

VALLEY H₂O

CENTRAL RIFT VALLEY WATER WORKS DEVELOPMENT AGENCY
E-NEWSLETTER

Issue 002.



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Editor's Note



Carlos Cheluget

It is with great pleasure that I commend the production of Valley Water Newsletter, as it is important in sensitizing existing and ongoing projects in the Agency.

The Newsletter will go a long way to ensure the Agency meets its objectives.

The Agency is proud to present its second circulation of the Valley Water Newsletter.

As we roll out our new regular features and expand our areas of coverage in the months ahead, the newsletter is where you will find the best of our daily offerings.

welcome.

Chairman's Statement

I would like to recognize the Board of Directors and staff for their integrity and hard work in making Agency an epitome of greatness.

Central Rift Valley Water Works Development Agency is honored to launch its 2nd edition of the Valley Newsletter.

Valley Newsletter is a good pointer and a step in the right direction from the management.

It is an effort coming up at the right time when we need new strategies to reach out to our clients, customers and stakeholders.

May this Issue interest you.

Thank you.



*Amb. Boniface Muhia.
Chairman.*

CEO's Statement



At CRVWWDA we work towards improving our reputation which can only be attained by getting into Wanjiku's heart through service delivery.

Project success means meeting and at times exceeding client's expectations. In this issue, we purpose to give details of multiple projects being undertaken by the Agency by use of read and visual tools.

Valley Water will provide information on the current project status, some of the challenges we face and our success stories.

Subsequently, we appreciate the life changing water and sanitation projects within our area of jurisdiction and beyond.

We endeavour to achieve our mission by planning, developing and delivering efficient and dependable water and sanitation infrastructure. The Agency commit to deliver excellence and aspire to be a world class Water and Sanitation Agency.

I hope you find this newsletter very informative.

*Eng. Samuel Oruma.
Chief Executive Officer.*

Narok Commercial Hub Game Changer.



CRVWDA directors inspect the newly completed Narok Sewerage System.

“It is gratifying to see how the new sewerage project is transforming the lives people of Narok and Kenya at large. This is what development is all about” said Nnenna Nwabufu, African Development Bank (AfDB) Director General for East Africa, as he inspected the sewerage treatment plant while accompanied by Agency’s CEO, Eng. Samuel Oruma.

Funded by AfDB and Government of Kenyan (GoK) and implemented by the Agency, the Project aims to improve access to water, and sanitation services in the town while improving the living standards of the local residents. Prior to the project implementation, residents in the area depended on the pit latrines, local exhausters and few existing septic tanks that were not efficient and would frequently fill up and become an environmental hazard. The spillover wastewater often found its way into the nearby rivers leading to an outbreak of waterborne diseases.

At Oltalet Mall, one of the shopping malls in Narok town, John Nyang’au, a 42-year-old Assistant Manager narrates with pain how they have had to construct Ksh.20 million septic tanks to solve the waste management problem.

Nyang’au described vividly how the

business community in Narok town battled the odor for fresh air, especially during the rainy season.

He narrated to the AfDB delegation that toured the project on how the mall management was paying up to Ksh. 270, 000 per month for exhaust services, a fee that most SMEs shied from leading to a polluted environment unfavorable to businesses.

Like many other investors in the town, his hopes brightened with the completion of the project.

So far, the Agency has connected 500 households and institutions to the 3million litres Central Sewer Line with a pipeline of over 35kms.

The Agency has initiated the 2nd phase of sewer connection project that will cover extra 60kms serving more than 100,000 residents of narok town.

The project has so far transformed



the lives of the residents by improving sanitation which has witnessed a tremendous decrease in the number of sanitation-related diseases.

Moreover, hospitals, learning institutions and hotels are set to benefit from the sewerage plant. Overall, the project will reduce the cost of waste water disposal by approximately 90% hence appealing more investors to narok town due to business environment.

As for Nyang’au, he plans to renovate the septic tanks before converting them into water storage tanks. Similar sewerage plants are being implemented by the Agency in Malaba, Olkalou, Kapenguria and Chepareria towns.

Pink Lake Clean City



The bliss that was lake Nakuru.

Nakuru County's story of triumph is one of the latest admiration following the award of city status by HE. President Uhuru Kenyatta on Wednesday, 1st December 2021 after years of pursuit. The Urban Areas and Cities (Amendment) Bill 2017, states that the approval process for a city status elevation happens under certain special conditions that include an estimated population capacity of at least 250,000 people, water and sanitation services, street lighting, convenient drainage systems, among others.

In support of this, the Agency has initiated the ambitious Lake Nakuru Town Biodiversity Conservation Project famously known as "Pink Lake Clean City" that will support the improvement of sanitation services in the new City. The project is jointly funded by the German Government (KfW) and the Government of Kenya.

The city has long battled with the pressure exerted by the robust population on the available over-strained sanitation services. This situation is further accelerated by poor drainage systems, improper management of solid waste, and inadequate water supply. This poses a health hazard to the population leading to outbreaks of water-borne diseases such as diarrhea and cholera. In addition to these unsanitary results, it leads to the degradation of the environment.

"The Agency working jointly with the Nakuru Water and Sanitation Services Company will see the project through to completion by deploying the latest technology and in a sustainable approach," said CEO Eng. Samuel Oruma. He was speaking during the Project Inception Report Presentation Workshop at a Nakuru hotel. The Chief

Officer for water Nakuru County Dr. Kiogora Mureithi applauded the agency for the progress and reiterated the County Government for their commitment to ensure the project commencement.

This project's scope of works includes expanding the current sewer system and improving the same to minimize sewer pipe bursts, individual household sewer connections, and rehabilitation, expansion, and upgrading of the sewerage treatment plant in Njoro. The Agency is devoted to aligning it to Sustainable Development Goal 6 which states 'ensure access to water and sanitation for all by 2030' which aligns with Kenya's Vision 2030 blueprint.

A total of 14,400 households are set to benefit from the multimillion shillings project.

Currently, the project is in the detailed design phase. Once complete, the city will be sanitarily transformed.

"The Agency working jointly with the Nakuru Water and Sanitation Services Company will see through the project to completion, deploying the latest technology and in a sustainable approach"
Eng. Samuel Oruma, CEO



CEO Eng. Samuel Oruma giving his insight during the Project Inception Report Presentation Workshop.

A Foretaste of Laikipia County



Pic. courtesy of gettyimages.dk

A section view of semi-urban Laikipia

Located to the North-East of the Great Rift Valley, and North-West of snowcapped Mount Kenya lies the County of Laikipia.

Laikipia is a multi-ethnic County with greater occupancy of pastoralist communities that face great excision from game reserves and national parks, that harbors a wealth of endangered species and many wildlife that migrate between Mt. Kenya and the Laikipia conservancies.

The beautiful county that hosts one of Kenya's Air Force base and a British Army Training ground, was initially under the Northern Water Works Development Agency before it was curved up to the Central Rift Valley Water Works Development Agency.

The extraction was informed by a ministerial decision to ease managenmet of the region.

During droughts, pastoralists' livelihoods become particularly precarious, giving high risk of human and wildlife conflict over scarce water and pasture.

for so many years, Government through NWWDA implemented water projects in Laikipia County. 100,000 residents are set benefit from the water projects that will serve as a long-term solution in the county.

Recently, a meeting was held between representatives from Laikipia County led by the CECM Water, Environment and Natural Resources, Njenga Kahiho and Officers from Central Rift Valley Water Works Development Agency led by GM Infrastructure Development and Management Charles Murage where they presented a report of Rumuruti Water Supply and Sewerage Project among other projects implemented by the Agency.

The report was acknowledged and submitted for application for grant aid from Japan for water supply service improvement in three urban centers of Laikipia county. After the submission for consideration of funding, they met the requirements and indeed it's a score for the residents of Laikipia.

Hope Amidst A Dry Spell



Inset: Flagging Off of a water bowser from the Agency for a water tracking mission.



Residents drawn from some parts of Baringo draw water from the Agency's water bowser during a drought mitigation program.

Eleven O'clock by Morning and the ground was cracked and hot on a normal day in Loruk Centre, Baringo South. It was business as usual until the Agency's water bowser filled with the rare liquid gem was spotted by the locals. A cloud of dust rose up and under the scorching glare of the sun were residents on helter-skelter with jerrycans, bottles, basins to cups ready to draw water from the bowser. With calmness, they were drawn to order and they all got to share the available resource that day. "It's been long since we came close to clean drinking water since the rain seized," said Kiptoo, a Loruk resident while he sipped water from a bottle.

The Agency devised this Short-term impact project dubbed "Water Tracking" to benefit some drought-stricken parts of Narok and Baringo and Laikipia which are within its jurisdiction to mitigate the drought crisis.

Apart from the short-term impact projects, the Agency went further to do more long-term impact projects for longevity's sake. With that, a number school going children now have more reason to smile and more time to study owing to "Water for Schools" Program which has seen uncountable sunk boreholes in schools. It

is good to note that the scarce commodity is now easily accessible and reliable in close proximity for the learners and surrounding community. The Agency has further rehabilitated 16 existing boreholes while works for 14 more boreholes are currently ongoing in Tiaty Sub-County, Baringo County.



The Agency's has tirelessly ensured a constant donation of 10,000 litres capacity plastic water storage tanks to learning institutions, Hospital facilities as well as community centres in different parts of the said Counties through the Drought Mitigation Program.

We cognize that, when drought drums beat hard, the scar of hunger, famine and disease hits home. Famine results in malnutrition, starvation, disease and at last, increased death rates. It's with the right measures put in place to mitigate drought that hundreds of livelihoods can be saved.

Replacement of kapau borehole mortar

A Gem That Is Chemususu Water Supply Project.



A section of Chemususu Phase II Water Treatment Plant.

The Government of Kenya through the National Water Conservation and Pipeline Corporation (NWCPC) constructed the Chemususu Dam in Eldama Ravine. The Project (Chemususu phase I) was completed in July 2013 with a projection of serving about 300,000 people and livestock in Eldama Ravine, parts of Mogotio and Rongai constituencies.

Subsequently, the completion of the construction of the dam, the Agency engaged Guangxi Hydroelectric Construction Bureau (GHCB) to undertake the construction of the Water Treatment Plant, bulk transfer mains and reticulation system which fall under Phase II of the Project implementation.

In Mogotio, one of the towns set to benefit from the second phase of Chemususu Water Supply lies Soin General Hospital among the beneficiaries of the Project. The hospital serves more than 300 outpatients daily, and has in the past continued to face water shortages while executing its service to humanity. This situation will however be a thing of the past as the project nears completion and commissioning.

Speaking to the Chief Nurse-Soin Hospital, Claire Jemutai, stated that the hospital and residents of Mogotio have a reason to smile following this life-transforming Phase II of the project that is undertaken by the Agency. "It was hard for us to execute our duties efficiently while rationing water use. We have received plastic water tanks from several well-wishers including CRVWDA back in 2020 to help fight Covid-19 but they are still not sufficiently resourceful," she said. "As a hospital, we need a continuous and uninterrupted flow of water and power daily," she added.

Likewise, the town continues to report cases of waterborne diseases due to untreated domestic water use. A resident, Caroline, shows us the dirty water in a seasonal stream that serves the villagers with a radius of more than 3 kilometers in the remote area of Emining Town.

“As a hospital, we need a continuous and uninterrupted flow of water and power daily”
Claire Jemutai,
Chief Nurse- Soin
Hospital

Indeed, Caroline lamented of the dirty water use, the long distance, and queuing to retrieve it. "This project will bring water to our doorsteps and eliminate most of the challenges we face," said the jubilant resident.

The Agency not only targets to supply water to schools and health facilities but will also include last-mile connectivity to thousands of households.

The project scope of work includes the construction of a new Water Treatment Plant with a capacity of 28,300,000 liters per day, Laying a new 500mm diameter raw water pipe from Chemususu Dam to the new Water Treatment Plant of the length of 0.7km among others. Chemususu water supply and distribution project aims at ensuring there is an adequate and dependable water supply to Eldama Ravine, Rongai and Mogotio towns.



CRVWDA CEO Eng. Samuel Oruma takes PDU delegation round Chemususu Phase II site.

CRVWDA Marks the 29th Annual World Water Day Celebrations.



National World Water Day celebrations in Kitui led by Ministry of Water Director, Douglas Mutai. To mark the day, the Agency constructed and mounted the gate of Maliku Primary School as well as re-branding and re-painted the administration block.



CRVWDA Director Lorna Timanoi and Director David Kamau led Regional celebrations in Kische-Ilmoruak Pri. School Narok where they Commissioned a solarized borehole in the school and donated a 10,000 litres capacity water storage tank.



CRVWDA Director, Doc. Cynthia Kipchilat Handing over a 10,000 litres capacity water storage tank to Kailer Water Project in Baringo County during the world water day celebrations.



CRVWDA Director Julius Kamau plants a tree and presents a 10,000 litres water storage tank donation from the Agency to commemorate the World Water Day.

Empowering Community Water Schemes



The then CS Water Sanitation & Irrigation Sicily Kariuki, awards a certificate to a resident after the training

In an effort to solve water scarcity in Nyandarua despite being a waterbed with a wealth in agricultural products, the Agency implemented close to 100 water projects in this County under Universal Health Coverage programme, Water for schools programme, Olkalou Boreholes and small dams and pans programmes. In addition, each project is managed by a committee that is comprised of community members that are among the beneficiary which plays a significant role in providing water services to the Kenyan public.

The Ministry of Water, Sanitation and Irrigation through Agency trained Community Based Organizations on the management of water supply projects in Ndaragwa, Oljororok, Kipipiri, Olkalou and Kinangop Sub-

counties.

The Ministry and the Agency saw the need to support in terms of strengthening management and financial systems, operation and maintenance and better inclusion to the regulatory framework of this committees due to the underperformance of these projects.

In regards to this, the Agency conducted capacity building programs in the sub-counties to properly equip these committees with skills to manage the water projects. The first Phase of this training covered Ndaragwa and Oljororok while the second phase covered Olkalou, Kinangop and Kipipiri Sub-counties. The training was graced by the then Cabinet Secretary Ministry of Water, Sanitation and Irrigation – Sicily K. Kariuki (Mrs) EGH.

The Agency is undertaking same training in the other areas of its jurisdiction.



CRVWDA Manager Water Quality, Bancy Chege trains Water Project Community Based Organisations

Olkalou Sewerage Project.

At the foot of the 160km Aberdare ranges, lies Nyandarua County, one of CRVWDA area of jurisdiction. The County Headquarter, Olkalou town is among the largest in the area and fast growing town with an estimated population of 98,000 according to the 2019 National Census Report.

Water Supply and Waste Disposal in Olkalou town remains a rare resource despite being at the foot of the Country's water towers. Consequently, to solve this issue, the Government of Kenya received financing from the African Development Bank towards the "Kenya Towns Sustainable Water Supply and Sanitation Program (KTSWSSP).



Olkalou town is among many towns reaping the fruits of this programme through the construction of the Olkalou Sewerage project, which is the first water borne sewerage system in the town being implemented by the Agency. The project covers the Township area which is

The project is expected to be a game changer to residents of Olkalou and its environs and also bring solution to waste water management and water supply in this town.



A section of Olkalou Water Treatment Plant

Embracing Enterprise Risk Management Framework for sustainability

Ongoing modernization in corporate organizations exposes them to a myriad of risks that can negatively affect their regulatory compliances and most importantly their operational efficiencies. Consequently, this has led Central Rift Valley Water Works Development Agency to have its employees undertake a series of Enterprise Risk Management (ERM) training to equip them with the necessary skills to manage, mitigate, accept or transfer these risks.

Both the junior and senior staff have attended workshops that encourage them to be risk management champions for the Agency when that challenge surfaces. To name a few risks that the Agency might face include strategic risks, financial risks, operational risks, and in addition to others such as cybersecurity, and reputational or regulatory risks.

During the senior management training, the trainer expressed the importance of the managers to have a clear roadmap on how to address the occurrence of any risks related to the Agency's operational processes. The Chief Executive Officer, Eng. Samuel Oruma also encouraged his team to conduct personal evaluations on their work ethics to ensure they align with the stipulated regulatory compliance to avoid endangering the organization to avoidable risk.

The workshops have been quite an eye-opener to the Agency's staff for in addition to awareness of the risks they

were able to draft a Risk Development Framework that would be shared with the Board of Directors for ratification and sharing with employees for implementation. It is imperative to note that the staff were well informed and prepared to mitigate risk by having the right resources at their disposal and to embrace the presence of risk management when carrying out their daily operations at the Agency.

According to <https://www.claconnect.com/>, LLP accountancy firm, an effective Enterprise Risk Management Program embraced by the organization will help it reap benefits such as; adequate coordination of regulatory and compliance matters, effective and efficient use of resources, provision of a standardized risk reporting framework, development of a risk-focused culture for the Agency and having employees that have improved focus and perspective on risk to name a few.



Social Scene



CRVWDA staff Present their gift at Allan Sogomo's nuptial.

Our Area Of Jurisdiction

Our Development Partners



*"In time
and with water,
everything Changes."
-Leonardo da Vinci.*

*"If there is
magic on this
planet, it is contained
in water."
-Loren Eiseley*

FEEDBACK:

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