WATERLINES

ISSUE 1, 2025

WATER TECHNOLOGY
WATER, COASTAL & ENVIRONMENTAL CONSULTANTS

resilient and adaptive solutions

STEVE CLARK
Managing Director

Welcome to our latest issue of Waterlines

The start of 2025 has seen the range of climatic extremes that our country can deliver – with the first tropical cyclone to make landfall in South East Queensland and Northern New South Wales since Zoe and Wanda in 1974, to the drought impacting South East Australia, which includes South East South Australia and Western Victoria, Western Tasmania and South West Western Australia.

First and foremost we have been ensuring that our staff, families, neighbours and friends have remained safe in these extreme conditions whilst we also aim to continue delivering services for our valued clients.

We have a team of professionals passionate about our environment and are working on areas of resilience and adaptation to climate change impacts across urban, rural and coastal settings.

Tropical Cyclone Alfred brought with it extreme winds, heavy rainfall and waves above 7m. Life was disrupted with so many people cut off by floodwaters and hundreds of thousands of households were without power. A lot of those people impacted directly by flooding was not for the first time - some are for the second or even third time in recent years. Our Flooding team were at the ready to help in whatever way they could.

There is also the impact that Tropical Cyclone Alfred had to the coastline that draws in so many tourists and is natures playground

to so many residents of South East Queensland and Northern New South Wales.

Our Coasts & Marine team have been assisting local governments where we can to progress the restoration of the beaches.

The situation down South is quite different with many areas in drought and farmers and residents under immense pressure with the driest 12 months on record or the driest for a generation. With the changing climatic conditions, our Climate and Risk Approvals team have been working with many local governments on the mapping of heat risks and potential solutions to mitigate against those risks. Our Groundwater Team have also been working with many clients on investigating and securing groundwater as a water source where surface water has become scarce.

The articles in this edition of Waterlines showcase our expertise and support during these extreme weather events across the country.

We also profile our Exchange Program, the events that our Water Techers have been to over the last three months and our new Chair of the Water Technology Board and our Principal Engineer in New Zealand.

Thank you for taking the time to read Waterlines and please do not hesitate to contact me or any of the Water Technology team at any stage if we can be of assistance.

"We have a team of professionals passionate about our environment, and are working in areas of resilience and adaptation to climate change impacts across urban, rural and coastal settings."

Emergency Beach Sand Replenishment

Following Tropical Cyclone Alfred in the Gold Coast

Tropical Cyclone Alfred was a significant weather event earlier this year that damaged infrastructure and the environment with destructive winds, extreme rainfall and flash flooding across South East Queensland. Such events are rare locally; the only comparable event in living memory is the 1954 Gold Coast Cyclone, a Category 3 system that caused widespread damage.

Tropical Cyclone Alfred developed in mid-February when a low formed off Cairns. The cyclone approached South East Queensland as a category 2 event with gust wind speeds estimated at 155 km/h. It stalled on approach and caused strong winds for around 3 days in South East Queensland and North East NSW. The cyclone weakened as it eventually crossed the coast to the north of Moreton Bay as an ex-tropical cyclone on the evening of 8 March 2025. Residents and businesses across South East Queensland experienced damage to properties as well as sustained electrical power loss.

Tropical Cyclone Alfred eroded the ocean beaches from South East Queensland to North East New South Wales. This was caused by the wave height from combined seas and swells and abnormally high tides due to the lower air pressure.

Three million cubic metres of sand have been eroded from the Gold Coast beaches and dune system, with the sand redistributed in a large offshore sandbar, stretching tens of kilometres along the coast. But the sand is not locked on the sand bar forever. Over time, natural coastal processes; including tides, waves and wind; will redistribute the sand on the upper beach, reforming a wide beach and dunes. However, these natural processes can take months and years to occur, depending on wave conditions. During that time, any infrastructure becomes vulnerable to further storms. Also, the beach amenities are compromised which has a flow down effect on the Gold Coast community, businesses and economy.

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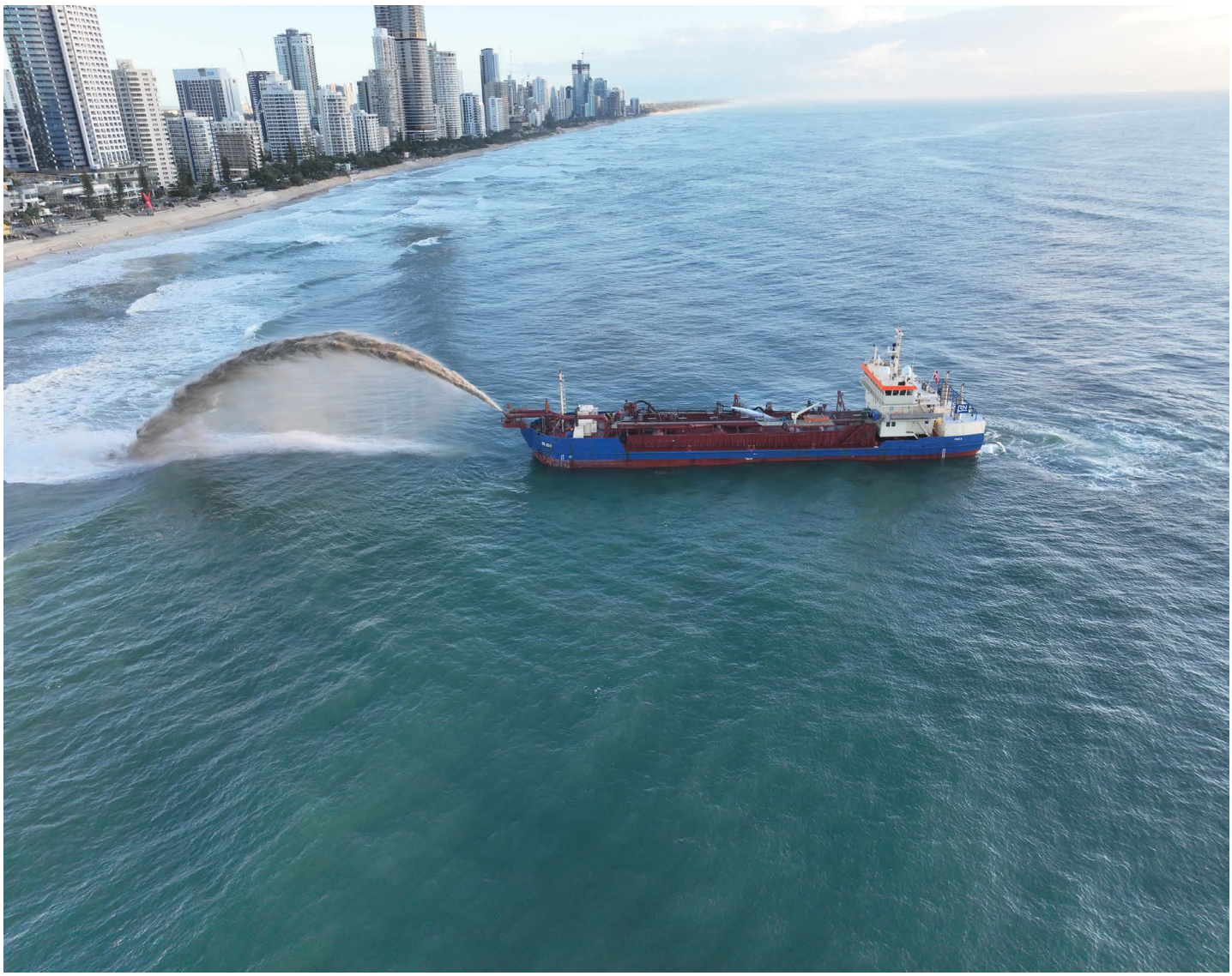
The City of Gold Coast is a world leader in coastal management. As the cyclone occurred, the City of Gold Coast triggered a Beach Recovery Program. A critical element of this Program consisted of resuming sand nourishment operations to accelerate the natural recovery of the beach and mitigate beach erosion risks associated with any following storms.

To make this happen, the City of Gold Coast leveraged Water Technology's national Coasts and Marine team to deliver the recovery efforts including:

- Justify, develop and deliver the beach nourishment design
- Prepare and negotiate a dredging and nearshore nourishment contract and engage the contractor
- Gather and modify necessary environmental permits and approval with the relevant authorities
- Provide superintendency representation services for the works



The Rohde Nielsen trailer suction hopper dredge (Trud R) vessel was opportunistically nearby and could be deployed to the site. The vessel has been working 24 hours a day and 7 days a week, since the 4th April, less than a month after the cyclone, which is unprecedented.

Nearshore nourishment technique has been adopted for the works. This consists of dredging sand in deepwater and placing the sand in the surf zone, where coastal processes can naturally widen the beach and reform dunes. A combination of rainbowing (sucking up the sand and shooting it in an arc through the air towards the beach) and bottom dumping placement is used to place the sand back on the active foreshore.

By the end of April already 120,000 cubic metres of sand has been deposited along the Surfers Paradise Hardstand, one of most vulnerable areas of the coast. The nearshore beach nourishment is expected to continue for several months, extending the benefits to other areas and supporting the long-term Gold Coast coastal management actions.

Our team look forward to continuing our partnership with the City of Gold Coast for the beach recovery, monitoring and management efforts both in the short and the long term.

Kangaroo Island Natural Disaster

Risk Mitigation Action Plan Development

In December 2019, lightning strikes during the scorching Summer started wildfires which affected an area of around 200,000 hectares on Kangaroo Island, South Australia, in what has become known as the Black Summer.

The disaster was at a level never experienced in recorded history on Kangaroo Island before, with the bushfires significantly impacting the landscape, wildlife and the community.

The devastating bushfires brought attention to the importance of placing effort and action on natural hazard and risk considerations for the Island to avoid and/or mitigate future social, physical, economic and environmental impacts of such events.

Therefore, the Kangaroo Island Council set a goal to reduce vulnerability and exposure to hazards, as a key pathway to increasing resilience.

To achieve this, Council felt that a coordinated approach between local, State and Commonwealth agencies was needed to better plan, prepare and mitigate the risk of natural disasters for the Kangaroo Island community.

Kangaroo Island Council engaged Meridan Urban and Water Technology to help them develop a whole of island Natural Disaster Risk Mitigation Action Plan.

This involved co-designing the approach with Council to focus on the following activities:

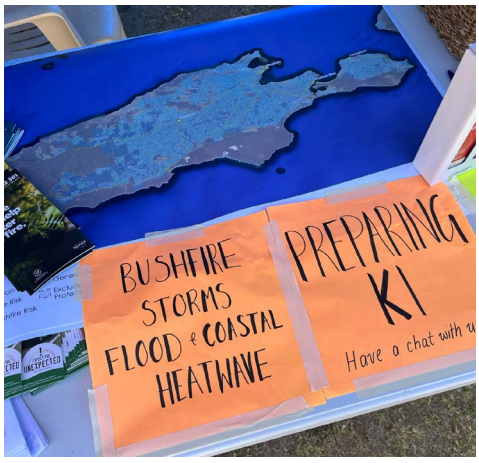
- Collation of existing actions contained in more than 40 strategic and operational documents across different hazards – local, regional and state. This resulted in 253 actions that related to disaster management, risk reduction, climate change or resilience.
- Categorisation of actions by:
  - Relevance – major, moderate or minor (statutory was major)
  - Alignment with various frameworks
  - Topic: emergency management, risk management
  - Type of hazard: fire, flood, coastal
  - Type of action: data capture, HR, infrastructure, public programs
  - Whether the action is strategic or tactical.
- The 253 actions were then synthesised into 54 actions through:
  - Defining action roles and responsibilities
  - Merging duplicate actions and consolidating aligned actions into programs of works
  - Removing outdated actions.
- Community consultation was undertaken on the consolidated list of actions to obtain feedback, input and priorities of the local community and businesses
- Prioritisation of the 54 actions was undertaken by considering community values, actions that may yield multi-hazard resilience outcomes and cost-benefit analysis results

The outcomes of the project included a prioritised and fully costed whole-of-Island Action Plan aligned to the National Disaster Risk Reduction Framework that provides Council and its partner agencies with a unified and coordinated plan that can better help prepare the local community.

This action plan provides Council and its community with a single source of truth by which to make future decisions and investment. The Action Plan will inform Council's Annual Business Planning process, Capital Works expenditure, grant funding opportunities and public-private partnerships for future investment in natural disaster risk reduction.

The project won the Planning Institute of Australia's – SA Branch – 2024 Award for Planning Excellence in the Climate Change and Resilience Category.

The outcomes of this work are based on the engagement conducted on the lands and waters of the Mandandanji people, and we acknowledge the wisdom, knowledge and connection to Country that we strive to learn from.



Supporting Remote Communities

To Secure Water Supplies

The remote Aboriginal community of Numbulwar is situated on the Gulf of Carpentaria, approximately 440 km east of Katherine in the Northern Territory. Home to around 800 people, the community is reliant upon groundwater sourced from Quaternary coastal sands in palaeochannels west of the community.

In response to ongoing concerns about the long-term reliability of the existing borefield, Federal funding was obtained from the National Water Grid Authority and the Bores for the Bush program to enable an investigation to be undertaken with the objective of securing the future water supply for the community.

With Water Technology's recent acquisition of Innovative Groundwater Solutions Pty Ltd. on 1 December 2024, our nationally recognised groundwater team, specialising in regional and remote water supply strategies, was engaged to lead the technical investigation. The program, commissioned by Power and Water, aimed to assess both the potential to extend the current borefield and the viability of alternative groundwater sources.

The proposed program included investigation sites adjacent the current coastal borefield, and additional sites in Cretaceous sediments several kilometres to the north of the community. Our Groundwater team managed and supervised the drilling program, and designed, supervised and analysed results of aquifer pumping tests, both of which were performed by Northern Water Services.

Neadurrin Murrungun, a Traditional Owner from the Numbulwar region, visited as a cultural advisor whilst drilling was in progress and expressed strong interest in the project and its importance for the community's water supply.

The project resulted in five new groundwater production bores and 11 new groundwater monitoring bores. The new borefield to the north of the community is expected to significantly enhance the water supply capacity and provides an important alternative strategy for potential water quality degradation of the existing borefield due to future contamination or seawater intrusion. Work continues by Power and Water on the integration of the new production bores into their water supply operations for the community. The ability to cycle through the different production bores will help with the recovery of the groundwater levels and enable a sustainable supply to be maintained into the future for the community.

Water Technology's Groundwater team is currently working on similar water supply investigations throughout Australia, including other remote Aboriginal communities as well as major road, infrastructure, energy and mining projects.

The Emerging Hazard of Heat

New Ways of Assessing and Preventing the Impacts

Extended periods of extreme heat, known as "heatwaves," pose a major threat to the environment, infrastructure, and to human health and productivity, now and in the future. Heatwaves are already responsible for more deaths than any other natural hazard in Australia, often being referred to as the silent killer. The dangers of heat are recognised across various policy areas at federal, state, and local levels, as well as by industry and community organisations.

Improving our understanding of the factors driving heatwave risk is essential for developing effective place-based mitigation and adaptation strategies, emergency response planning, and for directing limited human and financial resources to where it will have the most beneficial effects.

The risk and impact of extreme heat is set to increase as climate change leads to higher intensity and more frequent heatwaves, exacerbated by increasing population density in urban areas.

In recent years, Water Technology has been pioneering and evolving our approach to heatwave risk assessment, founded on a robust evidence-based framework and supported with novel tools and visualisations. Two examples of heat risk assessments recently completed by Water Technology are described in this article.

Warrnambool Extreme Heat Vulnerability Assessment

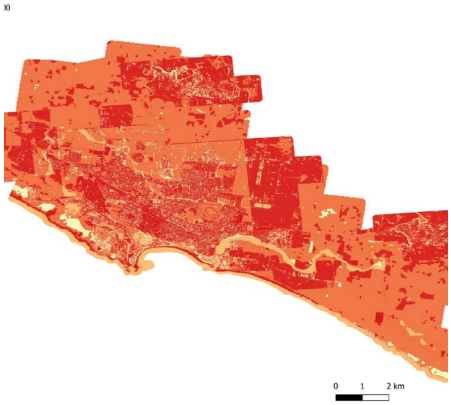
Water Technology was engaged by Warrnambool City Council to complete an investigation into extreme heat vulnerability and mitigation approaches across the Warrnambool Local Government Area.

Council recognised the importance of investigating the degree to which the Warrnambool community and urban systems are exposed and vulnerable to extreme heat, both now and into . the future, especially with projected changes to the climate. The information was needed to update Council policies and plans and to help prepare for and mitigate the impacts of extreme heat. Warrnambool City Council is leading the way in regional Victoria in this regard.

This project utilised a suite of methods, including data and spatial analysis, heat hazard modelling and mapping, stakeholder engagement to provide Council with a strong, data-informed basis for budget prioritisation, emergency management, urban planning policy, and resilience building.

The comprehensive approach involved:

- Obtaining land surface temperature data
- Calculating a universal index of thermal comfort based on historic heatwave events
- Modelling climate change impacts on heat hazard in the region



- Analysing the vulnerabilities of communities based on demographic indicators to identity priority areas
- Commencing to build connectivity with urban system stakeholders from water, power, emergency services, health and telecommunications.

The heat hazard maps were produced at a scale suitable to enable identification of place-specific risk reduction measures to inform the development of a cool refuge plan and a preliminary urban forest plan. The Council are now progressing with their plans and associated actions to reduce the heat hazards in the most vulnerable areas.

Heat Risk Methodology Development for the Western Sydney Regional Organisation of Councils

Due to its geography, Western Sydney experiences significantly higher temperatures than coastal Sydney. At the same time, its green spaces are rapidly urbanising. While the impacts of heat are already being felt across the area, heat hazard is often overlooked in climate change adaptation and planning response as an 'invisible' climate risk.

The Western Sydney Regional Organisation of Councils (WSROC) represents and advocates for the diverse local communities in Greater Western Sydney, including the member councils of Blacktown City Council, Blue Mountains City Council, Cumberland City Council, Hawkesbury City Council, Lithgow City Council and Liverpool City Council. WSROC is also a leader in planning for and building resilience against heat risk.

They released the "Heat Smart Resilience Framework" in 2022, which highlighted the lack of detailed guidance on risk assessment for heatwaves compared to hazards like fire, flood and coastal erosion. The Framework emphasised the need for local heatwave risk assessments to build risk awareness and to inform and evaluate the effectiveness of heat risk management strategies.

In 2023, WSROC established a Greater Sydney Heat Taskforce, which developed the Greater Sydney Heat Smart City Plan: a five-year program (2025-2030) which aims to address the risk of extreme heat in Sydney. As part of the initiatives to help develop the Greater Sydney Heat Smart City Plan, WSROC appointed Water Technology to develop and pilot a place-based heatwave risk assessment and mapping methodology.

A co-design process with Local and State Government organisations was used to develop the methodology which incorporated:

- NSW's first probabilistic heatwave hazard assessment, associating heatwave frequency (or Annual Exceedance Probability, AEP) and intensity in the same way in which this is typically done for other natural hazards such as flood or earthquakes;
- A vulnerability index that encapsulates the key community attributes known to affect heatwave resilience, which was developed based on Australian and international literature; and
- Minimisation of data requirements to enable consistency and simplification of application without compromising on accuracy. For example, the vulnerability index is calculated based on ABS census data available at the Statistical Area 1 (SA1) scale.

The methodology was piloted by three selected Councils in NSW: Blacktown, Hawkesbury and Willoughby. These were chosen because they represent a variety of urban and rural landscapes and present different geographic settings (coastal vs inland). This helped ensure that the methodology developed could be applied to virtually any Local Government Area in NSW without having to undergo any structural amendments.

The outcome was a methodology which provides a systematic approach to assess, map and prioritise heatwave risk in NSW Local Government Areas, with a focus on community health and wellbeing. An interactive data visualisation dashboard was also prepared as part of the project. The methodology enables Councils to routinely assess the effectiveness of measures put in place to reduce local heatwave risk.

The Heatwave Risk Assessment methodology was presented by Water Technology at the launch of the Greater Sydney Heat Smart City Plan 2025-2030 in December 2024, and received interest from multiple stakeholders including local and state government. Options to roll-out the methodology to more NSW Councils are currently being investigated.

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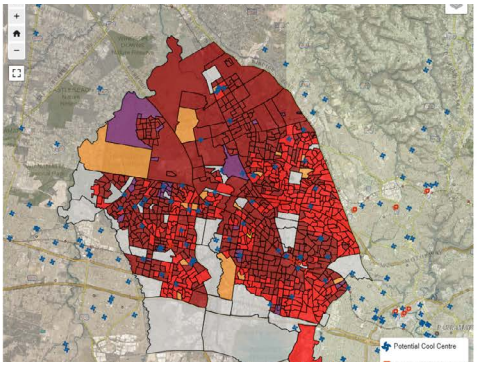
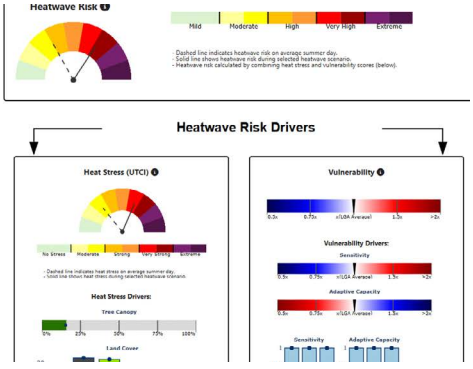




Exchange Program
2024 Highlights

The Water Technology Exchange Program offers a fantastic opportunity for our staff to spend two weeks in one of our National offices. This enables them to immerse in a different regional team, helps to build face to face connections with colleagues, experience life in a different city and work on different projects.

The Exchange Program is all about fostering professional development and encouraging collaboration across our offices and teams. These face-to-face interactions lead to deeper knowledge sharing, fresh perspectives and lasting professional relationships.

The following seven Water Techers embarked on their exchanges in 2024:

- Courtney Smith, Coastal Scientist, travelled from New South Wales to Queensland
- Callym Dunleavy, Urban and Environmental Planner, travelled from Queensland to New South Wales
- Kusalika Ariyarathne, Project Coastal Engineer, travelled from Western Australia to Victoria
- Erin Medland, Scientist, travelled from Queensland to Victoria
- Louis North, Engineer, travelled from Queensland to Western Australia
- Narelle Poole, Project Coordinator, travelled from Queensland to
- Western Australia
- Stephanie Phillips, Scientist, travelled from Victoria to New South Wales

While continuing to work on project work, some of the Water Techers also took the opportunity to attend local events:

- Louis North attended a Groundwater Dependent Ecosystems Workshop and a Stormwater WA networking event
- Narelle Poole initiated and arranged a local client workshop to talk about managed retreat

The 2024 Exchange Program was an incredible success and we are excited about offering this amazing initiative in 2025.

Above: Narelle in WA

Above: Louis with Claire in WA

Above: Kusalika touring in VIC

Above: Erin with the team in VIC

Above: Courtney with the team in QLD

Above: Louis with Chris in NSW

Out and About

February - April 2025

Conferences

WA Wetlands Conference
Perth
6th and 7th February 2025

Now in its 21st year, the WA Wetlands Conference is held to commemorate World Wetlands Day and brings together experts, practitioners, and enthusiasts to address critical issues facing our wetlands.

Water Technology presented three papers at the event:

- Chris Charles, Senior Principal Spatial Analyst, presented on 'Mapping wetland vegetation using a bird's eye view'.
- Johanna Slijkerman, National Lead – Waterways and Ecology, presented on 'Vegetation response after the exclusion of feral animal grazing in Barmah Forest Ramsar wetland'.
- Claire Fitzpatrick, Project Scientist, presented a poster titled 'An Elevated Understanding of Wetland Data'.

Victorian Biodiversity Conference
Melbourne
11th and 12th February 2025

The annual Victorian Biodiversity Conference showcases biodiversity research and management projects in Victoria and is organised by a team of postgraduate students and professionals from various Victorian universities, government agencies and companies. The program included workshops, key note speakers and many insightful presentations on emerging ideas and latest research findings. Stephanie Phillips, a Water Technology scientist, attended and presented a poster on "Vegetation Changes Following Grazing Exclusion In Moira Grass Wetlands At The Barmah Forest Ramsar Site".

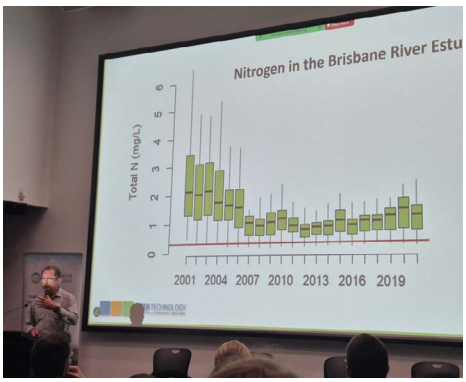
Queensland Water Summit
Brisbane
19th February 2025

The inaugural Queensland Water Summit connected professionals and key stakeholders across Queensland's water cycle from the areas of water supply, stormwater, wastewater and catchment and waterway management. The challenges facing our water industry were discussed and cross-disciplinary solutions to our many pressing issues were sought. Tony McAlister (Water Technology Director and State Manager - Queensland) presented in a session on urban stormwater management and discussed ideas around opportunities for improvement.

Floods, Erosion and Catchment Management NZ Conference
Auckland
4th and 5th March 2025

The New Zealand Floods, Erosion and Catchment Management Conference brings experts, policy makers, and stakeholders from diverse fields together to address critical issues related to flood resilience, erosion control, and sustainable catchment management. By fostering collaboration among stakeholders, promoting knowledge sharing, and showcasing best practices, the conference contributes to building a more resilient and sustainable future. Water Technology employees, Bertrand Salmi and Carl Wallis, attended the conference in Auckland and enjoyed hearing about a wide range of topics, from modelling to nature-based solutions. Water Technology was a proud sponsor of the conference.

Above: Claire with her poster at the WA Wetlands Conference



Above: Tony at the Queensland Water Summit

Above: Carl at the Floods, Erosion and Catchment Management Conferenece

Early Career Events

Water Technology are proud to support University students and early career professionals through attending career expos, having conversations to help answer questions and describe experiences and providing student placements.

Over the last few months Water Technology representatives have attended a range of career events including:

- University of Queensland Career Expo
- Engineers Australia Elevation Event
- RMIT Civil Engineering Student Association Industry Day
- Griffith University Careers Fair
- Melbourne University Environmental Engineers' Society (MUEES) Industry Event
- Monash Association of Civil Engineering Students Event
- Monash Environmental Engineering Society Industry Night
- University of Sydney Geoscience Society Sustainable Careers Networking Evening
- RMIT Environmental Engineering Student Association Industry Speed Networking Night

They were great opportunities to meet students and chat about career paths, share stories and make connections to help our next wave of industry talent achieve their career goals. Our talent team are also open for Q&A from students and early career professionals outside of these events.

Thank you Erin Medland, Alex Smeros-Xynias, Bonnie Beare, Andrew Bezzina, Jean Luan Yong, Abi Satria Praga, Lihao Zhi, Christopher Beadle, Filippo Dall'Osso, Rohan King, Callym Dunleavy, Alyssa Di Michele and Hai Nguyen for attending the events and inspiring the next wave of environmental professionals.

Research Project Kick Off Meeting in NZ

Water Technology, in partnership with HydroLogic and the NZ Met Service have secured a grant to undertake a two year research in action project in New Zealand titled Service for Advanced Flood Emergency Response (or SAFER). Water Technology representatives Brian Jackson, Warwick Bishop and Bertrand Salmi attended the project kick off meeting in March with the project partners and Waikato Regional Council, the main project beneficiary. The project will involve Water Technology's WISE Water and Storm Risk Tools, Tuflow Modelling, Machine Learning and flood task management to enable improved access to data sources and flood risk warning systems.

The project team were also able to meet with the National Flood Warning Steering Group and explore some of the catchments that the tools will be trialled in.

Board Member Profile

Warwick Bishop

Warwick Bishop is an engineer with extensive experience in surface water management, leading projects in flood risk, water quality, sediment transport, and Water Sensitive Urban Design. He has a long history of contributing to the industry through participation in committees and attendance at conferences and seminars.

Warwick commenced with Water Technology in 2003 and has had roles including Regional Manager-Victoria and has been a Director since 2009. Most recently Warwick has been appointed as Chair of the Water Technology Board, effective 1st January 2025. Warwick is delighted to take on the role and continue to provide strategic oversight of Water Technology's future direction. This task continues the great work of founder, friend and mentor, Dr Andrew McCowan.

We are all grateful and thankful to Andrew for his inspirational leadership, and the exemplary values that he has instilled in us all.

After accepting the role of Chair Warwick said, "Whilst Water Technology has grown and evolved over the last 25 years, thanks to Andrew's strong personal influence, we have always strived to stay true to our values and ambitions. Water Technology is a people-focussed organisation, delivering great work on interesting, challenging and meaningful projects; in a supportive, collaborative and engaging workplace environment. This is Andrew's legacy and something the Board, leadership team and whole organisation has the opportunity to carry forward."

Warwick also leads a team in Water Technology with a broad range of expertise that can investigate and address water and environmental issues in urban and rural catchments. Warwick also has a passion for innovation and contributing to the research community through participation in collaborative partnerships such as the One Basin CRC.

Outside of work, Warwick has many interests and you may find him on his road bike, sailing the seas or restoring a farm property in regional Victoria.

Staff Member Profile

Bertrand Salmi

Bertrand Salmi is an experienced stormwater professional, who has worked as a researcher, in local government and also as a consultant. Bertrand relies on both his ecological and water resource engineering background to undertake hydraulic and environmental studies, often leading multi-disciplinary projects.

Bertrand is Water Technology's lead engineer in New Zealand and continues to support the delivery of projects on either side of the Tasman Sea.

Bertrand loves the interface between humans and the environment. His job allows him to work closely with a wide range of stakeholders (community members, developers, authorities) and he gets excited about delivering results that are meshed to the local conditions whilst also resulting in both environmental and economic benefits (for our clients).

One of Bertrand's favourite projects to have worked on in his career so far is the restoration of the Fotheringham Billabong in Dandenong where he was able to work on the project from start to finish. He secured external funding to help the restoration works and also joined the volunteer group for the reserve. Currently he is helping on a project with Giant Gippsland Earthworms which sounds fascinating and will no doubt become memorable too.

In his spare time, Bertrand enjoys being in the outdoors and on his kayak (waka) – either enjoying the serenity on his own or with his two children (Tamariki). One of his favourite spots to kayak is Whangarei Harbour, where there is wild bush to the north and a massive refinery to the south. With the time zone difference he is often able to sneak in a kayak before anyone starts work in our Australian offices.

Bertrand's advice to anyone just starting out on their career journey is "everything you do will pay off... this obscure skill that you have, this random connection that you made, the mistakes that you make, will prove useful someday... just maybe not in the way you first envisaged."

Office Locations

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Eastwood
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Fremantle
WA 6160

DARWIN
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Darwin City
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GEELONG
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Newton
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WANGARATTA
40 Rowan Street
Wangaratta
VIC 3677

WIMMERA
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Stawell
VIC 3380

GOLD COAST
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SUNSHINE COAST
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