

PLANNING INSTITUTE OF BRITISH COLUMBIA

# PLANNING WEST

Spring 2023

*FORWARD THINKING  
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**THE WATER ISSUE**

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### **VANCOUVER OFFICE**

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F: 604.689.3444  
Toll Free: 1.800.665.3540

---

### **KELOWNA OFFICE**

201-1456 St. Paul Street  
Kelowna, BC V1Y 2E6  
T: 250.712.1130  
F: 250.712.1880

[www.younganderson.ca](http://www.younganderson.ca)

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Dave Crossley  
Executive Director  
Tel: 604.696.5031 Fax: 604.696.5032  
Email: dave.crossley@pibc.bc.ca

Opinions expressed in this magazine are not necessarily those of PIBC, its Board of Directors, or the Planning West Editorial Team

The primary contact for Planning West is Kristin Agnello RPP, MCIP  
Editor

Please send submissions to editor@pibc.bc.ca

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Tel: 604.696.5031  
Fax: 604.696.5032  
Email: info@pibc.bc.ca

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**PIBC PLANNING INSTITUTE**  
OF BRITISH COLUMBIA

FORWARD THINKING  
SHAPING COMMUNITIES

The Planning Institute of British Columbia (PIBC) recognizes, acknowledges, and appreciates that we are able to live, work, and learn on the traditional territories of the First Nations and Indigenous peoples of BC and Yukon. Acknowledging the principles of truth and reconciliation, we recognize and respect the history, languages, and cultures of the First Nations, Metis, Inuit, and all Indigenous peoples of Canada whose presence continues to enrich our lives and our country.



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View from the footbridge over the Kicking Horse River.



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## PRESIDENT'S MESSAGE



It has been a privilege and honour!! My two-year term as your president have gone by in what feels like a blink of an eye. I have enjoyed serving with a dedicated and committed group of professional peers on the Institute's Board. It has been a pleasure working with all the members and I would like to recognize and thank them all in my final message: Emilie Adin, Dear Bhokanandh, Lui Carvello, Kenna Jonkman, Sara Muir, Pat Maloney, Arta Navab-Tehrani, Angel Ransom, Alex Taylor, and Andy Yan – I thank you all for your time, dedication, and thoughtful work on behalf of our profession and members. Thank you also to past President Lesley Cabott and to the many student member representatives from this past term for your participation and contributions. With Board elections under way for the new term, I encourage all members to review the election candidate profiles and information and give thoughtful consideration as you help elect a new Board to represent our diverse membership across BC and Yukon.

I am now starting to look ahead to my transition to past president, to support incoming president Emilie Adin and the new Board as they take on their new roles starting in early June after our AGM in Sun Peaks. I have really valued the experience, support, and valuable contributions our current past president, Lesley Cabott, provided. I again extend our sincere thanks to Lesley for all her time and work with the Board over many years and wish her all the best in her future work and service within the profession.

Since the Board met for our regular meeting in Victoria in January, there have been several meetings – both regularly scheduled meetings and additional meetings to address key and time-sensitive items of business. The Board held a follow-up meeting in February to complete discussions and provide feedback to the National Standards Committee on the draft *National Competency Standards and Framework*. Following a thorough and robust review and discussion, the Board endorsed the proposed draft with a number of comments and specific feedback to the Standards Committee.

With feedback from all the various professional bodies across Canada, the Standards Committee is considering our feedback and determining next steps in the development of updated competency standards for the profession. Discussion on these key issues is taking place amongst the leadership of the profession at the national level through the Planning Alliance Forum (PAF), as much work remains to be completed in this area. The Board also recently held an

additional meeting to follow-up from our government outreach and engagement with the BC Ministry of Housing and potential future collaboration, activities, and initiatives. I am pleased to see our outreach efforts leading to greater government engagement with the Institute and the profession, and new opportunities for collaboration, helping to deliver on what has been a key strategic objective of the Institute for a number of years.

In early March, the Board once again travelled to Prince George for both a regular Board meeting and our annual social networking event with planning students from UNBC and other local practitioners. Many thanks to the students who organized the social event and to everyone who participated. It was great to once again have the chance to visit the beautiful campus at UNBC and engage with the UNBC School of Planning and Sustainability through a presentation and discussion with Chair Tara Lynne Clapp RPP, MCIP.

Looking ahead, I am excited for our upcoming annual conference, taking place in Sun Peaks from May 30th to June 2nd. After more than two years of largely virtual events, and following the success of our joint national conference last year, it is great to be back together in person learning, sharing, networking, and connecting. I very much hope many of you are able to attend. Be sure to visit the website and register to join us in Sun Peaks.

During the conference, of course, we will be hosting our 2023 Annual General Meeting (AGM) and concluding the elections for the next Board of Directors, as noted previously. My sincere thanks and appreciation to all those members who have stepped forward to serve by being nominated to run for election to the Board. It is great to see the volunteer interest, commitment, and energy from amongst our membership across BC and Yukon. Thank you!

And finally, thank you to all members for your involvement, support, and encouragement, which has been consistently positive over the two years I have been able to serve as your president. Our profession and Institute continue to move forward in a strong and positive direction and, again, it has been an honour and pleasure to serve these past two years.

**David Block** RPP, MCIP

# OUTLINES

What's Trending?... Member in Focus...



## What's Trending?

by **Cindy Cheung** PIBC Communications & Marketing Specialist

**Nibi Bimaadiziwin.** Translated from Anishinaabemowin (also known as Ojibwemowin and Ojibwe), it means *water is life*. In this issue, our contributors share and explore the different water issues and urgent challenges planners face as climate change and rights over water become “watershed” moments and a call to action for the planning profession. Numerous organizations, including the two featured here, offer useful online tools (including searchable climate toolkits and videos on Indigenous-led water governance) that are not just useful for planners, but for anyone interested in learning more about water and climate resiliency.

### Stay Updated with PIBC e-News!

Keep up-to-date regularly with current Institute & local planning news, events and job opportunities with PIBC e-News! The Institute's electronic newsletter is emailed to members every other Wednesday. Haven't seen your PIBC e-News? Check your spam/junk email folder and be sure to add [enews@pibc.bc.ca](mailto:enews@pibc.bc.ca) to your contacts.

## BC Climate Action Toolkit

@climatetoolkit  
www.toolkit.bc.ca

Looking for a handy and easy online resource on available climate data and best practices? The BC Climate Action Toolkit website might be just what you're looking for. With one simple search bar, you can type in keywords (like water) and the BC Climate Toolkit website will bring up the latest news, events, links to best practices, and other resources related to your topic.

Created through a partnership between the joint provincial Union of BC Municipalities (UBCM) Green Communities Committee and the Fraser Basin Council, the Toolkit was developed to support an integrated approach to planning and land use management. Contributions to this Toolkit database are provided by various partners, including local governments, provincial ministries and agencies, and non-government organizations.

While the key audience for this Toolkit is local government staff working on climate mitigation initiatives, the website makes comprehensive information easy to access and is a great resource for anyone who may be interested in learning more about climate action in BC. As it is designed to be a living and growing site, check back often for updated information.

### Planning West Call for Submissions

Summer 2023 Issue:  
**2023 PIBC Annual Conference and PIBC Awards**  
Deadline for submissions: Jun 15, 2023

Fall 2023 Issue:  
**Planning Through Different Lenses: Perspectives from Allied Professions**  
Deadline for submissions: Sep 15, 2023

Articles should be 1000-1200 words in length in an unformatted MS Word document. Please note: not all articles may be accommodated based on editorial decisions and the number of submissions received.



## Decolonizing Water

@DecolonizeWater

*"For us, lands and water are not only sites of learning, but are also actively involved in the process of education."*

Decolonizing Water is an Indigenous-led partnership with Council, Advisory Board, and team members across Canada who are committed to enhancing the protection of water and Indigenous water governance. Its goal is to create an Indigenous-led, community-based water monitoring initiative that is rooted in Indigenous laws and led by practical expressions of Indigenous water governance.

The organization, supported by the Social Sciences and Humanities Research Council of Canada, brings together many team members, including professors and researchers from UBC and UVIC along with the voices of youth and Elders from different Canadian communities, to engage in community-led research on water and its ecological, socio-economic, cultural and spiritual impacts.

### Water Resources Online

Decolonizing Water's website offers a library of resources for learning more about Indigenous water governance, including publications, videos, and podcasts. Videos include:

- Nibi (Water) Declaration
- Decolonizing Water Project: Indigenous Water Law
- Water And Language – National Indigenous Languages Day 2022

Visit:

<https://decolonizingwater.ca/resources/videos> for a list of Decolonizing Water's videos.

<https://decolonizingwater.ca> for more online resources on water protection.

# Member in Focus

**Cian O'Neill-Kizoff** RPP, MCIP, P.ENG.

Project Manager, Flood Mapping,  
Government of Yukon

In this issue, we connected with Cian O'Neill-Kizoff RPP, MCIP, who works with the Government of Yukon as a Project Manager, Flood Mapping. Taking time out from his busy schedule (he recently welcomed a new addition to his family), Cian shares with us how a book, social planning courses, and nudges from fellow planners redirected him into a "plan-gineer." He also talks about how exciting planning work in the North and rewarding engagement with local communities (including an outreach program with Indigenous youth) turned an intended short stay in Yukon into the strongly rooted community he now calls home.

### How did you get your start in the planning profession? Was there someone or something in particular that inspired you?

My planning start was a vocational crisis halfway through a civil engineering degree. Eventually, I decided to finish my degree and I tried to find ways to use it that were more socially-oriented than what I perceived as "typical" (highly technical) engineering roles.

I was gifted a copy of *The Death and Life of Great American Cities* (I think from Denis Agar) and found my way into the planning program at Queen's University. Taking social planning courses in my Master's with Leela Viswanathan RPP, FCIP, Patricia Collins, and Sue Cumming RPP, MCIP, further helped my redirection, as well as some advising from Dave Gordon RPP, MCIP, professor and fellow plan-gineer.

### What brought you to Yukon and helped you take root in this community?

It might seem exciting from down south but is a very common story in Yukon – my partner and I wanted to have an adventurous couple of years before settling back down close to family in Ontario.



Family photo (above) courtesy of  
Emeraude Photography & Design.

#### After work hike in Whitehorse.



And now here we are – 5 years, 1 dog, and 2 kids later!

We miss our families but haven't been able to say goodbye to this place. It is an incredible natural landscape, there are not too many people here and they are great people, and there's a lot of exciting work to get involved in.

#### Climate change is impacting northern water and flood management. What are some key things you are learning and what are some lessons for planners in other communities who might face this in the future?

Yukon may be warming faster than anywhere else in Canada and flooding was recently identified as a top climate risk to our population, second only to wildfire. We also have a transportation network with limited redundancy and other community vulnerabilities, such as limited health-care capacity. However, our small remote communities also have many strengths that have been showcased in the response to significant flooding events in recent years.

Communities have responded very effectively to flood events, even sharing resources with other locations as needed. Local communities also hold tremendous knowledge of climate risks and resilience and I think any adaption and/or mitigation initiatives should be community-led or, at least, collaboratively-led with active community involvement.

#### You've been involved with Yukon's Indigenous youth and Yukon University as part of the First Nations & Community Youth STEM Outreach program. Can you tell us about this experience?

I've always been passionate about community engagement but I didn't find many opportunities in this area coming up in my work. I decided to prioritize this interest (which required putting aside more "professional" work) and took a term position as a STEM outreach coordinator.

It was a truly amazing opportunity that allowed me to travel to, and learn about, every community in Yukon. I had a lot of fun and learned a lot that contributed back to my work later on. Not to mention great connections too – of the various community education staff I worked with, two are now Chiefs of their Nations and one is a member of our territorial legislature!

#### What's one thing you really enjoy about raising a family in Yukon?

It's a long list but a top one is how easy it is to be active and spend time in nature. Whitehorse is a reasonably bike-able city and making gradual improvements in this area. There are a lot of outdoor activities to do within city limits and endless destinations for weekends and longer trips. ■



# Welcome to Planning Podcasts

## An introduction from the PIBC Communications Committee

Podcasts have become a popular, engaging, and effective way to learn about a wide variety of topics, including timely and topical planning issues. With a growing number of podcasts available from many experts and organizations, the PIBC Communications Committee set out to bring PIBC members and *Planning West* readers access to fresh perspectives through this new way of learning.

With Planning Podcasts, the Committee will curate, review, and share podcasts on a variety of planning issues, including climate change, housing, community engagement, and more. Members and readers can find a short summary of these podcasts in each issue of *Planning West*, as well as online under PIBC's Resource section.

In this issue, we kickstart this new feature by bringing you two podcasts on water issues. Take a listen and let us know what you think!

**Got a podcast about planning you want to share? Contact us with your podcast summary at [editor@pibc.bc.ca](mailto:editor@pibc.bc.ca).**

*\*Please note: Podcast content and opinions are solely those of the podcast creators. PIBC does not endorse external third party content shared for general information, and does not necessarily endorse or share any of the information, views, or opinions expressed on any external podcast(s). Podcast links and content may change without notice, and PIBC is not responsible for such changes to external podcasts.*

# Planning Podcasts The Water Issue

Podcasts summaries by Lindsay Allman RPP, MCIP, Communications Committee Member

## Is An Integrated Approach a Game Changer for Urban Water Management?

(Run time 9:34)

From The Water Insider podcast series by DHI Group (Danish Hydraulic Institute)  
**Host:** Jan (Honza) Krejčík, Urban Water Professional at DHI  
**Guest:** Jan Jerzy Kwiatkowski, Senior Water Specialist at The World Bank

### Podcast link\*

[www.dhigroup.com/news-and-resources/water-insider-podcast/urban-water-management](http://www.dhigroup.com/news-and-resources/water-insider-podcast/urban-water-management)

### Podcast Summary

Cities around the world are growing rapidly. In this episode, water experts try to give an answer to two pressing questions:

- How do we ensure a more sustainable use of urban water in the context of accelerated urbanization?
- Could an integrated management of water systems be a solution?

### Why Planners Should Listen

DHI has developed five short podcasts (10 - 20 minutes each) about urban water management. While it used to be "humans versus environment," with the water taking a backseat, we are now planning for "humans in the environment." Of interest to planners, sustainability professionals, and urban water stakeholders, this 10-minute podcast discusses the changing paradigm of what urban water management can include.

## Water and Reconciliation – Canadian Water Resources Association (CWRA) Live Taping

(Run time 34:29)

From the Porcupine Podcast series by Porcupine Media  
**Hosts:** Merrell-Ann Phare and Michael Miltenberger  
**Guests:** Eric-Lorne Blais, Kerry-Ann Charles, and Natasha Overduin

### Podcast Link\*

<https://porcupinepodcast.ca/episode-3-water-and-reconciliation-cwra-live-taping-with-eric-lorne-blais-kerry-ann-charles-and-natasha-overduin/>

### Podcast Summary

This special episode features water experts Eric-Lorne Blais, Kerry-Ann Charles, and Natasha Overduin as they answer difficult water and reconciliation questions in front of a live audience at the Canadian Water Resources Association 2019 Conference.

### Why Planners Should Listen

Porcupine asks important – and sometimes prickly – questions about reconciliation between Indigenous and non-Indigenous Canadians. Here's the old joke: how do two porcupines hug? Carefully. And such is the story of reconciliation – at least so far.

This podcast episode discusses reconciliation and how it relates to water. Water is a commonality among all people and, to fix water issues, we have to be able to work together. A key lesson: "We need to stop thinking about our environment as commodity and start thinking about it as community – as it once was."

This podcast would be of interest to anyone who wants to learn more about our relationship with water, Indigenous perspectives of caring for our land, and planners who are working on developments or policy decisions where water is involved.



\* Podcast links are available on the **Planning Podcasts web page** under the **Resources** section on the PIBC website.



# OVERCOMING BARRIERS TO CLIMATE ACTION BY FOLLOWING THE LEADERS

Rob van Adrichem



**Recipients of 2022 Climate & Energy Action Awards: City of Victoria, British Columbia Assembly of First Nations, City of Kamloops, Union of BC Indian Chiefs, District of Saanich, First Nations Summit, District of West Vancouver, and the Lhoosk'uz Dené Nation.**

We know that “local governments are on the front lines of climate action” (CleanBC Roadmap to 2030), but sometimes local governments are challenged to balance climate action with a myriad of other responsibilities. Planners know this. It’s one thing to know what to do to reduce local greenhouse gas (GHG) emissions, and another matter entirely to navigate political and administrative hurdles that can make implementation a real challenge. Relevant examples of success can be useful in overcoming those hurdles.

The Community Energy Association has been running the Climate & Energy Action Awards program in British Columbia for 25 years and has recognized

a wide variety of local government climate action initiatives. The winners take home awards but, if we really care about local climate action, the real value is in the case studies presented by all the nominees.

In that spirit, here’s a summary of each nominee:

#### **Greater Victoria District 2030**

– The City of Victoria and the District of Saanich are working with the owners/managers of 37 local commercial buildings to meet new targets for energy consumption and greenhouse gas emission reduction.

#### **Kamloops Big Move Investments –**

In order to fund priorities in the new *Kamloops Climate Action Plan* to reduce



Representatives of the BC First Nations Leadership Council – Hugh Braker, Kukpi7 Judy Wilson, and Terry Teegee (left) – received a special recognition award for creating the BC First Nations Climate Strategy and Action Plan, the first of its kind in Canada. The Council is made up of the BC Assembly of First Nations, the Union of BC Indian Chiefs, and the First Nations Summit.

The District of Saanich and the City of Victoria – represented by Councillor Ned Taylor and Mayor Lisa Helps (below) – received awards for community planning and corporate operations. They are joined in the photo by CEA Executive Director, Dale Littlejohn.

local GHG emissions, the City implemented a Climate Action Levy of 0.35% on its civic tax roll last year, providing an estimated \$24 million in funding over the next 10 years.

**Kelowna 2040** – In combining its long-term transportation and community land use plans, Kelowna 2040 is shaping how the community will grow, commute, and interact – ultimately helping in the transition to a low-carbon community that is resilient to the impacts of climate change.

**City of Nelson’s Material Carbon Emissions Guide** – Developed as a resource for municipal staff, builders, homeowners, and others, this guide provides information and easy-to-understand graphics comparing the embodied emissions associated with different types of materials (such as concrete, insulation, and cladding) and the importance of considering embodied emissions as a part of building design and planning.

**New West’s Seven Bold Steps** – Subsequent to declaring a climate

emergency, the City of New Westminster rolled out *Seven Bold Steps for Climate Action*, which serves as a manifesto for the City and its residents and led to a Climate Action Budgeting Framework that helps to actualize the goals of the plan.

**Penticton Blue Skies Public Engagement for Climate Action** – Following a hot and smoke-filled summer, the City of Penticton conducted a public engagement campaign called ‘Blue Skies’ to gain feedback on the City’s draft *Community Climate Action Plan*. It involved engaging with more than 500 young people between grades 3-12 in five local schools, ultimately leading to more ambitious local targets than had been initially proposed.

**Powell River Zunga Bus and Transit Analysis** – Challenged with the vicious cycle of low ridership leading to unattractive transit service, Powell River implemented an on-demand, micro-transit service that complemented some of the existing transit routes in order to reduce wait times and increase service speed and frequency.

### Surrey EV Infrastructure Analysis

– This project takes a neighbourhood approach to electric vehicle charging infrastructure, incorporating various data – population, zoning and housing types, future development, vehicle ownership, EV adoption, travel patterns, etc. – and financial analysis to determine optimal locations for public charging to support EV adoption and achieve GHG reduction targets.

### Tofino Electric Summer Shuttle –

Operating since 2008 to transport visitors from Tofino to a popular nearby beach, the diesel-burning Summer Shuttle has been replaced by an electric bus, resulting in a quieter, zero emissions service that has removed nearly nine tonnes of carbon emissions.

### Vernon Climate Action Plan –

Recognizing that many initiatives to reduce local greenhouse gas emissions rely on the participation of residents, Vernon recruited 30 local ‘Climate Ambassadors’ who were trained to approach climate change with plain language and facilitate climate conversations within their own organizations and networks.

### Retrofit Assist in Squamish and Whistler –

Serving as a concierge connecting homeowners, energy advisors, and contractors, this pilot project in Squamish and Whistler aims to make

it easy for residents to swap out fossil fuel heating systems for an electric heat pump and consequently reduce emissions and make homes healthier. More than 50 inquiries were received in the first week following the program’s launch.

### Port Moody Low Carbon Resilient Climate Action Plan, Phase One Implementation Strategy, and Annual Report –

After completing a *Climate Action Plan* that incorporates both greenhouse gas mitigation and climate change adaptation in a low-carbon resilience framework, Port Moody produced its first *Climate Action Report*, highlighting progress toward implementation of the Plan’s priority actions.

### District of West Vancouver Foreshore Development Permit Area and Sea Level Rise Adaptation Policy –

As climate change causes increased risk of sea level rise and coastal flooding, West Vancouver has adopted guidelines that require new homes to be built at an elevation above the coastal flood plain, minimizing the risk to people and their homes, while protecting the natural foreshore environment.

### UBC Future Climate Residential Building Design Requirements –

New residential buildings at the Point Grey campus are now required to be able to maintain comfort and safety under summer climate conditions that are predicted to increase over the next three decades because of climate change. The “2050 Future Climate-Ready” resources and future weather models are available to communities around the province.

### Lhoosk'uz Dené Nation Community Leadership in Climate Change Adaptation, Bioenergy, and Bioeconomy –

Located nearly 200 km west of Quesnel, Kluskus Indian Reserve #1 is reliant on trucked-in fossil fuels for heat and electricity and faces wildfire risk posed by the mountain pine beetle infestation. The Nation aims to utilize available forest resources to provide power and heat for the community, thereby reducing GHG emissions while creating energy independence and new economic opportunities.

### BC First Nations Climate Strategy and Action Plan –

The First Nations Leadership Council established a first-of-its-kind *Climate Strategy and Action Plan*. Published in the spring of 2022, the Plan outlines an overarching vision, 5 guiding principles, 4 priority pathways, and 20 urgent calls for climate action – all recognizing that Indigenous Peoples and their traditional territories are disproportionately affected by climate change, more than any other group in Canada.

### City of Victoria Green Fleet Plan –

In order to achieve a 60% reduction in emissions from the City of Victoria’s fleet of more than 400 vehicles, the City will electrify 143 vehicles over the next nine years and identify underutilized vehicles that can be removed from the fleet or be replaced with pooled electric vehicles or electric cargo bikes.

### Now What?

Intrigued by any of these initiatives that were nominated for a Climate & Energy Action award in 2022? Do one or two of them remind you of a project you’ve been meaning to initiate in your community or possibly help you make progress on a project that has stymied you? Good! Follow up. Learn from their experiences.

All communities in BC need to consider how they can navigate being on “the front lines of climate action.” Success is the only acceptable option, so let’s continue to celebrate it in all of its forms and locations.

Learn more about the Climate & Energy Action Award nominees and submit a nomination this July for the 2023 awards at <https://www.communityenergy.ca/awards/>.

Rob van Adrichem is the Director of External Relations for the Community Energy Association. He lives on the unceded and ancestral lands of the Lheidli T’enneh, in Prince George.



# PLANNING PRACTICE AND RECONCILIATION COMMITTEE UPDATE: THREE YEARS AND COUNTING

Sarah Atkinson RPP, MCIP,  
on behalf of the PIBC Planning Practice and Reconciliation Committee

PIBC appointed the Indigenous Planning Working Group (IPWG) in 2020 to develop and recommend relevant and achievable strategies and actions for PIBC to respond to outcomes from the Truth and Reconciliation Commission and the MMIWG Report. We have since revised much of our work and scope, and are now formally the Planning Practice and Reconciliation Committee (PPRC).

First, we must acknowledge that PPRC was never an Indigenous Planning Working Group. We apologize for this misstep and the harm it may have caused Indigenous planners. To err is human, but this level of transgression made us pause and reflect on how much learning and work we have left to do. This is the first of many mistakes we will likely make throughout our work, but we commit to listening, learning, and growing. We are always open to feedback and suggestions and can only hope that, in continuing this work, our mistakes will diminish as we improve our decolonization efforts.

This update describes the journey that led us to rename the Committee, and the ongoing learning that is guiding us as we work towards decolonization of the planning profession in BC.

## Planning Practice and Reconciliation

The PPRC has now worked together for three years. We have learned much more than we have given through this process and would like to take this opportunity to bring what we have learned to our fellow planners: our work together, where we are now, and where we see ourselves heading in the next year.

## Beginnings of our Work

Our work started by reviewing the Truth and Reconciliation Commission's (TRC) Final Report, *Honouring the Truth, Reconciling for the Future* (2015), and *Reclaiming Power and Place: The Final Report of the National Inquiry into Missing and Murdered Indigenous Women and Girls* (2019). The two reports are inextricably linked by collective trauma caused by colonial systems and processes.

Throughout these documents, we see a demand for the fundamental right of respect for First Nations and First Nations rights, culture, knowledge, and traditions. A continuation of business as usual will not heal the deep wounds that affect us all. These lessons can have a profound positive impact on our profession.

Through this work, we realized there was a larger call to action: to decolonize our planning institutions, practices, and approaches. As a result, our work was broadened to encompass a framework of reconciliation for the planning profession in BC and Yukon.

The TRC provides the following definition of reconciliation:

*"To the Commission, reconciliation is about establishing and maintaining a mutually respectful relationship between Aboriginal and non-Aboriginal peoples in this country. In order for that to happen, there has to be awareness of the past acknowledgement of the harm that has been inflicted, atonement for the causes, and action to change behaviour."*

We used the TRC's reconciliation statement as a roadmap for our work and

unanimously agreed that the Committee's roadmap would include:

- a. Awareness of the past
- b. Acknowledgement of the harm that has been inflicted
- c. Atonement for the causes
- d. Action to change behaviour

From there, we were able to state a thesis:

*"How does PIBC address the TRC and MMIWG, but beyond that, expand to actively decolonize the planning practices in BC and support our members in doing this work? How can the Institute undertake Truth and Reconciliation in the planning profession?"*

## Listening and Learning

The PPRC committed to doing things differently and started work to decolonize our strategy and approach. Reviewing the TRC Report, the MMIWG Report, traditional knowledge and teachings, and other research, we felt a need to decolonize our methods and strategies. We felt compelled to answer one of the MMIWG Calls to Justice in our approach to this work:

*"A decolonizing approach aims to resist and undo the forces of colonialism and to re-establish Indigenous Nationhood. It is rooted in Indigenous values, philosophies, and knowledge systems. It is a way of doing things differently that challenges the colonial influence we live under by making space for marginalized Indigenous perspectives. The National Inquiry's decolonizing approach also acknowledges the rightful power and place of Indigenous women and girls."*

We are taking our time with this work; we are sitting in uncomfortable grey areas and not trying to rush to conclusions, actions, and solutions. We commit to listening. The Vancouver Parks Board started a Truth and Reconciliation process and, through their work, realized that to start, they needed to listen:

*“And so we begin the long, complex work of deep listening, of dialogue and sharing that hold the potential to upend the traditional balance of power that has kept other people setting the agenda and deciding who gets to do what in Vancouver’s public arts and culture landscapes. Imagine the possibilities, imagine the ways that Vancouver can transform as Indigenous cultural expressions and voices are once again reflected in the land, songs, stories and images of this place. What kinds of shifts can happen when we are guided by a vision of unity built on mutual respect and equality?”*

The Committee unanimously agreed that our first, and ongoing, commitment is hearing about Indigenous experience with planning and planning institutions.

### Listening, Learning, and Action

Through our learning process, it became abundantly clear that we were not an Indigenous Planning Working Group. We restructured our framework and became the Planning Practice and Reconciliation Committee. This PPRC will continue, in

perpetuity, to work toward reconciliation in planning and decolonization of our institution, our profession, and our practices as planners. A sign of accomplishment for the Committee would be the creation of a true PIBC Indigenous Committee. We are far from that reality but are committed to the path.

While we continue the deep work of listening and learning, we have heard messages resonate from guest speaker to guest speaker. To acknowledge the harm and offer meaningful change toward reconciliation, we have essential listening and learning left to do. However, after three years of work, we feel ready to begin some action and, in 2022, PPRC recommended the following actions to the Board;

1. Respect for First Nations and First Nations rights, culture, knowledge, and traditions in PIBC Accreditation.
2. Required Indigenous learning for PIBC Membership, both in the accredited University programs and as ongoing CPL credits.

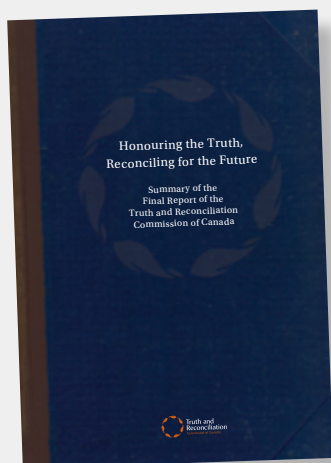
The PIBC Board unanimously agreed to support the above actions and provided PPRC with a budget to implement change. Throughout 2023, PPRC will be taking the following actions:

1. PPRC will hire an Indigenous consultant to work toward a path to PIBC membership that recognizes Traditional knowledge.
2. PPRC will engage with accredited Universities to discuss required courses for planning programs that include Indigenous teachings and awareness of reconciliation and decolonization.

### Further Engagement with PIBC Members

The PPRC is deeply grateful for the knowledge shared with us. It has taught us that the process toward decolonization starts with ourselves. David Suzuki says, "the way we see the world shapes the way we treat it." The teachings we have received from traditional knowledge holders have helped us to begin to see the world differently and we are excited to continue working with our fellow planners and provide ongoing webinars to help decolonize ourselves, our practices, and our work.

The PPRC will present at this year’s PIBC Annual Conference in Sun Peaks, where we hope to provide more information on where we are and where we might be going. We will also use *Planning West* to keep our fellow planners abreast of this important work and provide opportunities for continuing our path towards decolonization.



### Further reading:

*Honouring the Truth, Reconciling for the Future: Summary of the Truth and Reconciliation Commission of Canada* (Vol. 12, Issue 1). (2015). <https://publications.gc.ca/site/eng/9.800288/publication.html>



*Reclaiming Power and Place: The Final Report of the National Inquiry into Missing and Murdered Indigenous Women and Girls.* (2019). <https://www.mmiwg-ffada.ca/final-report/>

# PROGRAM AND STUDENT RESEARCH UPDATES: THE RESOURCE AND ENVIRONMENTAL PLANNING PROGRAM AT SIMON FRASER UNIVERSITY

Dr. Andréanne Doyon, RPP MCIP  
and PIBC Student Members Alexis Coutu-Marcott & Andrew Palmer



The School of Resource and Environmental Management (REM) at Simon Fraser University (SFU) is an interdisciplinary program that develops knowledge and trains students in sustainable natural resource management. REM accomplishes this through research in a variety of fields, including policy, ecology, and economics, with the express goal of equipping students with the tools necessary to impact change within various institutions and systems pertaining to natural resource management and environmental planning in Canada. REM is unique in this sense and hosts a one-of-a-kind planning program for students keen on specializing in environmental and natural asset planning. Through applied and community-oriented projects, students develop professional deliverables and recommendations for real-world planning challenges. From these experiential learnings, students contribute to societal problems through their capstone and thesis projects, which can be grouped under four contemporary themes: Equity, Climate Change, Food Systems, and Indigenous Partnerships. Other areas of research include hazard risk mitigation (Anneliese Neweduk with the SFU Avalanche Research Program) and rural resilience and municipal entrepreneurship (Alexis Coutu-Marcotte with the Community Development Lab).

### Climate Change

Climate change is a wicked problem that REM seeks to address through multiple research lenses. As an interdisciplinary program, our students learn how to prepare and plan for a better future, what a changing climate means for communities

and ecosystems across Canada, and the science behind our changing climate. REM's diverse body of student-led climate scholarship includes:

**Laura Beattie** Laura's research examines over 1,000 local governments across Canada to determine how resilience is included in their long-range plans (e.g., Official Community Plans) to better understand what meaningful implementation of resilience looks like.

**Abby McCarthy** Abby's research looks to better understand the carbon dynamics of salt marshes in BC to inform the management of coastal wetland systems and their role in meeting climate emissions targets.

**Chelsea Mathieson** Chelsea's research identifies strengths, weaknesses, and possible gaps in Canada's recent 2030 Emissions Reduction Plan (ERP) and provides recommendations on how it can be improved. The ERP must be an effective, comprehensive, just, and socially equitable climate plan that includes goals with measurable targets, programs, and initiatives that incorporate monitoring and adaptive management and embrace leadership and accountability.

**Heather Chambers** Following disasters resulting from extreme climate events, communities are tasked with rebuilding under a complex regulatory landscape with limited funding and capacity. Heather's research seeks to understand the regulatory, financial, and insurance landscape as it either hinders or supports post-wildfire resilient rebuilding in rural communities across BC.

### Equity

Planning students within REM engage with social equity through a variety of different avenues. Through coursework on sustainable and equitable planning, class projects working directly with First Nations and local municipalities in British Columbia, and student-directed research projects, REM planning students actively unpack and contribute to what it means to plan with, and for, equity.

**Tira Okamoto** Tira's research expands on current usages of equity



School of Resource and Environmental Management (REM) class photo. Photo Hafsa Salihue

and justice in coastal adaptation planning and proposes an evaluative framework for assessing equity and justice within adaptation planning processes.

**Jackson Fitzgerald** The Automaker Consumer Model (AUM) simulates consumer and automaker responses to various zero-emissions vehicle (ZEV) policies, such as ZEV-mandates or carbon taxes. Jackson's research aims to expand this model to better consider how the implementation of vehicle charging infrastructure can affect consumers' choices regarding the vehicles they choose to drive.

**Sean McBain** Using the AUM, Sean's research is focused on exploring equity as it relates to zero-emission vehicle (ZEV) affordability and adoption. Specifically, his research aims to introduce an addition to the model that better incorporates income considerations into policy analysis aimed at achieving ZEV adoption targets.

### Food Systems

Planning research in REM supports growing movements to determine how food shapes healthy communities, with a specific interest in how planners can be more involved in food systems planning. Recently, the COVID-19 pandemic drew attention to many food system issues in Canada and increased the urgency to create more resilient and equitable food systems and communities. The following three research projects have specifically looked at opportunities and challenges in rendering our food systems more resilient, specifically focusing on the case of the Farm to School program in BC and supporting the development of Canada's first national school food policy.

**Dina Sadeghi** Many K-12 students rely on food or meals provided through programs such as those offered by Farm to School BC. However, the COVID-19 pandemic posed challenges to the continuance of school food programming, particularly when schools were closed or had to limit operations. Dina's research looks to understand these challenges and opportunities to prepare for future emergencies and improve both food security and food systems resiliency.

**Hafsa Salihue** Hafsa's research applies a social innovation lab approach to identify the gaps and opportunities for integrating



Photo Meg Holden

local food in school food programs across British Columbia. The findings inform recommendations for systems change by scaling up impact through policy and governance, scaling out impact through investment in the local food economy and infrastructure, and scaling deep through education and place-based cultural practices.

**Elina Blomley** Beyond just farmland preservation, Elina's research aims to determine what tools are available to planners in the province to strengthen place-based food systems. This includes understanding the role planners have in leveraging the purchasing power of schools to purchase from local food growers in response to the federal government's national school food policy.

### Indigenous Partnerships

In REM, we consider how settler-colonial and Indigenous relationships affect environmental management. This includes coursework focusing on socio-ecological systems, cultural ecological perspectives, Indigenous worldviews and planning practices, settler-colonialism, and co-governance approaches to environmental problems. Throughout the program, REM students are challenged to both understand their positionalities and recognize their responsibilities to uphold and support Indigenous rights and self-determination. The following four research projects strengthen REM's commitment to

allyship in research.

**Anwen Rees** Nature-based solutions (NbS) are multifunctional strategies that address the climate crisis and biodiversity crisis in tandem through a place-based and co-created process. However, because NbS originated in western, international forums, some critics argue that NbS can be harmful to Indigenous Peoples. Anwen's research considers how NbS and colonialism are interlinked and how settler NbS practitioners and researchers can support the co-creation of NbS in settler-colonial and Indigenous contexts.

**Andrew Palmer** Andrew's research aims to support the Okanagan Lake Responsibility Action Plan, a Syilx-led planning process delivered through the Okanagan Nation Alliance, to examine how the implications of climate change will impact its holistic management and innovative governance outcomes. This will include a determination of the potential for co-created, adaptable, and place-based NbS to enhance resiliency in a changing climate.

**Mary Kelly** Mary's research supports a larger project in Xwe'tay/Lasqueti Island in the Salish Sea, which is looking at how to better honour and protect First Nations heritage through community-engaged research and planning. Her work focuses on how First Nations are exerting self-determination through heritage policies and related stewardship initiatives, as well as the responses from local municipalities.



**Katarina Helm** Katarina's research is in partnership with the Nuu-chah-nulth Tribal Council and the Skidegate Band Council. These remote coastal communities rely heavily on marine transportation and recognize the necessity to move away from fossil fuel-powered vessels in order to reach their net-zero targets. This research will provide a roadmap for a just and equitable transition to clean marine propulsion systems, as well as policy pathways in support of these efforts.

#### REPSA Updates

The REM planning program has its own volunteer student planning organization, the Resource and Environmental Planning Student Association (REPSA), which empowers students to engage with the broader planning community at a professional level through the facilitation of planning-related events throughout the academic year. This year's roster included a

wide variety of offerings, such as professional speaker panels centering on alumni re-engagement, land use planning in a development context, and the Okanagan Bioregional Strategy. In addition, REPSA hosted a PIBC networking event to connect students with practicing planners, as well as various on-campus social gatherings to interface with faculty and facilitate collaboration across cohorts. The Resource and Environmental Management Student Union (REMSU) also represents planning students through their role as an overarching student organization for REM. In partnership with REPSA, REMSU will be co-hosting a panel event centering on the role of biodiversity in environmental management and planning, which is scheduled for Fall 2023.

List of Primary Authors:  
Dr. Andréanne Doyon, RPP MCIP is the

Director of the Planning Program in the School of Resource and Environmental Management at Simon Fraser University.

Andrew Palmer is an MRM student at SFU, REPSA Co-President, and PIBC Board Student Representative.

Alexis Coutu-Marcotte is an MRM student at SFU, REPSA Co-President, and the CIP student representative.

*With contributions from REM students:*

#### *Climate Change*

Laura Beattie, Abby McCarthy, Chelsea Mathieson, Heather Chambers

#### *Equity*

Tira Okamoto

#### *Systems*

Dina Sadeghi, Hafsa Salihue, Elina Blomley

#### *Indigenous Partnerships*

Anwen Rees, Andrew Palmer

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# A CASCADE OF IMPACTS: BC'S NOVEMBER 2021 ATMOSPHERIC RIVER

Robin Hawker RPP, MCIP  
PIBC Climate Action Sub-Committee Member

In November 2021, an “atmospheric river” flowed across British Columbia’s Lower Mainland and caused a month’s worth of rain (252 mL) to fall in 48 hours. An atmospheric river is a large, narrow band of water vapour in the atmosphere that carries high volumes of precipitation north from tropical regions. While atmospheric rivers affect British Columbia every year, the November 2021 event was particularly extreme. Events of this magnitude are expected to occur more often due to climate change.

The November 2021 rainstorm led to an estimated \$675 million in insured damages to private property, billions of dollars in damage to public infrastructure, and immeasurable impacts on uninsured assets, livestock, human health, ecological systems, and the regional economy that continued for months after the event.

This storm provides a stark example of how climate-related events can cause broad-reaching effects. For example, direct impacts, such as a road washout, can cascade into a wide range of resulting impacts, such as blocked emergency routes, that threaten community health more broadly. The graphic (to the left) illustrates three of the many examples of major impacts associated with the November 2021 atmospheric river and the cascading impacts that precipitated from it.

## Example 1: Wash out and Debris on Major Roadways

Extreme rainfall from the atmospheric river resulted in river flooding and debris flows that washed away bridges and sections of arterial roads. This flooding, paired with landslides and debris from high winds, blocked major transport routes, causing extensive damage to public infrastructure and the loss of human lives.

These direct impacts led to significant service disruptions, including evacuation orders, blocked emergency routes, barriers to work crews restoring electricity and municipal services, and a high burden on small communities, like the Town of Hope, which were providing shelter to stranded residents and travellers.

## Example 2: Farmland Flooding

The rainfall caused river levels to rise, spilling over riverbanks and flooding low-lying areas, including large swaths of farmland, such as the Sumas Prairie near Abbotsford. This flooding caused direct damage to farm equipment and crops, flooded barns and endangered livestock, and blocked access roads, making it difficult for farmers to evacuate their families and animals. Cascading impacts included the loss of animal feed, increasing the risk of livestock starvation, mental health impacts due to concerns about animal death, contaminated water overflows from farms into nearby streams, and loss of crops causing supply chain issues for months and years to come.

## Example 3: Flooding of Water and Wastewater Infrastructure

The rainstorm caused significant damage and disruption to critical municipal infrastructure across coastal and interior BC, including water and wastewater services. In multiple communities, flooding damaged pump stations and treatment plants, bringing with it a high cost of repair and temporary service outages while municipal staff worked to get systems back online. These costs may have resulted in the reallocation of municipal funds from other programs, affecting municipal services in the longer term. Flood waters also seeped into older, buried pipes, overloading

A T M O S P H E R I C R I V E R R A I N S T O R M

Stormwater  
flooding

River  
flooding

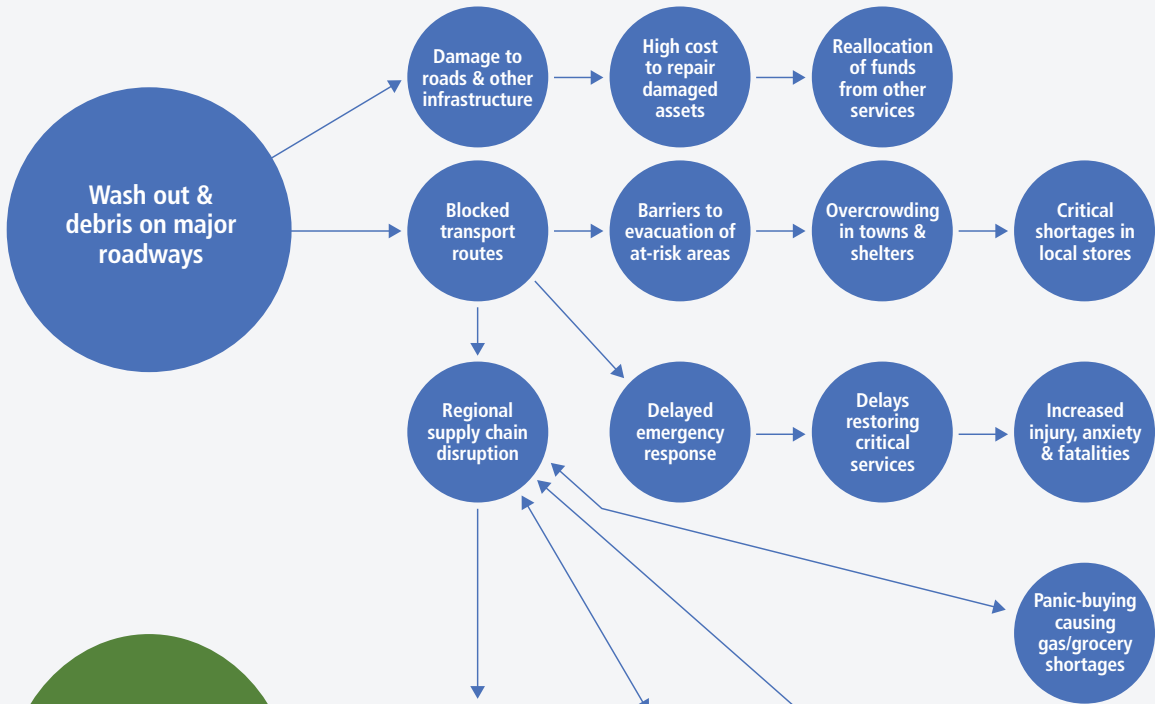
Landslides &  
debris flows

High winds  
& debris

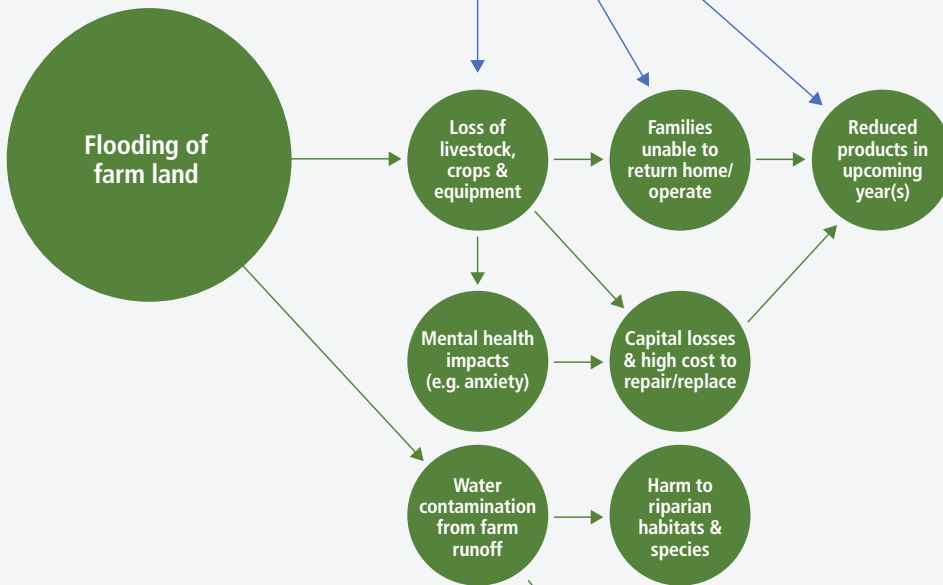
DIRECT IMPACTS

CASCADING IMPACTS

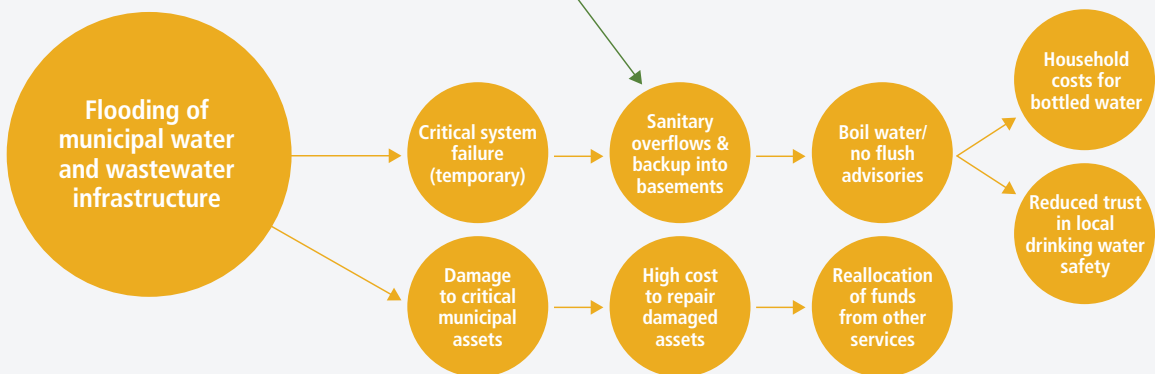
EXAMPLE 1



EXAMPLE 2



EXAMPLE 3





the system, and causing contaminated water overflows and sanitary backups in homes and businesses. For example, Merritt issued a no-flush advisory to reduce pressure on the sanitary system and a boil water advisory due to contaminated sanitary runoff threatening the safety of drinking water. These disruptions to municipal water services had cascading impacts, with some local citizens purchasing alternative water supplies during the outages. These disruptions may also have degraded trust in the local drinking water system over the longer term.

### **Lessons for Planning Practice**

As our climate continues to change, extreme weather events will increase in frequency and severity, with broad-reaching impacts on communities and surrounding areas. It is important for planners to consider the cascading impacts – both direct and indirect – of these events to inform more integrated and effective planning and to mitigate potential damages. The 2021 atmospheric river provides an important learning opportunity for planners to understand the myriad

Environmental monitors (above) salvaging fish for re-release after Nicola River levels dropped

Crews work on the Jessica Bridge located on BC Highway 5 – the Coquihalla.



Photos: BC Ministry of Transportation and Infrastructure/Flickr

of expected and unexpected ways the event affected the communities they are part of.

Mapping these direct and cascading impacts can help planners build community resilience by:

- **Anticipating and planning for cascading impacts that may have otherwise been unanticipated.** For example, lessons from the November 2021 rainstorm, could lead planners to plan for alternate emergency routes and gathering points at higher ground.
- **Demonstrating the value of spending public funds on preventative and recovery measures.** In the aftermath of the atmospheric river, there was renewed support for flood mapping and dike upgrades in the Sumas Prairie, which could reduce flood damage from similar events in the future.
- **Having a better understanding of who could be impacted to inform targeted programs and**

**partnerships.** The November 2021 event illustrated the significant impact flooding could have on a wide range of groups, such as farmers in flood-prone areas and travellers who may be stranded due to highway failure. In particular, impact mapping can help identify key vulnerable groups that may be affected and require more support, such as those with mobility challenges who struggled to evacuate their homes or towns.

The more we can learn from past events, the better prepared and resilient our communities will be to face climate events as they become more frequent and severe.

**Sources:**

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<https://www.theglobeandmail.com/canada/british-columbia/article-flooding-in-bc-has-overwhelmed-the-sewage-systems-of-smaller/>

<https://www.noaa.gov/stories/what-are-atmospheric-rivers>


Robin Hawker, RPP, MCIP, is a climate risk and resilience planner with Integral Group. She is a member of PIBC's Climate Action Sub-Committee and developed this article and graphic with input from fellow Sub-Committee members Patricia Dehnel, RPP, MCIP; Clarissa Huffman, RPP, MCIP; and Brian Miller, RPP, MCIP.

Acknowledgements: PIBC Climate Action Sub-Committee holds a deep appreciation for the citizens, first responders, and government staff who worked tirelessly to respond and recover in the aftermath of the 2021 flooding, with effects still being felt by many across BC.



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# SEA2CITY DESIGN CHALLENGE: TRANSFORMATION, RESILIENCE, AND DECOLONIZATION IN VANCOUVER'S FALSE CREEK

John Ingram RPP, MCIP, Evie Morin RPP, MCIP  
Katherine Levett

## Sea Level Rise and Coastal Flooding in Vancouver

Vancouver is a coastal community, defined by its proximity to the Salish Sea. Like other coastal areas, Vancouver must prepare for a future with at least two metres of sea level rise, which the UN Intergovernmental Panel on Climate Change considers unavoidable.

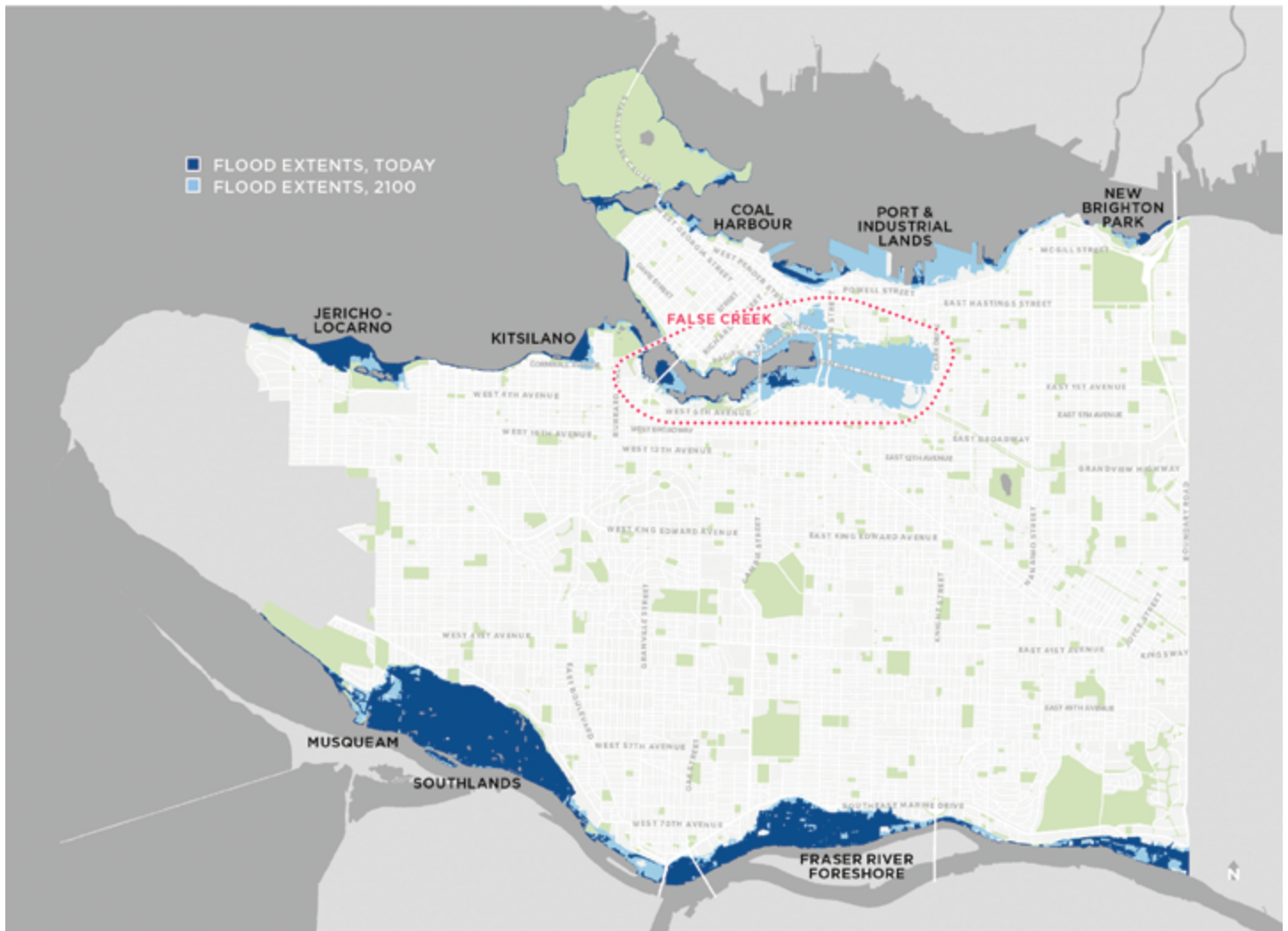
## The Challenge of Coastal Adaptation

The Sea2City Design Challenge (Sea2City) was an innovative 12-month collaborative planning and design competition rethinking the future of the False Creek shoreline to adapt to rising sea levels while accommodating urban development and fostering ecological revitalization. This was the first time in Canada that a competition model was used to conduct a planning and adaptation project.

Sea2City asked two multidisciplinary teams to reimagine five sites in Vancouver's False Creek floodplain, a highly urbanized area in the heart of the city that is home to over 38,000 people, dozens of community facilities, and critical infrastructure. The project generated a positive and bold future vision, dramatic but achievable site concepts, and shorter-term pilot projects designed to test new ideas, build the City's collective coastal adaptation understanding, increase public awareness, and support the next steps of the City's adaptation journey.

Guided by community values, Indigenous knowledge, and design principles from earlier engagement, Sea2City provided a learning and capacity-building opportunity to:





(left) Map: Areas of Vancouver that are vulnerable to flooding in a major storm today (dark blue) and in 2100 with one metre of sea level rise (light blue)

Sea2City's 2100+ vision (above) for a more naturalized, resilient, dynamic shoreline for the future of False Creek (credit: Mithun)

- Increase public awareness of sea level rise and coastal flooding.
- Explore and develop a coastal adaptation approach that centres reconciliation with Host Nations.
- Examine options for sea level rise of at least two metres.
- Inform the next phase of Vancouver's Coastal Adaptation Plan.

### Decolonizing the Shoreline

Sea2City was grounded in a commitment to decolonization. Host Nation representatives, knowledge holders, cultural advisors, and artists held key roles in the design teams and within the larger project. Their stories, advice, and input guided the development of a powerful and positive vision for False Creek and helped shift the language and approach to coastal adaptation. Reframing the coastal adaptation approach was one of the most significant outcomes of Sea2City. "Our existing adaptation approach is a very colonial approach to our relationship with water," says Angela Danyluk, senior sustainability specialist at the City and project

lead. “It places people at the top of the value hierarchy and doesn’t respect the water,” she adds.

The vision and new approach to coastal adaptation guided the teams in developing their designs and near-term pilot projects. The focus was to produce concepts in which Musqueam, Squamish, and Tsleil-Waututh people can see themselves, their values, their knowledge, and their culture represented. “It’s extremely moving and humbling seeing this work. There are sparks of joy seeing what we’ve talked about in the drawings,” says Charlene Aleck, a Sea2City knowledge keeper from Tsleil-Waututh Nation.

### Sea2City Design Process

Two multidisciplinary planning and design teams were selected after a globally circulated request for proposals attracted submissions from Canadian and international firms. “We all stepped into this not knowing where it necessarily would go,” says Derek Lee, principal at Vancouver-based PWL Partnership and Sea2City design team lead. “We’re learning as much as we’re applying our professional expertise,” he adds. “I don’t think this could have been done without the enthusiasm of everybody, and the belief that this is leading to something much bigger.”

Sea2City was co-designed by a core planning team and followed an adaptive management approach. The design process involved three rounds of “Collaboratoriums,” where design teams, City staff, technical experts, Host Nation representatives, and youth collaborated. Additionally, there were decolonization workshops, Host Nations’ perspectives learning sessions, and public outreach events, along with a one-day inter-team design charrette for an undeveloped, City-owned site on False Creek. Over 1,200 people attended the public events, and the media covered Sea2City in local and national outlets. Sea2City also featured an arts component to showcase preliminary concepts and inform about sea level rise and coastal adaptation.

Sea2City generated dramatic, but realistic, long-term concepts for False Creek, supported by shorter-term pilot projects. Teams also developed planning documents that demonstrate the planning work required for Vancouver to move the longer-term vision forward. Public-facing illustrated “adaptation pathways” visually

## NEW APPROACH



## CONVENTIONAL APPROACH



Sea2City’s shift in the language of adaptation

showcase and outline steps and decision points that lead to the future vision. A second document provides more granular information about critical decision paths, planning steps, sequencing, and decision points linked to observed sea level rise and the realization of the final vision, including complex issues like retrofitting existing housing to make it more resilient, the gradual transfer of density away from the current shoreline to more resilient areas outside of the floodplain, and additional planning and technical assessment work.

### Outcomes Beyond Design

A key Sea2City recommendation is for Vancouver to change the language of coastal planning. Current conventional language speaks to three approaches to flood management:

- **PROTECT:** resisting water through dikes and other built features.
- **ACCOMMODATE:** letting occasional flood water come in depending on risk tolerances.
- **MOVE/AVOID:** moving development out of the floodplain.

Rethinking our relationship with the shoreline, a new approach was developed with Host Nation knowledge holders and

cultural advisors. The approaches are not mutually exclusive and can be interwoven throughout False Creek.

- **ACKNOWLEDGE:** spaces are retrofitted or relocated over time to improve their resilience and better care for and steward natural systems.
- **HOST:** a dynamic place where water, nature, and culture are welcomed and stewarded. Human uses are flexible, adaptable, and leave a light touch. Infrastructure works with nature to enhance resilience.
- **RESTORE:** a revitalized and rehabilitated shoreline that restores natural functions, features, and ecosystems and includes improved flood protection for upland communities.

The more resilient, layered approach incorporates components of acknowledge, host, and restore in each application, with certain elements being emphasized depending on the site or phase of work. “Language changes our design thinking,” says Sea2City design team lead Derek Lee.

The Sea2City team developed a set of coastal adaptation commitments that they recommend the City of Vancouver adopt to reinforce the new approach and help guide future work.



*Coastal adaptation in the City of Vancouver:*

- *Is grounded in respect for the waters, land, and each other.*
- *Meaningfully involves Host Nations in planning and implementation and ensures that Host Nation knowledge holders continue to provide guidance and leadership.*
- *Embraces living with water and builds kinship with the dynamic conditions of water and land and the species and ecosystems that call them home.*
- *Is coordinated across and within departments and agencies at the City of Vancouver in recognition of the cross-cutting challenges posed by sea level rise.*
- *Is informed by and enriched through partnerships with academic institutions, utility and asset operators, and the private sector.*
- *Recognizes that human systems can fail*

*and that working with nature is often the best long-term approach.*

**Collaboration Supports Transformation**

The sea level rise challenge does not lend itself to quick and easy implementation. Sea2City outcomes are not intended as design-builds but are meant to catalyze new ways of thinking. Sea2City envisions a more naturalized shoreline that accommodates higher waters, provides connections to the water, and creates diverse habitats. The process demonstrated how coastal cities can learn, collaborate, and innovate together with Indigenous partners and community collaborators to address sea level rise.

The City of Vancouver approved \$20 million in climate adaptation spending during the 2022 municipal election. Some funds will support Sea2City implementation work, including further development of the pilot concepts.

Other initiatives include a review of undeveloped City-owned False Creek land and a Granville Island adaptation program that will be guided by the Sea2City approach and commitments.

“[Sea2City] is trying to push the boundary of what people are willing to think about for the future,” says Jeannie Lee, a senior engineer with the City of Vancouver. “The future not as is today, but something different... a good different future.”

For more information please visit [www.vancouver.ca/sea2city](http://www.vancouver.ca/sea2city) or contact Angela Danyluk, Senior Environmental Specialist at the City of Vancouver, [angela.danyluk@vancouver.ca](mailto:angela.danyluk@vancouver.ca)

John Ingram, RPP, MCIP is a Principal and Senior Planner at EcoPlan

Evie Morin, RPP, MCIP is an Associate Planner at EcoPlan

Katherine Levett is an Associate Planner at EcoPlan



Re-imagining what Olympic Village could look like with 2-metres of sea level rise (credit: Mithun)

# Considerations in Implementing Vancouver's Rain City Strategy

Keisha Maloney, Savonnaé Street and Elizabeth Ruta



Being situated in the Fraser River Delta presents a myriad of natural and extreme climatic events for the City of Vancouver. This includes devastating floods and extreme rainfall, as seen in November 2021. Extreme rainfall events are projected to become more frequent in the city, increasing in volume by 33% on 'very wet' days and by 63% on 'extremely wet' days, increasing the risk of flooding and sewer overflow events (City of Vancouver 2019). In response, the City of Vancouver put forward the ambitious and commendable Rain City Strategy (RCS). We conducted a review of the RCS through a lens of operationalizing the goals outlined and offer three suggestions related to stormwater management and land surface permeability.

The RCS aims to manage 40% of impervious surface runoff by 2050, making Vancouver a 'water-sensitive city' as rainfall patterns increase (City of Vancouver 2019). Our review of the Strategy suggests that greater attention should be paid to connectivity, equity, and car-centrism throughout the implementation process. In this article, we discuss these gaps and identify points of intervention to enhance the implementation impact of the Rain City Strategy.

### Connectivity

In sustainability discourse, the city is conceptualized as an ecosystem where the components of the system work together to foster resilience. The RCS overlooks the importance of connectivity in stormwater management, thus we suggest applying an "acupuncture approach" where the city intervenes at specific "pressure points" to benefit the entire city (Lerner 2014; Casagrande 2016). Through targeted interventions, urban resilience can be increased during high rainfall events by substantially addressing water retention in specific areas. For Vancouver, these "pressure points" should be in low-elevation zones that are highly susceptible to flooding.

Despite Vancouver's RCS mapping of Green Rainwater Infrastructure (GRI) assets, the strategy does not highlight areas in which these assets are sparse, nor does it identify low-elevation zones as priority sites for intervention. The map

clearly demonstrates that past investment has focused on affluent neighbourhoods, contributing to green gentrification and exacerbating flood effects for those who live in low-income areas. By improving the connectivity and distribution of GRI assets, the City can simultaneously address climate injustice, flood risk, and distributional asset inequity. Planning for climate resilience requires conceptualizing the social-ecological system as being integrated and interdependent (Yumagulova and Vertinsky 2019), which points to the importance of operationalizing equity principles.

### Equity Operationalized

To achieve an equitable water future, rainwater should be captured where it lands using GRI to mimic the hydrological cycle. While rainwater must be managed on both private and public lands to meet the City's rainwater management targets,

the RCS approaches emphasize private (homeowner and developer-initiated) GRI interventions, which require ecological knowledge and significant investment by property owners (O'Neill & Cairns 2016). There is currently limited guidance provided by the City on the design, construction, maintenance, and operation of GRI assets, therefore a private-led approach to GRI implementation risks building connectivity and flood resilience primarily in affluent areas, while disadvantaging more affordable, low-elevation zones (O'Neill & Cairns 2016). This owner-reliant approach to GRI asset investment increases vulnerability due to flood impacts for low-income residents.

To meaningfully operationalize equity, the City should explicitly target low-income neighbourhoods that are in low-elevation zones for GRI asset development. Further, including action-based partnerships with the Musqueam,



Photos: Keisha Maloney

Squamish, and Tsleil-Waututh Nations can foster an exchange of local, ecological knowledge. Moving from seeing equity as a core dimension to operationalizing it as a concrete function is critical to meeting Vancouver's RCS targets.

### Auto-Centrism

Vancouver's RCS and current transportation policies insufficiently resist car-centrism by primarily promoting mode switching from private motorcar travel to public transportation or cycling. Research shows that encouraging people to switch their mode of transit is complex and often ineffective (see Graham-Rowe et al. 2011). Given this context, and as there are plans to rededicate portions of some streets as public plazas, the City could consider retrofitting parking spaces for stormwater management when implementing the RCS.

As of 2016, ICBC reported that 270,000 private automobiles were registered to Vancouver addresses, with 2021 seeing an additional 29,000 new vehicles – more than double the previous five years



combined (Korstrom 2017; Labbé 2022). Considering private driveways, parking garages, parking lots, and street parking, a significant amount of land is devoted exclusively to housing halted vehicles. These spaces are composed of concrete, an impervious surface that contributes to flooding and runoff. If land allocation for cars is to remain, it should be retrofitted to be pervious and uphold ecosystem services.

An example of pervious, biodiverse parking can be found in Hannover, Germany, where all parking lots are required to have permeable surfaces, contributing to a broader, ecological system. Hannover's drainage system mimics natural processes and involves an interconnected system of bioswales, which prohibit overflow from extreme rainfall events (Hellberg 2020). While reducing car dependency is an ongoing social challenge, planners can begin by requiring parking spaces to positively contribute to the urban ecosystem.

We offer these suggestions as opportunities for the City of Vancouver to intervene in support of the ambitious goals outlined in the RCS. As we work to make Vancouver a 'water-sensitive city,' we encourage practitioners and policymakers to improve the connectivity of GRI assets, implement such assets in low-elevation and low-income areas, decrease reliance on private landowners to implement GRI assets, and consider alternatives to car-centric land use, including retrofitting land dedicated for parking. With such considerations, we believe the Rain City Strategy will contribute meaningfully to Vancouver's climate mitigation and adaptation endeavours.

Keisha Maloney is a PhD Candidate at the School of Community and Regional Planning at the University of British Columbia. Her research interests include planning for environmental and procedural justice, particularly with urban Indigenous communities.

Savonnaé Street is an MA Candidate at the School of Community and Regional Planning at the University of British Columbia. Her interests include equity, plan evaluation and environmental planning.

Elizabeth Ruta is a BSc Natural Resource Conservation graduate from the University of British Columbia and is pursuing a career in sustainable urban planning in the UK.

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# PIBC 2023 ANNUAL CONFERENCE

Register today and join us in-person in the beautiful mountain resort village of Sun Peaks, or register to join us virtually online.

The theme for this year's annual conference – It Takes a Village – is influenced by its location in this picturesque mountain community and the collaborative and community-oriented nature of planning.

Register today and join us for the planning event of the year! We will hear from a range of planners on how their planning work is embracing the village concept aspects of planning as we reconnect, network, learn and expand our professional knowledge and skills.

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## PIBC BOARD NOTES

On **December 2<sup>nd</sup>, 2022**, the PIBC Board of Directors met at Vancouver Island University in Nanaimo, BC.

It was acknowledged that the meeting was taking place on the traditional territories of the Snuneymuxw First Nation. Members and guests introduced themselves.

### DELEGATION

Dr. Pam Shaw RPP, FCIP from the Vancouver Island University (VIU) Master of Community Planning program welcomed the Board and provided an update on the VIU program and ongoing activities at VIU – highlighting the history of the program since its launch, ongoing collaboration within the local region, mentorship support for students, and the incorporation of practical projects within the program.

### PRESIDENT

David Block RPP, MCIP provided an update on various activities, including the recent annual World Town Planning Day event, ongoing work and meetings at the national level, and plans for upcoming outreach meetings with the BC Provincial Government in the new year.

### BOARD & GOVERNANCE

The Board reviewed and discussed progress on various goals and tasks from the 2021-2023 Strategic Plan. A number of ongoing initiatives and tasks were reviewed and discussed.

There was additional discussion regarding the Institute's government outreach activities and the work of the Policy & Public Affairs Committee, including discussion of the new BC Professional Governance Act and its potential impact on or opportunities for the Institute.

### ADMINISTRATION & FINANCE

Executive Director Dave Crossley reported on the ongoing and key projects, initiatives, and activities at the PIBC office, including work on the recent World Town Planning Day event, work on membership renewals for 2023, and other activities.

The Board reviewed the 2022 unaudited financial statements to Oct. 31, 2022, for information. It was noted that the Institute continued to remain in a very healthy financial

position. Additionally, a copy of the final 2023 operating budget was circulated for information as previously approved.

### MEMBER PROGRAMS & SERVICES

The Board discussed the Institute's annual World Town Planning Day gala event and opportunities to update the format and program for the event in the future. An informal working group of Board members volunteered to assist with work on potential changes and updates.

### COMMITTEE REPORTS & BUSINESS

**Membership:** The Board approved the admission of a number of new members, and a number of membership transfers and other changes, including membership time limit extensions for certain Candidate members.

### INSTITUTE REPRESENTATIVE REPORTS & BUSINESS

The Student member representatives from SFU and VIU each provided a brief update to the Board on activities at their respective university planning programs.

### NEXT MEETING(S)

It was noted that the next Board meeting would be held in person in Victoria on January 27<sup>th</sup>, 2023, along with meetings with and outreach to the BC Provincial Government.

On **January 27<sup>th</sup>, 2023**, the PIBC Board of Directors met in Victoria, BC.

It was acknowledged that the meeting was taking place on the traditional territories of the Songhees and Esquimalt First Nations. Members and guests introduced themselves.

### DELEGATION

Jessica Brooks, Eric Nichols, and Lesley Scowcroft from the BC Ministry of Housing, Planning and Land Use Management Branch, delivered a presentation providing the Board with an update and overview of the current work of the Ministry and Branch, highlighting key projects related to housing, development approvals, and other areas. There was discussion with the Board about ongoing collaboration and engagement between the Ministry and the Institute and profession.

### PRESIDENT

David Block RPP, MCIP provided an update on various activities. It was noted

that meetings had been held very recently in Victoria with representatives from the Ministry of Housing and from the Ministry of Municipal Affairs, and ongoing efforts continued to further engage with government on key topics of interest and relevance to the planning profession.

### BOARD & GOVERNANCE

The Board reviewed and discussed progress on various goals and tasks from the 2021-2023 Strategic Plan. A number of ongoing initiatives and tasks were reviewed and discussed.

There was additional discussion regarding potential enhancements to the tracking and monitoring of strategic tasks, as well as the potential need to add additional staff resources and capacity to further advance key goals and tasks into the future.

### ADMINISTRATION & FINANCE

Executive Director Dave Crossley reported on the ongoing and key projects, initiatives, and activities at the PIBC office, including work related to 2023 membership renewals and CPL reporting by members, work in support of government outreach, work on governance and nominating activities, and preparatory work for the 2023 annual conference in Sun Peaks.

The Board reviewed the 2022 unaudited financial statements to December 31, 2022, for information. It was noted that the Institute continued to remain in a very healthy financial position, and it was also noted that the year-end figures were unaudited and therefore subject to further adjustment and revision as part of the annual audit process.

### NATIONAL AFFAIRS

The Board reviewed and discussed correspondence and supporting information from the national Professional Standards Committee regarding proposed revised competency standards for the profession, for which the Committee was seeking formal feedback from the Institute. Following initial discussion, it was agreed that the Board would convene a follow up meeting in February to complete its review of the proposed competency standards, and to provide feedback to the Committee accordingly.

SAVE THE DATES!

## COMMITTEE REPORTS & BUSINESS

**Professional Standards & Certification:** The Board approved the admission of a number of new members, and also approved or acknowledged a number of membership transfers and other membership changes.

**Policy & Public Affairs:** The Board reviewed and discussed proposed work from the Policy & Public Affairs Committee to explore, review and analyze the new Professional Governance Act and its potential relevance to and impact on the Institute and the planning profession. The Board approved the proposed work and allocated funding to support the engagement of professional expertise to assist in undertaking the work.

## LOCAL CHAPTERS

**Kootenay Rocky Mountain:** The Chapter's 2022 annual report was reviewed. The Board approved receipt of the report and the release of the Chapter's 2023 annual seed funding.

**Okanagan Interior:** The Chapter's 2022 annual report was reviewed. The Board approved receipt of the report and the release of the Chapter's 2023 annual seed funding.

**Sunshine Coast:** The Chapter's 2022 annual report was reviewed. The Board approved receipt of the report and the release of the Chapter's 2023 annual seed funding.

**Vancouver Island North:** The Chapter's 2022 annual report was reviewed. The Board approved receipt of the report and the release of the Chapter's 2023 annual seed funding.

## INSTITUTE REPRESENTATIVE REPORTS & BUSINESS

Brief updates on the activities of the university planning programs at SFU and VIU were provided by and on behalf of the Student member representatives from the respective programs.

## NEXT MEETING(S)

It was noted that the next regular Board meeting would be held in person in Prince George on March 10th, along with a UNBC student social event. It was further noted that a special follow up Board meeting would be scheduled in February to conclude unfinished business related to national affairs, as discussed.

## UPCOMING WEBINARS

Save the dates for these exciting and informative PIBC CPL webinars & online events!

### PIBC 2023 Annual Conference In-person at Sun Peaks or virtually online May 30 - June 2, 2023

Join hundreds of planners and other professionals from across BC, Yukon, and beyond in-person at Sun Peaks or virtually! This four-day conference will be packed with various professional development opportunities, networking events, and more\*! [www.pibc.bc.ca/annual-conference](http://www.pibc.bc.ca/annual-conference).

*\*Members can fulfill their annual continuous professional learning (CPL) requirement (minimum of 18.0 learning units from a combination of organized and self-directed learning activities) by attending the PIBC annual conference.*

*For current webinar information, registration, and the latest details on other CPL webinar offerings, please visit [www.pibc.bc.ca/pibc-webinars](http://www.pibc.bc.ca/pibc-webinars).*

### PIBC CPL Webinar #5: Cohousing Fundamentals June 28, 2023

This insightful webinar will present the fundamentals of cohousing and multi-family housing that support social connections between neighbours. A case study will illustrate how one development was able to deliver 8 family-sized homes at 25% below market to support missing middle housing. Practical municipal policies and actions will be discussed as they play an important role in contributing to the success of cohousing developments.

### PIBC CPL Webinar #6: In Recognition of National Day of Truth & Reconciliation September 27, 2023

This Indigenous-led annual webinar continues our journey of reconciliation through exploration and learning.

On **February 24th, 2023**, the PIBC Board of Directors met for a special meeting in Vancouver, BC.

It was acknowledged that the meeting was taking place on the traditional territories of the Musqueam, Squamish and Tsleil-Waututh First Nations. Members and guests introduced themselves.

## NATIONAL AFFAIRS

The Board continued the review and discussion from its January meeting of the correspondence and supporting information sent from the national Professional Standards Committee regarding proposed revised competency standards for the profession, and for which the Committee was seeking formal feedback from the Institute. The Board received an overview presentation on the process and work undertaken thus far at the national level to develop the proposed standards as circulated. The Board

discussed at length overall comments and feedback, as well as more specific feedback and comments on the individual roles, competencies, and proposed indicators that comprised the proposed revised competency standards.

Following extensive discussion, the Board confirmed its overall support for the proposed revised competency standards, and further agreed that the Board would, working with staff, confirm and finalize additional, specific written comments and feedback on the proposed revised competency standards, based on the discussion, which would be forwarded to the national Professional Standards Committee accordingly.

## NEXT MEETING(S)

It was again noted that the next regular Board meeting would be held in person in Prince George on March 10th, along with a UNBC student social event.

# MEMBERSHIP REPORT

DECEMBER 2, 2022

## Welcome New Members!

### Congratulations and welcome to all the new PIBC Members!

At its meeting of December 2, 2022, it was recommended to and approved by the Board to admit the following individuals to membership in the Institute in the appropriate categories as noted:

#### CERTIFIED:

**Keith Batstone**  
(Transfer from API)  
**Cameron Bourne**  
**Kimberly Brunet**  
**Felipe Canavera**  
(Transfer from APPI)  
**Tyler Caswell**  
**Keltie Chamberlain**  
**Marc Cittone**  
**Michael Friesen**  
**David Hawkins**  
**Trevor Empey**  
(Transfer from OPPI)  
**Price Leurebourg**  
**Anna Lim**  
(Transfer from OPPI)  
**Evie Morin**  
**Stephanie Pawluk**  
**Aaron Penner**  
**Janu Raj**  
**Demian Rueter**  
**Jessie Singer**  
**Maureen Solmundson**  
**Michael Watibini**  
**Emma Watson**  
**Thea Wilson**  
**Carlos Zavarce**  
**Anna Zhuo**

#### CANDIDATE:

**Gurkanwal Boparai**  
(Transfer from OPPI)  
**Alyssa Bouchard**  
**Imogene Broberg-Hull**  
**Evan Chorlton**  
**Forrest Elliott**  
**Sarah Foulkes**  
**Gina Fung**  
**Katherine Hadzipetros**  
**Chris Humphries**  
**Benjamin Kent**  
**InGi Kim**  
(Transfer from OPPI)  
**Alyssa Koehn**  
**Elise Leeder**  
**Carson Mackonka**  
**Rachel Rauser**  
**Chris Ray**  
**Adam Roberts**  
**Jack Shipton**

#### STUDENT:

**Maria Baquero** (VIU)  
**Nadine Bell** (UBC)  
**Maya Blood** (UBC)  
**Mia Bojic** (UBC)  
**Beatrice Borres** (UBC)  
**Sydney Bolton** (SFU)  
**Emily Burkholder** (SFU)  
**Wesley Chenne** (SFU)  
**Mackaila Ching** (SFU)  
**Audrey Choong** (UBC)  
**Kylie Clark** (UBC)  
**Maggie Cross** (SFU)  
**Reyhan Cuming** (UBC)  
**Tanmoy Dev** (VIU)  
**Caroline Dunaux** (UBC)  
**Sophia Elliott** (UBC)  
**Piper French** (SFU)  
**Blake Glassford**  
(Joint with OPPI – Guelph)  
**Reachelle Goodkey** (UNBC)  
**Keone Gourlay** (UNBC)  
**Samuel Hadfield** (UNBC)  
**Natalia Hayes** (UBC)  
**Himashri Heerekar** (VIU)  
**Alex Heilmann** (UBC)  
**Kirsten Hoog** (VIU)  
**Benita Ikirezi** (UBC)

**Heather Kee** (SFU)  
**Martha Killian** (SFU)  
**Sayani Mandal** (UBC)  
**Kai Hei Mau** (UBC)  
**Aidan McCulloch** (VIU)  
**Amy Metzger** (SFU)  
**Simarjeet Nagpal** (UBC)  
**Fumika Noguchi** (UBC)  
**Samuel Teye Ofoe** (SFU)  
**Melissa Pais** (UBC)  
**Jennifer Poole** (UNBC)  
**Santiago Rodriguez Arenas** (UBC)  
**MacKenzie Schmidt** (UBC)  
**Benjamin Schulz** (SFU)  
**Jasmeen Kaur Sidhu** (UBC)  
**Rajpreet Sidhu** (UBC)  
**Griffin Slimkowich** (SFU)  
**Adam Smith** (VIU)  
**Lauren Smith** (SFU)  
**Cloe St-Jean** (UBC)  
**Amelia Sutherland**  
(Columbia – USA)  
**Zoe Tapert** (UBC)  
**Chloe Taylor** (UNBC)  
**Ruofan Wang** (UBC)  
**Shruti Wani** (SFU)  
**Tracy Wilkins** (UBC)  
**Songsong Wu** (UBC)  
**Nathan Zemp** (SFU)

#### RETIRED:

**Michael Hartford**  
**Jennifer Hill**  
**Catherine LeBlanc**

#### PRE-CANDIDATE:

**Paul Boniface Akaabre**  
**Jessica Glover**  
**Erin Powers**  
**Annie Slater-Kinghorn**

## Member Changes

It was further recommended to and approved by the Board to grant or acknowledge the following membership transfers and changes in membership status for the following individuals as noted:

#### FROM CERTIFIED TO MEMBER ON LEAVE:

**Margaret Eberle**  
**Karin Kronstal**  
**Ellen Larcombe**  
**Teresa Mahikwa**  
**Frances Woo**

#### FROM CANDIDATE TO MEMBER ON LEAVE:

**Kristy McConnel**

#### FROM MEMBER ON LEAVE TO CERTIFIED:

**Margaret Eberle**  
**Brianne Labute**  
**Sara Stevens**  
**Brian Zurek**

#### FROM MEMBER ON LEAVE TO CANDIDATE:

**Natalie Cho**  
**Emily Macdonald**

#### RESIGNED:

**Kayla Jaffe**  
**Monica Korczewski**  
**Olivia Light**



**JANUARY 27, 2023**

**Welcome  
New Members!**

**Congratulations and  
welcome to all the new  
PIBC Members!**

At its meeting of January 27, 2023, it was recommended to and approved by the Board to admit the following individuals to membership in the Institute in the appropriate categories as noted:

**CERTIFIED:**

- Waverley Birch**  
*(Joint with APPI)*
- Daniel Haufschild**  
*(Joint with OPPI)*
- Bruce Irvine**  
*(Transfer from APPI)*
- Carman Yeung**  
*(Transfer from OPPI)*

**CANDIDATE:**

- Hayley Burns**
- Tamera Cameron**
- Chelsea Craig**
- Juan Paolo Dantes**
- Trevor Dickie**
- Elsabe Fourie**
- Kari-Ann Gandy**
- Jay Hazzard**
- Purnesh Jani**  
*(Transfer from APPI)*
- Katherine Janota-Bzowska**
- Jayden Koop**
- Jay Maloney**
- Amanda Masse**
- Mikaila Montgomery**
- Santana Patten**
- Joseph Peace**
- Emily Proskiw**
- Victoria Salisbury**
- Dawn Smith**
- Deanna Wasnik**
- Monica Whitney-Brown**
- Shirley Wu**
- Maggie Yet**  
*(Transfer from OPPI)*

**STUDENT:**

- Alyna De Guzman** *(SFU)*
- Dennis Liu** *(SFU)*
- Bradley Sarandi**  
*(Joint with APPI – Univ of Alberta)*
- Gesar Saunders**  
*(Joint with APPI – Univ of Alberta)*
- Carley Termeer** *(SFU)*
- Samual Tomkins** *(McGill University)*
- Ellen Watters** *(SFU)*
- Ho Nok (Aiden) Woo** *(SFU)*

**RETIRED:**

- Donald Alexander**
- Gail Andestad**
- Carl Bannister**
- Joan Chess-Woolacott**
- Jean Porteous**
- Gwendolyn Sewell**
- Margaret-Ann Thornton**

**PRE-CANDIDATE:**

- Adriana Cameron**
- Rodolfo Paras Diaz**
- Anna Marie Repstock**

**Member Changes**

It was further recommended to and approved by the Board to grant or acknowledge the following membership transfers and changes in membership status for the following individuals as noted:

**FROM CERTIFIED TO MEMBER ON LEAVE:**

- Liberty Brears**
- Angela Davies**
- Jeanette Elmore**
- Penny Gurstein**
- Leah Irvine**
- Teresa Kaszonyi**
- Catherina Lisiak**
- Chris Marshall**
- Jennie Moore**
- Tracy Olsen**
- Philip Testemale**
- Mary Wong**

**FROM CANDIDATE TO MEMBER ON LEAVE:**

- Tamera Cameron**
- Stephani McPhee**
- Kai Peetoom**

**FROM MEMBER ON LEAVE TO CERTIFIED:**

- Kristin Aasen**
- Jacqueline Arling**
- Maira De Avila Wilton**
- Ashley Elliott**
- Lynda Fyfe**
- Greg Gebka**
- Lea Hastie**
- Karen Hemmingson**
- Karen Kreis**
- Jennifer Meurer**
- Andrea Wen**
- Mary Wong**

**FROM MEMBER ON LEAVE TO CANDIDATE:**

- Graeme Buffett**
- Savannah Zachary**

**RESIGNED:**

- Samantha Bohmert**
- Dennis Carlsen**
- Diana Collicutt**
- John Cornelissen**
- Nancy Dube**
- Sophie Eckard**
- Helen Garbiec-Ho**
- Cameron Graham**
- Jeffrey Hamm**
- Marlaine Joe**
- Lisa King**
- William (Bill) Low**
- Mike Maturo**
- Yasaman Mohaddes Khorassani**
- Louise Morris**
- Raymond Nothstein**
- Margaret Picard**
- James Pratt**
- Jennifer Reilly**
- Brian Riera**
- Adam Shamchuk**
- Jacint Simon**

- Marnie Skobalski**
- Katrina Tarnawsky**
- Shazeen Tejani**
- Suzanne Theurer**
- Thomas Thivener**
- Marion Town**
- Joyce Uyesugi**
- Lisa Zosiak**

**Membership  
Time Limits:**

It has been reported and confirmed by the PIBC Board of Directors on January 27, 2023, that the following individuals had reached or exceeded the prescribed time limits to remain a Candidate member and, in accordance with the Institute's bylaws, ceased to be Candidate members of the Institute effective as of December 31, 2022:

**Lucas Berube**

It was further reported and noted that 55 Student members ceased to be members due to the expiration of applicable time limits on remaining as Student members.



**WEeping WALL, KAUAI ISLAND, HAWAII**

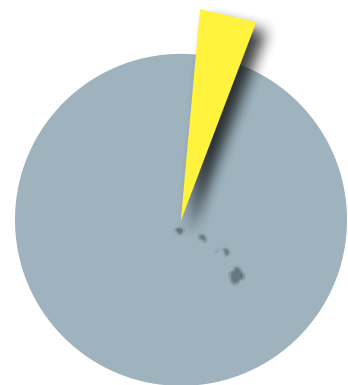
Kauai is a Hawaiian island nicknamed "The Garden Isle" due to the tropical rainforest that covers most of its surface. Aside from the dramatic cliffs on the well-known Na Pali Coast (a location used in blockbuster movies), deep in the heart of this island, within one of the wettest spots on earth, is a stunning collection of waterfalls known as the Weeping Wall.

As one of the most remote sightseeing locations on Kauai, these waterfalls cascade down the towering cliffs of Mount Waialeale (the name means rippling water), a mountain that stretches more than 5,000 feet into the sky. The waterfalls come together in a crater at the base known as the Blue Hole. When Mount Waialeale is seen from above (through open-door helicopter tours) or looking upwards from the Blue Hole base (an extremely challenging hike), the waterfalls look like streams of tears "weeping" down the mountain.

Due to its very remote location, to view this majestic natural wonder on foot, only the most experienced hikers are recommended to make their way cautiously to the Blue Hole. This challenging trek is a lightly marked trail of five miles (often hit with sudden heavy rainfall and unexpected flash floods) with a total elevation gain of 1,502 feet.

**Source:**

<https://hawaiianislands.com/kauai/blog>



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