

AGENDA PACKAGE FOR:

Council Meeting
Wednesday March 14th 2018 | 10:15 AM – 2:30 PM
Columbia Shuswap Regional District Boardroom
555 Harbourfront Drive NE, Salmon Arm

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Council Meeting
December 13th 2017 | 10:30 AM – 2:30 PM
Columbia Shuswap Regional District Boardroom
555 Harbourfront Drive NE, Salmon Arm

Draft Record of Decisions and Action Items

Note: this record is subject to correction when adopted at the next SWC meeting

Meeting objectives

1. Receive presentation from Adams River Salmon Society
2. Receive update on Water Quality Objectives
3. 2018 SWC workplan discussion

Present

Paul Demenok, Chair – Columbia Shuswap Regional District, Area C
 Larry Morgan, Vice Chair – Columbia Shuswap Regional District, Area F
 Rene Talbot – Columbia Shuswap Regional District, Area D
 Rhona Martin – Columbia Shuswap Regional District, Area E
 Rick Berrigan – Thompson-Nicola Regional District, Village of Chase
 Ken Christian – Thompson-Nicola Regional District, City of Kamloops
 Nancy Cooper – City of Salmon Arm
 Dave Nordquist – Secwepemc Nation, Adams Lake Indian Band
 Herman Halvorson – Regional District of North Okanagan, Area F
 Tundra Baird – Regional District of North Okanagan, City of Enderby
 Dennis Einarson – BC Ministry of Environment and Climate Change Strategy
 Laura Code – BC Ministry of Agriculture
 Lorne Hunter – Community representative
 Randy Wood – Community representative

Erin Vieira and Mike Simpson – Fraser Basin Council

Guest presenters and observers

Dave Smith, Carmen Massey, Julie John, Molly Cooperman (*until 11:00 am*)

Regrets

Greg Witzky
 Ray Nadeau
 Todd Kylo

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Call to Order

Chair Paul Demenok called the meeting to order at 10:30 AM

Adoption of meeting summary

Chair Demenok requested that a late agenda item regarding a letter of support for the Columbia Shuswap Regional District’s exclusion application to the Agricultural Land Commission be added to the agenda.

Moved/seconded by Mayor Berrigan/Mayor Cooper that:
The agenda for December 13th 2017 SWC meeting be amended as requested.

CARRIED

Laura Code entered the meeting at 10:35 am

Moved/seconded by Randy Wood/Mayor Cooper that:
The summary of the October 25th 2017 meeting of the SWC be adopted.

CARRIED

Councillor Tundra Baird entered the meeting at 10:45 am

Guest Presentation

Dave Smith introduced himself and other members of the Adams River Salmon Society: Carmen Massey, Julie John and Molly Cooperman. Carmen Massey then explained that the Society is proposing to host a salmon symposium next fall in conjunction with the peak salmon return and the opportunity to engage visitors from around the world. The host partners for the symposium will be Little Shuswap Lake Indian Band and the Adams River Salmon Society.

The symposium is scheduled to take place September 30th – October 2nd; a concept agenda is in place.

The Society is seeking a letter of support from the Shuswap Watershed Council, in addition to financial support, support for the workshop via facilitation, and attendance and participation from SWC members.

Report from the Chair

Chair Demenok reported that the CSRD is making an application to the Agricultural Land Commission to exclude a parcel of land in Area C to be the site of a future wastewater treatment facility.

Moved/seconded by Chair Demenok/Vice Chair Morgan that:
The SWC write a letter to the Agriculture Land Commission expressing support for the exclusion application by the CSRD.

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Discussion:

Lorne Hunter inquired about the size of land; the Chair responded that the parcel is about 65 acres, and approximately 25-30 acres would be used for the treatment plant while the remainder could be developed by the private land owner.

CARRIED

Action item: staff will work with the Chair to prepare the support letter

**2018 Meeting
Schedule**

Moved/seconded by Mayor Christian/Mayor Cooper that:
The draft 2018 meeting schedule be approved as presented.

CARRIED

The SWC will meet on the following days in 2018, at the CSRD Boardroom unless otherwise noted:

- March 14th
- June 13th
- September 19th
- December 12th

**Water Quality
Objectives**

Dennis Einarson, RPBio, explained that Water Quality Objectives are a tool to manage water quality. There have been several reports summarizing the water quality in the Shuswap watershed; the next step for the Ministry is to set objectives to help maintain the water quality. Once established, the objectives can be incorporated into permits and plans and used as a regulatory tool.

Currently, it's proposed that objectives be set for four different areas of Shuswap Lake; the objectives would set various parameters at different levels for each area.

Discussion:

Director Martin inquired about receiving information regarding average measurement values; Dennis Einarson indicated he could provide a table for circulation to SWC members.

Mayor Christian commented that it's a good idea to have a separate set of objectives for Shuswap Lake; he inquired as to the reason why only four areas are established for the objectives, not including the northern reaches; Dennis responded that the consultants noted the relative good water quality in the northern reaches, but that he would bring this concern back to them.

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Chair Demenok asked how the objectives would be used practically. Dennis explained that permits would have statements regarding requirements for ambient water quality. The objectives themselves are not enforceable; they contain science-based information that can be adopted by other regulatory tools and become enforceable.

Report from Program Managers

Erin Vieira presented an update on program operations:

- The Shuswap Water Monitoring Group met in November; participants reviewed and discussed their respective organizations’ monitoring activities that were done in 2017; the group also discussed and provided input to the 2016 Water Quality Summary
- A special water quality monitoring project for substances called Nonylphenols has wrapped up and shows very good results, nonylphenols were not detected in lake water samples.
- The Water Protection Advisory Committee met in November to receive an update on the nutrient research project led by UBC-Okanagan, and to discuss criteria for SWC-funded restoration projects. A field tour to Alderson Creek to see a restoration project had to be cancelled due to inclement weather, and will be rescheduled for spring or early summer.

Expenses to the end of the second quarter (April 1st – September 30th 2017) are as follows: *(no change from the report at the Oct 25 meeting)*

| | Budget (\$) | Expenses (\$) |
|---|--------------------|----------------------|
| Water Monitoring Initiative | 66,250 | 5551 |
| Water Protection Initiative | 75,650 | 57,901 |
| Recreation Safety Education Program | 12,800 | 9478 |
| Communications | 34,600 | 24,968 |
| Management and Administration | 41,600 | 16,348 |
| Operating Reserve | 99,014 | 0 |
| Total expenses to September 30th 2017 | 329,914 | 114,246 |

2018 Workplan Discussion

Chair Demenok introduced this discussion as an opportunity for providing input for the program managers to include in the 2018 work planning, which will be done in the winter before the next SWC meeting.

Chair Demenok initiated the discussion by inquiring of the SWC membership regarding supporting the 2018 Salmon Symposium being hosted by the Adams River Salmon Society and Little Shuswap Lake Indian Band.

Moved/seconded by Mayor Berrigan/Mayor Christian that:

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The SWC prepare a letter of support in principle for the 2018 Salmon Symposium being hosted by the Adams River Salmon Society and Little Shuswap Lake Indian Band.

CARRIED

Action item: staff will prepare a letter of support in principle for the 2018 Salmon Symposium.

The Chair inquired with the SWC membership about providing financial support for the 2018 Salmon Symposium.

Moved/seconded by Dave Nordquist/Vice Chair Morgan that:
The SWC participate in, and thereby make a financial contribution to, the 2018 Salmon Symposium as an exhibitor.

Discussion:

Some SWC members expressed that the SWC’s financial support should be directed at initiatives more closely related to water quality and safe recreation, and that other non-SWC funds would be a better fit for a salmon symposium. Mayor Christian and Director Martin suggested the possibility of a financial contribution to the symposium through renting an exhibitor booth; Mayor Berrigan noted that it’s not yet known if there will be an opportunity for exhibitors at the symposium.

Chair Demenok inquired with the SWC membership about participating in the symposium curriculum; Mayor Berrigan noted the inherent costs and staff time that would be associated with such an activity.

Moved/seconded by Director Martin/Vice Chair Morgan to amend the above-noted motion that:

The SWC’s participation in and financial support of the symposium via exhibitor fees be tabled to the March 2018 meeting, at which time program managers can provide more organizational information about the symposium.

CARRIED

Chair Demenok inquired with the membership about participating in the curriculum of the Symposium. Mayor Berrigan pointed out the inherent costs and staff time. Chair Demenok further commented that at a projected cost of \$400/person, it would be cost-prohibitive for members of the SWC to attend the event.

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Moved/seconded by Mayor Berrigan/Lorne Hunter that:

A second letter be sent to the symposium organizers indicating that the SWC will not be an event sponsor, but that it would like more information about the event including the potential opportunity to be an exhibitor.

CARRIED

Action item: staff will prepare a second letter for the Adams River Salmon Society and Little Shuswap Lake Indian Band indicating that the SWC will not be a symposium sponsor for the reasons discussed, and requesting more information about the event including the potential opportunity to be an exhibitor.

Chair Demenok introduced zebra and quagga mussels as a discussion item. He elaborated on the work being done by the Okanagan Basin Water Board, and the opportunities presented to the SWC by the Columbia Shuswap Invasive Species Society at the October 25th SWC meeting.

Moved/seconded by Director Morgan/Mayor Cooper that:

Staff be directed to work with Columbia Shuswap Invasive Species Society and the Okanagan Basin Water Board to determine how best to partner and/or supplement the existing campaigns against aquatic invasive mussels

Discussion:

Some directors expressed their support in principle for the SWC supporting and/or implementing education and awareness campaigns for aquatic invasive mussels, but to exercise caution to ensure consistent messaging with other organizations and focus locally on delivering campaign messaging (i.e., in the Shuswap and BC).

Erin Vieira inquired as to the budget for the aquatic invasive mussels education/advocacy work plan. Chair Demenok suggested a budget of \$25,000 and other SWC members agreed.

SWC members discussed potential work plan ideas for education and advocacy, including opportunities for engaging marina operators as a critical interface with the boating community, requesting more support from the Province, and investigating advocacy opportunities with the federal government.

CARRIED

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Action item: staff will work with CSISS and OBWB to create a new work plan item for 2018 focussing on aquatic invasive mussels education and advocacy in the Shuswap and nearby regions.

Moved/seconded by Director Martin/Vice Chair Morgan that: The SWC send another letter to the Provincial government thanking them for their efforts against zebra and quagga mussels to-date, and requesting more resources for prevention efforts, including increasing the number of watercraft inspection stations.

CARRIED

Action item: staff will prepare a letter to the Province, as described above, in early 2018.

Chair Demenok introduced the opportunity for the SWC to provide comment on the proposed revisions to the *Agriculture Waste Control Regulation* (AWCR). The Chair framed this as a potential advocacy role for the SWC, bearing in mind that agriculture waste has an impact on water quality.

Discussion:

Lorne Hunter commented that he didn't think it appropriate for the SWC to submit comments on the proposed revisions to the AWCR due to the SWC not being an agricultural group and therefore not directly impacted by the revisions. Vice Chair Morgan commented that agricultural waste impacts on water make the SWC a suitable body for providing input, and that staff should submit comments calling for better waste management to improve water quality. Lorne Hunter replied indicating his support for applicable regulations and enforcement within the agriculture industry, but also indicated that some recent studies in the North Okanagan have not demonstrated improvements to water quality with the implementation of certain beneficial management practices; he stated that the agriculture industry has progressed and is aligning with societal values. Director Martin expressed concern over the growth of the industry in the region in recent years. Chair Demenok commented that the SWC's primary mandate is water quality and that science being reviewed by the SWC is showing that nutrients are entering the watershed from agricultural lands.

Moved/seconded by Vice Chair Morgan/Mayor Christian that: Staff prepare a letter providing comments on the proposed revisions to the AWCR that are reflective of the SWC's mandate, have a balanced approach toward regulations and enforcement to limit nutrient input to

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the watershed, and would not impose overly adverse impacts on the agriculture industry;

And that:

Staff provide the letter by email to the SWC members for a seven-day review period before submitting the letter to the Ministry of Environment by the deadline of January 15th, 2018.

CARRIED

Action item: staff will review the proposed revisions to the *Agriculture Waste Control Regulation* as described in the Province’s Third Intentions Paper and prepare comments, as described above, and provide it to the SWC for their review before submitting it to the Province.

Chair Demenok inquired of the SWC membership if there were any other discussion items for the 2018 work plan.

The Chair requested a number of items for consideration in the work plan, including increasing collaboration with the Okanagan Basin Water Board and inviting them to attend a future SWC as a guest speaker; increasing public communications for water quality issues and initiatives; and inviting a representative from the Alternative Land Use System (“ALUS”) to a future meeting of the SWC as a guest presenter.

Director Halvorson left the meeting at 1:55 pm

Dave Nordquist inquired if the SWC would discuss climate change, and its impacts to water quality and quantity. Director Martin commented that climate change is a high priority, and that the effects are already being seen. Dennis Einarson replied that there is a dedicated group within the Ministry of Environment and Climate Change Strategy, and could request that someone make a presentation on their work to the SWC.

Action item: Dennis Einarson will provide contact information for a potential guest speaker on climate change from within the Ministry of Environment and Climate Change Strategy

Roundtable Updates

Lorne Hunter reported that the local dairy association is planning an on-farm tour in April, including a discussion about working with governments. He will provide information about the event to the SWC membership when it’s ready.

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Dave Nordquist reported that Adams Lake Indian Band will make a financial contribution to the SWC for the 2017-18 year.

Mike Simpson reported that Fraser Basin Council is facilitating a disaster mitigation risk assessment project for the Thompson watershed – of which the Shuswap watershed is part of – and a community-to-community forum will kick-start this project on February 14th.

Action item: Staff will receive the contribution from Adams Lake Indian Band on behalf of the SWC, and amend the Contribution Agreement and SWC Terms of Reference accordingly.

Adjourn

Moved/seconded by Director Talbot/Director Morgan that:
The December 13th 2017 meeting of the SWC be adjourned.

CARRIED

The meeting adjourned at 2:10 pm.

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| 2-a | [LATE ADDITION] Correspondence | 10:45 |

19 December 2017

Agricultural Land Commission
 133-4940 Canada Way
 Burnaby, BC
 V5G 4K6

RE: Support for the Columbia Shuswap Regional District's application for exclusion from ALR

Dear ALC Chair Frank Leonard and Okanagan Panel Vice Chair Gerald Zimmermann,

I am writing on behalf of the Shuswap Watershed Council (SWC) to express support for the Columbia Shuswap Regional District's (CSR) application to the Agricultural Land Commission to have a parcel of land known as "Balmoral Corner" excluded from the Agricultural Land Reserve for the purpose of constructing a wastewater treatment plant.

The SWC's vision is *Enhanced water quality that supports human and ecosystem health and the local economy in the Shuswap watershed*. In principle, the SWC supports actions that improve and/or protect water quality in our watershed.

In addition to being consistent with the SWC's vision, I believe there are other reasons – in support of agriculture and water quality – to approve the exclusion application and enable the wastewater treatment project to proceed:

1. Agricultural benefits: the plan for the treatment plant includes the use of the plant's treated effluent in spray irrigation, which will support and improve local agricultural operations and enhance the sustainability of the farms in the Balmoral area.
2. Environmental benefits: Thousands of homes and businesses in the Blind Bay and Sorrento areas are currently utilizing on-site septic systems to dispose of waste water. Water monitoring has shown high levels of *E. coli* and fecal coliforms at a number of sites in Blind Bay and Sorrento. A wastewater treatment facility will reduce the environmental pressures on our critically important Shuswap watershed.

The benefits of the CSR's planned wastewater treatment plant at Balmoral will benefit both agriculturalists and the water quality in our watershed. Therefore, we encourage the Agricultural Land Commission to approve the CSR's exclusion application. I thank you in advance for your consideration.

Sincerely,

Paul Demenok
 Chair, Shuswap Watershed Council
 Director, Columbia Shuswap Regional District Area 'C' South Shuswap
pdemenok@csrd.bc.ca

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| 2-b | Correspondence | 10:45 |

12 January 2018

BC Ministry of Environment and Climate Change Strategy – AWCR Review

Attn: Margaret Crowley

Sent via email to env.ag.reg.reviews@gov.bc.ca

Re: Agricultural Waste Control Regulation Review

Dear Ms. Crowley,

The Shuswap Watershed Council is a collaborative partnership initiative of three regional districts (Columbia Shuswap, Thompson-Nicola, and North Okanagan), the City of Salmon Arm, District of Sicamous, Secwepemc Nation, the Ministry of Environment and Climate Change Strategy, and the Ministry of Agriculture. The SWC’s vision is *Enhanced water quality that supports human and ecosystem health and the local economy in the Shuswap watershed*. The SWC works throughout the Shuswap watershed. Since 2016 it has been implementing a Water Quality Program with strategies and actions for water protection and water monitoring; the program is non-regulatory.

The Shuswap is a unique and special region: the lakes and rivers are the centerpiece of a thriving tourism economy, attracting visitors from across the continent and making the Shuswap a highly desirable place to live. The region is also home to a diverse, growing, and critically important agriculture industry that is a significant component of the economy.

Water quality data and analysis in the Shuswap have suggested that agricultural run-off and seepage is likely a contributor of excess nutrients to surface water, especially to Shuswap and Mara Lakes¹; phosphorus is the nutrient of greatest concern to water quality. The SWC is interested and invested in this subject; we are working with UBC – Okanagan on a nutrient study to determine where and how nutrient loading to the rivers and lakes is occurring.

The SWC is very much in support of the goals that the MOE has laid out for the AWCR, in particular the first two which are to improve water quality by requiring environmentally protective agricultural practices, and ensuring water is protected through proper storage and use of manure and other nutrient sources. Generally, the SWC is in favour of revisions to the AWCR that will reduce or eliminate nutrient loading to surface and ground water, and that don’t impose unreasonable requirements to agriculturalists and the agriculture industry. In particular, we offer the following comments for consideration in the proposed changes to the AWCR:

1.) Consider a “sensitive receiving environment” designation for the Shuswap

The Shuswap is unique in BC in that it is a chain of three large lakes, fed by several large tributaries; three of those tributaries run through highly developed agricultural areas before entering the lakes. The 3rd Intentions Paper references an opportunity to define and designate

¹ Tri-Star Environmental Consultants. Sources of Nutrients Report, March 2014. Available online at www.shuswapwater.ca.

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| 2-b | Correspondence | 10:45 |

high risk areas, due to various features or attributes such as “sensitive receiving environments” or “phosphorus sensitive areas”. The SWC is interested in these definitions, and would welcome the opportunity to collaborate with the Ministry in considering a special designation for the Shuswap. The results of the nutrient study with UBC – Okanagan (anticipated at the end of 2018) would likely be helpful in defining these terms. Consideration of cumulative effects of waste discharges into watersheds would also be helpful in defining these terms and setting designations; the SWC encourages the Province to lead this.

2.) Nutrient management and land applications

The SWC is in favour of requirements for nutrient management planning, and applying the principles of the ‘4R Plant Nutrition System’. This is a big step in the right direction for developing a more sustainable agriculture industry and reducing impacts to water quality.

The SWC is particularly supportive of the proposed prohibition of land applications of agricultural by-products to frozen or snow-covered ground, on saturated soils, or areas having standing water. The Shuswap, with its four distinct seasons and moderate climate, is subject to freeze-thaw cycles, rain-on-snow events, heavy rains, and flooding.

3.) Setbacks and Storage – eliminating indirect discharges

The SWC is in favour of more protective measures for setbacks and storage to eliminate leachate and run-off; it’s also in favour of using a risk-based approach to determine where extra protection may be required.

4.) Ensure an effective strategy for engaging and regulating small lot holdings

As mentioned previously, the Shuswap has a diverse range of agricultural operations including dairies, poultry and egg farms, cattle grazing, feedlots, viticulture, orchards, and smaller holdings and ‘hobby farms’. Mid-size and large operations – which are typically part of industry associations – may have support and capacity-building opportunities available to them. On the contrary, small lot holdings and ‘hobby farms’ may not have such support, guidance, or industry oversight, nor does an association represent them. Since the AWCR applies to all agricultural operations in BC, the SWC urges the Ministry to consider how it can work effectively with these operations as it seeks to implement the revised AWCR; this should be part of a larger strategy for engaging, monitoring, and enforcing the regulation in the industry.

Thank you for your consideration of these comments, and we thank you for your work to complete the revision to the AWCR.

Kind regards,

Paul Demenok
 Chair, Shuswap Watershed Council
 Columbia Shuswap Regional District Director Area ‘C’ South Shuswap
pdemenok@csrd.bc.ca

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| 2-c | Correspondence | 10:45 |

Province of British Columbia

Offices of the Premier and of the Minister of Environment and Climate Change Strategy

Sent by e-mail to premier@gov.bc.ca and env.minister@gov.bc.ca

1 February 2018

Re: Invasive Mussel prevention in 2018

Dear Honourable Premier Horgan and Honourable Minister Heyman:

I am writing on behalf of the Shuswap Watershed Council to express our concern about the enduring threat that zebra and quagga mussels pose to the waterways in our region.

The Shuswap Watershed Council (SWC) is a collaborative partnership of the Columbia Shuswap Regional District, Thompson-Nicola Regional District, City of Salmon Arm, District of Sicamous, Secwepemc Nation, Regional District of North Okanagan, and the BC Ministries of Environment and Agriculture. Its mandate is to enhance water quality and safe recreation in the Shuswap watershed, including Shuswap and Little Shuswap Lake, Mara Lake, Mabel Lake, Adams Lake, and numerous rivers.

At a recent SWC meeting held in October 2017 in Salmon Arm, we were fortunate to hear directly from Ms. Martina Beck, Acting Aquatic Invasive Species Coordinator for the Province, about the Invasive Mussel Defence Program that the Province implemented in 2017. Thank you for your efforts to-date to prevent an introduction of zebra and quagga mussels; in particular, the improvements to the program in 2017 from previous years including a greater number of watercraft inspection stations, more staffing resources including a mussel-sniffing canine, and longer hours and seasons of watercraft inspection (including 24-hour inspection at Golden BC). These operations are much needed and appreciated. Ms. Beck reported that British Columbia remains mussel-free at this time – this is no doubt due, in part, to the Province’s efforts as well as education and outreach efforts of many organizations, and the cooperation of travellers into BC.

However, the risk remains and the consequences of an accidental introduction of mussels are dire. In 2017, the Conservation Officer Service intercepted 24 mussel-fouled watercraft – it may sound like a low number, but it will only take a single boat, kayak, or paddleboard contaminated with mussels to start an irreversible infestation. Therefore, we are asking the Province to once again expand upon its Invasive Mussel Defence Program:

- Improve upon the existing watercraft inspection program
 - Increase the number of stations to have one at every major entry point to BC
 - Increase the stations’ hours of operation and seasonal operation
 - Add additional canine resources to the program
 - Improve the signage for mandatory inspection stations (to increase compliance of all types of watercraft, which have been at 80% for two years)
- Work with the federal Department of Fisheries and Oceans and Environment and Climate Change Canada to entreat other provinces to effectively contain mussel infestations

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- Provide financial support for veliger (mussel larvae) sampling in the Shuswap watershed
- Expand upon education and outreach efforts to-date
 - Maintain an up-to-date provincial website for zebra and quagga mussels
 - Provide financial support for large media and social media campaigns for the prevention of zebra and quagga mussel infestation in BC.

Prevention is key. If aquatic invasive mussels establish in one of our province’s waterways, it will be irreversible and they will spread as they have been for 30 years in Canada. The ecological and economic impacts are conservatively estimated to cost \$43M annually to British Columbians – a cost we surely do not want to bear if we could have prevented it.

Thank you in advance for your ongoing efforts to keep BC waters mussel-free.

Kind regards,

Paul Demenok
Chair, Shuswap Watershed Council
Director, Columbia Shuswap Regional District, Area ‘C’ South Shuswap
250 517-0810
pdemenok@csrd.bc.ca

Cc: Shuswap area MLAs: Greg Kylo, Todd Stone, Eric Foster
Regional District Chairs for Columbia Shuswap, Thompson-Nicola, and North Okanagan:
Rhona Martin, John Ranta, Bob Fleming
Shuswap municipal mayors: Nancy Cooper, Terry Rysz
Secwepemc Chiefs: Paul Michel, Wayne Christian, Oliver Arnouse, Judy Wilson
MP for North Okanagan – Shuswap: Mel Arnold
Official Opposition Critic for Environment and Climate Change: Peter Milobar
Mark Zacharias, Deputy Minister of Environment
Brian Heise, Chair, Invasive Species Council of British Columbia
Gail Wallin, Executive Director, Invasive Species Council of British Columbia
Tracy Gray, Chair, Okanagan Basin Water Board
Hamish Kassa, Chair, Columbia Shuswap Invasive Species Society

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| 3-a | Old business: SWC Terms of Reference, proposed revisions | 11:00 |

Introduction

The Shuswap Watershed Council Terms of Reference (v. 3) sets the governance framework for the SWC including roles, responsibilities, representation, and decision-making. It was adopted on May 3rd 2016. The complete Terms of Reference can be found online at https://www.fraserbasin.bc.ca/About_SWC.html.

Proposed updates and revisions to the Terms of Reference

The Terms of Reference require a few minor updates and revisions, as proposed below (in **bold font**). Only the sections with proposed changes are shown here; all other sections of the Terms of Reference will remain unchanged.

Section 3. Shuswap Watershed Council Role

The role of the SWC is to:

- Receive scientific and technical input, and approve plans and budgets (as appropriate) from the Water Quality Monitoring Group **and the Water Protection Advisory Committee** for implementing the water quality program.

Section 5.1 Voting rights

When a vote is required, rights are granted on the following basis:

- Voting on non-financial issues is granted to representatives from the ~~Secwepemc Nation~~, Okanagan Nation, the North Okanagan Regional District, and the community

Secwepemc Nation will no longer be named in this section, as they now have all voting rights (i.e., financial and non-financial issues)

Section 5.3 Casting votes

Each member with voting rights is assigned one vote. ~~Alternates are permitted and are selected by the respective organization.~~ Participation in meetings, including voting, may take place via tele-conference.

The provision of alternates will be removed from this section, and clarified in a new section, proposed below.

Section 5.4 Alternates

The SWC will honour alternates set by the members' organizations. Therefore, alternates are permitted for elected members of the SWC representing regional districts, municipalities, and the Secwepemc Nation. Alternates are selected by the respective organization. Community representatives and representatives of provincial agencies do not have alternates.

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Section 6.1 Election of Chair and Vice Chair

Following the terms for non-financial decisions (per 5.2), the election of a chair and vice chair will take place as follows:

- Elections will take place at the first meeting of the calendar year, **presided over by the program managers**

Section 7. Liaise with Water Quality Monitoring Group **and Water Protection Advisory Committee**

The SWC will be supported by the Water Quality Monitoring Group **and the Water Protection Advisory Committee, each of whom have their own committee Terms of Reference.** From time to time, the SWC may refer information **or requests** to the Monitoring Group **or Advisory Committee** for discussion and recommendations.

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| 3-b | Old business: Statement of Principles, for review | 11:00 |

Principles

The Shuswap Watershed Council (SWC) and its committees are committed to acting in accordance with the following principles:

Respect: SWC members treat people with respect and welcome varied perspectives and viewpoints.

Collaboration: the SWC seeks collaborative solutions to water quality and recreation safety concerns, bridging the interests of all orders of government and members of the public.

Transparency: to the greatest extent possible, the actions and decisions of the SWC will be transparent and open.

Process: SWC members will honour their collective decisions and discussions, and will not use public forums to discredit the SWC or its members.

Representation: SWC members are appointed to serve the common water interests of Shuswap residents while providing the perspective of their respective constituency, community or water-based organization.

Diligence: SWC members exercise their duties with care and diligence. SWC members will honour their obligations to attend Council meetings; when this is not possible, they will arrange for their alternates to attend. SWC members will come to Council meetings having read the materials relevant to the meeting.

Service: the SWC will act in the best interests of the mandate of the SWC and abide by the Terms of Reference, which sets out the purpose, role, membership and decision-making of the Council.

Engagement: the SWC will strive for clear and respectful communication with its partners and members of the public.

Signed below,

| Item. No | Name | Time |
|----------|--|-------|
| 4 | Report from Program Managers: financial update to end of third quarter | 11:20 |

Program Managers' report: financial report to the end of the third quarter (April 1st – December 31st 2017)

INCOME

| Source | Amount received (\$) |
|--|----------------------|
| Surplus SWC funds (from March 31 st , 2017) | 81,314 |
| TNRD | 53,600 |
| CSRD (C, D, E, F and District of Sicamous) | 155,000 |
| City of Salmon Arm | 40,000 |
| Total | 329,914 |

EXPENSES

| Activity (per 5-yr plan) | Budget (\$) | Expenses Apr 1 st – Dec 31 st | Variance |
|---|----------------|--|----------------|
| Water Quality Monitoring – team/annual work planning | 7500 | 5011 | 2489 |
| Water Quality Monitoring – monitoring expenses | 39,500 | 733 | 38,767 |
| Water Quality Monitoring – database/access to data | 5000 | 2267 | 2733 |
| Water Quality Monitoring – investigate historical data | 0 | 0 | 0 |
| Water Quality Monitoring – exploratory monitoring | 14,250 | 2333 | 11,917 |
| Water Quality Monitoring – contingency | 0 | 0 | 0 |
| Water Quality Protection – advisory committee | 6550 | 6228 | 322 |
| Water Quality Protection – nutrient research | 47,800 | 46,487 | 1313 |
| Water Quality Protection – water quality improvement projects/remediation | 11,400 | 8173 | 3227 |
| Water Quality Protection – education initiatives | 7900 | 847 | 7053 |
| Water Quality Protection – other education initiatives, pollution reduction | 2000 | 0 | 2000 |
| Recreation Safety Education campaigns | 12,800 | 9545 | 3255 |
| Communications – SWC brand | 0 | 0 | 0 |
| Communications – collateral | 4000 | 3582 | 418 |
| Communications – public engagement | 11,700 | 7450 | 4250 |
| Communications – annual water quality report | 18,900 | 18,305 | 595 |
| Management and facilitation | 27,400 | 18,309 | 9091 |
| Administration and fund development | 14,200 | 11,013 | 3187 |
| Operating Reserve | 99,014 | 0 | 99,014 |
| Total for 2017-2018 | 329,914 | 140,283 | 189,631 |

| Item. No | Name | Time |
|----------|------------------------------|-------|
| 5-a | 2018-19 work plan and budget | 12:45 |

Draft work plan and budget (to be implemented April 1st 2018 – March 31st 2019)

| Revenue | | \$ |
|---|--|-----------------|
| Carry forward from 2017-18: | | |
| Projected operational surplus | | 12,000 |
| Operating Reserve (includes \$20K Contingency Fund) | | 99,014 |
| Per Contribution Agreement: | | |
| CSRD Areas C, D, E, F and District of Sicamous | | 160,000 |
| TNRD | | 53,600 |
| City of Salmon Arm | | 40,000 |
| Adams Lake Indian Band | | 1300 |
| Total Revenue | | 365,914 |
| Work plan and Expenses | | \$ |
| Water Quality Program | | |
| Water Monitoring Initiative | | |
| Facilitate the Shuswap Water Quality Monitoring Group | | 8750 |
| Implement the watershed water quality monitoring plan | | 57,650 |
| Create access to water quality data | | <i>complete</i> |
| Emerging threats water quality monitoring project | | <i>complete</i> |
| <i>Sub-total Water Monitoring Initiative</i> | | 66,400 |
| Water Protection Initiative | | |
| Facilitate the Water Protection Advisory Committee | | 6200 |
| Nutrient research project (with UBC-O) | | 47,800 |
| Water quality improvement | | 12,400 |
| Support nutrient management education | | 7900 |
| Promote nutrient management and pollution reduction | | 2000 |
| <i>Sub-total Water Protection Initiative</i> | | 76,300 |
| Zebra and Quagga Mussel Prevention Program | | |
| Education, outreach and advocacy | | 26,850 |
| Recreation Safety Program | | |
| Safety campaigns | | 9500 |
| Support for safety equipment | | 2700 |
| <i>Sub-total Recreation Safety Program</i> | | 12,200 |
| Communications | | |
| Collateral | | 4450 |
| Public engagement | | 14,400 |
| Annual water quality summary report | | 19,000 |
| <i>Sub-total Communications</i> | | 37,850 |
| Administration | | |
| Council administration | | 27,050 |
| Financial management and fund development | | 13,700 |
| <i>Sub-total Administration</i> | | 40,750 |
| Sub-total work plan expenses | | 260,350 |
| Operating Reserve (includes \$20K Contingency Fund) | | 105,564 |
| Total Expenses | | 365,914 |

| Item. No | Name | Time |
|----------|--|-------|
| 5-b | 2018-19 work plan and budget: Memo from Water Monitoring Group | 12:45 |

MEMORANDUM

To: Shuswap Watershed Council members

From: Erin Vieira, SWC Program Manager, on behalf of Shuswap Water Quality Monitoring Group

Date: Prepared for March 14th 2018 SWC meeting

Re: Request for funding to support water quality monitoring

Background

The Shuswap Water Quality Monitoring Group consists of representatives from various organizations that do water quality monitoring in the Shuswap watershed. The primary roles of the Monitoring Group are to discuss and share information about their respective water quality monitoring activities, and consider the coverage of monitoring activities at a watershed scale.

Request for funding

Members of the Monitoring Group met on February 28th and shared their organization's water quality monitoring plans for 2018. Two ideas for additional water quality monitoring were discussed, and the Monitoring Group supported them unanimously as requests to be brought to the SWC for funding in 2018:

1. \$15,000 for Zebra and Quagga Mussel veligers (larvae) sampling in the Shuswap watershed

This work would be carried out by the Columbia Shuswap Invasive Species Society. The total value of the monitoring program is \$47K (other funding sources include the Habitat Conservation Trust Foundation, pending). It will include priority sampling for zebra and quagga mussel veligers in Shuswap Lake (8 sites), Mara Lake (2 sites), and several small lakes in the watershed (White, Spa, Skimikin, Gardom, Victor); it will also go toward sampling water quality parameters (e.g., pH, Calcium) according to a risk assessment. The cash contribution from SWC to CSISS would primarily support staff time for sampling as well as travel, equipment and supplies, and CSISS administration.

2. \$5,000 for monitoring algae in 'extraordinary circumstances'

The BC Ministry of Environment requested funding to monitor and investigate an algal bloom in times of extraordinary circumstances. The funding would improve the MOE's response time to a bloom, and would go toward the collection and taxonomical analysis of algae samples, algal toxin analysis, and/or the purchase of cyanobacteria kits. The funding would only be used if circumstances call for it.

Watershed monitoring plan

The approval of the above-noted requests would increase the SWC's contribution to watershed monitoring to \$57,650; this includes approximately \$31K for monitoring on the Salmon River (approved in 2016). The all-inclusive cost of monitoring in the Shuswap watershed is conservatively estimated at \$180K (this represents costs borne by monitoring partners).