

# ALBERTA WATER COUNCIL

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MEETING #54

June 17, 2020

Remote – Zoom Conferencing

## Executive Summary

This general meeting of the AWC board was convened immediately following the 2020 AGM, which is documented separately. Both meetings were held remotely. The board welcomed Steph Neufeld (Lake Environment Conservation) and Vicki Lightbown (Science and Research) as returning board members.

Board members commended the Building Resiliency to Multi-Year Drought in Alberta Project Team for its outstanding work. The materials developed by the team should be excellent resources for municipalities. The board approved the draft guide, the companion report, and the communications plan, and agreed to disband the team.

A revised Statement of Opportunity for the Source Water Protection (SWP) Toolkit was presented to the board. The new focus would be on developing a web platform including practical tools and resources to support SWP. The project would be broken down into a risk assessment phase and an implementation phase, with opportunities for collaborative partnerships. It may be possible for the Government of Alberta (GoA) to host the platform. The board approved creating a working group to draft terms of reference for developing a SWP web platform.

The final board decision at this meeting was to extend the deadline for the *Water for Life* Implementation Review Committee's work to November 2020.

The executive committee led the board in a discussion to identify new areas of high priority work for the AWC. Several ideas were put forward, and others were added during the discussion. The board agreed on two areas that could be further fleshed out:

- Wetland Policy Implementation and Review.
- A “think piece” on where AWC members think we need to go in the future with provincial water management in terms of challenges and opportunities, considering the impacts of climate change, the need for resiliency, and the desire for an outcomes-based approach.

Staff will draft material and pull together some ad hoc groups to frame these issues for further discussion by the board over the summer.

The GoA provided a written update to the board prior to the meeting and AWC President Bev Yee supplemented this with comments regarding AEP's reorganization and environmental monitoring.

The board had a brief discussion about recommendation tracking; staff will follow up to gather additional information.

The next meeting is scheduled to be held in Calgary on November 5, with the recognition dinner tentatively planned for the night of November 4.

## Summary of Discussion

The regular board meeting was convened at 9:35 a.m. immediately following the AGM. Andre Asselin chaired the meeting. Steph Neufeld and Vicki Lightbown were welcomed as returning board members. Andre introduced Alec Carrigy, a new project manager who started with the AWC and the Clean Air Strategic Alliance (CASA) on April 6.

Andre acknowledged that last month Christa Edwards, the Board and Office Administrator for AWC and CASA, passed away. Thoughts and prayers from the staff and board members were communicated to her family, and AWC sent flowers to her family on behalf of everyone at the Council.

### 1 Administration

#### 1.1 Approve the meeting agenda

Andre reviewed the agenda, which was adopted by consensus.

#### 1.2 Review actions from last meeting

One action remained, which will be noted in relation to agenda item 3. No further action is required. Board members had no comments on this item.

#### 1.3 Approve the summary report from the February 25, 2020 meeting

Minor edits on the summary report were submitted following the previous meeting and have been incorporated.

*Decision 54.1: The board approved the February 25, 2020 meeting summary by consensus and it will be posted to the website.*

### 2 Building Resiliency to Multi-Year Drought Project Team

Project team co-chair Margo Redelback provided a presentation on the team's process and final deliverables, and Tim Romanow, the WPAC co-chair for the project team, also attended to answer questions. The team has been working for two years and completed a draft of the guide to assist WPACs with engaging municipalities; the guide includes lessons learned from previous droughts, the expected impacts of climate change in relation to drought, drought management information and resources from Alberta, key learnings from sector and stakeholder interviews, and drought case studies from other jurisdictions. The associated draft companion document outlines the project methodology, as well as recommendations for performance evaluation and suggestions to WPACs for success. Materials from a pilot workshop to test the project materials with WPACs and municipalities are included as an appendix.

#### Discussion

Several board members commended the team for its outstanding work, expressing the view that this should be an excellent resource for municipalities. The project also offers opportunities for partnerships and the workshop model seems to be a very good one.

- WPACs received a four-year grant from the GoA to help with core operations, and this project will become a core deliverable. Additional funding is not being sought at present.

- Regarding next steps, the products are in the design phase and when that work is done, AWC will make them publicly available on the website.
- WPACs expect to familiarize their staff with the material and have it available within this fiscal year; a couple of workshops will be delivered this winter. It is likely that WPACs will be updating their websites so they can better undertake this work.
- Partnerships should be sought with the Rural Municipalities of Alberta (RMA) and the Alberta Urban Municipalities Association (AUMA) would likely also be interested.
- This project raises the likelihood of issues concerning instream flow needs and management license priorities, which we anticipate the GoA will be prepared to address.

***Decision 54.2: The board:***

1. ***approved the Building Resiliency to Multi-Year Drought in Alberta Draft Guide and Drought Resiliency Project Companion Report***
2. ***approved the communications plan***
3. ***agreed to disband the Building Resiliency to Multi-Year Drought in Alberta Project Team***

Andre thanked the project team members and staff. Staff will prepare the documents for formal release in the coming months.

### **3 Statement of Opportunity – Source Water Protection Toolkit**

Phil Boehme from Alberta Environment and Parks spoke about the revised Source Water Protection (SWP) Statement of Opportunity (SoO). This SoO was brought forward at the last board meeting and the board requested further work to scope the issue and ensure there is a client and need for the project. An ad hoc group held an additional meeting to discuss the project. An updated SoO was developed and included in the board materials.

Phil did not provide a formal presentation, but had the following comments:

- The Guide to SWP Planning and the companion report were released by the AWC on Monday and Phil encouraged members to share the documents within their sectors and among their partners.
- The SoO presented at the last board meeting was based on the previous SWP project. Some board members expressed concerns, specifically around: capacity for drinking water providers, access to data, who is the primary audience for the toolkit, and the scope of the work. An ad hoc group of over a dozen people, including potential partners, board members, and project team members met on April 30 to discuss those questions and how they could be approached. The focus was on capacity and access to data.
- The group suggested developing a web platform including practical tools and resources to support SWP. That's where most of the revisions to the SoO were made.
- The project would be broken down into a risk assessment phase and an implementation phase. Risk assessment would involve compiling the data and providing information and training to support the risk assessment process. Implementation would focus on the "how-to" of acting on the identified risk through mitigation measures and collaborative partnerships.
- The group simplified the approach so that the primary audience would be drinking water providers, recognizing that tools and resources developed may need to be targeted to small or large systems.

- The new proposal is based on collaborative partnerships, which is especially important for small communities. WPACs and Alberta Water and Wastewater Operators Association (AWWOA) have both expressed interest in the project.
- The GoA seems to be the logical host for the web platform, which would require working with Service Alberta. A formal request has been submitted to Service Alberta to determine if this is feasible and we are awaiting a response. There is a good opportunity to align this project with some similar projects underway to enhance data access.

### Discussion

- It would be great if GoA could host the web platform.
- Does this work duplicate the Alberta Water Portal?
  - The Alberta Water Portal is a place for information; this is more about access to data to assess risks. We want to avoid duplication of effort and would seek to partner with others with data relevant for SWP planning, risk assessment, and implementation.
- For small waterbodies in Alberta, the risks are split between municipalities and different land use bylaws, which can create problems.
- In doing a SWP plan, the first thing is to delineate your area, collect land use maps, get water quality data, think about doing a risk assessment and look at the biggest areas of mitigation. It can take months to get the information together in one place. The intent is to centralize all the information in one place so that it is easily accessible by those who are undertaking SWP planning
- Could the name of the project be changed to focus on drinking water?
  - The working group would make that decision.
- Is the intent of the tool to provide some expertise to users or do you need qualified users to do the work?
  - Both, but this is something the working group would have to sort out. Different providers will have different levels of capacity and we haven't yet had that level of discussion. We need to start small and build from there.
- This service should be free for Albertans.
  - We expect the data access to be open source and remain free. There may have to be a fee for the training component if it's done through the AWWOA.
- Additional information could be provided from CAPP and there could be a portal for CAPP members to use.
- The other ad hoc Lake Group being spearheaded by Jason Unger is looking at a decision tree approach for how management choices are considered. There is an opportunity to merge with the type of tools the SWP will develop to help us drive to better use of tools and better decision making.
- When can we expect a decision from the GoA on hosting and maintenance? Do we need that decision before we can move forward?
  - We need to confirm that the project is going ahead before GoA will allocate funding for the web hosting.
- Would that funding be for both development and ongoing maintenance?
  - That will need more discussion, but it shouldn't be an issue as it aligns with other work.
- Pulling the information together in a central location is an excellent element of this project, but I continue to have some concerns. If the focus is changed to drinking water, municipalities will push back. There are also concerns around the language for providers

to improve mandatory plans. Will this create additional work? If this is tied to mandatory drinking water safety plans and SWP is optional for municipalities, we might muddy the waters and unintentionally create more work.

- We want to ensure there is clear communication about expectations. We don't want to make anything mandatory that is currently voluntary. It's about access to information, and what drinking water providers do with it is up to them.
- The working group will address a number of these things as they define the project's scope, timelines, and resources required.
- It makes sense for GoA to host the platform, but AWC could host if the funds were available.

***Decision 54.3: The board approved the creation of a working group to develop terms of reference for creating a Source Water Protection Web Platform.***

#### **4 Water for Life Implementation Review (WFLIR) Committee Update**

Andre provided a concise update on this committee's work. The WFLIR Committee gave a thorough update in February and said they would be looking for an extension at a future meeting. The decision sheet described the team's request, noting that the final product will not be ready until November. Board members had no questions.

***Decision 54.4: The board approved by consensus to extend the deadline for the WFLIR committee until November 2020.***

- The package notes that the committee is talking about metrics. If there are metrics, it would be helpful to have them ahead of the full report so the review of that report could be accelerated.
  - Andre Asselin: We can consider that. It makes sense to share metrics with the board in advance so we can get input prior to the second round of sector engagement.

#### **5 Discussing New Areas of High-Priority Work for AWC**

The executive committee led the board in a discussion to identify new areas of high-priority work. The AWC is always looking for important work, but perhaps the pandemic and challenging economic environment have changed priorities. We are looking for co-benefits; the world is changing, how can we adapt to provide value for our members? Four initial ideas were described in the briefing package. Each executive member provided brief comments as context for this discussion.

- The executive committee (EC) agreed it wanted to use this opportunity to check in. As we step back and look at all things water, is there something that's an opportunity? We did frame it for short timeframes, but that shouldn't limit it. We saw the work this morning that was a two-year project, and if there's something along those lines we should raise it as well. The four things in the package are from the EC discussion. We want to get a sense from the rest of the board what are worthwhile projects from your sectors.
- We recognize the importance of timelines, but are there mutually beneficial things we could be looking at that would allow us to move forward in a way that benefits all of us?

- One item pertains to the wetlands policy and whether there is an appetite to look at this. It's been 12 years since AWC submitted that package and 4-5 years since implementation. In the forest sector, we're seeing scope creep. If we have a longer term cut-block in place, once the trees are removed you get water pooling. As we do development on some of these sites they're now being classified as wetlands as they develop some wetland plants and soil types. The sector should be getting credit for creating wetlands, but instead it's having to assess them as wetlands and basically pay for wetland mitigation if we do development such as remote log yards. Is there any appetite for a proposal for a multi-stakeholder team to review current practices, environmental effectiveness, etc. of the application of the policy? It should not cost anything and could be fairly effective for government and stakeholders to see where we sit with the policy and make sure it's as effective as it can be.
- This government is excited about red tape reduction and in looking at some of the environmental regulations around the lands and water act pieces, so there may be a win in there for us.

### Discussion

- It is a fair comment to encourage some reflection on implementation of the wetland policy to see how it is working and if it's achieving the intended outcomes. The GoA considers this to be something worth looking at.
- Resources would be needed to determine whether wetland function is being maintained. It should include an audit of restoration effectiveness.
- With respect to implementation of the *Wetland Policy*, ultimately, it's about more than the mitigation process. We are working on wetland inventory standards to determine if we are seeing net restoration or net loss and would support work in this area. You can't manage what you can't measure.
- Several board members expressed support for the idea of including an audit to determine wetland restoration effectiveness.
- Capacity remains the challenge. With COVID, oil prices, and the economic situation of the government, I have concerns about monitoring, evaluation, planning, and assessment around water – whether it's conducted by government or otherwise. How are we going to manage our water resources in the longer term and how can AWC play a role in how we fund water management in our province? There may or may not be a role for us, but it's a challenge that needs to be met.
- Given current financial and capacity challenges, we are in a good position to look at many aspects of how we manage water. Technologies exist for municipalities (e.g., stormwater and water treatment systems) that are allowed in other jurisdictions but not here. They can achieve the desired outcomes at much lower cost. AUMA is pushing to become more outcome focused and there is an opportunity to look at what other jurisdictions are doing. Major wastewater treatment systems are more costly than other effective options. Water reuse and other approaches can result in better water management.
- EPCOR has developed an integrated total loading plan and an integrated watershed management strategy. The company has spent a lot of money to reduce total suspended solids in stormwater so less goes into the river, rather than spend on upgrades to the treatment plant. It is a good model that could be shared with others.
- These aspects are linked and the number of issues to consider expands quickly. How we approach water management is inherent in how the costs are borne by municipalities. If

we wanted to start a project team, we could look at cost effectiveness of water management, but it would be a huge project. Regulatory efficiency, and monitoring/planning/assessment are related but separate pieces.

- A “think piece” on future provincial water management needs, opportunities, and challenges could be valuable, considering the impacts of climate change. Resilience needs to be built into the system. It is a challenge for smaller municipalities to meet standards and maintain operators as well as infrastructure. I also heard concerns around a dated regulatory system that might be overly prescriptive at a time when we’re trying to shift to a more outcomes-based approach. Monitoring and data is so important to inform our decisions. Could AWC take on development of a think piece on where we need to go in the future, identify some of the vulnerabilities, and note opportunities and direction to take as a way to strategically inform the GoA? It could look at the challenges and opportunities related to water over, say, the next ten years. This would come from the AWC, with information from the sectors, and would identify opportunities for collaboration and cooperation.
- The WFLIR committee has gathered a lot of information that could help provide a foundation for such a think piece.
- This could potentially be combined with the federal water mandate to ensure that we are thinking both locally and more broadly.
- The federal process is moving quickly. Western Economic Diversification held workshops earlier that could inform water management challenges, opportunities, and priorities, prairie-wide and for each of the three prairie provinces (Alberta, Saskatchewan, and Manitoba).
- Layering climate change events and a risk framework would be extremely valuable at a local and provincial level.
- Regional water quality management frameworks and how they interface with all sectors and WPAC plans could be examined too.
- Is it feasible to create underground water storage, similar to what is being used for carbon capture, where a municipality can retrieve the water during high needs periods?
- We need a better understanding of how land and water planning is really integrated. We want to ensure there is a feedback loop for the planning process and the people who make decisions refer to the documents we assemble.

Andre summarized the discussion, noting there appears to be support to start considering how to move three pieces of work forward. The three topics are:

1. Wetland Policy Implementation and Review including an audit on restoration effectiveness.
2. Review of how we manage water in Alberta, looking at other jurisdictions, identifying opportunities, and gaps. This would relate to regulatory efficiency, monitoring, and assessment.
3. A “think piece” on where we need to go in the future of provincial water management considering current and upcoming challenges and opportunities, considering the impacts of climate change, the need for resiliency, and the desire for an outcomes-based approach.

The board was polled as to its preferences for priority work, with topics 1 and 3 emerging with the most support.

*Decision 54.5: The board approved the creation of two ad hoc groups to explore how to move ahead on the Wetland Policy Implementation and Review including an audit on restoration effectiveness; and a “think piece” on where we need to go in the future of provincial water management considering current and upcoming challenges and opportunities, while looking at the impacts of climate change, the need for resiliency, and the desire for an outcomes-based approach.*

**Action 54.1: Andre will issue a call for members to the board to bring groups together beginning in the summer to flesh out those discussions.**

## **6 Information Reports and Opportunity for Questions**

### **6.1 Government of Alberta Update**

The update was distributed to the board prior to the meeting. Bev Yee provided additional comments at the meeting. She noted that there has been a lot of interest in the AEP reorganization, and a new organizational chart was included in the briefing package. The goal is to achieve better integration across the department, and some specific areas are being targeted. One is better integration between policy and operations to ensure there is not a disconnect in either policy informing work on the ground, or the work on the ground informing policy development. This is apparent in fish and wildlife, and a new lands division has been formed to ensure one body is looking after Crown lands and looking at both policy and operations. The other level of integration, which is not so much reflected in the structure, but in the leadership and how AEP works, is the integration to ensure we are meeting environmental, economic, and social objectives.

The second driver pertains to distribution of workload. The operations work in AEP is huge and continues to grow as activity on the Alberta landscape increases. This change was an attempt to disperse the operational work so it’s not under just one ADM. Now, three ADMs (four if you include parks operations) have operational responsibilities.

The third driver is to strengthen and enhance the role of science in informing our policy work. We have integrated into the resource stewardship division the primary science work done there. We want to work on using that science to inform policy work.

The reorganization is now mostly complete and we are recruiting for senior management level (the level below executive director). In conjunction with the reorg is the transformation to our regulatory system to achieve the outcomes. We are also looking for consistency, as we continue to hear that decisions and policy are not being implemented in the same way between regions.

Our minister also issued some ministerial orders to provide a bit of relief on the requirements for environmental reporting. This did not mean that obligations were suspended. We identified areas of low risk that did not have a direct impact on public health and safety. It’s temporary, but we are providing relief on the requirement to report. Companies are required to keep the information and if we need it they have to provide it. There was a lot of misunderstanding about the reporting requirement. Then what followed was a request from a number of regulated parties for relief on inability to meet some of the COVID requirements to keep workers safe. We have provided that relief to a number of companies but it didn’t get communicated very well. What I saw in the news was that all environmental monitoring was suspended, which is untrue. Less than 2% to 5% of overall environmental monitoring requirements were suspended



due to relief. The areas where relief were given were low risk, had no impact on public health and safety, and were not in critical environmental areas. There is a lot of misunderstanding in the media. Also, the emergency public health order has expired. We are reviewing to see whether it's appropriate to lift the measures sooner than 60 days after the health order was lifted. Ambient monitoring has started to come back online and is expected to be restored by the end of June.

#### Discussion

- In the North Saskatchewan Region we have already benefited by the modelling team coming together in one place. They are actively engaged in developing a comprehensive basin wide model at multiple scales for our basin.
- Transparency in risk assessments is essential. Is there any opportunity to get an understanding of the risk analysis that is going into the transformation?
  - Bev Yee (BY): That's related to regulatory transformation. We're in the early days of looking at that. It's driven by our desire to have a digital platform for the more routine low risk approvals. Once we're further along we'll share more information.
- Regarding the aquatic invasive species program, is it correct that we are not getting rid of best practices, just moving them somewhere else?
  - BY: Yes, that is correct; it won't be lost.
- Regarding the water re-use policy, there is a timeline for the stormwater side, but is there a timeline on the whole re-use guide? Secondly, when will the updated flood maps be out?
  - BY: We're in the process of getting draft flood maps out to communities but I don't know off the top of my head what the schedule is. It's a high priority and someone will follow up on this with you. On the water re-use policy, I don't know the exact timeline but will provide that information to Andre for distribution to the board.

### **6.2 Executive Director's Report**

There were no questions or comments on the executive director's report.

### **6.3 Improving Resiliency to Drought in Alberta Through a Simulation Project Team status update**

There were no questions or comments on the drought simulation report.

### **6.4 Recommendation Tracking Update**

The board was directed to the update in the briefing package.

#### Discussion

- It's not clear how terms like "implemented alternative approach" are being used and whether the substantive recommendations have actually been met by the evolution of GoA work in those areas. This is particularly relevant to lake management and non-point source pollution. I suggest there has to be more of an iterative approach with the department to see how we can get a better understanding of how policy or operations are evolving around these issues. There's a purpose and intent in our recommendations that everyone is kind of on board with, and if an alternative approach isn't meeting needs, how do we circle back on those things? To say they've been adopted or an alternative approach is pursued doesn't necessarily reflect the outcome the project team envisioned. This is a challenge for the council itself.

- Andre Asselin: This has been raised a few times. We could possibly bring in GoA staff to get a more detailed answer on one or two projects at a time, but it would be very cumbersome to do all projects at once.

**Action: 54.2: Andre will follow up with Jason Unger to get more insight into what additional information is desired with respect to the recommendations and their implementation.**

**Action 54.3: Bev Yee will provide Andre with updates on the timelines for the water reuse guide and flood plain mapping to be provided to the board.**

- It would be useful to include a footnote or brief summary of the recommendations partially implemented and pending in the tracking report.
- Another option is to bring the team back together to see if the intent has been met.
  - Andre Asselin: The next team meeting is not until November, but these suggestions can be examined.

## **7 New or Other Business**

Andre provided a few reminders to the board:

- The SWP documents were released on June 15 and can now be shared widely. A video on how to use the SWP guide was posted to the AWC website and social media. Staff are happy to make presentations to groups if desired.
- Board members should reach out to Andre if there is anything they need regarding the drought resiliency project, when that information is publicly available.
- A call for members for the SWP Web Platform Working Group will be sent out to members in the coming days.
- Staff will be working to flesh out details on topics 1 and 3 related to new work and pull together ad hoc groups to discuss them further
- Digital copies of the 2019 annual report will be sent out in the coming weeks.
- A survey will be sent out to board members to evaluate the effectiveness of the remote meeting platform and other aspects.

The next meeting is scheduled to be held in Calgary on November 5 with the recognition dinner tentatively planned for the night before.

The board meeting adjourned at 11:59 a.m.

## **Attachment 1: Meeting #54 Attendees**

### **AWC Directors and Alternates**

Maureen Bell, NGO (Environmental)  
Fiona Briody, Industry (Crop Sector Working Group)  
Mark Brostrom, Government (Large Urban)  
Bob Cameron, NGO (Environmental)  
Deanna Cottrell, Industry (Oil and Gas)  
Tom Davis, GoA and Provincial Authorities (Alberta Environment and Parks)  
James Guthrie, Industry (Mining)  
Jim Hackett, Industry (Power Generation)  
Rob Hoffman, Industry (Chemical and Petrochemical)  
Ahmed Idriss, Industry (Power Generation)  
Vicki Lightbown, GoA and Provincial Authorities (Alberta Innovates)  
Paul McLauchlin, Government (Rural)  
Dan Moore, Industry (Forestry)  
Keith Murray, Industry (Forestry)  
Morris Nesdole, NGO (WPACs)

Steph Neufeld, NGO (Lake Environment Conservation)  
Tara Payment, Industry (Oil and Gas)  
Nissa Petterson, NGO (Environmental)  
Brett Purdy, GoA and Provincial Authorities (Alberta Innovates)  
Margo Jarvis Redelback, Industry (Irrigation)  
Tracy Scott, NGO (Wetlands)  
Tanya Thorn, Government (Small Urban)  
Jason Unger, NGO (Environmental)  
Jay White, NGO (Lake Environment Conservation)  
Jamie Wuite, GoA and Provincial Authorities (Alberta Agriculture and Forestry)  
Bev Yee, GoA and Provincial Authorities (Alberta Environment and Parks)  
Andre Asselin, Executive Director (ex-officio)

### **Presenters:**

Margo Jarvis Redelback and Tim Romanow, *Building Resiliency to Multi-Year Drought* (Item 2)  
Phil Boehme, *Statement of Opportunity – Source Water Protection Toolkit* (Item 3)

### **Guests:**

Jenna Curtis, Alberta Environment and Parks  
Ken Gossen, Alberta Agriculture and Forestry

### **AWC Staff and Contractors:**

Alec Carrigy, Katie Duffett, Lauren Hall, Anuja Ramgoolam, Petra Rowell

### **Absent with Regrets:**

Roxane Bretzlaff, NGO (WPACs)  
Darren Calliou, Government (Métis Settlements)  
Stephanie Clarke, GoA and Provincial Authorities (Alberta Energy)  
Silvia D'Amelio, NGO (Fisheries Habitat Conservation)

## **Attachment 2: Meeting #54 Decision Log and Action Items**

### **Decisions**

*Decision 54.1: The board approved the February 25, 2020 meeting summary by consensus and it will be posted to the website.*

*Decision 54.2: The board:*

- 1. approved the Building Resiliency to Multi-Year Drought in Alberta Draft Guide and Drought Resiliency Project Companion Report*
- 2. approved the communications plan*
- 3. agreed to disband the Building Resiliency to Multi-Year Drought in Alberta Project Team*

*Decision 54.3: The board approved the creation of a working group to develop terms of reference for creating a Source Water Protection Web Platform.*

*Decision 54.4: The board approved by consensus to extend the deadline for the WFLIR committee until November 2020.*

*Decision 54.5: The board approved the creation of two ad hoc groups to explore how to move ahead on the Wetland Policy Implementation and Review including an audit on restoration effectiveness; and a “think piece” on where we need to go in the future of provincial water management considering current and upcoming challenges and opportunities, while looking at the impacts of climate change, the need for resiliency, and the desire for an outcomes-based approach.*

### **Action Items**

**Action 54.1: Andre will draft material to frame issues 1 and 3, pulling together groups to flesh out those discussions.**

**Action: 54.2: Andre will follow up with Jason Unger to get more insight into what additional information is desired with respect to the recommendations and their implementation.**

**Action 54.3: Bev Yee will provide Andre with updates on the timelines for the water reuse guide and flood plain mapping to be provided to the board.**