stakeholders. These engagements have become particularly urgent in view of the increased emphasis that is being placed on service delivery by the Government and especially in view of the 2016 Local Government elections. The key issues in the Local Government elections will be about the provision of basic services, including a sustainable supply of drinking water. During discussions with our customers, I emphatically stated Umgeni Water's position that any attempts to address service delivery shortcomings and also meet the expectations of communities would require adequate advance planning. There are no quick fixes, and Mayors and their officials must be aware of this.

Another area that will be receiving high-level attention at Umgeni Water is acceleration in implementation of infrastructure and strategic focus on generating new business. A great deal of work has already been done in these areas, and the Board and Executive are confident that the targets that have been set will be met. When we return in the New Year, a great deal of work awaits us, and when accomplished the end results will unquestionably show again that Umgeni Water will indeed remain as a leader of the water sector.

No Chief Executive's year-end message can be complete without wishing all staff, their families and others who are close to them a Merry Christmas and a joyous festive season. At the same time, have a wonderful New Year and I hope that all the wishes and objectives you have set are achieved. If you will be driving, please ensure that you get to your destination safely. Cheerio, until we meet again in 2015.

**Cyril Vuyani Gamede**  
Chief Executive





## CE OFFICE

### *Board & Exco Visit Lesotho*

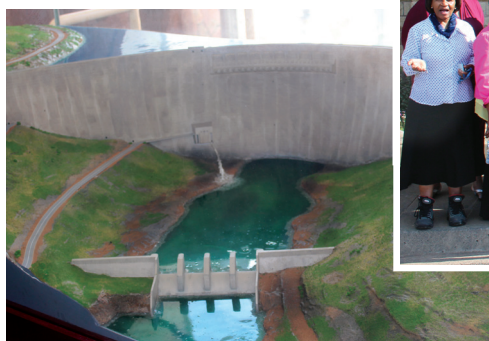
**M**any of you may have seen Board and Exco members pack their bags into vehicles in the Head Office car park before setting off on Monday, 24th November 2014. You probably wondered where they were headed. They were on their way to Lesotho to visit the Lesotho Highlands project commonly known as Katsi Project.

This project is considered to be among the largest water schemes in Southern Africa and it was implemented by the Trans-Caledon Tunnel Authority. During the visit, members of the Board and Exco drove to the highest point of the Katsi Mountains, which provides a fabulous view of the Lesotho mountain and surrounds. A visit was also made to the Lesotho Muela Hydro Power station to see the process of power generation from water captured from the Katsi River. Power generated from this scheme is supplied to Lesotho. They also visited the Katsi trout farm which exports trout to international markets.

The trout farm has created numerous jobs and its management contributed to primary health care by building a hospital that was handed over to the government of Lesotho to manage. There is also an information centre in the complex which visitors use to learn more about the project. Katsi Village has been converted into a lodge for visitors that is managed by the people of Lesotho.

The two-day visit was a wonderful experience and a great eye opener for both Board members and Exco as it provided an insight into the components of the project.

**Contributed By**  
**Thokozani Hammond**







## CE OFFICE

### *Water Restrictions: Hazelmere Waterworks Supply Area*



The prevailing drought and deteriorating levels of the Hazelmere Dam have prompted Umgeni Water and the three Water Services Authorities in the Northern Area (eThekweni Metro, iLembe District Municipality and Sembcorp Siza Water) to implement tougher water curtailment measures which are intended to ensure that there is sufficient water available during the festive season and in the months ahead into 2015.

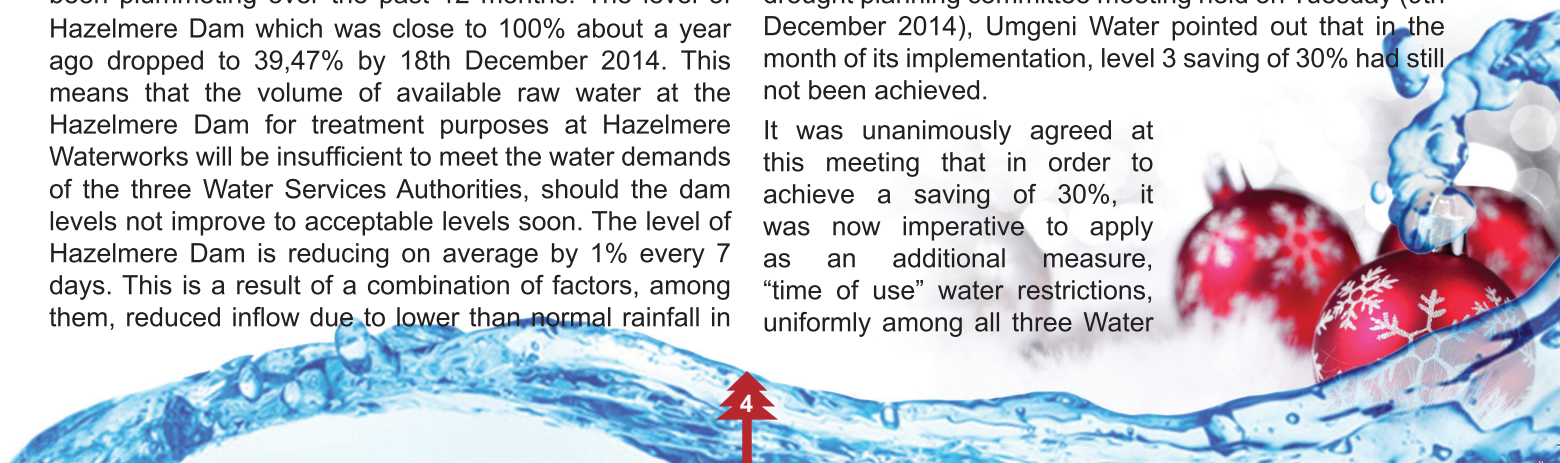
The Joint Drought Planning Committee, which comprises Umgeni Water, eThekweni Metro, iLembe District Municipality and Sembcorp Siza Water, met in an emergency session on Tuesday (9 December 2014) to examine proposals to manage the critical situation relating to raw water shortage that has been caused by below-average rainfall over the past 12 months.

Discussions centred on the current raw water resource availability at Hazelmere Dam, where the levels have been plummeting over the past 12 months. The level of Hazelmere Dam which was close to 100% about a year ago dropped to 39,47% by 18th December 2014. This means that the volume of available raw water at the Hazelmere Dam for treatment purposes at Hazelmere Waterworks will be insufficient to meet the water demands of the three Water Services Authorities, should the dam levels not improve to acceptable levels soon. The level of Hazelmere Dam is reducing on average by 1% every 7 days. This is a result of a combination of factors, among them, reduced inflow due to lower than normal rainfall in

the catchment, high temperatures, increased evaporation and increased demand. The actual Hazelmere Dam rainfall totals received for October and November 2014 are 46mm and 67mm respectively. The corresponding monthly past long-term averages for October and November is 101mm and 100mm respectively.

In response to the current situation, Umgeni Water, eThekweni Metro, iLembe District Municipality and Sembcorp Siza Water have been in regular discussions, and about two months ago a decision was taken to apply level 1 restrictions. The intended result was a curtailment in demand of 10% collectively across all 3 Water Services Authorities. However, this was not achieved and a decision was subsequently taken to apply level 2 restrictions to produce saving of 20%. Due to the continued decline in the storage at Hazelmere Dam, the drought planning committee agreed to impose level 3 restrictions with a view to achieving 30% reduction in demand. At the drought planning committee meeting held on Tuesday (9th December 2014), Umgeni Water pointed out that in the month of its implementation, level 3 saving of 30% had still not been achieved.

It was unanimously agreed at this meeting that in order to achieve a saving of 30%, it was now imperative to apply as an additional measure, "time of use" water restrictions, uniformly among all three Water







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### *Water Restrictions: Hazelmere Waterworks Supply Area*

Services Authorities. What this new measure means is that load shedding will occur on a certain number of days in a week and for a certain number of hours. In this time water supply to domestic and business users will be entirely disconnected. Details about the “time of use” implementation schedule and alternative sources of water supply will be communicated by the Water Services Authorities via press releases or their web sites.

The affected areas that are supplied by the Hazelmere Waterworks and where “time of use” curtailments will apply are: Waterloo, Verulam, La Mercy, Westbrook, Tongaat, Seatides, Groutville, Ndwedwe, Ballito and Umhlali. The application of “time of use” measures must be seen in the context of the prevailing dire situation and as a practical and workable alternate. As a strategy it is intended to stabilise the level of the Hazelmere Dam in order to prevent it from falling to below 35% which, if it occurs, would precipitate a crisis.

It is also important to note the following storage forecasts for Hazelmere Dam. These are based on the assumption that no rainfall will occur ie. worst case scenario.

- If production remains at the current level (40MI/d) and no curtailment is applied, the date on which the dam is expected to run out of water is the 1st week of April 2015
- If Hazelmere Dam production is reduced to level 1 curtailment (10%) of 36MI/d, the date on which the dam is expected to run out of water is the 3rd week of April 2015
- If Hazelmere Dam production is reduced to level 2 curtailment (20%) of 32 MI/d, the date on which the dam is expected to run out of water is the 1st week May 2015
- If Hazelmere Dam production is reduced to level 3 curtailment (30%) of 28MI/d, the date on which the dam is expected to run out of water is 3rd week of May 2015
- If Hazelmere Dam production is reduced by 50% (20MI/d), the date on which the dam is expected to run out of water is the last week of July 2015

The figures above and forecast

made are subject to change if rainfall does occur. Weather experts predict that good rainfall is only expected to occur in the first quarter of 2015. It is therefore imperative that firm and drastic action by the three Water Services Authorities and Umgeni Water is required in order prevent a slide into a water availability and supply crisis. Every measure has been taken thus far to ensure that minimal inconvenience is caused to all water users within the supply areas of the Hazelmere Waterworks, and will continue when the “time of use” curtailments are implemented. Umgeni Water, eThekweni Metro, iLembe District Municipality and Sembcorp Siza Water are appealing to all consumers to please co-operate and assist in achieving the targeted saving of 30% by using water sparingly and adhering to the restrictions imposed.

The “time of use” curtailment will be reviewed on a regular basis, the first of which will occur in about three (3) weeks. This measure will be lifted once a saving of 30% in water usage is achieved consistently or when good rainfall occurs, allowing the level of the Hazelmere Dam to rise again.

**Contributed by  
Shami Harichunder**





## CE OFFICE

### *Umgeni Water Scoops Gold Award*

Umgeni Water scooped an award at this year's Sunday Tribune Garden Show. This follows the award it received at the Water Institute of Southern Africa's Conference and Exhibition, held in May 2014 in Mpumalanga.

The Sunday Tribune Garden Show award was received for one of the best outdoor exhibition stands, which amply illustrated the theme "INTO THE FUTURE" and Umgeni Water's 40-year history.

Congratulations once again to Rob Burgess, who designed the winning stand. A special thank you also goes to Mavis Mdluli, who willingly assists at this show.

**Contributed By**  
**Thokozani Hammond**







## CE OFFICE

### *Dam Safety Legacy Event*

Umgeni Water held a Dam Safety Awareness Event at Inanda Dam on 11 November 2014. The purpose of this event was to create awareness among learners and adults about the risks associated with swimming in unprotected rivers, streams and dams.



The Dam Safety Awareness Event was a joint initiative among Umgeni Water, Department of Water and Sanitation, Life Guard Academy, Enforce, eThekweni Municipality and Aqua. Local Amakhosi also supported this initiative. Twenty local schools identified by Amakhosi participated in the water safety classes that were conducted by the Life Guard Academy. The purpose of these classes was to inform children what to do in order to prevent injury or drowning when faced with a dangerous situation.

Schools participated in a poster competition which depicted dangers around dams. First prize of R3 000 was awarded to Khanyisani Primary school, second prize of R2 000 went to Mthubi Primary School and third prize of R1 000 was awarded to Bazothini Primary School.



The Executive and Board members of Umgeni Water were present at the function which drew about 400 people from the Inanda area.

Addressing local communities, Board member Mpume Chamane, said: "As much as it is Umgeni Water's responsibility to provide infrastructure within our area of operation, it is also our responsibility to ensure that people living close to water infrastructure such as dams are made aware of safety precautions and measures to take."

Similar safety events will be held annually at all dam sites where communities live. The event was flighted on SABC-TV programme Morning Live.

Speaking at the event, the Chief Executive of Umgeni Water, Cyril Gamede, said: "An Umgeni Water team is here today on an important mission to help in the process of information and education provision, as part of our organisation's commitment to assist in the protection of communities that live close to bulk water storage and treatment infrastructure that is owned and managed by Umgeni Water.

"We are here with representatives of the Life Guard Academy and Life Saving KwaZulu-Natal who have joined us to share their knowledge and experiences in how to prevent accidents, incidents and deaths that occur in unprotected areas where people swim, such as rivers and dams. Representatives of the Life Guard Academy and Life Saving KwaZulu-Natal have already held simulation exercises on what to do should you get into difficulties while in a river or a dam, and they have also done presentations on safety measures to adopt while in an unprotected area. The information and education they provided will certainly assist a great deal in preventing injuries and in saving lives. But, don't forget that the safest rule to apply if you do not know how to swim but are in a river or dam: do not enter an area that is deep or where water is flowing fast enough to wash you away. The unfortunate reality is that when people who do not know how to swim get into difficulty, they panic, often resulting in the tragic loss of life. Over the years many drowning have occurred in this way, including in rivers that flow into Inanda Dam. I mentioned earlier that Umgeni Water's participation in this initiative is driven by its need to help save lives. I will elaborate on





## CE OFFICE

### *Dam Safety Legacy Event*

this now: for many years we have been concerned about the number of people who have drowned close to, but not in, Inanda Dam. If only the victims had been empowered with the necessary information about safety, this loss of life may not have occurred. The leadership of Umgeni Water took a decision that something has to be done in order to prevent deaths. In the past two months planning of this event began with engagement of local leadership, represented by Amakhosi, Indunas and Ward Councillors. In the education sector we engaged with the Department of Education and local schools. I want to thank all the Amakhosi, Indunas, Ward Councillors and Educators who so willingly gave their time to hear from us about this project. I also want to thank you for enthusiastically supporting this programme.

“When we leave, the initiative that we implemented here today will not end – not by far. As Umgeni Water’s legacy to this community in the year of its 40th anniversary, the organisation will engage some professional swimmers and at least one life saving club to train a group of local people in how to swim and themselves become life savers. The professionals that Umgeni Water will engage will also assist in the establishment of a swimming club that will comprise the people from the local community who will be trained by them. Members of the swimming club will then impart to the local community and learners from local schools the swimming and life-saving skills they learnt. Umgeni Water will support and sponsor this initiative as part of its corporate social responsibility. We are convinced that the swimming club and the people who have obtained skills from it will become an indispensable part of the efforts



Umgeni Water has initiated to make dam and river safety a major item on the agenda of the Inanda community.

“While on the subject of safety, I thought it is important that I share with you another area of concern for Umgeni Water. Like many other State entities, Umgeni Water has infrastructure such as dams, pipelines, reservoirs and water treatment plants in its service area. If, for example, in the planning phase a pipeline is to cross through a privately-owned or State-owned property, Umgeni Water negotiates with the owner and, if this negotiation is successful, pays the owner compensation for the part of the property that will house the pipeline. This part

is called a servitude which is registered in the name of Umgeni Water and Umgeni Water becomes the legal owner. Despite servitudes being clearly marked, informal dwellings have unfortunately been built on them without the owner’s consent. The problem areas for Umgeni Water are parts of Durban (Inanda, Claremont, Molweni and Reservoir Hills), uMungundlovu (Henley Dam) and Ugu (within Umdoni).

“The construction of dwellings on or close to servitudes poses a huge problem. What follows is that Umgeni Water staff cannot access pipelines for maintenance and repair purposes and if this cannot be done, a pipeline rupture could occur. These are high-pressure pipelines that carry huge volumes of water. Imagine this: a pipeline bursts and there are dwellings on or close to it. Everything in the path of the pipeline will be washed away. This is precisely what happened in Molweni in 2009. One of Umgeni Water’s pipelines that carry raw water from Nagle Dam to Durban





## CE OFFICE

### *Dam Safety Legacy Event*

Heights ruptured. A house built close to it was washed away in the force of the water. Two children who were in the house were also swept away and were found dead the following morning. A school and some houses that were further away from the pipeline were also damaged.

“Umgeni Water is taking the issue of servitude encroachment very seriously and has begun a communication campaign with Ward Councillors, Amakhosi and schools to create awareness of the dangers of living on or near a pipeline and also of the consequences of infringement of the legal rights of owners of servitudes.

“We want you to help us by informing people you know about the risks and dangerous associated with the encroachment of servitudes. If you do this, you will be playing an important role in preventing possible injury or the loss of life. Umgeni Water knows and fully understands that because of circumstances beyond their control, some people are desperate for a shelter they can call home. But they should not build these shelters on servitudes. The way of obtaining a home is by following the process of application as set out by a municipality.”







## CE OFFICE

### *Staff Awards Day*

**S**taff Awards Day 2014 was special because it is part of Umgeni Water's 40th anniversary. The Executive, Management and the 40th Anniversary Committee wish to express their thanks to Thokozani Hammond and her implementation team for arranging a successful function. In line with the 40th anniversary flavour and celebration, a poem has been written and shared with all who are close to the organisation. This short poem is a tribute to Umgeni Water, its resilience and – importantly – to you for your sterling work and contribution to the success of Umgeni Water.

#### **Way back in 1974**

*Four people walked through the door  
In an old building in Longmarket Street  
There was nobody there for them to meet  
When water was just for a few and even then  
The logo was still blue  
When the customer base was small  
And the orders for water received not so tall*

#### **Fast forward Umgeni Water of today**

*Forty years and we did not fall  
Celebrating – water for a few to water for all  
Strong, resilient and proud to the core  
Umgeni Water of today is in the fore  
Of an industry that delivers an essential need  
Without which our economy will be reduced to a reed  
Colleagues - past and present, you were the source  
That drove this organisation to become a mighty force*

**Composed by Nirasha Sampson and Shami Harichunder**

Congratulations to staff who received Long Service Award Certificates.

A few of our pensioners also graced this occasion, which was an awesome way to celebrate 40 years.

In a speech at the function Chief Executive Cyril Gamede said: "Today's occasion has a very special meaning to all of us who are here this morning. It coincides with the 40th anniversary of Umgeni Water. Yes, Umgeni Water turned 40 years old in July 2014, and you have created and been part of the rich and wonderful history of our organisation. The many successes and accomplishments of Umgeni Water over the past four decades have been as a result of your hard work, dedication and loyalty. Today Umgeni

Water is held in high esteem and remains one of the most respected water sector institutions that continues to play an important role in improving the quality of life of millions of people."







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## Staff Awards Day







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## Staff Awards Day





## FINANCE



**Thami Hlongwa**  
**GM: Finance**

### *Christmas Message from GM: Finance*

**W**here do I begin when speaking to the wonderful people of Umgeni Water. This marks my second festive season since I joined Umgeni Water and I must say there has never been a dull moment since. I have watched with interest and inspiration on the environment within Umgeni Water which encourages that we work hard and play hard without compromising what we are mandated to do which is water provision to all our people. In the same spirit I trust we will apply the same during this festive season, whereby we take time out to enjoy with our families responsibly in order to come back next year refreshed to work even harder in our efforts to deliver on our mandate.

2014 has been a great year; we have achieved a lot and yet we still have a long way to go. We are nowhere near completion.

Thank you for the cordial relationship we have had thus far as colleagues working together to achieve our set goals and targets in 2014. To my Exco colleagues and the Board, thank you for the confidence in my leadership and for the support that you have provided over the year. Last but not least to my Finance team, continue being the great team that you are. This organisation would not have achieved what it had achieved without you and to all Umgeni Water colleagues, my sincere appreciation for your support and understanding.

May you and your families have a Merry Christmas and a happy New Year while looking forward to a wonderful and prosperous 2015.

**Thami Hlongwa**  
**GM: Finance**





## FINANCE

### *Umgeni Water's Annual Performance Road Shows*

The General Manager of Finance Thami Hlongwa, Teboho Nkhahle who stood in for Board Chairman Andile Mahlalutje and the Chief Executive Cyril Gamede once again led the 2014 Annual Report Presentations which were held at the Hilton Hotel in Durban on 22 October 2014. The first session in the morning was for the media and the afternoon session for the other stakeholders.

The Durban Road Shows were later followed by Individual road shows held in Gauteng and Cape Town where presentations were done for mainly the banking sector.







## ENGINEERING & SCIENTIFIC SERVICES



**Steve Gillham**  
**GM: E&SS**

### *Christmas Message from GM: E&SS*

**W**e have come to the end of 2014 with mixed emotions. On the one hand it has been a momentous year with Umgeni Water - celebrating its 40th birthday, achieving a solid financial performance, as well as exceeding targets and passing the R1 billion mark in Capex spend in a single year, to mention but a few successes. On the other hand, the recent unfortunate and saddening death of one of our employees whilst on duty was a really low point for his family, friends, work colleagues and for Umgeni Water. I would like to extend my heart-felt condolences to all, particularly his family, regarding this horrific incident. It is a grim reminder to all of us about the importance of safety at all times – be it at work, at home, or during our travels.

For most of us the year has once again passed by in what seems like the blink of an eye. I believe that this sense of speed can be attributed to hard work (and not old age as some people like to suggest!) – the busier you are and the harder you work then the faster that time appears to fly by. After a busy year the year-end break is always most welcome and it is a very important time to relax and recharge your batteries. The body and mind cannot maintain high energy levels forever and also does not operate efficiently on low energy levels.

Therefore, I would like to take this opportunity to thank you all for your hard work, dedication and commitment to the organisation's success over the past year. This can only be achieved collectively, working together in synergy. Enjoy your well-earned rest, celebrate (responsibly) with your family and friends and start 2015 enthusiastically feeling revitalised and refreshed.

Thank you

**Steve Gillham**  
**GM: E&SS**





## ENGINEERING & SCIENTIFIC SERVICES

### *Hazelmere Water Works Upgrade*

The construction of a new 45 Ml/d potable water treatment module is nearing completion at Hazelmere Water Works. The plant was designed in-house by Engineering Services and Process Services with assistance by AECOM for electrical design.

Construction began in September 2012 and is scheduled for completion in December 2014. Construction is being carried out by Aveng-Grinaker-LTA. The overall budget for the project is R143m. Most of the funds are used for construction costs but about 15% of the funds are used for costs of design, quality control, health and safety monitoring and environmental rehabilitation.

in place by the construction contractor. It is expected that the plant will be partially operational during December 2014 and will be able to supplement the flows treated by the existing Hazelmere WW.

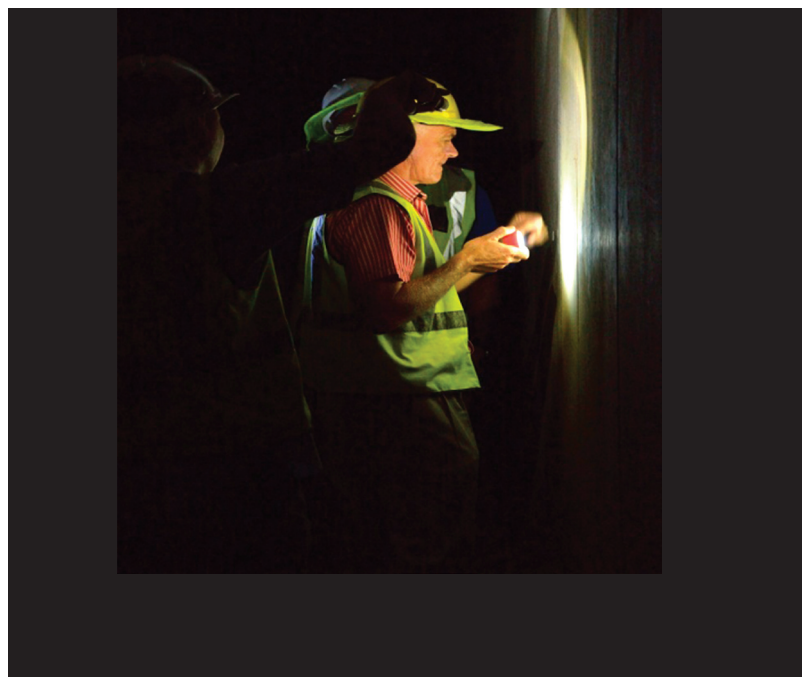
The new module comprises:

- A new Chemical House that will supply both the new and existing plants
- 4 new pulsator clarifiers with a capacity of 45 Ml/d.
- 6 new rapid gravity filters with a capacity of 45 Ml/d.
- A new disinfection contact chamber that will treat all the water produced by both the new and existing plants.
- A backwash recovery system that includes a Degritter for separating filter sand and settling tanks to separate clean backwash water from sludge



Members of the Design and Construction team look on during a filter level test.

Commissioning of the new module began in November 2014 while finishing touches are being put



Ernst Cloete (Engineer) inspects a construction joint in an underground channel while Paul Heeger (Engineer's Representative) looks on. Ernst and Paul were responsible for the overall design and construction of the new plant respectively.





## ENGINEERING & SCIENTIFIC SERVICES

### *Hazelmere Water Works Upgrade*



▲ Here filter sand is being loaded into the new filters. Each bag weighs about 500kg! Even though the sand is washed at the quarry, we still have to backwash the filters three or four times before they are clean enough to make water of potable quality.

The sand filters are of a type similar to the filters currently in use at Wiggins WW and Midmar WW. There are six new filters each having a capacity of 9 Ml/d. This allows the new module to treat its rated capacity of 45 Ml/d even when one filter is off-line for maintenance or repair.

Here is a view over one of the new pulsator clarifiers, completed and waiting to be filled with water. Those who have visited Hazelmere before will recognize the old Domestic Water Tower in the background.



▼ The pulsator clarifiers are of a type similar to those used at Wiggins, Durban Heights and Midmar. Each of the four clarifiers has a capacity of 15 Ml/d so even when one is offline for maintenance, the remaining three can still produce the rated 45 Ml/d capacity of the new module.

**By James Voortman,  
Project Manager**





## ENGINEERING & SCIENTIFIC SERVICES

### *Maphumulo BWSS Phase 2: Imvutshane Dam Project near completion*

**Overview of the dam embankment, intake towers and spillway and new houses for the families who lived in the dam basin.**



About 97% of construction work has been completed on Umgeni Water's R212 million Imvutshane Dam, situated 30km North West of Stanger in the ILembe District Municipality area. This dam is a key link in supplying rural people in Maphumulo, KwaZulu-Natal, with a reliable source of safe drinking water. Classified as a Category 2 dam, the 28m high, 305m long embankment is being built using two construction methods; the core is clay while the remainder is compacted earth with a rock shell. Sufficient clay and rock have been sourced on site so the amount of materials which have to be transported onto the site is minimal. Site hand over took place on 05 February 2013. The contractor, Stefanutti Stocks Civils KZN, has since commenced works and completion is scheduled for March 2015.

After some challenging times that had arisen from community unhappiness over alleged use of external labour, a cordial relationship has since been developed with the local community. The construction company and its workers are working in harmony alongside the community.



The families who lived in the dam basin prior to construction have been given newly built houses located at a nearby facility. All seven (7) houses have reached Practical Completion and the families have moved in. The community will be given a newly constructed sports field and community garden which are both scheduled to start in January 2015.

**Contributed by  
Aphumle Mnyaka**



## ENGINEERING & SCIENTIFIC SERVICES

### *A concept plan to supply bulk water in KwaZulu-Natal*

South Africa is exposed to many of the pressures of a developing country, notably the provision of access to basic services such as a sustainable source of drinking water. In 1990 it was estimated that around 15 million people were without a safe water supply. Recently there have been numerous, and often contradictory reports that attempt to quantify the extent of the country's backlogs for drinking water. These backlog numbers are often used as a basis to determine and justify the infrastructure programmes required to reduce the backlogs, as part of the country's water supply planning process. These reports usually emanate from water utilities (such as Umgeni Water) that develop bulk Infrastructure Master Plans (IMPs), Water Service Authorities (WSAs) that develop Integrated Development Plans (IDPs) and Water Services Development Plans (WSDPs). In addition to these water supply plans, there are currently several supporting programmes including the Department of Water and Sanitation's (DWS) Total Water Services Business Master Planning process, the All Towns / Reconciliation Studies, the Prioritisation of Water Services to 23 District Municipalities, the Interim/Intermediate Water Supply Programme (IIWSP), Municipal Infrastructure Grant (MIG), and the Co-operative Governance and Traditional Affairs (COGTA) Universal Access Plan (UAP). It is widely recognised that the water supply planning process, to date, has not entirely fulfilled the water planning requirements of the country as was originally envisaged. Realising that many of these initiatives have a common vision and agenda, Umgeni Water, as an agent of both COGTA and the DWS, recently undertook a water access planning programme for the province of KwaZulu-Natal (KZN). The main objective of this project was to co-ordinate the development of an "all-inclusive" conceptual water supply plan for KZN. The plan includes:

- The development of continuous water supply footprint areas showing demographics, current and required levels of water service, and importantly any gaps in water service delivery to the 1.8m households in KZN (**Figure 1**),
- The provision of conceptual plans of regional or stand-alone schemes to supply water,
- In areas where regional schemes aren't viable or where an interim water supply is needed

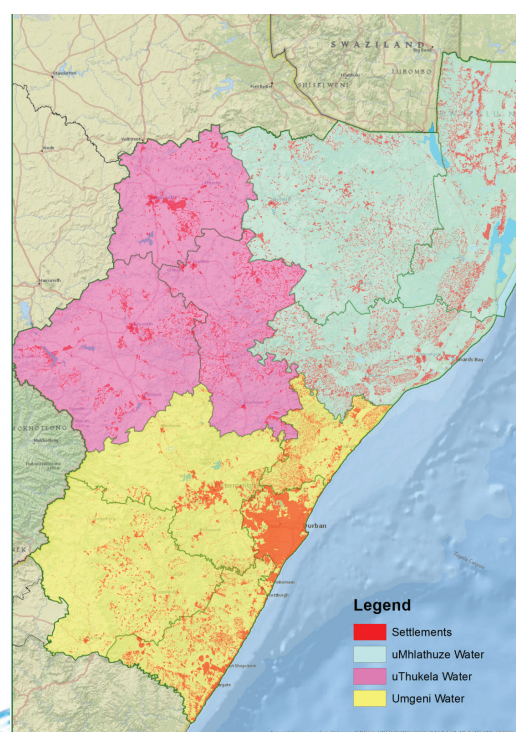
to meet intermediate deadlines, a local scheme is recommended (**Figure 2**), and

- An indication of costing and implementation timing to address water backlogs.

To provide a basis of all water planning studies to date, a status quo assessment was done of all existing studies and reports relating to water supply. This included all town studies (by DWS), all municipal WSDPs, IDPs, Infrastructure Grant Projects, various Geographic databases, and field verification with the Municipalities themselves.

Spatial datasets, including Eskom's building count data (2011), the DWS Level of Service data, Census 2011 (Stats SA) and orthophoto imagery, were used to delineate continuous Water Supply Footprint Areas showing current and required levels of water service. These footprints were verified where possible with the relevant Municipal officials during site visits. The footprint data has been used as a central repository for all relevant data, including future water demands.

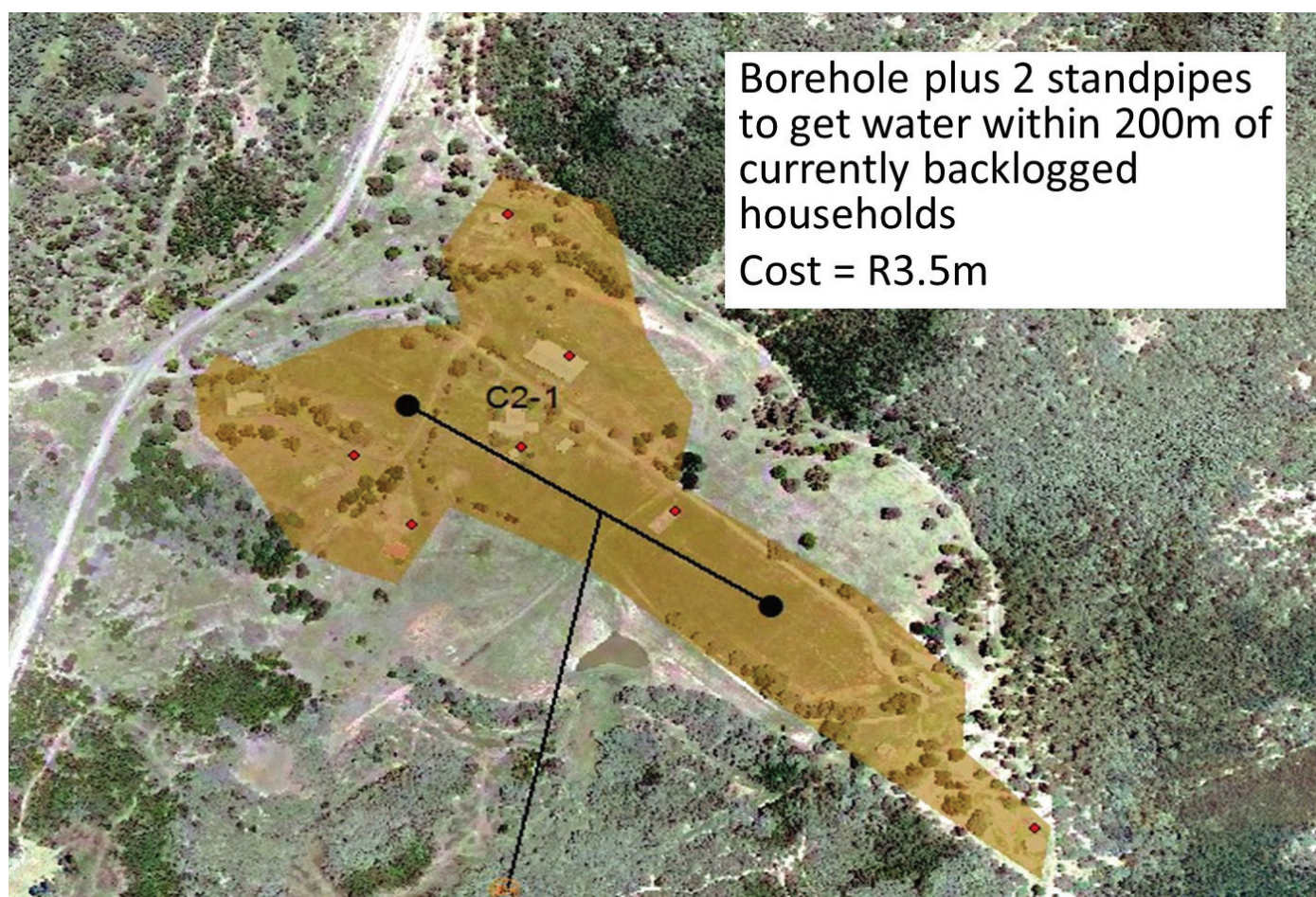
**Figure 1.** Study area for the Universal Access Plan study,





## ENGINEERING & SCIENTIFIC SERVICES

### *A concept plan to supply bulk water in KwaZulu-Natal*



showing concentration of households.

**Figure 2.** Example of one of the 1388 short term supply schemes proposed for this study.

Existing and planned water supply schemes were identified initially from the status quo assessment, and then verified where possible with the relevant Municipal officials. To address the short term water backlogs, local and regional supply schemes (at a conceptual level) have been proposed and costed to achieve Universal Access to water for all 10 Municipalities (Table 1). There are some 300 000 (of 1.8m) households without adequate access to potable water in KZN.

Various pre-existing Infrastructure Grant projects (included in Table 1) were generally not considered when proposing

conceptual alternate schemes to eradicate current backlogs. Consequently, there could be overlapping of the proposed conceptual schemes to the regional bulk schemes and thus overlapping of infrastructure costs.

In addition to reporting and maps, all spatial data have been loaded to a spatial database.

The project has not only enabled COGTA to achieve its interim strategic need to provide Universal Access Plans for water, but has also provided a sound basis for Umgeni Water's regional water planning. This is especially significant since the utility has been requested to begin operations in other parts of KZN and in the Eastern Cape.



## ENGINEERING & SCIENTIFIC SERVICES

### *A concept plan to supply bulk water in KwaZulu-Natal*

Although it would appear that universal access to water is possible, this is fraught with difficulties. Notably, the study is based on small, short term and often unreliable schemes. Consequently, Umgeni Water has commissioned a second phase of this study to identify areas where sustainable regional schemes could be used. Many don't have the means to pay for water, hence making the viability of water supply challenging, especially for longer term operation and maintenance of the schemes. Nonetheless, Umgeni Water is continuing with its quest to provide clean safe water to all people in its area.

**Phase 2** of this work is documented in Umgeni Water's scorecard as "Progressively develop the regional concept

plan for KwaZulu-Natal and Eastern Cape (Alfred Nzo and Ngquza Hill)", with a completion date of June 2015. The purpose of this phase is to build on the results of Phase 1 by extending the planned schemes to sustainable regional bulk schemes.

**Table 1.** Summary of UAP water backlogs and proposed schemes (for implementation by 2020) in KwaZulu-Natal.

**Contributed by**  
**Mark Summerton**

District Municipality	Backlog (households)	Backlog (%)	# of proposed schemes	Cost (R)	MWIG 2014
Harry Gwala	28281	27	103	R 1 160 000 000	R 3 725 626 814
Umzinyathi	15097	18	84	R 347 000 000	R 1 778 176 784
uThungulu	15281	17	29	R 813 000 000	R 5 947 359 627
Umgungundlovu	8512	4	30	R 224 000 000	R 4 073 582 259
Ilembe	12047	11	49	R 307 000 000	R 4 251 330 305
Amajuba	23914	29	79	R 927 022 088	R 1 057 401 792
Zululand	44473	28	589	R 4 797 717 979	R 3 134 658 799
Ugu	16540	14	59	R 1 415 983 390	R 5 889 576 950
Umkhanyakude	36439	35	134	5763423725	R 4 076 737 351
Uthukela	96113	48	232	R 4 968 798 729	R 2 704 212 440
<b>Totals</b>	<b>296697</b>		<b>1388</b>	<b>R 20 723 945 911</b>	<b>R 36 638 663 121</b>





## ENGINEERING & SCIENTIFIC SERVICES

### *Midmar raw water pipeline is being duplicated*

**T**he '251/51 pipeline, which supplies water from Midmar Dam to the water treatment works, is being duplicated to reduce the risk of potential supply interruptions. The new steel pipeline, which is 1.6m in diameter and 2.1km long, is lined with solvent free epoxy and coated with polyurethane and will have a capacity of 400 MI per day.

The pipe supply contract was awarded in April 2013 and delivery was completed in November 2014. Tenders for

the construction of the pipeline are in adjudication and construction is expected to start in March 2015.

Upon completion this project will increase the reliability of supply to some of Umgeni Water's customers, viz. Ethekwini Municipality, Umgungundlovu District Municipality and Msunduzi Local Municipality.

**Contributed by  
Garnet Shabalala**







## ENGINEERING & SCIENTIFIC SERVICES

### *Lower Thukela Bulk Water Supply Scheme*

On 17 October 2014 Project Office combined their monthly meeting with a site visit to the Lower Thukela Bulk Water Supply Scheme. This is currently Umgeni Water's largest Capex project with a budget of R1.35 billion. Phase 1 of the project consists of six major contracts as follows:

1. Abstraction Weir, Pumping Station and Access Roads – 110 MI/d capacity - Construction commenced in November 2013. Currently 40% complete.
2. Water Treatment Works - 55MI/d Capacity to be upgraded to 110MI/d during Phase 2 - Construction commenced in October 2013. Currently 30% complete.
3. Mechanical and Electrical Works - Design & Procurement Phase. Currently 40% complete.
4. Rising Main and Command Reservoir - Construction commenced in October 2014. Currently 5% complete.
5. Gravity Main Pipeline - Construction commenced in February 2013. Currently 75% complete
6. Bulk Electricity Supply - The contract commenced in October 2014. Currently in Design & Procurement phase.



**Construction of Weir, Abstraction works & Access Roads**



**Construction of Water Treatment Works**



The team attending the site visit is seen here on the southern bank of the Thukela River. The water treatment works, situated on the northern bank, is shown in the background.

Phase 1 of the project will supply up to 55MI/d of potable water to over 165 000 people in the Ilembe DM in areas from Mandini to Ballito, and is expected to be completed in the latter half of 2016. Phase 2 will supply a further 55MI/d to areas north of the Thukela River. The project is co-funded by the Department of Water and Sanitation.

**Contributed by  
Suhayl Rawhani**



## ENGINEERING & SCIENTIFIC SERVICES

### *Emergency water system for drought-stricken Maphumulo*



*New Abstraction pumping water from the Hlimbitwa River*



*Outlet pipe discharges water from Hlimbitwa into existing abstraction works*

**D**rought conditions in the iLembe District, on KwaZulu-Natal's North Coast, have left the population without a reliable water supply resulting in water restrictions. At present water is being delivered and stored in tanks. This problem facing the Maphumulo area was identified by the Technical Services at iLembe DM and Umgeni Water's Planning Services and hence a request was sent out for the installation of an emergency scheme which was handed over to UW's Project Office for implementation at the beginning of October 2014.

Umgeni Water appointed MBB Consulting Engineers Pietermaritzburg to find a quick, effective solution to the problem.

As a result of the low rainfall, the flow in the Imvutshane River is inadequate to provide the water treatment plant with sufficient water. However, this shortage is being mitigated by pumping water from the nearby Hlimbitwa River. Two pumps supply 250m<sup>3</sup> (cubic meters) of water per hour, via an 850m long pipeline, to the raw water pump station.

The pumps are situated up the river bank alongside a pool of water at the confluence of the two rivers. This pool's volume has been increased by a temporary sandbag weir that blocks the main channel of the Hlimbitwa. Should sandbags be washed away after heavy rains they can easily be replaced.

Saving time has been a vital component of the project, so materials were selected based on availability and

appointments were fast tracked through emergency procedures.

Umgeni Water's project manager, Aphumle Mnyaka, said: "The design and implementation of the scheme which consists of river works, a pump station and 850m of pipeline in just over two weeks is a credit to the project team and confirms that Umgeni Water can react quickly to emergencies."



*Representatives from Operations Division that attended the final inspection, snagging and handing over meeting on 13 November 2014 are seen here with the project manager and the site engineer.*

**Contributed by  
Suhayl Rawhani**





## ENGINEERING & SCIENTIFIC SERVICES

### *Exco visit to Imvutshane Dam*

**T**he CE and GMs Operation and E&SS visited Maphumulo Bulk Water Supply Scheme Phase 2 - Imvutshane Dam construction site on Monday, 8th December 2014. They are seen with senior Operations staff, the contractor and the Engineer's Representative.

**Contributed by  
Suhayl Rawhani**







## ENGINEERING & SCIENTIFIC SERVICES

### *Howick Reservoir Upgrade 6.5 ml*



*New Howick Reservoir No.4. 6.5MI.  
Commissioned October 2014*

**T**he town of Howick falls within the jurisdiction of the uMgungundlovu District Municipality (UMDM). Umgeni Water (UW) supplies Howick with bulk potable water. Howick is currently undergoing a period of sustained growth in housing development, which has led to an increased demand for water. Based on demand projections, Planning Services have identified the need to augment the existing storage capacity at the Howick Reservoir Complex with an additional 6.5.Ml reservoir.

The goal of the project was to design, construct and commission a 6.5Ml circular reinforced concrete reservoir to augment the storage supply within the Howick Reservoir Complex. This goal has been achieved with practical completion on 18 July 2014, whereby water supply from new reservoir No.4 was connected into the existing reticulation system. Some of the challenges faced were that construction be undertaken in a careful manner to avoid unnecessary inconvenience to residents in the vicinity of the reservoir complex. Close collaboration was maintained with the uMngeni Municipal Environmental Officer during all stages of construction and concerns from the community addressed promptly. A notable spin –off

from this project, as a social development initiative, was the rehabilitation of the soccer field at Thembaletu Primary School using fill material from the reservoir excavation. This work was undertaken by the Contractor free of charge.

Additions to the scope of work included re-fencing, landscaping, grassing of the reservoir complex site and rehabilitation of the public roads affected by construction activity to provide a final neat finish that blends aesthetically with the surrounds. The Task Team and ICON Construction were complimented for their effort at the site hand over to Operations on 30th October 2014.

Main role players on this project:

**Engineering & Scientific Services Division -**  
Design Section

**Operations Department -** Civil & Mechanical  
**Contractor -** Icon Construction





## OPERATIONS



### *Christmas Message from GM: Operations*

**T**he past month has been great, coming back home has been great. This last month reminded me how much I have missed being amongst the people of Umgeni Water.

Thank you for the warm welcome and support I have since received from all staff, especially the Operations staff. I would also like to thank Monica Malunga for doing a great job whilst acting GM Operations and for ensuring a smooth handover. Everything has been smooth sailing from where she left off, and that tells you one thing that Umgeni Water has a lot of hidden talent that needs to be nurtured and recognised.

I am proud to be part of a well governed / managed world-class government-owned business enterprise that has managed to maintain a reputation as an efficient and effective vehicle for the delivery of essential bulk water services. This reflects positively on the quality of its staff and its leadership.

I am certain that my stay with all of you will be fulfilling and I do not doubt that you will give me your undying support.

I would like to wish everyone a merry Christmas and a happy 2015, be safe on the road during this period and come back refreshed.

Thank you

**Msizi Cele**  
**GM: Operations**





## OPERATIONS

### *Medium voltage switchgear upgrade*

**T**he Medium Voltage (MV) Switchgear at Durban Heights Shaft Sub Station, Inanda Dam Pump Station and Wiggins High Lift Pump Station was upgraded as part of the 5 year Capex plan.

The existing switchgear was old and spares were no longer available. The switchgear at Durban Heights and Wiggins was at least 30 years old. Inanda Dam Pump Station Switchgear was approximately 20 years old. In order to ensure continued reliability and service the switchgear was replaced with modern switchgear incorporating the latest protection and safety devices. The new switchgear is equipped with explosion vents, remote switching via pendant control and illuminated bus bar chamber viewing windows. These windows will enable thermal imaging of the bus bars and cable connections without having to switch off the panel.

The contract was awarded to Schneider Electric who used AMJ Electrical as the sub-contractor for the installation. The project was done in phases, beginning with an audit of the existing switchgear and ending with the final commissioning. Inanda Dam Pump Station and Wiggins High Lift Pump Station were fitted with new switchgear

panels. The old panels were disposed of as per the Umgeni Water disposal procedure. Durban Heights Shaft Sub Station was retrofitted with new switchgear into the existing panels.

AMJ Electrical carried out the installations in a very professional manner. The result is switchgear installations that should be good for at least another 20 years. The panels have all the necessary interfaces to PLC and in addition EGX100 Ethernet Gateway modules were fitted so that all information available in the Sepam Protection Relays can be viewed on SCADA via PLC. The link between PLC and the EGX100 Ethernet Gateway modules will be done at a later stage as it was not part of this project. This will enable logging of all faults and trip conditions picked up by the Sepam Protection Relays.

The project was managed by Mohamed Kikia who was responsible for the technical specification and management of the project, including commissioning. The foremen and electricians assisted with shutdown and isolation as and when required. The total cost for all three installations was R12431405.00.



Durban Heights Shaft Substation Switchgear retrofit



Wiggins high lift pump station



Inanda Dam pump station switchgear installation





## OPERATIONS

### *Upgrade of Toti Water Works online analyzer*

The Amanzimtoti WTW, situated in the Southern region of Ukwandla, was earmarked for an upgrade of its Online Analyzer Station (OLAS) that monitors and reports critical water quality parameters to the SCADA system. At the same time, operations management also requested that the existing desludge valves be upgraded due to age and non-availability of OEM spares.

The OLAS system and desludge valves were in operation for at least 20 years and the equipment was identified as being outdated and costly to maintain. This was due to the OEM supplier not supporting the product any longer, hence there were no spares available in the event of failure. A decision was taken by Asset Management to upgrade both systems and CAPEX funds were allocated for this purpose.

The project was rolled out in pre-arranged phases with the Operations team at Amanzimtoti WTW in order to ensure that Operations were still able to maintain operation of the plant to meet SLA agreements with the relevant customers in the southern area. The project manager for the upgrades was Adesh Maharaj from the Pineside Regional office.

The project options were researched by the project manager and a specification document was formulated for each project in conjunction with the Operations team and the maintenance team. Normal tender processes were followed and a suitable contractor was appointed.

### *Online Analyzer Station Project*

The old analyzer station was in a derelict state as can be seen from the pictures. The entire station was removed and operations assisted by repairing and painting the wall. By adhering to the original specification document issued with the tender, the contractor was able to manufacture and install a completely new analyzer station. This new station comprises the latest and most recent analyzers used in the water quality monitoring in line with UW standards. The two pictures (right) indicate the “before” and “after” of the project. The new OLAS was connected to the SCADA system for monitoring and recording of water quality parameters.

**Contributed by  
Adesh Maharaj**



**BEFORE**



**AFTER**



## CORPORATE SERVICES



**Moketenyane Mayongo**  
**GM: Corporate Services**

### *Christmas Message from GM: Corporate Services*

I started at Umgeni Water in January 2014 and I'm so grateful to God that He brought me to such a wonderful organisation with such enthusiastic, talented, creative and hardworking people.

I would like to take this opportunity to thank each and every one of you for welcoming me into the Umgeni Water family and for your support and dedication to your work. I'm really grateful for your tremendous efforts in ensuring that we achieve Umgeni Water's objectives.

During this Christmas make time for your family and show them love and kindness. Your words should be inspiring, encouraging and loving. Our families are just as important as our work, so treat them with love and respect and enjoy time with them.

Let's also think about those people who have lost their loved ones and keep them in our prayers, pray that God gives them strength and cover them with His Mighty Hand. Let us give cheerfully and make a difference in someone's life this Christmas.

Wishing you and your family God's wonderful gift of faith, hope, peace and love.

Please travel safe and be responsible during the festive season. May 2015 bring you success and wealth of knowledge. May you succeed in everything you choose to do and may the light of God shine on the road ahead of you (Job 22v28)

Thank you

**Moketenyane Mayongo**  
**GM: Corporate Services**





## CORPORATE SERVICES

### *Graduation*

**U**mgeni Water identified potential Managers and Supervisors to attend the University of KwaZulu-Natal's development programme. The UKZN extended learning division had specifically developed a programme which is in line with Umgeni Water's specifications and requirements.

On 3rd December 2014, 34 Umgeni Water employees graduated from the Management Development Programme (MDP) and another 19 from the Emerging Management Programme (EMP).

The employees graduated after six months of intense learning. The MDP graduates who received distinctions were Marcel Bishop, Khetha Nkomo, Dennis Nduli, Sherin Budhoo, Reshina Maharaj, Lakesh Maharaj, Sameera Majam, Roop Maharaj, Radesh Padayachee and Mark Scott. The EMP graduates who achieved distinctions were Nobuhle Buthelezi, Thembi Cloete, Prisantha Maduray and Innocent Ngwazi.

Speaking at the graduation ceremony, the Chief Executive Cyril Gamede first congratulated all graduates and continued to say: "The organisation believed having competent staff and managers is critical to its functioning, and the two programmes were aimed at equipping the managers with skills required for dealing with the changing working world."

The General Manager Corporate Services Moketenyanne Mayongo concluded by saying: "For an organisation to achieve its strategic objectives, managers and supervisors have to have the requisite managerial skills."

***Contributed By***  
***Gugu Ndlazi***



## CORPORATE SERVICES

### *Umgeni Water observes World AIDS Day*

**U**mgeni Water commemorated World AIDS Day on 1st and 2nd December 2014 in partnership with Bonitas Medical Aid. The highlights of the day consisted of solidarity speech, entertainment, and peer educators' roles in the workplace, poetry and candle lighting. The Occupational Health Team embarked on HIV Counselling and Testing (HCT) campaign at all Umgeni Water sites and five hundred and sixty five (565) employees tested which represent 56.5% of the total labour complement. The theme for 2014 was **"I can't change my HIV status but you can change your attitude; zero stigma and zero discrimination"**.

World AIDS Day has become one of the most recognized international health days and a key opportunity to raise awareness, fight stigma, improve education and remember those who have passed on, express global solidarity (unity) with people living with HIV and celebrate victories, such as increased access to anti-retroviral treatment and prevention services.

**Contributed by**  
**Xoliswa Makhaye and Reuben Dlamini (Pictures)**







# CORPORATE SOCIAL RESPONSIBILITY

## *Word from the Chairperson of CSI*

Umgeni Water continues to be committed to be a strategic partner that supports the National Developmental Agenda and more specifically the delivery of basic services to the people of South Africa. Towards this end Umgeni Water has realised that it has a role to play in improving the quality of life as well as enhancing sustainable economic development within its area of operation. It is within this framework that the UW Corporate Social Investment Programme is implemented.

The primary objectives of the UW CSI programme include:

- To promote community participation in projects
- To communicate appropriate information about projects

to all relevant stakeholders

- To build Umgeni Water's CSI profile and demonstrate Umgeni Water's commitment and contribution to Government's developmental objectives
- To enhance the brand and reputation of the organisation in the public domain

During this year, the Umgeni Water CSI Task team received and evaluated several projects falling under the following categories:

### Education & Training

- School classroom upgrades
- School information technology
- Adopt a School Programme

### Environmental Conservation

- Darvill Artificial Wetland Feasibility Study

### Job Creation

- Maphephethwa: Amandlethu Co-operative



# CORPORATE SOCIAL RESPONSIBILITY

## *Word from the Chairperson of CSI*

### Education and Training

The Woodlands Primary School wrote to Umgeni Water requesting assistance with the refurbishment of drinking water infrastructure and toilets at the school. During the evaluation process which included site visits to the schools the task-team highlighted the safety concerns associated with the state of the infrastructure at the school. UW Exco approved funding to the amount of R180 000 for the required refurbishments. The project has been completed.



Before



After







# CORPORATE SOCIAL RESPONSIBILITY

## *Word from the Chairperson of CSI*

### Projects underway

Umgeni Water launched an “Adopt A School Project” Programme in 2009 with the primary aim of implementing a meaningful and sustainable programme that addresses the schools’ specific needs over a 3-year period. The key thrusts of the adopt a school programme are centred on forming strategic partnerships with government departments in order to address the specific needs of the adopted schools. The Corporate Social Investment programme was approached to provide funding for the adopted schools within the six municipal customers’ boundaries

Programme funding was made to the following schools:

- 1. Isithundu Combined School:** UW made R56 000 available to the school for the upgrading of their library
- 2. Nonkwenkwana High School:** UW made R15 000 available to the school for fencing the school garden as well as the procuring of a tank for rain water harvesting
- 3. Mavangana High School:** UW made R15 000 available to the school for fencing the school garden as well as the procuring of a tank for rain water harvesting
- 4. Macobo Primary School:** UW made R10 000 available to the school for fencing the school garden as well as the procuring of a tank for rain water harvesting
- 5. Hlahlindlela High School:** UW made R50 000 available to the school for installing electricity cables in 11 classrooms as well as reading materials, computers and a printer for the Library
- 6. Mbuyazi Primary school:** UW made R50 000 available to the school for fencing of school garden, reading material for the library repairing of gutters and rain water tanks

Three other schools that received CSI funding were:

- 1. Fezokuhle Primary School:** UW has approved donating computers as well as upgrading of the computer room to the value of R138 000.00
- 2. Howick West Secondary School:** R36 000.00 was approved for electrical repairs at the school. A further conditional funding was made, where UW will match fundraising efforts of the school up to R40 000.00 to be used for the refurbishment of gutters and downpipes
- 3. Baxoleleni Primary School:** R300 000.00 was approved for the refurbishment of 11 classroom floors

### Job creation

UW’s involvement with communities has been extended to include establishing co-operatives formed by mainly unemployed community members who wish to participate meaningfully in the economic growth of the country. Funding of R791 980.00 was made available for the establishment of Amandlethu Co-operative whose business revenue generating stream is through the making and selling of blocks. The initial challenges have been mostly resolved and the procurement of all equipment is nearly complete. However for the project to be sustainable UW has engaged SEDA to assist the co-op with a business plan and additional funding requests.

### Environmental conservation

UW recently finalised the feasibility study into creating an artificial wetland at Darvill Wastewater Treatment plant. The project is aimed at compensating the environment for some of the negative environment impact arising due to operational activities. The wetland will also serve as a nature based purification system for when the inflows to Darvill are in excess of what the plant can actually treat, as is usually the case during the wet season. The implementation part of the project has been integrated within the Darvill Plant Upgrade.

**Contributed By**  
**Sindi Luthuli**



# CLASSIFIEDS

## *New Appointments*

To all staff that joined Umgeni Water congratulations and welcome

Surname	Name	Date	Position	Site
Khumalo	Nduduzo	01 Nov 2014	Contract Technician	Head Office
Pillay	Kathereen	01 July 2014	Lab Technician	Head Office
Mngadi	Sihle	01 Oct 2014	Technician Supervisor –Soil Analysis	Head Office
Bhagwandin	Royith	01 Aug 2014	Inspector of Works	Mkondeni
Brijmohan	Milanroy	01 Aug 2014	Inspector of Works	Mkondeni
Hannan	Willaima	01 Aug 2014	Inspector of Works	Pineside
Heslop	Harold	01 Aug 2014	Inspector of Works	Mkondeni
John	Anand	01 Aug 2014	Inspector of Works	Mkondeni
Mabuza	Thomas	01 Aug 2014	Inspector of Works	Mkondeni
Mthethwa	Walter	01 Aug 2014	Inspector of Works	Mkondeni
Rajaswar	Nirmal	01 Aug 2014	Inspector of Works	Mkondeni
Rohan	Ashan	01 Aug 2014	Inspector of Works	Mkondeni
Seechoonpar	Rushochund	01 Aug 2014	Inspector of Works	E&SS
Sukhram	Lalesh	01 Aug 2014	Inspector of Works	Mkondeni
Thakurdin	Suresh	01 Aug 2014	Inspector of Works	E&SS
Nkwanyana	Sweetness	01 July 2014	Process Technician	Wiggins
Chili	Velile	01 Dec 2014	Senior process Technician	Head Office
Van Der Merwe	Colin	01 Oct 2014	Senior Process technician	Darvill
Fynn	Michelle	01 Oct 2014	Administrator	Pineside
Liddell	Tersia	01 Oct 2014	Tech & Admin Support	Pineside
Shongwe	Siyabonga	01 Oct 2014	Artisan – Electrical	Coastal Workshops
Macabela	Nelisiwe	01 Oct 2014	Artisan Trainee – Instrument	Pineside
Nhlambo	Thulane	01 Oct 2014	Artisan Trainee – Instrument	Pineside
Somaza	Nomantambo	01 Oct 2014	Artisan Trainee – Mechanical	Pineside
Khumalo	Thokozani	21 July 2014	Artisan Trainee - Electrical	Durban Heights
Gumede	Hlengiwe	29 Sep 2014	Intern – MUT	Amanzimtoti WW
Bonginkosi	Ngcobo	21 July 2014	Intern – MUT	Wiggins WW
Ngwabe	Mhlonipheni	01 Aug 2014	Intern – MUT	Durban Heights
Sikhakhane	Nonhlanhla	01 Aug 2014	Compliance Officer	Head Office
Maphumulo	Misokuhle	01 Aug 2014	Contract Receptionist	Head Office
Mshengu	Thembeke	01 Nov 2014	Contract Receptionist	Head Office
Khumalo	Zandile	01 Nov 2014	Contract Fixed Asset Administrator	Finance
Ngwenya	Godfrey	08 Dec 2014	Contract Risk & Insurance Co-ordinator	Finance
Mntungwa	Nkululeko	01 Oct 2014	Fixed Assets Administrator	Finance



# CLASSIFIEDS

## *New Appointments*

To all staff that joined Umgeni Water congratulations and welcome

Surname	Name	Date	Position	Site
Mabaso	Lovedale	13 Oct 2014	Administration Officer	Supply Chain
Biyela	Ntombifuthi	01 Oct 2014	Stores Assistant	Pineside
Mbiko	Sikhumbuzo	01 Oct 2014	Shift Attendant	Ixopo WW
Zulu	Zwelithini	01 Dec 2014	Shift Attendant	DV Harris
Majola	Sibongiseni	01 Nov 2014	General Worker	DV Harris
Zondo	Queen	26 Nov 2014	Contract Executive Secretary	Head Office
Mbongwa	Nqobile	01 Nov 2014	Contract Secretary	Mkondeni
Sibisi	Moses	01 Nov 2014	Operator/Driver	Mkondeni

## *Terminations*

To all staff that left the organisation all the best in their future endeavours

Surname	Name	Date	Position	Site
Mqhobozeli	Elph	30 Sept 2014	Early Retirement	Ixopo WWW
Zuma	Bheka	18 July 2014	End of Contracts Finance	Finance
Dube	Phumzile	07 July 2014	End Of Contract	Finance
Hina	Mwabisa	30 Nov 2014	End of Contract	Planning Services
Lusigne	Eddie	31 July 2014	End of Contract	Enviro Services
Maphumulo	Nozipho	31 July 2014	End of Contract	E&SS
Moore	Douglas	31 Dec 2014	End of Contract	Pineside
Shelembe	Richard	08 Sept 2014	Resignation	Howick
Chamane	Yenziwe	08 July 2014	Resignation	Mkondeni
Adele	De Gee	30 Sept 2014	Resignation	Pineside
Hadebe	Truman	30 Sept 2014	Resignation	Head Office
Mahlungulu	Busisiwe	31 July 2014	Resignation	Head Office
Harris	Water	31 July 2014	Resignation	OPS
Mavundla	Mbuso	01 Nov 2014	Resignation	Finance



# CLASSIFIEDS

## *Terminations*

Surname	Name	Date	Position	Site
Mkhize	Nontobeko	30 Nov 2014	Resignation	Lab Services
Mlambo	Zandile	11 Aug 2014	Resignation	Head Office
Mntambo	Philile	11 Aug 2014	Resignation	Head Office
Mthembu	Lungile	31 Oct 2014	Resignation	Head Office
Ndlovu	Peterson	30 Nov 2014	Resignation	Head Office
Pillay	Indhran	31 Dec 2014	Resignation	Head Office
Summerton	Mark	31 Dec 2014	Resignation	Head Office
Zondo	Xolile	24 Dec 2014	Resignation	Head Office
Zwane	Portia	2014	Resignation	Head Office
Armitage	Alan	31 Dec 2014	Retirement	Head Office
Mchunu	Fihlela	31 Oct 2014	Retirement	Durban Heights
Bhengu	Sibhamu	31 Aug 2014	Retirement	Mkondeni
Borain	Gordon	31 July 2014	Retirement	Darvill
Ngidi	Jabulile	31 Dec 2014	Retirement	Head Office
Zuma	Patrick	12 Sept 2014	Disability	Wiggins
Hayes	Adele	19 July 2014	Services Terminated	Pineside
Mthembu	Bonga	25 July 2014	Services Terminated	Izintaba
Ramsagar	Jayesh	25 July 2014	Services Terminated	Izintaba
Dannie	Van Heerden	02 Sept 2014	Services Terminated	Coastal
Archer	Lynn	30 Sept 2014	Early Retirement	Head Office
Hadebe	Zebron	31 July 2014	Early Retirement	Coastal
Maphumulo	Janet	31 Dec 2014	Early Retirement	Coastal

## *Condolences to the families of staff who passed away*

Majoka	Sphiwe	01 July 2014	DEATH	Izintaba
Mjwara	Mfanafikile	01 Aug 2014	DEATH	Izintaba
Mnyadu	James	30 Oct 2014	DEATH	COASTAL
Tshabalala	Abram	20 July 2014	DEATH	Izintaba



## This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.





*From the Board,  
Executive and Management,  
Merry Christmas, Happy Festive  
Season and a Prosperous New Year*



*A journey from water  
for a few to water for all*





*Plowmeter*

December 2014

**UMGENI**  
  
**WATER • AMANZI**

  
ANNIVERSARY 1974 - 2014

*A journey from water  
for a few to water for all*