



**VILLAGE OF BELCARRA**  
**Water System Capacity for Fire**  
**Protection Committee**  
**Village Hall**  
**April 16, 2019**  
**Minutes**



Minutes of the Water System Capacity for Fire Protection Committee for the Village of Belcarra, held Tuesday, April 16, 2019 at the Municipal Hall, 4084 Bedwell Bay Road, Belcarra BC.

Members in Attendance

Brain, Douglas  
Chisholm, Jim  
Desbois, Martin  
Devlin, Ian - Chair

Member Absent

Kim, Tom – Vice-Chair

Council Member in Attendance

Rob Begg, Councillor

Staff in Attendance

Lorna Dysart, Chief Administrative Officer  
Connie Esposito, Recording Clerk

Also in Attendance

Walt Bayless, Project Manager, Infrastructure, wsp (OPUS)

**1. Call to Order**

Chair Devlin called the meeting to order at 7:01 pm

**2. Approval of the Agenda**

**2.1 Agenda for April 16, 2019**

It was moved and seconded:

That the Agenda for April 16, 2019 be approved as circulated.

**CARRIED**

**3. Adoption of the Minutes**

**3.1 Minutes of March 19, 2019**

Committee members requested to review draft minutes.

It was moved and seconded:

That the Minutes of the meeting held March 19, 2019 be adopted.

**CARRIED**

#### **4. Delegation**

##### **4.1** Walt Bayless, Project Manager – Infrastructure, wsp (OPUS)

- W. Bayless answered questions from Water Committee members

Considerable discussion ensued relative to:

- Fire Underwriters Survey guidelines;
- History surrounding the decision on flow rate of 30 L/s;
- The design specifications and capability of the Tatlow reservoir;
- Guidelines regarding firefighting on a municipal level;
- Hydraulic capability and storage capacity are main components that determine the design of the water system;
- Financial constraints of the municipality at the time of design of the water system;
- The evolution of the types of housing in Belcarra;
- Policy decision is one way to handle the changing types of building in Belcarra;
- District of North Vancouver determined through a safety analysis that 14 L/s was a comfortable minimum taking into account maximum use of the system, but the use of hydraulics pushed this figure to 19 L/s;
- The potential for the system to handle 60 L/s on both sides;
- History surrounding the agreement between Village of Anmore and City of Port Moody which includes restrictions;
- Original cost estimate of the system versus the cost over-run, which was mainly due to the road overlay;
- SCADA system and how to interpret the data;
- Water quality the main factor in determining water flow and the importance of having residents connect to the water system.

#### **5. Unfinished Business**

##### **5.1** Feedback from Committee members on the March 19, 2019 meeting assignments. Each Committee member provided a brief summary of information that they have concluded and other information pending as follows:

- Objectives of the Committee Report to Council – Ian Devlin
- Design basis of water supply system and fire protection – Martin Desbois
- April 2017 Turtlehead fire event – Doug Brain
- August 2017 Senkler fire event– Doug Brain
- Water supply for fire protection improvements after 2017 fire events - Martin Desbois
- Review of fire flow requirements – Martin Desbois/Jim Chisholm/Tom Kim

Discussion ensued relative to the objectives of the Committee Report noting:

- The process for Committees;
- A one-page progress report listing facts may be sufficient;
- A visual presentation may be beneficial;
- A final report would include more in-depth information and graphs;
- A status review was conducted of where Committee members regarding their areas of the report.



**6. New Business****6.1** Discussion on memo to the Chief Administrative Officer from the District of North Vancouver dated March 1, 2019

Discussion ensued relative to:

- Wording in the agreement pertaining to guarantee of flows is standard practice;
- Exploring the possibility of increasing the flow rate to 60 L/s;
- Access to water during an earthquake;
- Rules and regulations surrounding the possibility of using sea water and its impact on equipment;
- Identifying areas in Belcarra where sea water may be accessed;
- Firefighting capabilities in Farrer Cove.

**6.2** Emphasis on collecting/affirming accurate information (like a "fact check")

Committee member, Tom Kim, is preparing a report detailing a list of facts on a spreadsheet.

**6.3** Fire Sprinklers

Discussion and approval of a recommendation to support a motion for Council to require fire sprinkler systems to be installed in all new construction and in major house renovations or additions that exceeds a floor area of 47 square meters and/or where this add-on is deemed feasible.

Discussion ensued relative to:

- Benefits and history of houses with built in fire sprinklers;
- Sasamat Volunteer Fire Department (SVFD) response time of approximately 5-10 minutes;
- Other measures that may be used to address mitigation of fires such as fire resistant building materials;
- New home construction in Belcarra have included sprinklers.

It was moved and seconded:

That Council require fire sprinkler systems to be installed in all new construction and in major house renovations or additions that exceeds a floor area of 47 square meters and/or where this add-on is deemed feasible.

**CARRIED**

**7. Next Steps**

No items.

**8. Adjournment**

The Chair declared the meeting adjourned at 9:10 pm.



Lorna Dysart  
Chief Administrative Officer



Ian Devlin  
Chair

**Next Meeting Date: Tuesday, May 21, 2019**