PWWA NEWSLETTER

01st Edition, 01st January – 31st March 2025

Update from the Secretariat

Warm greetings from your team at the Secretariat!

We are pleased to have received many stories for this first Newsletter of 2025, and we would like to encourage all members to continue to provide us regularly with updates of what is happening in your entities and communities.

We started work in this quarter on rebuilding our website and improving our overall IT/communications network for more efficient and effective communications. This was enabled through a small grant from the Government of the Netherlands Mission Office in Wellington, faafetai tele! Work on the website is now almost complete and once finalised we should be able to open registrations for our upcoming conference on 25-29 August 2025 in Honiara. We are also updating all your profiles on the website, so please bear with us for the time being and reach out should you find anything needs be amended or revised of your profile. Preparations for the conference in Honiara are well under way, with our Solomon Islands colleagues at SIWA working hard with the various SI government Ministries to ensure this conference is successful. In early February, the CEO joined together with the team from the Pacific Community-SPC on a technical mission to the Solomon Islands government meeting with the Deputy Prime Minister who is also the Minister for Water for Solomon Islands and various government officials to discuss the preparations for the 9th Water and Wastewater Ministerial Forum and preparations for the overall conference. In particular, discussions focused on elevating water as a priority with the Pacific Leaders Forum to be held a week after the PWWA conference in Honiara. This would present a valuable opportunity for recognizing water security as a top priority in the Pacific, and the Solomon Islands Minister for Water and Deputy Prime Minister is championing this call. In this quarter, we bid farewell to one of our valued Board Directors, Dr Amit Chanan, CEO of Water Authority of Fiji who had not sought renewal of his contract with WAF. Dr Chanan was very active and engaged in championing PWWA's advocacy work and overall purpose of PWWA. A replacement for Dr Chanan will be sought during the AGM in August in Honiara.

Do please keep us posted with your stories and updates and we will endeavour to do the same by email.

Ia manuia!

PWWA CEO & Secretariat

IN THIS ISSUE

(source Majuro Water Sewer)

Spring 2025

The Majuro Water and Sewer Company (MWSC) continues to work on the nearly $40 million water and sanitation project through the Asian Development Bank grant obtained by the Republic of the Marshall Islands. The project will seek to provide the majority of the population of Majuro with clean drinking water and renewed sanitation services—relining the main transmission network to reduce non-revenue water, installing a nearly half a million gallon per day reverse osmosis plant, and renewing the existing sanitary pumping network. The project is projected to have a five-year construction window.

Majuro has minimal amounts of naturally occurring freshwater storage and heavily relies upon rainfall patterns and thus must be strategic in the use and loss of the water supply. Unfortunately, the potable water system has been intermittent, pumping 2-3 times each week for 4 hours, due to the loss of the overhead tank system and the apparent loss of water through its asbestos cement distribution system. The largest component of the ADB project will seek to use CIPP lining technology to reline the asbestos cement pipeline in place and remove the possibility of large water loss in the advent of a 24-hour/7-day week pressurized system. The water supply will also be augmented by the restoration and updating of the current treatment plants and the installation of new reverse osmosis plants in the system with the desired output of an additional 400k gallons of potable freshwater available each day.

In addition to these distribution and plant works, storage of the water plant is also being increased through the generous contributions of the Japanese people through the Japan International Cooperation Agency (JICA).

Through this agency, Majuro Water and Sewer Company is constructing an over 11+ million-gallon reservoir that will hold additional amounts of water that will enable the water system to have greater resiliency and maintain service levels during times of prolonged drought. This reservoir is expected to be completed by the end of year 2025.

Sanitation improvements are also ongoing in Majuro. The sewer pump stations will see renewal of their structures and electromechanical systems thru the ADB's investment. In addition to this, the United States Department of Agriculture has provided $10 million towards the complete replacement of the sewer outfall on Majuro. This outfall has been broken and ineffective for over 20 years.

Engineering teams will be on Majuro to conduct the preliminary design work this summer with construction slated for early 2026. All in all, the residents of Majuro could see a completely different water and sanitation service level by the end of the decade with these long time needed projects.

Repair performed on asbestos pipe

Sewer lift station needing rehabilitation

Current progress on JICA reservoir construction

WATERCO water, the liquid of life DAVEY

36 South Street, Rydalmere, NSW 2116, Australia

(source WATERCO DAVEY)

Breaking Records, Delivering Reliability: Davey's Largest-Ever Pump Set Transforms Water Supply at Charles Sturt University

In a landmark project for the Davey Commercial team, the largest pump set ever built in the history of Davey has been successfully completed and commissioned. This system, consisting of 3x Davey VM200 pumps, custom-fabricated 316 stainless steel manifolds and valves, and a heavy-duty steel base, represents a milestone in scale, precision, and execution for Davey.

The pump set has been installed at Charles Sturt University in Wagga Wagga, NSW, where it will provide reliable water supply for the campus and surrounding areas—helping the region accommodate growing demand due to rapid population growth.

The Challenge

Wagga Wagga has experienced significant population growth, placing increasing pressure on local water infrastructure. Charles Sturt University sought a solution that would:

- Meet stringent technical specifications as defined by the project's hydraulic consulting engineer.
- Provide scalability to ensure reliable performance as the population and water demand grew.
- Adhere to strict project timelines, which had previously been considered unachievable by other providers.

The Davey Solution

The Davey team developed and commissioned a custom pump set that met the exacting requirements of the detailed drawings and specifications provided for the project. The system includes:

- 3x Davey VM200 Vertical Multistage Pumps, offering high capacity and reliable performance.
- Custom-Fabricated 316 Stainless Steel Manifolds and Valves, ensuring durability and corrosion resistance in a high-demand application.
- Heavy-Duty Steel Base, providing stability and robust support for the system.
- Built to Specification: Every component was fabricated and assembled in accordance with the detailed design requirements specified by the hydraulic consulting engineer.

The system was completed on time and delivered by Davey to meet the project's critical and demanding timelines, a feat that had been deemed unattainable by other providers.

daveywater.com

DAVEY

CASE STUDY:
CHARLES STURT UNIVERSITY

Collaboration & Precision

The successful delivery of this pump set was a result of meticulous planning and seamless collaboration across multiple teams.

Their expertise and commitment were crucial in overcoming challenges and ensuring the successful build and commissioning of the largest Davey pump set in the company's history.

Impact & Benefits

The custom Davey pump set at Charles Sturt University offers significant benefits to the university and surrounding community:

- Reliable and Consistent Water Supply: Ensuring continuous access to water for the university and the growing Wagga Wagga region.
- Future-Ready Design: Scalable capacity that allows the system to adapt to future demand without requiring major upgrades.

Built for Longevity: High-quality materials and components ensure durability and reduced maintenance over time.

The successful delivery of the largest-ever Davey pump set marks a defining moment in the company's history. It showcases Davey's ability to meet highly technical and time-sensitive project requirements while working closely with consulting engineers and clients to deliver a solution that supports growing regional infrastructure.

Congratulations to everyone involved in making this milestone a reality. This achievement will stand as a testament to the innovation, collaboration, and expertise that define Davey's commercial capabilities.

daveywater.com

DAVEY

(source Aurthur D Riley & Co Ltd)

Smart water management for Rarotonga
A sustainable solution to combat climate change and water scarcity

About To Tatou Vai - Our water

To Tatou Vai is a water authority established to manage Rarotonga's drinking water supply. Focused on ensuring sustainable access to clean water for all residents, the organisation oversees the island's water infrastructure, addressing challenges such as limited resources, ageing systems, and the impacts of climate change. Their work is guided by the principles of equity, conservation, and resilience, ensuring a secure water future for the Rarotonga community.

Project overview

Rarotonga faces growing challenges from climate change, including limited water resources and an ageing water infrastructure. Recognising the urgent need for action, Vodafone Cook Islands in partnership with local authority partnered with ADR and the Axioma meter to transform the island's water management system, ultrasonic water meters were introduced to modernise water monitoring and management, bringing cutting-edge technology to the heart of Rarotonga's infrastructure.

The initiative aimed to improve water resource efficiency, reduce waste, and provide residents with more accurate information. Real-time water usage data now empowers the island to tackle inefficiencies, safeguard its water supply, and enhance resilience in the face of climate change.

Challenge

Prolonged droughts lasting up to three months, and no data collection methods, were contributing to significant water wastage and rising costs. Accurate, real-time data was critical to identifying leaks, managing consumption, and ensuring a reliable water supply amidst the mounting pressures of climate change.

Solution

ADR collaborated with Rarotonga Vodafone Cook Islands to implement a robust, technology-driven water management solution designed to meet the water authorities' pressing needs.

The solution centred around ultrasonic water meters — innovative devices that collect real-time water low flow data and transmit it to the cloud multiple times daily using Vodafone Cook Islands's LoRa

networks. This technology empowers to monitor water consumption in real-time, enabling faster leak detection, enhanced billing accuracy, and smarter water management.

To support this, Vodafone Cook Islands also introduced automated meter readings using a cloud-based solution that allows residents and businesses to access their water usage data. This transparency makes it easier to track consumption, identify inefficiencies, and encourage conservation.

Objectives: driving efficiency and sustainability

The project aimed to address key water management challenges with clear, actionable goals:

- **Real-time water tracking:** Provide accurate, up-to-date data on water usage across the island.
- **Fairer billing:** Ensure accurate and transparent billing with smart meters that record precise consumption.
- **Water conservation:** Empower residents to monitor and manage their water usage, particularly during dry seasons.
- **Proactive leak detection:** Identify and address leaks quickly to minimise water loss and resource wastage.

Key goals achieved: transforming water management and ensuring long-term sustainability in Rarotonga

This water metering project transformed how Rarotonga manages its water resources. ADR delivered on its objectives by achieving the following:

- **Better water management:** With real-time data from the smart meters, water usage can now be tracked across the island. This allows for better resource allocation and reduces inefficiencies, ensuring the island's water system operates smoothly and sustainably.
- **Accurate billing:** The introduction of smart meters has allowed To Tatou Vai to implement a billing system for water. Residents and businesses pay for their water, fostering fairness and improving trust in the billing system.
- **Encouraging conservation:** The project has inspired more sustainable water use by giving residents access to their water consumption data. This has been particularly effective during Rarotonga's dry season, where conserving water is essential.
- **Faster leak detection:** The system detects leaks quickly, helping utilities address issues before they escalate. This has not only reduced water waste but also minimised repair costs and service interruptions.
- **Building long-term sustainability:** The enhanced system equips Rarotonga to handle the growing challenges of climate change. The island is now more resilient, using its water resources efficiently while ensuring a consistent supply for the future.
- **Building long-term sustainability:** With these smart meters, Rarotonga is more resilient to climate change, using water more wisely and keeping supplies steady year-round.

Results and impact: fairer billing, increased conservation, and smarter water management in Rarotonga

The impact of this project is already evident:

- **Fairer billing:** Smart meters will eliminate billing surprises by providing accurate, real-time usage readings.
- **Conservation:** With clear visibility into their water use, residents are conserving more, especially during droughts.
- **Leak detection efficiency:** Faster leak identification means fewer resources wasted and quicker repairs.
- **Smarter water management:** Utilities and residents have better tools and insights to plan for sustainable water use.
- **Greater community awareness:** Access to water usage data has encouraged a cultural shift towards more mindful, sustainable water habits.

What the team had to say

The introduction of inline water meters has been transformative for water management in Rarotonga. Real-time data has enabled quicker responses to leak and inefficiencies, and the online portal has empowered residents to take control of their water use.

Basil Vrizonis, Sales & Development, highlighted the importance of the project:

When water is in short supply, people often turn to unsafe alternatives, which poses serious health risks. Getting these meters in place was critical — many people don't realise just how much water they use until they see the data.

Bruce Franks, Sales & Development Manager, added:

This project isn't about adding costs; it's about cutting waste. By using water more efficiently, we can ensure a reliable supply for everyone, all year round.

This initiative sets a benchmark for sustainable water management across other islands, showcasing how technology, data, and community engagement can come together to address climate challenges and water scarcity. The focus wasn't just on deploying smart meters — it was about fostering smarter decision-making and encouraging collective responsibility for conserving a vital resource.

(source kLiPTANK)

Enhancing water security across the Pacific Islands

Water security is a growing challenge across the Pacific Islands, where communities, agriculture, and industry rely on sustainable solutions to ensure access to clean and reliable water. Many remote island communities face issues such as irregular rainfall, inadequate infrastructure, and growing demand for potable water. As climate change intensifies, the need for innovative and efficient water storage solutions has never been greater.

As new members of the Pacific Water & Wastewater Association (PWWA), KlipTank is proud to support the Pacific Island region with proven water storage solutions. We look forward to collaborating with industry professionals, sharing our expertise, and contributing to water security across the region.

KlipTank is currently working on several key water storage initiatives across the Pacific Islands to enhance water accessibility and security in remote island communities.

Mitiaro – Vai Uti Water Tank

Working with Infrastructure Cook Islands (ICI), a 25m³ drinking water tank is being installed on an elevated stand to provide clean, gravity-fed drinking water to the island community of Mitiaro. This project ensures a reliable water supply and strengthens local infrastructure for the future.

Mangaia Rainwater Harvesting Tank

As part of the *Managing Water Scarcity through Strengthened Water Resources Management (MWSSWRM) Project, through ICI*, KlipTank is installing a 130m³ rainwater harvesting tank on Aretoa Heights in the Keia district. Positioned at 99 meters above sea level, this system will supply adequate water to the 345 residents of Oneroa village, reinforcing the local government's commitment to sustainable water management.

Aitutaki Rainwater Harvesting Tank

To mitigate potable water shortages in Aitutaki, a 130m³ water tank is being installed in Vaipae village through ICI. Harvesting rainwater from the nearby CICC Church compound, this initiative ensures a more stable water supply for the local community. The project is spearheaded by the Aitutaki Island Government (AIG), which will also oversee its long-term management.

Marshall Islands – UN-funded Water Security Project

KlipTank is supplying nearly 300 flat-pack modular water storage tanks, ranging between 34m³ and 56m³, as part of the $24 million United Nations Development Programme (UNDP) addressing Climate Vulnerability in the Water Sector (ACWA) Project. Supported by the Green Climate Fund (GCF) and the Government of the Marshall Islands,

this initiative strengthens rainwater harvesting and storage infrastructure across 24 remote atolls and islands, providing safe drinking water to 2,606 households and 160 community facilities.

With 98 tanks already delivered to Majuro and more than 40 installed across various atolls, production for the remaining tanks will soon be underway. KlipTank's flat-pack design ensures cost-effective shipping and easy assembly by trained local teams, reducing logistical challenges while building local capacity for long-term water security. These tanks will play a crucial role in addressing baseline water shortages and strengthening resilience against future droughts.

Key advantages for Pacific Island projects

KlipTank's innovative water storage solutions offer several key advantages for island environments:

- **Cost-effective installation** – Export tanks can be installed by KlipTank or by the client using our friendly installation manual and installation videos. Alternatively, KlipTank can provide a supervisor to guide the installation with local labour on site in any of the Pacific Islands.

- **Flat-pack freight efficiency** – Our tanks are flat-packed for easy shipping. For example, we shipped 20 x 56,000L tanks in a single 40ft container, allowing for economical transportation to remote locations.
- **No concrete foundation required** – Tanks can be installed on a compacted coral base (or equivalent), eliminating the need for extensive groundwork.
- **Versatile storage options** – KlipTank solutions can store potable water, wastewater, and other liquids.
- **The complete package** – KlipTank offers a complete water solution, including storage, rainwater harvesting, and optional water treatment.
- **Built to New Zealand & Australian standards** – Ensuring high quality and compliance with industry regulations.
- **Non-corrosive materials** – Designed to withstand harsh island environments.
- **Multiple size options** – Flexible solutions for different project requirements.

Expanding our impact in the Pacific Islands

KlipTank is dedicated to delivering water storage solutions that make a lasting impact across the Pacific Islands. As we continue to expand our reach, we look forward to connecting with industry leaders at upcoming events such as the PWWA Conference in the Solomon Islands and the Fiji Engineering & Industrial Conference in September.

With more projects in development, we remain committed to enhancing water security in the region. If you'd like to discuss how KlipTank can support your next project, we'd love to hear from you.

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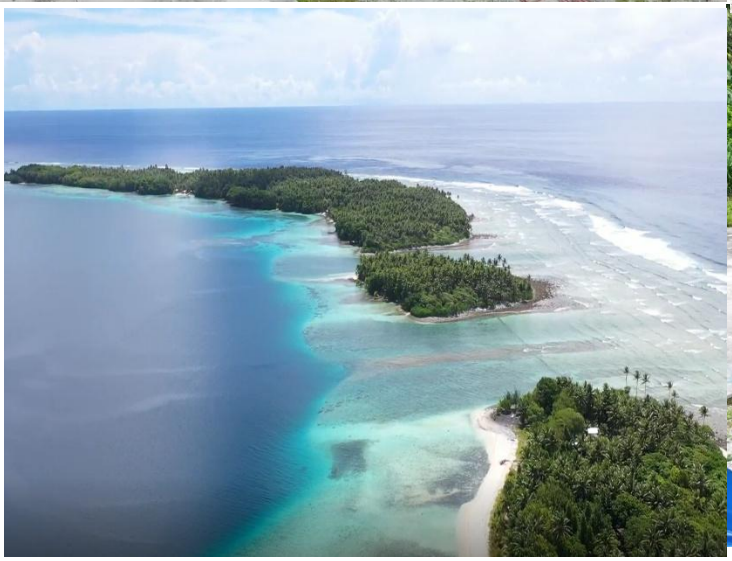
www.kliptank.com

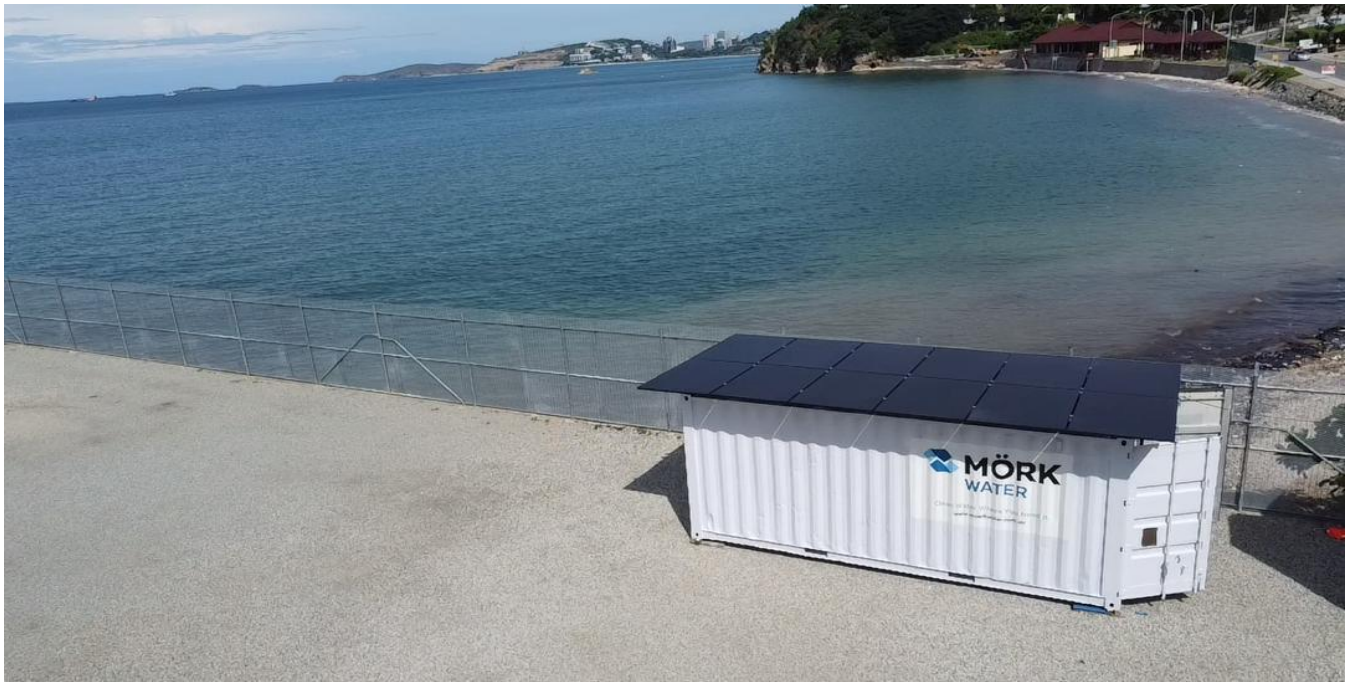


(source MORK WATER)

Moerk Water March update

2025 continues to be a busy year for Moerk Water. Our engineers are currently working on a wide range of projects including designing drinking water distribution networks for a remote port facility in Western Australia (with potable water to be provided by a solar powered Moerk Water seawater desalination system), finishing off a groundwater treatment system for a mine site in the Northern Territory and starting construction of a new solar powered groundwater treatment system for northern Papua New Guinea. Here are some other activities we have been up to:

Showcase unit in PNG, Port Moresby



In February, our tireless Director of International Business Development, Barbara Brezger, travelled to Papua New Guinea to supervise the installation of a solar powered seawater desalination unit at the YWAM Medical Ship campus in Port Moresby. This unit will be used as a showcase to demonstrate this important technology that is essential to making communities more resilient in the face of a changing climate. The water produced from the showcase unit is provided to a local community via a nearby collection point.

Fourth American Samoa water treatment unit dispatched

Last year, Moerk Water were contracted to deliver three groundwater treatment units and one seawater desalination system to supplement American Samoa's water supply. In total, the four units will produce 1.5 million litres (400,000 gallons) per day of potable water. The fourth unit, a seawater desalination system capable of producing 350,000 litres (90,000 gallons) of water per day was dispatched to Pago Pago early in 2025.

The three groundwater treatment systems have already arrived in American Samoa and are currently being installed by local engineers with Moerk Water support. Once the seawater desalination unit arrives in American Samoa, it will be installed onsite and then Moerk Water engineers will head to American Samoa to train the local operators in how to maintain these water treatment systems to ensure they provide a long-term solution.

Moerk Water nominated for national sustainability award

The Banksia Foundation is a not-for-profit organisation established Australia in 1989. As one of the most prestigious sustainability organisations in Australia, the Banksia Foundation has held a national award's night to promote organisations who have achieved significant social or environmental impact through community engagement and sustainable business practices. This year, Moerk Water is a finalist in the Banksia Foundation's National Climate Technology Impact Award. The Climate Technology Impact Award celebrates technological innovations that address the challenges posed by climate change.

Moerk Water was nominated for a solar powered groundwater treatment system they designed and built for a remote indigenous vocational school in Southwestern Australia. This system operates up to 17 hours a day on a combination of solar power and battery backup. The treated water is used for drinking and irrigation and due to the volume of clean water now available to the school, they are planning to expand their irrigation activities. The wastewater from the system is used to grow saltbush, making it a truly sustainable solution. The project was jointly funded by the local utility and the national government. The winner of the award will be announced on 3rd April.

To find out more about how Moerk Water can help deliver a sustainable water treatment system tailored to your needs, contact us here: info@moerkwater.com.au

We are looking forward to seeing you all again soon at the 2025 PWWA Conference in Honiara, Solomon Islands.

(source IDEXX)

Strengthening Partnerships for a Sustainable Future.

The last **Pacific Water and Wastewater Association (PWWA) Conference and Forum** 2024 was a special milestone for IDEXX—it marked our very first participation in this prestigious event. Stepping into this space, we were eager to engage with water professionals, utilities, and communities that play a vital role in managing and protecting water resources across the Pacific Islands. What we discovered was an inspiring sense of unity, resilience, and deep-rooted collaboration that defines the region's approach to water management.

Aligning Our Values with the Pacific's Vision

When planning our participation, we knew that simply showcasing our products and services wouldn't be enough. Instead, we wanted to highlight what truly matters—the people of the Pacific Islands, their values, and their deep respect for nature. Sustainability, environmental stewardship, and public health protection are principles that IDEXX has upheld for over 40 years, and they are the same values that drive water professionals in the Pacific. This shared mission made our involvement in the PWWA Conference even more meaningful.

Lusia Sefo-Leau, CEO PWWA, Visiting IDEXX stand during 2024 conference and exhibition.

Recognition and Inspiration for the Future

We were honoured to see our efforts resonate with attendees, and being awarded **Best Booth of the Exhibition** was a humbling recognition of our commitment to the region. But more than the award, what truly inspired us was the engagement we had with water professionals who are eager to improve water quality and public health in their communities. The conversations, shared experiences, and new connections made during the event reaffirmed our dedication to expanding our impact in the Pacific.

Expanding Our Support Across the Pacific

Our mission doesn't stop here. IDEXX is committed to extending its services and products to even more countries and communities throughout the Pacific Islands. Beyond providing reliable testing solutions, we believe in **knowledge-sharing**—ensuring that water professionals across the region have access to the expertise and resources needed to strengthen their water quality programs. That's why we are actively growing the **IDEXX Water Community**, a free online platform for everyone to expand knowledge, skills and expertise in water microbiology.

See You in the Solomon Islands in 2025!

As we look ahead, we are excited to continue building strong partnerships and supporting the Pacific in its efforts to safeguard water quality for future generations. The **PWWA Conference 2025 in the Solomon Islands** will be another opportunity to reconnect, learn, and collaborate toward a sustainable future. We can't wait to see familiar faces and meet new ones as we continue this journey together.

Until then, let's keep the conversation going—because when we work together, we can achieve more. **See you in the Solomon Islands in 2025!**

Lindsay MacIntosh and David Gonzalez from the IDEXX Water ANZ team receiving the Best Expo award.

IDEXX ANZ Water Team

To learn more about IDEXX initiatives, collaborations and support in the Pacific Islands visit https://www.idexx.co.nz/water/

Ministry of Natural Resources and Environment Samoa

(source Ministry of Natural Resources & Environment Samoa)

World Water Day 2025

Glacier Preservation - Protecting Samoa's Water Resources 🌊💙

This World Water Day, we focus on the theme Glacier Preservation—a crucial global issue that also connects to protecting Samoa's water resources. Glaciers store the majority of the world's freshwater, and as they melt due to climate change, sea levels rise, rainfall patterns shift, and extreme weather events become more frequent. These changes directly impact Samoa's water security, making it vital to take action now.

How Can We Protect Our Water Resources in Samoa? 🌿💧

- ✅ Conserve Water Daily – Use water efficiently, fix leaks, and adopt smart water-saving habits at home.
- ✅ Sustainable Water Management – Support policies and projects that ensure clean water access and protect
- ✅ water sources.
- ✅ Protect Water Sources – Keep rivers, lakes, and coastal waters clean by avoiding pollution and waste disposal.
- ✅ Raise Awareness – Educate communities on the importance of water conservation and take part in clean-up efforts.

Samoa may not have glaciers, but the effects of climate change on global water systems reach our shores. By protecting our water today, we ensure a clean, sustainable future for generations to come.
💙Let's stand together to protect our water resources!💙

#WorldWaterDay2025 #GlacierPreservation #WaterSecuritySamoa #ProtectOurWaterResources #SamoaCARES

Water Authority of Fiji

(source Water Authority of Fiji)

MINISTER FOR PUBLIC WORKS, METEOROLOGICAL SERVICES, AND TRANSPORT, HON. RO FILIPE TUISAWAU ON CHALLENGES AT TAMAVUA WATER TREATMENT PLANT - SUVA/NAUSORI

Suva, ***Fiji*** – 28***th February*** 2025. The Coalition Government acknowledges the ongoing challenges at the Tamavua Water Treatment Plant (WTP) and their impact on thousands of residents in the Suva-Nausori corridor. As the primary treatment facility supplying water to Fiji's largest urban population, Tamavua WTP is a critical infrastructure asset that must be strengthened to ensure water security and service reliability.

BACKGROUND

The Tamavua WTP was originally designed to operate at a capacity of 60 million litres per day (MLD) but is currently operating at 75 MLD to meet growing demand. However, its ability to maintain consistent production is significantly impacted by elevated turbidity levels, especially during heavy rainfall events.

High turbidity, caused by increased sediment and organic matter in the raw water source, leads to:

• Reduced efficiency of the treatment process, requiring higher chemical dosages and longer settling times.

• Frequent intake blockages, disrupting the flow of raw water into the plant.

• Lower overall production output, affecting thousands of households and businesses.

The **Fiji Government**, through the Water Authority of Fiji (WAF), has developed a comprehensive response strategy, including immediate, medium, and long-term measures to address these challenges and build greater resilience in the water supply system.

SHORT-TERM SOLUTIONS

To mitigate immediate challenges and minimize service disruptions, the following solutions have been implemented:

1. *Installation of a Trash Boom at Savura Cascade*

• A trash boom system has been installed at the Savura Cascade to prevent debris and sediment from clogging the intake system during periods of heavy rainfall.

• This solution, delivered by local engineering firm Bio Energy Insight Pacific, showcases the ability of local expertise to tackle Fiji's water challenges with homegrown solutions.

• The system has already alleviated continuous intake blockages and improved water flow into the treatment plant.

2. *Bypass Pumping Systems for Improved Flow Management*

• Two bypass pumping systems have been installed to maximize outflow during periods of high turbidity and intake blockages.

• These systems allow for quicker restoration of supply, reducing turnaround time between service disruption and full production recovery.

• Both setups are now fully operational, providing additional resilience to the treatment process.

• Maximizing Chemical Intervention for Treatment Efficiency

• The WAF has enhanced its chemical treatment protocols, ensuring that water treatment remains effective even during high-turbidity events.

• This includes optimized coagulant dosing to improve sediment removal and maintain safe drinking water quality.

MEDIUM TO LONG-TERM SOLUTIONS

While short-term measures have helped to stabilize production, the Government is investing in long-term infrastructure projects to ensure the sustainability and resilience of the water supply system.

1. *Sawani to Colo-i-Suva Pipeline, Pump Station and Reservoirs Project*

• The tender has been approved, and the contractor is expected to commence work in April 2025.

• This project will take 12 to 18 months to complete at an estimated cost of $35 million.

• The new pipeline will provide an alternative raw water supply, reducing dependence on Tamavua WTP and improving overall system reliability.

2. *Performance-Based Contract for Non-Revenue Water (NRW) Reduction*.

• The Suva-Nausori water system currently experiences 47% water losses due to leaks and inefficiencies.

• A Performance-Based NRW Reduction Contract has been awarded, with the contractor set to begin work in March 2025.

• This investment over five years aims to reduce NRW to the mid-20% range, ensuring that more treated water reaches consumers.

• Less water lost means increased availability, better storage, and improved service reliability.

3. *New 20MLD Water Treatment Plant at Tamavua*

• To increase treatment capacity, a new 20MLD Water Treatment Plant will be constructed at Tamavua WTP.

• The project, expected to take 18 months to complete.

• This will increase total treatment capacity from 60MLD to 80MLD, ensuring the plant can operate efficiently irrespective of weather conditions.

4. *New Upgraded Clarifiers Will Be Installed at Tamavua WTP to mitigate against turbidity*.

5. *Strategic Infrastructure Investments through CAPEX, Loans, and Climate Financing*

• The Coalition Government is prioritizing infrastructure upgrades through direct capital expenditure (CAPEX) investments, concessional loans, and climate change financing mechanisms.

• These funding sources will enable the timely completion of critical water projects, ensuring sustainable service delivery for Fiji's growing urban population.

New Zealand High Commission-Honiara Solomon Islands

(source New Zealand High Commission-Honiara Solomon Islands)

Our team were delighted to meet with a joint technical mission by Pacific Water and Wastewater Association and Pacific-Community-SPC visiting Honiara to undertake consultations with the #Solomon Islands Government on the #9th Pacific Water and Wastewater Ministerial Meeting and the #16th Pacific Water and Wastewater Conference and Expo (both scheduled for Honiara in August 2025).

Our conversation traversed the importance of access to safe and sanitation for all and reflected on efforts to improve regional water security coordination and advocacy to support vulnerable communities.

is proud to partner with SPC to deliver the 'Building Regional Action and Cooperation on Water Security' which aims to improve regional engagement, cooperation and action on Water Security in the Pacific as a critical component of Pacific Resilience.

SPC: Exsley Talioburi – Disaster and Community Resilience Programme lead, Dave Hebblethwatite – Water Security and Governance Coordinator, and Mary Alalo –Water Security Engagement lead. PWWA: CEO Lusia Sefo-Leau. NZHC: Marni Gilbert – First Secretary, ***Angelina Halumae-Ragaruma – Development Programme Coordinator***

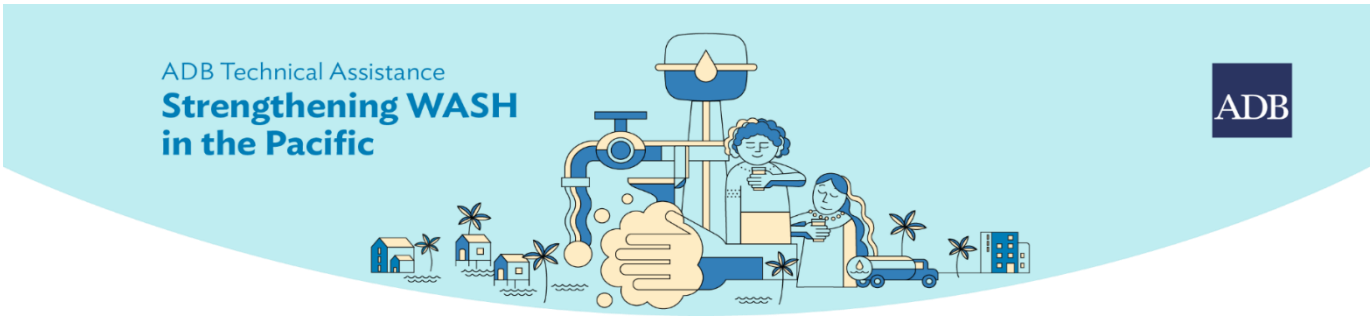
Pacific Water and Wastewater Association

Pacific Hydrology Forum 2025

Our Development Projects Coordinator, Misileti Masoe Satuala represented PWWA at the Pacific Hydrology Forum, held on February 18-20 in Suva Fiji which was supported by the **Australia Water Partnership**, the World Meteorological Organization (WMO), and UNESCO.

It brought together Directors and senior representatives of National Hydrological Services, key national stakeholders, donors, development partners, and experts from regional and international organizations and discussions were centred on enhancing data collection, monitoring, and forecasting capabilities, as well as strengthening regional and national coordination.

A significant emphasis was placed on recognising the vital role women play in hydrology and identifying targeted actions to increase their participation and leadership in the sector. Participants also explored opportunities to leverage funding and align existing initiatives related to surface and groundwater hydrology.



Pacific WASH Webinars 2025 Proposed

	DATE	TOPIC & TYPE	CONTENT LEAD / FACILITATOR	SPEAKERS
1	early April	Panel discussion: smart and cash metering, Lessons from the Pacific	Dean Taylor	Scravin Tongi (Solomons Water) Sharon Lesa (SWA) Frederick Petit (UNELCO)
2	Late June	Climate resilience stories: Pacific Utilities and renewable energies	TBC - Pacific Young Water/ Wastewater Professional?	Tonga Water Board who have installed a solar farm (with UnityWater) Solar Alliance - Sandeep Kaur Singh <sksingh@isolaralliance.org> Chuuk Public Utility Corporation (combined water-energy utility)
3	Mid September	Pacific Water Utility Benchmarking: data for adaptive management - Collecting and using data for improved and sustainable services - Aligning JMP data with utility benchmarking data; Help utilities and data collectors understand the new portal and online system, and use he data	Bronwyn Powell	Kencho Namgyal (UNICEF) Berta Macheve / Shona Fitzgerald (World Bank) Manasa Tusulu (Water Authority Fiji)
4	29 October	Water utilities of the future: creating an organizational culture for success; This can cover: Customer-centric business models; customer engagement; community valuing piped water; links to utility behaviour change campaigns ; finance issues	TBC	Carmine Piantedosi (CEO)i or Lucy Habu (Manager Retail), Solomon Water Lisa Fragomeni – Engineering Services Partnership Manager, Yarra Valley Water William Tuivaga / Ine Sosene (To Tatou Vai, Cook Islands)

Upcoming Events

EVENTS	DATE

1. Ozwater'25 – Adelaide……20th – 22nd May
2. Government of Samoa Independence Day……01st June
3. Pacific Water & Wastewater Conference – Solomon Islands…… 25th – 29th August
4. New Zealand Water Conference – Christchurh……29th Sept – 3rd Oct
5. Fiji Day……10th October
6. Tonga Constitution Day 2024……4th November
7. 2025 UN Climate Change Conference (UNFCC COP 30)- Brazil……10th – 21st November
8. International Day for the Elimination of Violence Against Women 2025……25th November

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