



Minutes

Meeting of: Stormwater Group Annual General Meeting

Date and Time: Thursday, 27th May 2020, 5:15pm

Venue: Zoom

1. In Attendance

James Reddish, WSP, (Chair)
Kate Purton, Beca, (Deputy Chair)
Aidan Cooper, GHD, (Committee)
Gretel Roberts, Fonterra, (Committee)
Jon Rix, Tonkin & Taylor, (Committee)
Sarah Sutherland, Link Alliance, (Committee)
Kalyan Chakravarthy, DHI Group, (Committee)
Stu Farrant, Morphum, (Committee)
Peter Christensen, Christchurch City Council, (Committee)
Emily Afoa, Tektus, (Committee)
Frances Charters, University of Canterbury, (Committee)
Kevin Jonathan, Stormwater 360, (Committee)
Hannah Breeds, Stantec, (Committee)
Katrina Guy, Water New Zealand, (Minutes)
Kelvin Hill, Water New Zealand, (Board President)
Gillian Blythe, Water New Zealand, (Chief Executive)
Noel Roberts, Water New Zealand
Renee Butler, Water New Zealand
Salina Poudyal, Christchurch City Council
Allan Leahy, Stantec
Matthew Lillis, Hamilton City Council
Darren Tiddy, Stormwater 360
Bronwyn Rhynd, CKL Surveys Ltd
Troy Brockbank, WSP
Carlo Gorisson, Teltherm
Mike Law, Beca
Angela Pratt, Beca
Kristine Lim, WSP
Wayne Hodson, Stantec
Radleigh Cairns, Tauranga City Council
Geoff Letcher, Quadbeam

Liam Foster, WSP
Linda Norman, Ach Consulting
Steve McIntosh, RainPro
Damian Young, Morphum
Vicki Koopal, Jeff Booth Consulting
Amir Montakhab, Auckland City Council
Mathew Chandran, WSP
Michael Hannah, Stormwater 360
Andrew Olsen, Stormwater Systems
Claudia Hellberg, Tauranga City Council
Clare Feeney, Environmental Communications Ltd
Annis Raea, WSP
Bodo Hellberg, Tauranga City Council
Alistair Allan, WSP
Joel Mason, Pump and Valve
Kristin Stokes, Jacobs
Josh Irvine, WSP
Ben Devenney, Pump and Valve
Scott Judd, Cirtex
Tony Miller, WSP
Mark Groves, WSP
Peter Mitchell, WSP
Yonghee Park
Robert Kelly, Aurecon Group
Michael Sorensen, Cirtex
Adnan Zameer
Mike Zollner, WSP
David Pattinson
Shanyn Curry, WSP
Chris Blind, Enable Consulting
Bryan Tutor, WSP
Adam Roth, WSP
Loudette Dandoy, WSP
Warren Bird, WSP

2. Apologies

Sarah Boone, Ministry for the Environment
Hamish Jones, Pattle Delamore Partners



	<p>Shaun Jones, Tonkin & Taylor Zeb Worth, Arup NZ Ltd Wolfgang Kanz, Gisborne District Council Chris Stumbles, Auckland City Council David Buttenshaw, Kaipara District Council</p>
3.	<p>Previous Minutes The minutes of the AGM held on 2 May 2019 in Auckland were approved. Confirmed – Kalyan Chakravarthy Seconded – Kate Purton</p>
4.	<p>Chairperson's Report James Reddish thanked everyone present for attending and acknowledged the commitment of both Committee members and the wider group on projects throughout the year. He presented the Chairs report – copy attached. Special recognition to the conference committee team Kate Purton (Conference Committee Chair), Sarah Sutherland, Hannah Breeds, Wolfgang Kanz, Gretel Roberts and Katrina Guy. Thank you from all of us. Thank you on behalf of all the delegates for making it such a success on trying times.</p>
5.	<p>Election of Management Committee</p> <ul style="list-style-type: none">🗳️ Election: due to the online function of the AGM and limitations of the technology, elections were determined through notification of objections in the comments portal of the Zoom meeting.🗳️ Seven current committee members stood down Dragan Tutilic, Sarah Sutherland, Hamish Jones, Jon Rix, Sarah Boone, Shaun Jones, Zeb Worth.🗳️ Nine members re-standing: Aidan Cooper, GHD; Wolfgang Kanz, Gisborne District Council; Kate Purton, Beca; Stu Farrant, Morphum; Frances Charters, University of Canterbury; Chris Stumbles, Auckland Council; Peter Christensen, Christchurch City Council; Gretel Roberts, Fonterra; Hannah Breeds, Stantec.🗳️ One new nomination received from Clare Feeney. Nominated by James Reddish and seconded by Troy Brockbank.🗳️ No objections to the nominations were received. <p>The Chair thanked outgoing committee members and welcomed incoming members. The committee for 2020/2021 was therefore confirmed as:</p> <ul style="list-style-type: none">🗳️ Kate Purton🗳️ Peter Christensen🗳️ Gretel Roberts🗳️ Wolfgang Kanz🗳️ Hannah Breeds🗳️ Frances Charters



	<ul style="list-style-type: none">🗳️ Kevin Jonathan🗳️ Aidan Cooper🗳️ David Buttenshaw🗳️ Emily Afoa🗳️ Kalyan Chakravarthy🗳️ Stu Farrant🗳️ Chris Stumbles🗳️ Clare Feeney🗳️ James Reddish
6.	<p>Election of Chair and Deputy Chair</p> <ul style="list-style-type: none">🗳️ By unanimous recommendation and vote, Kate Purton was Chair and Peter Christensen elected Deputy-Chair. 🗳️ No objections to the nominations were received.
7.	<p>Stormwater Awards Announcements</p> <p>Kelvin Hill briefly referenced the importance of the awards, the importance of encouraging young professionals to enter the water industry, and Water New Zealand having a role in achieving this. He encouraged unsuccessful award nominees to resubmit again for next year.</p> <p>Hannah Breeds noted four awards each judged by a separate panel of independent industry practitioners, including last years winners. Hannah thanked all the judges and thanked Katrina Guy for the work behind the scenes. Hannah noted a high number of high quality applications received this year.</p> <ol style="list-style-type: none">1. Innovation Award – Copy of Citation attached Winner – FenceTank from Stormwater Systems Andrew Olsen accepted the award Highly commended – Tauranga City Council Four Winds Manhole cover Bodo Hellberg accepted the award2. 2020 Stormwater Paper of the year – copy of citation attached Winner – Does you detention meet your intention. Collaboratively written by Mark Groves, WSP; Bodo Hellberg, Tauranga City Council; Brendon Schicker, WSP and Warren Bird, WSP. Mark Groves accepted the award3. 2020 Young Stormwater Professional of the Year – copy of the citation attached Matthew Lillis, Engineering Leadership Services4. 2020 Stormwater Professional of the Year – copy of the citation attached Clare Feeney, Environment Communications Ltd <p>Physical awards will be handed out at the Water Conference.</p>



<p>8.</p>	<p>General Business</p> <p>Terms of Reference – copy attached</p> <p>Circulated with the agenda was a draft updated term of reference. Generally, the terms of reference have remained the same but will be used as a living document and updated as required.</p> <p>A mission statement has been added. Troy Brockbank suggested incorporating the Water New Zealand’s vision statement.</p> <p>Feedback on the Terms of Reference can be made throughout the year to Katrina Guy.</p> <p>Stormwater Conference 2021</p> <p>After not being able to secure a guarantee that the booked Auckland venue would not be used as a COVID-19 isolation venue, it has been decided to hold the Stormwater Conference in Tauranga at Baypark. The dates will be 11th to 14th May 2021.</p>
	<p>AGM Closed 6pm</p>



Chairs 2019/2020 Report for the Water New Zealand Stormwater Group

Welcome

Welcome to the Stormwater Group AGM for 2020. I'm James Reddish, Chair of the Stormwater Group Committee.

I would like to start with a few acknowledgments and thanks. Firstly, to the Conference Committee team. Kate Purton, Conference Committee Chair, Sarah Sutherland, Hannah Breeds, Wolfgang Kanz, Gretel Roberts and Katrina Guy. Thank you from all of us. I know at times a frustrating, challenging and stressful experience but thank you on behalf of all the delegates for making it such a success in difficult circumstances.

The rapid nature of the change to online and the first time we have delivered in this manner meant there was going to be the odd hiccup. However, my experience the overall platform and its support have delivered fantastically. I would like to recognise the agile and tentative support by Avenues Event Management and Vidcom, who performed wizardry beyond my comprehension at times. I would also like to thank the paper reviewers, presenters, judges and session chairs who volunteered their time to make this a success. And finally, the wider team at Water New Zealand lead by Gillian Blythe and the Water New Zealand Board, who listened, supported, challenged and remained focused on industry needs.

The Stormwater Group acts to represent the membership of Water New Zealand in the stormwater industry. The Stormwater Group's key objectives include:

- 🔗 Assist in the definition and promotion of best industry practice for the management of stormwater within New Zealand.
- 🔗 The advancement of stormwater operation and management in order to:
 - 🔗 Enhance the environment, and
 - 🔗 Protect people and assets.
- 🔗 To disseminate information related to stormwater issues
- 🔗 To provide a forum for the discussion of stormwater management issues
- 🔗 To promote and undertake projects in areas of common need and interest
- 🔗 Assist and provide comment on national industry standards and policies
- 🔗 To promote lines of communication within all sectors of the stormwater community
- 🔗 To promote education and public understanding of stormwater issues

The membership elect a management Committee, who in 2019/2020 was made up of 21 stormwater practitioners. These individuals volunteered their time to deliver the objectives and the Work Plan for the Group.

I would like to start by recognising the efforts of the Committee members and the organisations they work for, in their commitment to supporting the advancement of the industry in New Zealand.

- 🔗 Aidan Cooper, GHD
- 🔗 Chris Stumbles, WSP
- 🔗 Dragan Tutlic, WSP
- 🔗 Frances Charters, University of Canterbury
- 🔗 Emily Afoa, Tektus



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- 👤 Gretel Roberts, Fonterra
- 👤 Hamish Jones, PDP
- 👤 Hannah Breeds, Stantec
- 👤 James Reddish, WSP
- 👤 Jon Rix, Tonkin & Taylor
- 👤 Kate Purton, Beca
- 👤 Kalyan Chakravarthy, DHI
- 👤 Kevin Jonathan, Stormwater 360
- 👤 Peter Christensen, Christchurch City Council
- 👤 Sarah Boone, Ministry for the Environment
- 👤 Sarah Sutherland, Link Alliance
- 👤 Shaun Jones, Tonkin & Taylor
- 👤 Stu Farrant, Morphum
- 👤 Wolfgang Kanz, Gisborne District Council
- 👤 Zeb Worth, Arup

I would also like to recognise the contribution of Katrina Guy, Mumtaz Park and Noel Roberts of Water New Zealand who all contributed to the delivery of the Work Plan this year.

Being a member of the Committee is a big commitment and I really do appreciate your contributions.

Work Plan

The Stormwater Group delivered the work plan as four subgroups”

1. Policy and Technical subgroup
2. Education and Training subgroup
3. Conference Committee
4. Communication and Engagement subgroup

The Stormwater Group Work Plan for 2019/2020 was endorsed by the Water New Zealand Board. In a hugely challenging year, the committee made fantastic progress in delivery it.

Across the subgroups the following was achieved during the year.

Policy and Technical

The Committee prepared a submission to the Government on the essential freshwater action for healthy waterways proposal. This was a significant undertaking for the group. Working collaboratively with Auckland Council Healthy Waters and Friends of the Committee. The close working of the Friends of the Committee was particularly effective and enable sharing of key messages with other organisations around the country ahead of the submissions. This helped to drive consistent industry messaging.

Education and Training

The Education Training Sector Plan was endorsed by the Water New Zealand Board. The Committee received funding from the Board to support engagement with wider industry on the training plan. Both the training and communications subgroups meet with a range of organisations to both communicate the framework, the strategic training framework and prompt boarder collaboration, as Kelvin mentioned



earlier in his address this morning. We meet with IPEWA, Engineering New Zealand, universities, local and regional councils, regional forums and Ministry for the Environment.

The overall feedback from the training plan was very supportive. Recognising the benefits of a strategic framework. The Committee will be supporting Mumtaz Parker, Training Development Manager for Water New Zealand, in actioning education and training outcomes from this engagement, through the work plan into next year.

Engagement and Communications

COVID-19 limited the number of regional meetings the Committee was able to organise this year.

Stormwater regional meetings were held in Auckland, Wellington, Christchurch and the Hawkes Bay.

A full day Water Sensitive Design seminar was held in Tauranga. Thanks in large part to the driving force of Claudia Hellberg. Both Claudia and Wolfgang Kanz in Gisborne have both been local champions for creating regional forums to discuss issues and share knowledge.

Our industry is made up of people passionate about the water environment and moving forward the Committee needs to identify the Claudia's, Wolfgang's in other regions and give them the support they need to deliver locally.

The reduction in face to face meeting opportunities in the second half of this year lead the Committee to utilise the Water New Zealand webinar series to facilitate knowledge sharing to a wider audience.

The Committee has setup two tools this year to support collaboration and communication. A Committee sharepoint page for knowledge sharing and action tracking. Next term provides an opportunity to facilitate actions and collate outcomes. And a national stormwaters behaviour online portal. Public education of stormwater remains piecemeal and local driven. The Committee has set up the portal in Microsoft Teams to collect existing education material about stormwater behaviours. Once data gathering is undertaken, a gap analysis is intended with a pitch for central government funding.

The Stormwater Group have delivered a number of thought leadership pieces through the committee has held information meetings with related sectors, such as landscape architects. Feedback is that there is a strong appetite for a national collaboration forum.

The Committee has supported Water New Zealand in drafting an updated Terms of Reference for the Committee, which we will cover later in the AGM.

Conference

Finally, supporting Water New Zealand in delivering a successful Stormwater Conference is a key objective of the Stormwater Group Committee. It is no small undertaking. As you might imagine this year has been particularly challenging for the Conference Committee. They have had to contend with major challenges in postponement, as well as a last-minutes change to a fully online conference. The team has accepted each challenge and adapted and put in a huge amount of additional effort to make the conference a success.



A few key stats. We had 428 delegates at the conference. That is the most we have ever had. In a year of financial constraints, 428 is quite outstanding. We had 100 additional delegates attending days or individual sessions. Showing the real benefit of the approach we had this year. We had 43 speakers and 61 exhibitors.

Of course, there are areas to improve but under the circumstances, I am both amazed and delighted with how this has turned out. The potential for the Stormwater Conference next year is really exciting. Thanks again to all who made the Stormwater Online Conference happen.

Summary

In summary, the Committee has had an ambitious work plan for 2019/2020 and with the support of the Friends of the Committee have nearly achieved everything we set out to do.

My two-year term as Committee Chair has seen significant change. I suspect the next two years even more so. It's exciting and sometimes a bit daunting to be working through a period of such change. Every year our industry will have major challenges and opportunities. This year's challenges have been unexpected. Next year it will be something else. It is so heartening to see the volume and calibre of the responses of the innovation showcase to our challenges. The engineering innovations put forward are a core strength of our people. I challenge the Stormwater Group to seek out and celebrate the non-engineering innovations to enhance our water.

Looking forward, the Committee will obviously build on the work to date in developing a work plan for the coming year. The Committee has discussed through this year about the importance of engaging and collaborating more broadly. Including making the conference more accessible to both audiences beyond typical stormwater practitioners as well as our emerging professionals.

My challenge for the incoming Committee next term is leverage the great strides in making the Stormwater Conference accessible and flexible and take the opportunity to extend its reach to the regions, sectors and disciplines where we need to collaborate to achieve both government and our communities expectations for water. The Stormwater Group can extend this experience into regular events and reframe regional meetings in the same way. This also represents the first significant step in creating a library of knowledge that can come part of our centre of excellence. Supporting our approach to address the capability and capacity needs of Te Mana o Te Wai requires. I support Kelvin's suggestion this morning, that the Stormwater Group thinks about how we brand Stormwater, the Stormwater Group and the conference reflecting our part in Te Mana o Te Wai and working with Taumata Arowai.

Finally, I encourage the committee to continue to act, not only as representatives of practitioners but also as te reo o tew ai, the voice of the water moving into our new water future.



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2020 Stormwater Innovation Showcase Award

Congratulations on all entries. It was a very tough decision, and all innovations were fantastic solutions that had a value proposition to significance stormwater challenges in New Zealand.

The scoring was very close. However, the uniqueness and freshness of the complete concept was the major factor in the judge's decision. For example, some entries were more of an innovative application rather than true innovation. Preference was also given to New Zealand innovation over the application of overseas technologies in a New Zealand context.

FenceTank is the 2020 Stormwater Innovation Showcase winner as a lot of thought has gone into the design, it is being made in New Zealand creating New Zealand jobs, which although not a criteria, the judges believed this was important now in the current situation we find ourselves in. Congratulations to Andrew Olsen from Stormwater Systems on creating a stylish solution to water tanks being unsightly and take up valuable space on properties.

The judges have highly commended Bodo Hellberg and Whare Joseph Thompson's "The Four Winds" Stormwater Manhole Cover. It is great to engage with the community and to make hard infrastructure more attractive.

Both FenceTank and The Four Winds Manhole Cover have multiple benefits and form.

Again we would like to congratulate all showcase presenters for some great innovations.



2020 Stormwater Paper of the Year Award

This award is to recognise the contribution that individuals and collaborative partners play in the stormwater industry. There was a shortlist of three papers selected by the paper reviewers, with the final review being undertaken by independent industry leaders.

The key attributes considered for short listed papers were:

- 🎯 Presentation and professional standard
- 🎯 Contribution to the industry with respect to innovation, technical complexity
- 🎯 Papers prepared in accordance with the submission requirements

We are pleased to announce that the winning paper for the 2020 Stormwater Paper of the Year is entitled:

“Does your Retention meet your Intention”

It is written collaboratively by Mark Groves (WSP), Bodo Hellberg (Tauranga City Council), Brendon Schicker (WSP), Warren Bird (WSP).

The paper addresses assumptions used in industry to estimate detention requirements. With an increasing focus on greenfield pre-development flow rates, design methods and the underlying assumptions can cumulatively have a large impact on estimates for detention requirements as well as orifice discharge rates.

This paper demonstrated the importance of such considerations by looking at different design events, different durations and different model assumptions and found that short duration storm design methods were more likely to lead to underestimation of flows, with the design potential to increase discharges and increase flooding risk. Validation with real rainfall data also showed the need to understand individual catchments and their complexities. Based on their assessment the authors recommended modelling a range of durations, storm sizes and rainfall profiles to best assess the needs of the catchment. This has the implications for any design engineer looking at detaining stormwater and releasing appropriately in larger catchments while mitigating flooding risk.

Congratulations to Mark, Bodo, Brendon and Warren.



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2020 Young Stormwater Professional of the Year Award

This award is to recognise a Young Stormwater Professional within the industry that has made a significant contribution to the stormwater industry and the general community and has demonstrated exceptional achievement in the early stages of his or her career.

The key attributes considered were:

- 🕒 At least 12 months work or research experience
- 🏆 Exceptional achievement in his or her career
- 🗣️ Outstanding communication skills
- 🌧️ Contribution to the stormwater industry
- 🤝 Commitment to volunteer activities

The quality of the applicants was high, making it a difficult decision for the judging panel. It required discussion across the different assessment attributes to reach a consensus decision. We would like to encourage young water professionals to put their names forward in future years, and for workplaces to nominate candidates and support their entries. The candidates all have bright futures ahead of them and are early in their careers – so we encourage you to apply again.

In light of that, we are excited to announce that Matthew Lillis of Engineering Leadership Services has been awarded the 2020 Young Stormwater Professional of the Year award.

Matthew's management of the complex Mangakootukutuku ICMP demonstrates his outstanding technical knowledge and communication skills. His commitment to volunteer activities is evident through his ongoing involvement in Engineers Without Borders and his contribution to the stormwater industry has been demonstrated through the presentation of his work at conferences. He demonstrates a breadth and scale of experience to date, while still early in his career, that strengthened our decision to present the award to him.

Congratulations Matthew.



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2020 Stormwater Professional of the Year

This is the fifth year of the award for Stormwater Professional of the year.

The award criteria set a very high standard of professionalism, and once again, the judges had a difficult time deciding on the winner.

The criteria they considered was:

- 🏆 Contribution to the industry including to the stormwater-related activities of Water New Zealand
- 🏆 The ability to develop articulate and implement changes in the stormwater industry
- 🏆 Peer and wider recognition in relevant communities

Other factors also considered included going above and beyond the expected level of workplace excellence such as mentorship and publications.

In light of this analysis, we have awarded the 2020 Stormwater Professional of the Year to Clare Feeney of Environmental Communications Ltd.

Clare has been a member of Water New Zealand since the 1990's. In 1990, she presented an award-winning paper, which was the first non-engineering paper Water New Zealand recognised in its 45-year history.

Clare has presented several stormwater papers and is a long-standing and actively contributed to Friends of the Stormwater Committee. Clare has judged the Innovation Showcase Awards since its inception in 2018, has chaired conference sessions, been actively involved in AGM's and regularly supports local events.

Clare's style is to fly under the radar; however, she is a great role model in how you can use your membership to multiple organisations to drive collaboration and improvement.

We congratulate Clare on earning the 2020 Stormwater Professional of the Year.