



# Alberni-Clayoquot Regional District

## BOARD OF DIRECTORS MEETING

WEDNESDAY, AUGUST 27, 2014, 1:30 pm

Regional District Board Room, 3008 Fifth Avenue, Port Alberni, BC

## AGENDA

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	PAGE #
<b>1. <u>CALL TO ORDER</u></b>	
Recognition of Traditional Territories.	
<b>2. <u>APPROVAL OF AGENDA</u></b>	
<i>(motion to approve, including late items requires 2/3 majority vote)</i>	
<b>3. <u>DECLARATIONS</u></b>	
<i>(conflict of interest or gifts)</i>	
<b>4. <u>ADOPTION OF MINUTES</u></b>	
a. <b>Board of Directors Meeting – August 13, 2014</b>	<b>5-14</b>
<i>THAT the minutes of the Board of Directors meeting held on August 13, 2014 be adopted.</i>	
b. <b>Electoral Area Directors Committee Meeting – August 13, 2014</b>	<b>15-17</b>
<i>THAT the minutes of the Electoral Area Directors Committee meeting held on August 13, 2014 be adopted.</i>	
<b>5. <u>PETITIONS, DELEGATIONS &amp; PRESENTATIONS (10 minute maximum)</u></b>	
a.     Ashley Jones and Shayla Frechette, Sproat Lake Marine Patrol, 2014 Year End Report.	
b.     Jonathan Tillie, Operations Manager, Central Vancouver Island, Ministry of Transportation and Infrastructure, Mr. Barry Dales, Emcon Services Inc., Road Maintenance in the Alberni-Clayoquot Regional District.	
c.     Mr. Ken Sander, Alberni Golf Club Ltd., Request for Property Tax Exemption 2014.	<b>18-19</b>
d.     Sarah Thomas, Watershed Forest Alliance	

**6. CORRESPONDENCE FOR ACTION**

- a. **REQUEST FOR SUPPORT – WATERSHED FOREST ALLIANCE**
- i. Letters regarding McLaughlin Ridge Logging presented August 13 Board of Directors Meeting **20-22**
  - ii. Revised request to support Watershed Forest Alliance’s letters **23-24**
  - iii. Background information collected by staff as requested at August 13 Board of Directors Meeting **25-61**

*(Board Direction Requested)*

**7. CORRESPONDENCE FOR INFORMATION**

- a. **MINISTRY OF COMMUNITY, SPORT AND CULTURAL DEVELOPMENT** **62-64**  
Regional District Bylaw Referral Best Practices
- b. **ASSOCIATION OF VANCOUVER ISLAND AND COASTAL COMMUNITIES** **65**  
Private Managed Forest lands
- c. **ALBERNI DISTRICT 4-H SENIOR COUNCIL** **66**  
Thank you for 2014 Grant-In-Aid
- d. **VANCOUVER ISLAND NORTH INFILM FILM COMMISSION** **67**  
Drama/SCI-FI “Into the Forest” will film in Campbell River, BC
- e. **MINISTER OF FISHERIES AND OCEANS** **68-69**  
Mitigation Program of the Pacific Salmon Treaty
- f. **MINISTER OF FISHERIES AND OCEANS** **70**  
Bill C-38 and amendments to the Fisheries Act.

*THAT the Board of Directors receives correspondence for information a-f.*

**8. REQUEST FOR DECISIONS & BYLAWS**

- a. **REQUEST FOR DECISION** **71-74**  
Approval of Bylaw E1057 Synopsis & Referendum Question

*THAT the Alberni-Clayoquot Regional District Board of Directors approve the following as presented:*

- i. *Synopsis of Bylaw E1057, Sproat Lake Marine Patrol Service Area Establishment, 2014;*
- ii. *Sproat Lake Marine Patrol Service Area Establishment referendum question.*

- b. **REQUEST FOR DECISION** **75-78**  
Alberni Valley Back Country Horsemen of BC Event – Log Train Trail

*THAT the Board of Directors direct staff to provide a letter of support to the Alberni Valley Back Country Horsemen of BC to allow access to the Log Train Trail for the event to be held on September 20th and 21st, 2014.*

**9. PLANNING MATTERS**

**9.1 ELECTORAL AREA DIRECTORS ONLY**

- a. **DVC14002, SMITH, 1045 SEVENTH AVENUE, SALMON BEACH** **79-80**  
Development Variance Application – Memorandum and Permit

*THAT the Board of Directors pass a resolution to issue development variance DVC14002.*

- b. **DVE14004, CHATWIN, 5505 HIGHLAND DRIVE** **81-85**  
Development Variance Application – Report

*THAT the Board of Directors pass a resolution to consider issuing development variance permit DVE14004.*

- c. **DVF14002, REIMER, 3848 COWLEY ROAD** **86-87**  
Development Variance Application – Memorandum and Permit

*THAT the Board of Directors pass a resolution to issue development variance permit DVF14002.*

- d. **DVF14005, VAN DEN BROEK, 5851 RUMSBY STREET** **88-90**  
Development Variance Application – Memorandum and Permit

*THAT the Board of Directors pass a resolution to issue development variance permit DVF14005.*

**10. REPORTS**

**10.1 STAFF REPORTS**

- a. Staff Action Items Report – August 27, 2014 **91-94**  
b. Meeting Schedule – September 2014 **95**  
c. Building Inspector’s Report – July 2014 **96**  
d. CAO Report – August 19, 2014 **97-98**  
e. Financial Manager Report – August 18, 2014 **99**  
f. Financial Statement - July 31, 2014 **100-101**  
g. Planning and Development Manager Report – August 20, 2014 **102**

*THAT the Board of Directors receives the Staff Reports a-g.*

**10.2 COMMITTEE REPORTS**

- a. **2014 Beaver Creek Advisory Planning Commission Appointment**

*THAT the 2014 Advisory Planning Commission Appointment Committee recommends Shelley Chrest be appointed to the Beaver Creek Advisory Planning Commission for a two year term.*

**10.3 MEMBER REPORTS**

- a. 9-1-1 Corporation – C. Solda
- b. Vancouver Island Regional Library - P. Cote
- c. Central West Coast Forest Society – T. Bennett
- d. Emergency Planning – J. McNabb/P. Cote/M. Kokura/C. Solda
- e. Alberni Valley Chamber of Commerce – C. Solda
- f. Coastal Community Network – T. Bennett/B. Irving/C. Solda
- g. West Island Woodlands Advisory Group –L. Banton
- h. Island Coastal Economic Trust – C. Solda
- i. Air Quality Council, Port Alberni – J. McNabb
- j. West Coast Aquatic Board – T. Bennett
- k. Association of Vancouver Island & Coastal Communities – C. Solda
- l. Beaver Creek Water Advisory Committee – J. McNabb
- m. Other Reports

*THAT the Board of Directors receives the Member Reports.*

**11. UNFINISHED BUSINESS**

**12. LATE BUSINESS**

**13. QUESTION PERIOD**

**14. ADJOURN**

**Next Board of Directors Meeting: Wednesday, September 10, 2014, 1:30 pm  
Alberni-Clayoquot Regional District  
3008 5<sup>th</sup> Avenue, Port Alberni, BC**



# Alberni-Clayoquot Regional District

## MINUTES OF THE BOARD OF DIRECTORS MEETING HELD ON WEDNESDAY, AUGUST 13, 2014

Regional District Board Room, 3008 Fifth Avenue, Port Alberni, BC

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### DIRECTORS

Cindy Solda, Chairperson, City of Port Alberni

### PRESENT:

Penny Cote, Vice-Chair, Electoral Area "D" (Sproat Lake)

Eric Geall, Electoral Area "A" (Bamfield)

Mike Kokura, Electoral Area "B" (Beaufort)

Tony Bennett, Electoral Area "C" (Long Beach)

John McNabb, Electoral Area "E" (Beaver Creek)

Lucas Banton, Electoral Area "F" (Cherry Creek)

Jack McLeman, Councillor, City of Port Alberni

Josie Osborne, Mayor, District of Tofino

Bill Irving, Mayor, District of Ucluelet

Alan McCarthy, Member of Legislature, Yuułu?it'ath Government

Wilfred Cootes, Councillor, Uchucklesaht Tribe Government

### REGRETS:

John Jack, Councillor, Huu-ay-aht First Nation

### STAFF PRESENT:

Russell Dyson, Chief Administrative Officer

Teri Fong, Manager of Finance

Shelli Lyle, Administrative Assistant

Heather Adair, Jr. Planner/Bylaw Enforcement Officer

### 1. CALL TO ORDER

The Chairperson called the meeting to order at 1:30 pm.

**The Chair recognized the meeting this afternoon is being held in the Tseshaht First Nation and the Hupacasath First Nation Traditional Territories.**

### 2. APPROVAL OF AGENDA

*MOVED: Director Cote*

*SECONDED: Director Kokura*

*THAT the agenda be approved as circulated with the addition of the following late items: correspondence from Jane Morden, Watershed Forest Alliance regarding request for support around the topic of watershed protection and the old growth logging going on in McLaughlin Ridge and the RCMP support letter regarding Sproat Lake Marine Patrol.*

**CARRIED**

**3. DECLARATIONS**

**4. ADOPTION OF MINUTES**

**a. Board of Directors Meeting – July 23, 2014**

*MOVED: Director Bennett*  
*SECONDED: Director McLeman*

*THAT the minutes of the Board of Directors meeting held on July 23, 2014 be adopted.*

**CARRIED**

**b. West Coast Committee Meeting – July 25, 2014**

*MOVED: Director Bennett*  
*SECONDED: Director Osborne*

*THAT the minutes of the West Coast Committee meeting held on July 25, 2014 be adopted.*

**CARRIED**

**c. Alberni Valley Committee Meeting - August 6, 2014**

*MOVED: Director Banton*  
*SECONDED: Director McLeman*

*THAT the minutes of the Alberni Valley Committee meeting held on August 6, 2014 be adopted.*

**CARRIED**

Director McCarthy entered the meeting at 1:37 pm.

**5. PETITIONS, DELEGATIONS & PRESENTATIONS**

**a. Paul Hasselback, MD MSc FRCPC, Medical Health Officer, Central Island, Tanis Dagert and Penny Cote, - Alberni-Clayoquot Health Network Update.**

Director Cote introduced Dr. Hasselback and the Alberni-Clayoquot Health Network (ACHN) Coordinator Tanis Dagert. Ms. Dagert reviewed the ACHN Activity Report and Highlights for the past year. Dr. Paul Hasselback stated the Health Network has demonstrated its purpose and explained Island Health's perspective is about building relations, engaging conversations and is proud of what the Health Network has accomplished and achieved to date.

**b. Dan Holder-Fire Services Coordinator - Regional Fire Records Management System Report August 7, 2014**

Mr. Holder reviewed the Records Management System (RMS) for purchase for the Fire Departments. Mr. Holder reviewed the benefits and the modules in the Firepro software package and outlined consultation with other departments in the region for their possible participation.

**6. CORRESPONDENCE FOR ACTION**

**a. Correspondence July 23, 2014 from Regional District of Fraser-Fort George regarding Recycling Regulation UBCM Resolution for consideration.**

*MOVED: Director Kokura*  
*SECONDED: Director McLeman*

*THAT the Alberni-Clayoquot Regional District Board support the Regional District of Fraser-Fort George's resolution at the 2014 UBCM Convention regarding changes to Provincial Recycling Regulations.*

**CARRIED**

**b. Correspondence from Jane Morden, Watershed Forest Alliance, August 12, 2014 regarding request for support around the topic of watershed protection and the old growth logging going on in McLaughlin Ridge.**

*MOVED: Director Kokura*  
*SECONDED: Director Irving*

*THAT the correspondence from the Watershed Forest Alliance regarding request for support around the topic of watershed protection and the old growth logging going on in McLaughlin Ridge be received.*

**CARRIED**

*MOVED: Director Osborne*  
*SECONDED: Director Bennett*

*THAT the correspondence from the Watershed Forest Alliance regarding the request for support around the topic of watershed protection and the old growth logging going on in McLaughlin Ridge be referred to the next board meeting being held on August 27<sup>th</sup> and staff be directed to distribute any relevant past correspondence or reports in advance of the meeting.*

**CARRIED**

*MOVED: Director Irving*

*SECONDED: Director Bennett*

*THAT Board of Directors request the City of Port Alberni invite the ACRD Board to any related watershed meetings.*

**CARRIED**

## **8. CORRESPONDENCE FOR INFORMATION**

**a. UNION OF BRITISH COLUMBIA MUNICIPALITIES**

Community Works Fund (CWF) Payment-Fiscal 2014/2015

**b. MINISTRY OF JOBS, TOURISM AND SKILLS TRAINING AND MINISTER RESPONSIBLE FOR LABOUR**

Island Coast Economic Trust (ICET) Funding

**c. MINISTRY OF HEALTH**

BC Ambulance Service (BCAS)-Funding and Resources-2010 Tragedy at Kennedy Lake

**d. ISLAND COASTAL ECONOMIC TRUST**

2013/2014 Annual Report

*MOVED: Director Kokura*

*SECONDED: Director McNabb*

*THAT the Board of Directors receive a – d correspondence for information*

**CARRIED**

## **9. REQUEST FOR DECISIONS & BYLAWS**

**a. Request for Decision regarding Millstream-Ucluelet Emergency Water Connection & Watermain Upgrades.**

*MOVED: Director McNabb*

*SECONDED: Director Bennett*

*THAT the Board of Directors direct staff to amend the 2014-2018 Financial Plan to allocate \$30,000 of Electoral Area Administration Gas Tax Funding and \$20,000 of Millstream Water Capital Reserve to the Millstream Water Supply and Distribution System Upgrade.*

**CARRIED**

*MOVED: Director Bennett*

*SECONDED: Director Cote*

*THAT the Board of Directors award the Millstream-Ucluelet Emergency Water Connection and Watermain upgrade contract to Crow Excavating for \$148,323.29 (including GST).*

**CARRIED**

**b. Request for Decision regarding Finance Warrant No. 543.**

*MOVED: Director Geall*

*SECONDED: Director Kokura*

*THAT the Board of Directors approve Finance Warrant Number 543 in the amount of \$608,764.28 dated July 31, 2014.*

**CARRIED**

*MOVED: Director Cote*

*SECONDED: Director Kokura*

*THAT the Board of Directors request staff to research an alternative to roundup to remove vegetation.*

**CARRIED**

**c. Request for Decision regarding Tourism Vancouver Island, Hiking Trails Strategy-Phase 1.**

*MOVED: Director Kokura*

*SECONDED: Director Bennett*

*THAT the Alberni-Clayoquot Regional District receive the request for Decision regarding Tourism Vancouver Island, Hiking Trails Strategy-Phase 1.*

**CARRIED**

**d. Request for Decision regarding Salmon Beach – Boat Ramp Upgrade.**

*MOVED: Director Bennett*

*SECONDED: Director Kokura*

*THAT the Alberni-Clayoquot Regional District Board of Directors award the Salmon Beach Boat Ramp Upgrade Tender to Crow Excavating & Trucking Ltd. for \$35,870.00 plus GST.*

**CARRIED**

**e. Request for Decision regarding Salmon Beach-Short Street Drainage.**

*MOVED: Director Bennett*

*SECONDED: Director McNabb*

*THAT the Alberni-Clayoquot Regional District Board of Directors award the South Side Ditch portion of the Salmon Beach Short Street Drainage Tender to Denis Francoeur Backhoeing Ltd. for \$42,442.00 plus GST.*

**CARRIED**

**f. Request for Decision regarding Appointments to the Solid Waste Plan Monitoring Advisory Committee.**

*MOVED: Director Banton*

*SECONDED: Director Kokura*

*THAT the Alberni-Clayoquot Regional District Board of Directors approve the Solid Waste Plan Monitoring Advisory Committee as presented and that the committee accept representation from the invited First Nation communities as they are provided.*

**CARRIED**

**g. Request for Decision regarding Bylaw E1057, Sproat Lake Marine Patrol Service Area Establishment, 2014.**

*MOVED: Director McNabb*

*SECONDED: Director Bennett*

*THAT Alberni-Clayoquot Regional District Board of Directors give first reading to Bylaw E1057, Sproat Lake Marine Patrol Service Area Establishment, 2014.*

**CARRIED**

*MOVED: Director McNabb*

*SECONDED: Director Irving*

*THAT Bylaw E1057, Sproat Lake Marine Patrol Service Area Establishment, 2014 be amended to include the Uchucklesaht Tribe Government in the service area.*

**CARRIED**

*MOVED: Director McNabb*

*SECONDED: Director Irving*

*THAT Alberni-Clayoquot Regional District Board of Directors give second reading as amended to Bylaw E1057, Sproat Lake Marine Patrol Service Area Establishment, 2014.*

**CARRIED**

*MOVED: Director McNabb*

*SECONDED: Director Cootes*

*THAT Alberni-Clayoquot Regional District Board of Directors give third reading to Bylaw E1057, Sproat Lake Marine Patrol Service Area Establishment, 2014.*

**CARRIED**

*MOVED: Director Kokura  
SECONDED: Director McNabb*

*THAT Alberni-Clayoquot Regional District Board of Directors take Bylaw E1057, Sproat Lake Marine Patrol Service Area Establishment, 2014 to referendum in conjunction with the general local election in November 2014.*

**CARRIED**

## **9. PLANNING MATTERS**

### **9.1 ELECTORAL AREA DIRECTORS ONLY**

- a. DVC14002, SMITH, 1045 SEVENTH AVENUE, SALMON BEACH**  
Development Variance Application – Report

*MOVED: Director Bennett  
SECONDED: Director Kokura*

*THAT the Board of Directors receive the report DVC14002.*

**CARRIED**

*MOVED: Director Bennett  
SECONDED: Director Kokura*

*THAT the Board of Directors pass a resolution to consider issuing development variance DVC14002.*

**CARRIED**

- b. DVF14002, REIMER, 3848 COWLEY ROAD**  
Development Variance Application – Report

*MOVED: Director Banton  
SECONDED: Director Kokura*

*THAT the Board of Directors receive the report DVF14002.*

**CARRIED**

*MOVED: Director Banton  
SECONDED: Director Bennett*

*THAT the Board of Directors pass a resolution to consider issuing development variance DVF14002.*

**CARRIED**

- c. DVF14005, VAN DEN BROEK, 5851 RUMSBY STREET**  
Development Variance Application – Report

*MOVED: Director Banton*

*SECONDED: Director Kokura*

*THAT the Board of Directors receive the report DVF14005.*

**CARRIED**

*MOVED: Director Banton*

*SECONDED: Director Bennett*

*THAT the Board of Directors pass a resolution to consider issuing development variance DVF14005*

**CARRIED**

## **9.2 ALL DIRECTORS**

- a. WC14005, CERMAQ CANADA LTD, HERBERT INLET**  
Crown Lease Referral – Report

*MOVED: Director Bennett*

*SECONDED: Director Banton*

*THAT the Board of Directors receive the staff report.*

**CARRIED**

*MOVED: Director Bennett*

*SECONDED: Director Banton*

*THAT the Board of Directors pass a resolution to allow staff to notify the referral agency that the application complies with zoning bylaw requirements along with the request that the Province and Cermaq takes into consideration West Coast Aquatic's Coastal Strategy and utilizes their planning tools in the placement of the site.*

**CARRIED**

- b. WC14006, CERMAQ CANADA LTD, MILLAR CHANNEL**  
Crown Lease Referral – Report

*MOVED: Director Bennett*

*SECONDED: Director Kokura*

*THAT the Board of Directors receive the staff report.*

**CARRIED**

*MOVED: Director Bennett  
SECONDED: Director Geall*

*THAT the Board of Directors pass a resolution to allow staff to notify the referral agency that the application complies with zoning bylaw requirements along with the request that the Province and Cermaq takes into consideration West Coast Aquatic's 'Coastal Strategy and utilizes their planning tools in the placement of the site.*

**CARRIED**

*MOVED: Director Bennett  
SECONDED: Director McLeman*

*THAT the Board of Directors request staff report back with the implications of developing a separate zoning bylaw for fin fish aquiculture.*

**CARRIED**

**c. AGRICULTURAL PLAN IMPLEMENTATION CONTRACT**  
Request for Decision

*MOVED: Director Kokura  
SECONDED: Director Banton*

*THAT the Board of Directors accept the Agricultural Plan Implementation contract for the Alberni-Clayoquot Regional District submitted by Gardens on the Go Horticultural Training Services in the amount of \$29,900.00 before applicable taxes.*

**CARRIED**

**10. REPORTS**

**10.1 STAFF REPORTS**

**a. Staff Action Items Report – August 13, 2014**

*MOVED: Director Kokura  
SECONDED: Director Cote*

*THAT the Board of Directors receives the Staff Report for August 13, 2014.*

**CARRIED**

**10.2 COMMITTEE REPORTS**

- a. **Central Westcoast Forest Society, Kennedy Watershed Restoration Project-2013-2014 Completion Report - (Tony Bennett)**  
(full report available in office)

*MOVED: Director Bennett*  
*SECONDED: Director Osborne*

*THAT the Board of Directors receives the Central Westcoast Forest Society Report.*

**CARRIED**

*MOVED: Director Irving*  
*SECONDED: Director Bennett*

*THAT the Board of Directors request the Ministry of Transportation consider a phase 2 project at Lost Shoe Creek to continue the salmon rearing channel project.*

**CARRIED**

### **10.3 OTHER REPORTS**

Director McNabb reported there were 3500-4500 spectators in attendance at the AV Drag Racing on the weekend and there were no serious incidents.

### **11. UNFINISHED BUSINESS**

### **12. LATE BUSINESS**

### **13. QUESTION PERIOD**

### **14. ADJOURN**

*MOVED: Director Banton*  
*SECONDED: Director McNabb*

*THAT this meeting be adjourned at 3:24 pm.*

**CARRIED**

Certified Correct:

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Cindy N. Solda,  
Chairperson

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Russell Dyson,  
Chief Administrative Officer



# Alberni-Clayoquot Regional District

## MINUTES OF THE ELECTORAL AREA COMMITTEE MEETING HELD ON AUGUST 13, 2014

Regional District Board Room, 3008 Fifth Avenue, Port Alberni, BC

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- DIRECTORS PRESENT:** Penny Cote, Chair, Electoral Area "D" (Sproat Lake)  
Mike Kokura, Electoral Area "B" (Beaufort)  
Tony Bennett, Electoral Area "C" (Long Beach)  
John McNabb, Electoral Area "E" (Beaver Creek)  
Lucas Banton, Electoral Area "F" (Cherry Creek)
- REGRETS:** Eric Geall, Electoral Area "A" (Bamfield)
- STAFF PRESENT:** Russell Dyson, Chief Administrative Officer  
Teri Fong, Manager of Finance  
Wendy Thomson, Manager of Administrative Services

### 1. CALL TO ORDER

The Chairperson called the meeting to order at 12:30 pm.

**The Chair recognized the meeting this afternoon is being held in the Tseshaht First Nation and the Hupacasath First Nation Traditional Territories.**

### 2. APPROVAL OF AGENDA

*MOVED: Director Kokura*  
*SECONDED: Director Bennett*

*THAT the agenda be approved as circulated with the addition of late items as outlined for consideration.*

**CARRIED**

### 3. ADOPTION OF MINUTES

a. **Electoral Area Directors Meeting – May 14, 2014.**

*MOVED: Director Banton*  
*SECONDED: Director Bennett*

*THAT the minutes of the Electoral Area Directors Meeting held on May 14, 2014 be adopted.*

**CARRIED**

4. **PETITIONS, DELEGATIONS & PRESENTATIONS**

5. **CORRESPONDENCE FOR ACTION**

6. **CORRESPONDENCE FOR INFORMATION**

7. **REQUEST FOR DECISIONS & BYLAWS**

- a. **Request for Decision regarding Millstream-Ucluelet Emergency Water Connection & Watermain Upgrades.**

*MOVED: Director Bennett*

*SECONDED: Director Kokura*

*THAT the Electoral Area Directors Committee recommend to the Board of Directors that the staff amend the 2014-2018 Financial Plan to allocate \$30,000 of Electoral Area Administration Gas Tax Funding and \$20,000 of Millstream Water Capital Reserve to the Millstream Water Supply and Distribution System Upgrades.*

**CARRIED**

*MOVED: Director Bennett*

*SECONDED: Director Kokura*

*THAT the Electoral Area Directors Committee recommend to the Board of Directors that they award the Millstream-Ucluelet Emergency Water Connection and Watermain upgrade contract to Crow Excavating for \$148,323.29 (including GST).*

**CARRIED**

8. **REPORTS**

9. **UNFINISHED BUSINESS**

10. **LATE BUSINESS**

11. **ADJOURN**

*MOVED: Director Kokura*

*SECONDED: Director Banton*

*THAT this meeting be adjourned 12:40 pm.*

**CARRIED**

Certified Correct:

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Penny Cote,  
Chairperson

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Russell Dyson,  
Chief Administrative Officer



## Alberni Golf Club Ltd.

6449 Cherry Creek Road, Port Alberni, BC V9Y 8T3  
Phone (250) 723-7111 Fax (250) 723-7010  
www.albernigolf.com (email) albernigolf@shaw.ca

August 12<sup>th</sup>, 2014

Alberni-Clayoquot Regional District  
3008 Fifth Avenue  
Port Alberni, B.C.  
V9Y 2E3

Dear Board Members,

It is time again for the Alberni Golf Club to request consideration from the Board of the Alberni-Clayoquot Regional District relative to granting a property tax exemption for the golf course under the provisions of the Local Government Act. The Alberni Golf Club has requested this tax exemption since learning of its existence 12 years ago, and we are extremely appreciative that the Board of the Alberni Clayoquot Regional District has recognized the merits in granting it, and has been supportive and granted it in all 12 years. We have been scheduled to make a presentation to the Board at the August 27<sup>th</sup>, 2014 Board Meeting, and appreciate the opportunity to attend and update the Board on our Club's activities, and answer any questions you might have.

As you know, the Alberni Golf Club operates as a non-profit limited company, governed by a volunteer board and executive, and is supported by many volunteers. We are in a very competitive industry and are operating on an extremely conservative and fiscally responsible budget. Our ongoing success and survival is dependent upon the efforts of conscientious staff and volunteers, as well as the continued support of our tax exemption request from this Board. There are minimal costs in servicing this recreation and social facility that are born by the Regional District. Support from the Regional District is vital to our efforts to provide a quality venue which attracts contestants and tourists, allows local and visiting adults to enjoy 40,000 rounds of golf each year, hosts numerous tournaments and raises money for local charities, provides the facility for our local school district to introduce the game of golf at no cost to all local children, and cultivates one of the best and most active junior programs in the province.

As we have done since the first year in this process, we will include in our budget a provision for the Cherry Creek Fire Department. I have enclosed a letter from the Cherry Creek Waterworks District which supports our request for this exemption.

We request your support again this year. I look forward to seeing you at the Board Meeting, and should you have any question, I would be pleased to address them.

Sincerely,

Ken Sander, President Alberni Golf Club

# **CHERRY CREEK WATERWORKS DISTRICT**

5920-A Cherry Creek Rd. Port Alberni, B.C. V9Y 8R7

Monday - Friday 9:30am - 1:30pm

Phone 250-723-2214

Fax 250-723-0225

April 11, 2014

Alberni Golf Club Ltd.  
6449 Cherry Creek Road  
Port Alberni, B.C. V9Y 8T3

Attention: Ken Sander

Dear Ken:

The Board of Trustees, Cherry Creek Waterworks District, discussed your request for support in applying for exemption from property taxes again this year. Please be advised the Board wishes to lend their support to your request. The District is satisfied with the amount you contribute each year to the Fire Department.

Thank you for your attention to this matter.

Sincerely,



Michelle Price  
Administrator

Jane Morden.  
Criag Street  
Port Alberni BC.  
watershedforestalliance@gmail.com  
250-723-9551

August 12, 2014

Re: Request for letter sign on

Dear Alberni-Clayoquot Regional District Board,

I am writing to bring you into conversation and request your support around the topic of watershed protection and the old growth logging going on in McLaughlin Ridge. We are calling on a pause to the logging in McLaughlin Ridge in order to have a conversation around watershed protection.

At this time when a new water treatment plant is being built for the City of Port Alberni and there are ongoing conversations about expanding the water supply network to Sproat Lake we, the Watershed Forest Alliance, feel that it is important to have a conversation about watershed protection for the China Creek watershed. Such a conversation now could lead to significant positive economic implications in the long run.

In order to create space for this conversation it is necessary to pause the current logging in McLaughlin Ridge so that all stakeholders can come to the table and explore options for watershed protection.

The City of Port Alberni has recently signed on to the letter and passed a motion to engage Island Timberlands into conversation around this issue. At this time we are calling on Alberni-Clayoquot Regional District to sign on to the attached letter. The letter calls on the Province and Island Timberlands to pause logging in McLaughlin Ridge so that conversation can be had about protection for these significant areas.

As citizens of the Alberni Valley we call on the Regional District to act on these concerns and help further watershed protection for future generations.

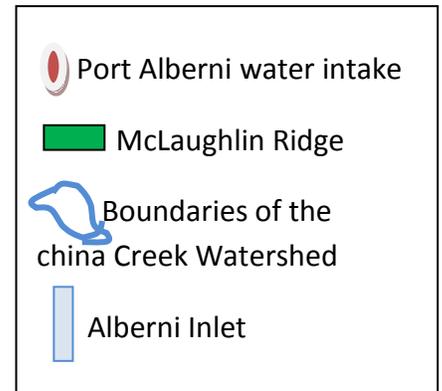
Sincerely,

Jane Morden

Coordinator, Watershed Forest Alliance

## McLaughlin Ridge Info Sheet

**Location:** Southeast of Port Alberni in the China Creek Watershed. See Figure 1 below.



### Significance:

- High altitude old growth Douglas-fir forest
- Habitat for Endangered Queen Charlotte Goshawk
- Winter range for deer
- In the China Creek Community Watershed

McLaughlin Ridge is a high altitude, Douglas-fir old growth area located in the China Creek watershed. Located on steep slopes above the creek the forest not only provides soil stability, erosion control, and temperature moderation benefits but was also designated as an area of ecological significance by BC government scientists in the 1990s.

McLaughlin Ridge was intended for protection by the provincial government as an Ungulate Winter Range (UWR) and Wildlife Habitat Area (WHA), until the province's plans changed when it removed the lands from the Tree Farm Licence in 2004. The removal of the lands from TFL 44 included the stipulation from the BC government that a follow-up agreement be developed between the company and the government to ensure the protection of McLaughlin Ridge. However, both parties failed to pursue the agreement, and the lands are now being logged.



Above: McLaughlin Ridge July 2014. View from China Creek.



Above: South slope of McLaughlin Ridge July 2014

To Darshan Sihota, CEO of Island Timberlands, and Steve Thomson, BC Minister of Forests, Lands, and Natural Resource Operations:

We, the undersigned organizations, are greatly concerned about the rapid logging by Island Timberlands of McLaughlin Ridge near Port Alberni. We urge both the BC government and Island Timberlands to ensure that this critical area and the remaining old growth forests on Vancouver Island in similar situations are not logged.

A few hundred hectares of extremely endangered old-growth forests still stand – for now – on McLaughlin Ridge. This includes major stands of ancient Douglas-fir trees, the overwhelming majority of which have been logged on BC's coast. McLaughlin Ridge has been recognized by the provincial government's own biologists as one of the most important habitats for the red-listed or endangered Queen Charlotte Goshawk and as one of the finest ungulate wintering ranges on Vancouver Island.

McLaughlin Ridge is part of 78,000 hectares of land that were removed from Tree Farm Licence (TFL) 44 on Vancouver Island in 2004, thereby removing the environmental policies and/or regulations designed to protect species at risk, old-growth forests, ungulate winter ranges, and riparian areas; to control the rate of cut; and that prohibited raw log exports in order to protect local mills.

McLaughlin Ridge was supposed to be protected by the provincial government as an Ungulate Winter Range (UWR) and Wildlife Habitat Area (WHA), until the province's plans changed when it removed the lands from Tree Farm Licence 44. The removal of the lands from TFL 44 included the stipulation from the BC government that a follow-up agreement be developed between the company and the government to ensure the protection of McLaughlin Ridge and other intended UWR's and WHA's – however, both parties failed to pursue the agreement, and the lands are now being logged. This confirms the basis of the tremendous public opposition to the removal of these lands from the TFL, as our worst fears regarding this major policy shift are now being realized.

In total, about 2400 hectares of endangered old-growth forests originally intended for protection by the BC government as Ungulate Winter Ranges and Wildlife Habitat Areas in TFL 44 are now endangered.

These lands also include Horne Mountain above the world-famous Cathedral Grove, the Cameron Valley Firebreak, Katlum Creek, and other areas – about two-thirds of which are estimated to have now been logged. Much of McLaughlin Ridge could be logged within a few short weeks at the current pace of falling.

Time is short, and we are asking that Island Timberlands and the BC government show leadership to prevent the escalation and widening of the conflict over the company's logging operations

We are asking that:

Jane Morden.  
Craig Street  
Port Alberni BC.  
watershedforestalliance@gmail.com  
250-723-9551

August 20, 2014

Re: Request for letter sign on – revised

Dear Alberni-Clayoquot Regional District Board,

I am writing to follow up from the conversation regarding the materials we sent to the Aug 13<sup>th</sup> meeting of the ACRD. I am submitting an alternative request for your support around the topic of watershed protection and the old growth logging going on in McLaughlin Ridge.

At this time when a new water treatment plant is being built for the City of Port Alberni, there is the potential need for an additional treatment plant, and there is ongoing talk about expanding the water supply network to Sproat Lake we, the Watershed Forest Alliance, feel that it is important to have a discussion about watershed protection for the China Creek watershed. Proactive action now could lead to significant positive economic implications in the long run.

In order to create space for this conversation it is necessary to pause the current harvesting operations in McLaughlin Ridge so that all stakeholders can come to the table and address community concerns around watershed protection.

The City of Port Alberni has recently signed on to a letter and passed a motion to engage Island Timberlands and the Province into conversation around this issue. At this time we are calling on Alberni-Clayoquot Regional District to sign on to the attached letter. Please note that due to comments and feedback on the sign-on letter, it has been slightly adjusted since the version that was emailed on August 18<sup>th</sup>, 2014. The final version is attached here with the agenda package for your consideration.

As citizens of the Alberni Valley we call on the Regional District to act on these concerns and help further watershed protection for future generations by signing on and supporting the attached letter.

Sincerely,

Jane Morden  
Coordinator, Watershed Forest Alliance

August 27, 2014

To Darshan Sihota, CEO of Island Timberlands, and Steve Thomson, BC Minister of Forests, Lands, and Natural Resource Operations:

We are writing in regards to the logging that is taking place in the China Creek Watershed, specifically on McLaughlin Ridge. As pressures to the watershed increase, we are concerned with the potential increased risk to both the quality and quantity of the water. It is crucial that there be a more in depth conversation about watershed protection for our community. In order for this to happen, the harvest operations must be paused so that the state of this forest does not change during these discussions.

Significant harvesting has already occurred in this watershed and additional substantial cuts are occurring as of the summer of 2014, heightening the concern of the citizens of the Alberni Valley. The City of Port Alberni has recently passed a motion to engage the Province and Island Timberlands, along with the Watershed Forest Alliance, into conversation around this issue.

The south-facing slope of McLaughlin Ridge is an important component of the watershed with specific attributes that should be protected. The very steep slopes of McLaughlin Ridge contain one of the largest intact high elevation old growth Douglas-fir forests on Vancouver Island. The forest acts like a sponge to slow evaporation, filter the water, and stabilize the thin soils. It is also a forest that has been recognised by BC government biologists and ecosystem specialists to have high wildlife conservation value, and was once designated as an area that should be protected, according to government documents.

We continue to be concerned about forestry regulation, and how it treats Crown and Private lands with very different regulatory protections that impact the ecology and the drinking watersheds of BC's communities.

We are requesting a pause in the harvesting operations within the China Creek Watershed, particularly in the McLaughlin Ridge area, so that concerns over long-term watershed protection can be addressed between the purveyors of the water system, the recipients of the water system, and the private land owners who control harvest operations within the watershed.

Sincerely,

Watershed Forest Alliance

**Review of MacMillan Bloedel's 1999-2003  
Forest Development Plan  
for the  
China Creek and Bainbridge Lake  
Watersheds**

Prepared for:

**City of Port Alberni**  
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April 30, 1999

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## Executive Summary

MacMillan Bloedel's 1999-2003 Forest Development Plan, encompassing the areas of the China Creek and Bainbridge Lake community watersheds, is consistent with the strict requirements of the *Operational Planning Regulations* of the Forest Practices Code of BC, with the following possible exception:

Section 15 (5) (b) of the *Operational Planning Regulations* states that "*The district manager...may require the person to carry out a new watershed assessment before making the forest development plan available for review under section 27 if, since the date on which the most recent watershed assessment was carried out, the extent of timber harvesting or road construction operations within the watershed has been significantly greater than was considered in the assessments because of expedited major salvage or emergency harvesting operations*".

The extent of harvesting proposed in the year since the watershed assessment was completed has increased from 2 blocks totaling 106 hectares to 10 blocks totaling 740 hectares. Similar increases in the proposed cut within the Bainbridge Lake community have occurred since the watershed assessment process was completed.

The following items summarize the major review comments. Recommendations are made to address the major issues.

1. It is unlikely that a significant risk of peak flow changes in China Creek will result from the proposed harvesting and road construction. If all the proposed blocks are logged by 2003, and if TimberWest harvests about one-half of their private land area during the same time, the elevation-weighted Equivalent Clearcut Area (ECA) of China Creek will be about 32%. Glynnis Horel, P.Eng., interpreted an ECA at this level to be of low concern for China Creek, and I concur.
2. The rate-of-cut proposed by MacMillan Bloedel for the China Creek watershed is high (approximately 2.5% of the watershed per year). The greatest concern for this rate-of-cut is related to two factors:
  - The level of harvest proposed by MB requires a large amount of new road (>10 km) constructed in 5 years. This extent of disturbance increases the risk of water quality impacts, unless construction is done well during dry weather.
  - The level of harvest will require a high level of road use by loaded logging trucks. The scientific literature and operational experience suggests that, in the absence of landslide activity, loaded logging trucks are the most significant turbidity-causing sediment source in watersheds.
3. In general, the Riparian Management Area regulations of the Forest Practices Code provide sufficient protection to streams and lakes in the MacMillan Bloedel portions

of the China Creek and Bainbridge Lake watersheds, with the following possible exceptions:

- McLaughlin Creek adjacent to block 1722 is classified as an S4 channel (<1.5 m in width). The stream will have a 30 m riparian management area (0 m no-log reserve and a 30 m partial log management zone). This is possibly insufficient. The small channel flows into China Creek immediately above the water intake, and if disturbance occurs it would probably be manifested at the intake. It's uncertain looking at FDP map why the block boundary had to cross this small channel.
  - Lizard Lake is classified as an L1 lake, and receives a riparian reserve of 10 m under the Forest Practices Code. With regard to block 1735, this is possibly insufficient to minimize sediment input from falling and yarding. The proposed access road to the block is sited well back from the lake shore and is low risk with regard to sediment.
4. Five proposed blocks in the China Creek basin and three proposed blocks in the Bainbridge Lake basin are mapped as containing terrain of stability class IV (potentially unstable) and class V (unstable). Activities on these areas may result in landslides and negative effects on water quality. Detailed terrain stability assessments are required.
  5. The proposed road in block 1737 in the China Creek basin is located on stability class IV terrain. The landslide risk will need to be addressed by MB through detailed terrain stability assessments. However, the stability classification usually indicates steep, wet terrain. The proximity of this block and road to the mainstem of China Creek is noteworthy. There is likely a direct path for road-related sediment to get to the creek. MacMillan Bloedel should ensure before construction that this road does not result in undue risk to water quality, by having an erosion potential reconnaissance completed (concurrent with the stability assessments).
  6. The Forest Development Plan doesn't provide detail regarding measures to minimize chemical, fuel or fecal contamination of the water supplies. Discussion with Wayne French, the Operations Engineer with MacMillan Bloedel responsible for the Forest Development Plan, on these issues has not yet taken place. In the absence of that discussion, some recommendations to address water contamination should be followed (and may already be part of MacMillan Bloedel's operations).
  7. Maintaining good communication between MacMillan Bloedel Ltd. and the City of Port Alberni is essential. Under section 7 (1) (c) of the *Operational Planning Regulations*, MacMillan Bloedel should advise the City of Port Alberni when the following activities will be taking place in the China Creek and Bainbridge Lake watersheds:
    - Road construction;

- Active logging;
- Hauling.

## Recommendations

Based on this review, the following recommendations are made regarding the MacMillan Bloedel 1999-2003 Forest Development Plan:

1. MacMillan Bloedel should formally refer all operational plans and amendments regarding forestry activity in the China Creek and Bainbridge Lake community watersheds to the City of Port Alberni, as per section 7 (1) (c) of the *Operational Planning Regulations* of the Forest Practices Code of BC.
2. MacMillan Bloedel should produce an amendment by the China Creek and Bainbridge Lake Coastal Watershed Assessment Procedure reports that addresses the increased extent of harvest and the increased extent of road construction in both watersheds, as per section 15 (5) (b) of the *Operational Planning Regulations*. This amendment to the CWAP reports should also be discussed through another "Round Table" meeting.
3. MacMillan Bloedel should complete soil erosion field assessments for all areas of proposed road construction, as per section 5 of the *Forest Road Regulations*, and those assessments to be used to realign roads if the risk of soil erosion into streams is high, and used to design erosion control measures, as required, on new roads.
4. To minimize effects on water quality, MacMillan Bloedel should:
  - a. Ensure that new roads are well constructed, with sediment control measures such as culvert sumps, frequent cross-drains, competent surfacing, grass seeding, and other measures where appropriate;
  - b. Complete the road upgrade and deactivation assessments recommended by Glynnis Horel, P.Eng., in the watershed assessment reports;
  - c. Develop weather related shutdown guidelines for erosion management during yarding and hauling, and communicate those specific guidelines to the City of Port Alberni. Based on these guidelines shut down yarding and hauling during periods of large or prolonged rainfall, or after periods of rainfall if road conditions are wet and pose a risk to water quality;
5. To the greatest extent possible, MacMillan Bloedel should conduct road construction during dry spring and summer weather (May - September).
6. MacMillan Bloedel should conduct a field reconnaissance of the block boundaries for blocks 1722 and 1735, and make adjustments as necessary, to ensure that the risk of direct stream or lakeshore disturbance from harvesting is minimized. If it is

unnecessary to adjust block boundaries, the harvesting in these two areas will need to be done with care to minimize disturbance of the adjacent water bodies. The riparian concerns are summarized as:

- McLaughlin Creek adjacent to block 1722 is classified as an S4 channel (<1.5 m in width). The stream will have a 30 m riparian management area (0 m no-log reserve and a 30 m partial log management zone). This is possibly insufficient.
  - Lizard Lake is classified as an L1 lake, and receives a riparian reserve of 10 m under the Forest Practices Code. With regard to block 1735, this is possibly insufficient to minimize sediment input from falling and yarding.
7. Five proposed blocks in the China Creek basin and three proposed blocks in the Bainbridge Lake basin are mapped as containing terrain of stability class IV (potentially unstable) and class V (unstable). Under Section 16 of the Operational Planning Regulations these blocks require detailed terrain stability assessments, and adjustments made to the logging plans as necessary to ensure that slope stability is maintained.
  8. The proposed road in block 1737 in the China Creek basin is located on stability class IV terrain. The landslide risk will need to be addressed by MB through detailed terrain stability assessments. However, the stability classification usually indicates steep, wet terrain. The proximity of this block and road to the mainstem of China Creek is noteworthy. There is likely a direct path for road-related sediment to get to the creek. MacMillan Bloedel should ensure before construction that this road does not result in undue risk to water quality, by having an erosion potential reconnaissance completed (concurrent with the stability assessment).
  9. To minimize the potential for contamination of the water supply, it is recommended that MacMillan Bloedel do the following:
    - Where practical fuel machinery outside the boundaries of the community watersheds;
    - Where onsite fuels and lubricants are required, they should be stored in leak-proof containers;
    - Provide, and direct crews to use, portable outhouses during operations in the watersheds.
  10. MacMillan Bloedel should advise the City of Port Alberni when and where the following activities will be taking place in the China Creek and Bainbridge Lake watersheds:
    - Road construction;
    - Active logging;

- Hauling.

## A. Introduction

MacMillan Bloedel Ltd. (West Island Woodlands Division, Franklin Operation) has recently submitted its 1999-2003 Forest Development Plan (FDP) proposal to the Ministry of Forests for approval. The FDP encompasses the areas of China Creek and Bainbridge Lake, both utilized by the City of Port Alberni for drinking water. Upon their request, the FDP was referred to the City of Port Alberni for review. The City of Port Alberni subsequently contracted to Chapman Geoscience Ltd. to conduct a review of the FDP with regard to assessing implications to the City's water quality.

This report presents the results of that review, conducted by Allan Chapman, P.Geo., and Eric Schroff, FIT. In addition to the proposed forestry activity by MacMillan Bloedel Ltd. (MB), this review incorporates forestry activity by TimberWest Ltd. (TW). Because of the different land tenures, information for MB and TW are reported separately (with integration, where appropriate). The MB activity is for private land managed within Tree Farm License 44 and, as such, must meet the requirements of the Forest Practices Code of BC. The TW activity is for private managed forest land, and is not subject to the Forest Practices Code.

The objective of this review is to report on the following aspects of the proposed forestry activity in the China Creek and Bainbridge Lake watersheds:

1. Determine the combined rate-of-cut proposed for the watersheds by the two companies.
2. Assess the potential for the proposed harvesting and associated proposed road development to negatively effect stream discharge in the watersheds.
3. Assess the potential for the proposed harvesting and the associated proposed road development to negatively effect domestic water quality for the City of Port Alberni. This will include an assessment of:
  - Slope stability and landslides;
  - Road erosion;
  - Stream disturbance;
  - Water quality and stream turbidity.
4. Evaluate the effectiveness of proposed riparian "buffers" in providing stream protection.
5. Evaluating pollution prevention measures, including:
  - Sanitary facilities;
  - Control of fuel and lubricants from logging machinery.

6. Evaluate measures used to minimize the transport of turbidity-causing sediment from roads to streams, including:
  - Wet-weather or wet conditions shutdown guidelines;
  - Mitigative road engineering strategies, including the use of settling basins at culverts, geotextile silt fences, vegetation seeding, etc.
7. Evaluating fire prevention measures, and implications for domestic water quality.
8. Evaluating the variable retention harvesting proposed by MacMillan Bloedel Ltd., in relation to strategies to minimize water quality impacts.
9. Compliance with the Forest Practices Code.

## **B. Information Reviewed**

The following information was reviewed and interpreted during this project:

- 1999-2003 Forest Development Plan, by MacMillan Bloedel Ltd. (report and FDP mapsheets);
- Coastal Watershed Assessment Procedure report for the China Creek watershed, by Glynnis Horel, P.Eng., Ostapowich Engineering Services Ltd., March 31, 1998;
- Coastal Watershed Assessment Procedure report for the Bainbridge Lake watershed, by Glynnis Horel, P.Eng., Ostapowich Engineering Services Ltd., June 17, 1998;
- Report to the City of Port Alberni and Alberni Clayoquot Regional District, by TimberWest Forest Company Ltd., March 29, 1999;
- 1994 1:19,000 colour aerial photographs covering both the MacMillan Bloedel and TimberWest portions of the watershed;
- Personal interviews with Glynnis Horel, P.Eng., consultant to MacMillan Bloedel Ltd. (we have been unsuccessful in arranging an interview with Wayne French (Operations Engineer, MacMillan Bloedel Ltd., West Island Woodlands), the author of the Forest Development Plan);
- Personal interviews with John Mitchell (TimberWest Ltd., Mesachie Lake), and Bob Willington, P.Eng. (TimberWest Ltd., Crofton).

## **C. Review of MacMillan Bloedel Ltd. Forest Development Plan**

### **China Creek**

The Forest Development Plan is consistent with the strict requirements of the *Operational Planning Regulations* of the Forest Practices Code of BC, with the following possible exception:

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Section 15 (5) (b) of the *Operational Planning Regulations* states that “*The district manager...may require the person to carry out a new watershed assessment before making the forest development plan available for review under section 27 if, since the date on which the most recent watershed assessment was carried out, the extent of timber harvesting or road construction operations within the watershed has been significantly greater than was considered in the assessments because of expedited major salvage or emergency harvesting operations*”.

The China Creek watershed assessment (dated March 1998) considered an FDP containing 2 blocks totaling 106 ha of harvesting (1.9% of the community watershed). The 1999-2003 FDP submitted for approval contains 10 blocks totaling approximately 740 ha (13% of the community watershed), along with 10.3 km of new road construction. This is a very large increase in the extent of proposed harvesting (and associated road construction) in a short period of time, and corresponds to a proposed rate-of-cut of about 2.5% of the watershed area per year, which is generally considered high. I am uncertain whether this large increase in the extent of harvesting over that assessed in the China Creek CWAP is inconsistent with the wording of *Operational Planning Regulation 15 (5) (b)*, but it appears to be inconsistent with the intent of the regulation<sup>1</sup>.

Major review comments are discussed as follows:

### **1. Peak Flows and Rate-of-Cut**

The proposed extent of harvest is high and, as noted above, is substantially higher than that assessed in Glynnis Horel's watershed assessment (Table 1). The current elevation-weighted Equivalent Clearcut Area (ECA)<sup>2</sup> has been estimated by Ms. Horel to be 1,072 ha (19% of the community watershed). The proposed MacMillan Bloedel harvesting will add another 740 ha (excluding area of timber retention in variable retention harvesting).

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<sup>1</sup> Personal communication, Steve Chatwin, P.Geo., ex-Ministry of Forests, Research Branch, Victoria, April 23, 1999. While with the MoF, Mr. Chatwin was responsible for developing water and terrain management policy and regulations, and was the principal author of the regulation cited here. He indicated that the phrase “... *expedited major salvage or emergency harvesting operations*.” used in the regulation was intended as examples of reasons for large increases in the extent of harvesting, but not as the only reasons.

<sup>2</sup> Equivalent Clearcut Area, referred to as “ECA”, is a simple method that attempts to describe the extent of a watershed in a clearcut state, with respect to the interception of snow. In areas of snowfall, trees commonly intercept 20-30% of the winter snowfall and sublimate this snow back to the atmosphere (sublimation is the process of snow transformation from solid snow to gas, skipping the intermediate liquid phase). It is believed that tree harvesting results in increased snow accumulation on the ground as a result of the loss of interception of snow by the forest canopy. In watersheds where the largest peak flows occur during the winter from rain-on-snow events, such as China Creek, this increased snow accumulation is believed to result in a risk of increased peak flows. The ECA of a cutblock is reduced as trees regenerate after logging. ECA reduction begins at 3 metres of tree height, and is considered fully recovered by 9-10 metres of tree height. The term “elevation-weighted ECA” is used in the China Creek CWAP, whereby harvested areas in the 300 – 800 metre elevation zone (sometimes referred to as the rain-on-snow zone) are assessed to be of higher significance with respect to peak flow generation.

TimberWest is proposing approximately 50 ha of harvesting in year 2000, and possibly another 50-100 ha by year 2003. At the same time as this new harvesting, ECA is being reduced as the result of tree growth on previously harvested areas.

The combined harvesting of the two companies, along with ECA reduction by tree growth, will result in an ECA of approximately 32% at year 2003. Glynnis Horel interpreted an elevation-weighted ECA at this level as having a low significance for peak flow impact on China Creek, and I generally concur. It is unlikely that the combined harvesting of MacMillan Bloedel and TimberWest will result in a significant risk of increased peak flows in China Creek.

None-the-less, concern should be noted over this proposed rate of cut, mostly for the rate of road construction and the extent of yarding and hauling in a short period of time.

Table 1. Harvesting and rate-of-cut in the MacMillan Bloedel and TimberWest portions of the China Creek watershed. All values are given as a percentage of the total watershed area (5,670 ha above the City of Port Alberni water intake). For TimberWest, a harvest of 150 ha from 2000-2003 is estimated.

	ECA 1998	Harvest 1999-2003	ECA Recovery 1999-2003	ECA 2003
MacMillan Bloedel	19%	13%	3%	29%
TimberWest	0	3%	0	3%
TOTAL	19%	16%	3%	32%

## 2. Roads and Sediment

Glynnis Horel's watershed assessment noted that road erosion is a major water quality concern associated with the MB harvesting in the China Creek basin. Again, I concur with that interpretation. The level of this concern is increased substantially as a result of the high rate-of-cut proposed by MB for the 1999-2003 period.

- More than 10 km of new road construction is proposed in the FDP (increased from the 2 km assessed in the China Creek CWAP report). This extent of mineral soil disturbance in a short period of time may result in degraded water quality unless good erosion control measures are employed, including construction practices and construction shutdown during wet conditions.
- The high rate-of-cut will result in a high rate of road usage by machinery and loaded logging trucks. A significant concern for drinking watershed quality is the mobilization and transport of fine sediment (silt-sized and smaller) from the active

road network by truck and machine use. Again, as noted above, good erosion control measures are needed to minimize the potential for degraded water quality, employed, including construction practices and yarding and hauling shutdown during wet conditions.

- The proposed road in block 1737 is located on ES<sub>2</sub> or stability class IV terrain (defined as potentially unstable). The landslide risk will need to be addressed by MB through detailed stability assessments. However, the stability classification usually indicates steep, wet terrain. The proximity of this block and road to the mainstem of China Creek is noteworthy. There is likely a direct path for road-related sediment to get to the creek. MacMillan Bloedel should ensure before construction that this road does not result in undue risk to water quality, by having an erosion potential reconnaissance completed (concurrent with the stability assessment).

As part of the China Creek Coastal Watershed Assessment Procedure process, MacMillan Bloedel committed to a number of recommendations addressing roads and erosion, including:

- Assess China Creek Main and other roads, and complete upgrades as required, to address existing erosion sites. These upgrades can include pulling back sloughing fills, replacing undersized or deteriorated drainage structures (bridges and culverts), armouring culvert inlets and outlets, and others.
- Assess the potential for permanent and semi-permanent deactivation, including upper China Creek Main, midslope roads in sub-basin 1, and other roads.
- Carry out terrain stability field assessments for all proposed road locations on steep or potentially unstable terrain.

Glynnis Horel, P.Eng. indicated that she and Dale Ostapowich, P.Eng., have been requested by MacMillan Bloedel to complete the road assessments and upgrade/deactivation prescriptions as soon as possible in 1999, once the snow melts<sup>3</sup>. It is expected that the road upgrades will be completed early in the FDP period. The deactivation will likely be distributed across the FDP period, and would be done when machines are available in the watershed for new road construction.

### **3. Riparian Management**

The Operational Planning Regulations of the Forest Practices Code of BC provide explicit requirements for streamside or riparian management, with different combinations of streamside reserves (no logging zones) and management zones (where some logging is allowed) based on stream channel width. These requirements are summarized in Table 2.

A summary of the RMA requirements for specific blocks is as follows:

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<sup>3</sup> Personal communication, Glynnis Horel, P.Eng., Ostapowich Engineering Services, Ltd., Saltspring Island, BC, April 26/99.

- China Creek adjacent to Block 1778, upstream of the intake, is classified as an S2 channel (5-20 m in width). The stream will have a 50 m riparian management area (30 m no-log reserve and a 20 m partial log management zone). This is probably sufficient.

Table 2. Riparian Management Area (RMA) requirements from the Forest Practices Code for community watersheds. The RMA is applied on each side of a stream channel

Class	Stream Width (m)	Reserve Zone(m)	Management Zone(m)	Total RMA (m)
S1	>20	50	20	70
S2	5-20	30	20	50
S3	1.5-5	20	20	40
S4	<1.5	0	30	30

- China Creek adjacent to Block 1737 is classified as an S2 channel (5-20 m in width). The stream will have a 50 m riparian management area (30 m no-log reserve and a 20 m partial log management zone). This is probably sufficient.
- McLaughlin Creek adjacent to block 1722 is classified as an S4 channel (<1.5 m in width). The stream will have a 30 m riparian management area (0 m no-log reserve and a 30 m partial log management zone). This is possibly insufficient. It's uncertain looking at FDP map why the block boundary had to cross this small channel. The boundary should be reviewed with a field reconnaissance to confirm channel size and stability, and to determine whether it might be more appropriate to remove this small area from the block.
- Williams Creek adjacent to Block 1734 is classified as an S3 channel (1.5 – 5 m in width). The stream will have a 40 m riparian management area (20 m no-log reserve and a 20 m partial log management zone). This is probably sufficient.

Lake shores are similarly managed with Riparian Management Areas, with the widths and treatments based on lake surface area and other factors.

- Lizard Lake is classified as an L1 lake, and receives a riparian reserve of 10 m under the Forest Practices Code. With regard to block 1735, this is possibly insufficient to minimize sediment input from falling and yarding. The proposed access road to the block is sited well back from the lake shore and is low risk with regard to sediment. Section 64 (4) of the Operational Planning Regulations allows the lakeshore riparian management area to be expanded if necessary, with the agreement of the Ministry of

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Forests' district manager and the designated environment official (Ministry of Environment). A site reconnaissance of the block boundary for block 1734 should be conducted to see if an expansion of the reserve width is required to minimize water quality impacts (e.g., if fine-grained soils, steep areas, or areas of subsurface water concentration and seepage are encountered).

#### **4. Slope Stability**

MacMillan Bloedel Ltd. is proposing harvesting on a number of areas mapped as terrain stability class IV (potentially unstable) and class V (unstable). The blocks are as follows:

- 1721
- 1737
- 1738
- 1778
- 1784

These blocks will require terrain stability field assessments and adjustments to the blocks, as required, to ensure that slope stability is maintained.

#### **5. Pollution Control (Sewage and Fuel) - this section is incomplete**

MacMillan Bloedel Ltd. provides on-site outhouses for workers during falling, bucking and yarding. The need to use these facilities should be communicated again to MB.

MacMillan Bloedel Ltd. has not indicated if or how they intend to fuel machinery within the watershed, or what measures they use to control potential fuel spills.

#### **6. Sediment Control**

MB has wet weather shutdown guidelines that are most often applied to ensure worker safety, but are not well developed or applied to minimize sediment disturbance on roads and water quality impacts. The need for work shutdown for wet weather and wet road conditions, specifically for yarding and hauling, needs to be strongly communicated to MB. Glynnis Horel is working with MB to develop rainfall-shutdown guidelines for parts of MB's operating areas. We recommend that West Island Woodland Division request that Ms. Horel develop similar guidelines for sediment control in the China Creek and Bainbridge Lake watersheds.

The importance of this must be strongly recognized. The scientific literature, supported by operational experience, clearly suggests that in the absence of catastrophic mass wasting events such as landslides or road failures, most turbidity-causing sediment comes from active hauling on logging roads during wet conditions.

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## **Bainbridge Lake**

The review comments for the Bainbridge Lake portion of the Forest Development Plan are similar to those expressed for China Creek.

- The Forest Development Plan reviewed by Glynnis Horel as part of the Coastal Watershed Assessment Procedure process showed no logging proposed for Bainbridge Lake. In the 10 months following the CWAP process, MacMillan Bloedel Ltd. has placed 4 blocks in the watershed, totaling 125 ha (9.4% of the watershed area). The FDP also includes approximately 4.5 km of new road construction.
- As noted in the watershed assessment report, peak flow changes associated with logging are not of significant concern, but the extent of road construction and road use by loaded trucks are of concern.
- Ms. Horel noted the fine-textured surficial materials (sand and silt) in the Bainbridge Lake watershed, and the potential for those materials to be easily disturbed through road construction and use. In particular, construction and use for hauling during wet weather or following wet weather when conditions are wet, has the greatest risk of turbidity-causing sediment to be transported to streams and then to Bainbridge Lake.

## **D. Review of TimberWest Activity**

This section on TimberWest activity in the two watersheds is included as to link the operations of the two companies in the watersheds. TimberWest's activity is on private managed forest land and is not subject to Forest Practices Code regulations. However, their activities may affect those approved for MacMillan Bloedel in the TFL.

TimberWest Ltd. does not have a formal forest development plan prepared for their private land operations in the China Creek and Bainbridge Lake watersheds that indicates harvesting beyond year 2000. The information reviewed and commented on in this report is largely from interviews with John Mitchell, RPF (Operations Planner, Cowichan Woodlands Operation, Mesachie Lake) and Bob Willington, P.Eng. (Crofton). As noted earlier in this report, the TimberWest portions of the two watersheds is privately owned, and no regulations exist to address potential environmental effects associated with private land forestry activity. The pending Private Forest Land (PFL) Regulations are expected to be released soon, and TimberWest has indicated they will meet or exceed those standards. It is worth noting that the specifics of the standards are substantially less rigorous than those used for Crown Land.

### **1. Harvesting**

TimberWest owns approximately 370 ha in the China Creek watershed (6.5% of the community watershed area), and is intending to harvest approximately 50 ha in the basin in year 2000, and possibly another 100 ha by 2003. For the 2000 harvesting, roads will be constructed in 1999.

With regard to Bainbridge Lake, TimberWest owns approximately 450 ha (33% of the community watershed area) approximately 68 ha is scheduled for harvest in 2000, with additional harvesting in future years. Road construction is planned for 1999. It is likely that TimberWest will intend to harvest most of the available trees in their portion of the watershed over the next 10-20 years.

Because of the configuration of small streams draining into Bainbridge Lake, it is unlikely that harvesting itself will result in peak flow changes with possible effects on water quality. The most significant risk factors for water quality are road construction and use, and streamside logging.

## **2. Roads and Sediment Control**

A quick inspection of a recently built TimberWest road near Bainbridge Lake indicated that erosion of fine sediment had occurred. It is likely that sand-sized and smaller sediment was transported approximately 150 m into Bainbridge Lake. The main factors appeared to be:

- a relatively low cost road constructed through fine-grained surficial materials, with no coarse surfacing applied over the local material;
- use of the road by trucks during wet conditions, resulting in deep rutting and sediment mobilization.

Similar to the MacMillan Bloedel portions of the watershed, some road construction and use practices are essential to minimize impacts on water quality. These include:

1. Constructing roads during summer periods, when the probability of intense or prolonged rainfall is low.
2. Shutting down yarding and hauling and other machine use of the roads during periods of intense or prolonged rainfall, or when road conditions are wet and not suited for truck use. This is especially important if the roads are "green" or unsurfaced. In the Bainbridge Lake area, surficial materials appear to be fine-textured. When disturbed (and wet), these materials are readily eroded and transported to streams.
3. Using sediment control measures, where appropriate, including:
  - Seeding erodible cut slopes;
  - Constructing sumps at culvert inlets;
  - Using geotextiles or hay to trap sediment before it gets to streams.
  - Using frequent cross-drains along roads to minimize water transport into streams, and to instead discharge surface water onto the forest floor where it can infiltrate.

## **3. Slope Stability**

TimberWest does not have slope stability or terrain mapping for their portions of the China Creek and Bainbridge Lake watersheds. However, they have terrain stability field

assessments completed if warranted by site-specific conditions (e.g., steep slopes, indications in incipient instability, etc.).

#### **4. Riparian Management**

TimberWest has indicated they will meet or exceed the PFL regulations with respect to riparian management. The PFL regulations do not require a forested reserve, as is required for Crown land for streams larger than 1.5 m in width. Instead, a minimum requirement for the retention of trees is established (1-2 trees per 10 m of stream length, depending on the stream width, for channels >1.5 m wide). Additional riparian treatments beyond this minimum requirement will be established based on site-specific conditions for stream bank instability, windthrow management, and other factors.

### **E. Recommendations for Forestry Activities by MacMillan Bloedel Ltd. in the China Creek and Bainbridge Creek Community Watersheds**

1. MacMillan Bloedel should formally refer all operational plans and amendments regarding forestry activity in the China Creek and Bainbridge Lake community watersheds to the City of Port Alberni, as per section 7 (1) (c) of the *Operational Planning Regulations* of the Forest Practices Code of BC.
2. MacMillan Bloedel should produce an amendment by the China Creek and Bainbridge Lake Coastal Watershed Assessment Procedure reports that addresses the increased extent of harvest and the increased extent of road construction in both watersheds, as per section 15 (5) (b) of the *Operational Planning Regulations*. This amendment to the CWAP reports should also be discussed through another "Round Table" meeting.
3. MacMillan Bloedel should complete soil erosion field assessments for all areas of proposed road construction, as per section 5 of the *Forest Road Regulations*, and those assessments be used to realign roads if the risk of soil erosion into streams is high, and used to design erosion control measures, as required, on new roads.
4. To minimize effects on water quality, MacMillan Bloedel should:
  - a. Ensure that new roads are well constructed, with sediment control measures such as culvert sumps, frequent cross-drains, competent surfacing, grass seeding, and other measures where appropriate;
  - b. Complete the road upgrade and deactivation assessments recommended by Glynnis Horel, P.Eng., in the watershed assessment reports;
  - c. Develop shutdown guidelines for erosion management during yarding and hauling, and communicate those specific guidelines to the City of Port Alberni.

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- d. Shut down yarding and hauling during periods of large or prolonged rainfall, or after periods of rainfall if road conditions are wet and pose a risk to water quality;
  5. To the greatest extent possible, MacMillan Bloedel should conduct road construction during dry spring and summer weather (May - September).
  6. MacMillan Bloedel should conduct a field reconnaissance of the block boundaries for blocks 1722 and 1735, and make adjustments as necessary, to ensure that the risk of direct stream or lakeshore disturbance from harvesting is minimized. If it unnecessary to adjust block boundaries, the harvesting in these two areas will need to be done with care to minimize disturbance of the adjacent water bodies. The riparian concerns are summarized as:
    - McLaughlin Creek adjacent to block 1722 is classified as an S4 channel (<1.5 m in width). The stream will have a 30 m riparian management area (0 m no-log reserve and a 30 m partial log management zone). This is possibly insufficient. The small channel flows into China Creek immediately above the water intake, and if disturbance occurs it would probably be manifested at the intake. It's uncertain looking at FDP map why the block boundary had to cross this small channel.
    - Lizard Lake is classified as an L1 lake, and receives a riparian reserve of 10 m under the Forest Practices Code. With regard to block 1735, this is possibly insufficient to minimize sediment input from falling and yarding. The proposed access road to the block is sited well back from the lake shore and is low risk with regard to sediment.
  7. Five proposed blocks in the China Creek basin and three proposed blocks in the Bainbridge Lake basin are mapped as containing terrain of stability class IV (potentially unstable) and class V (unstable). These blocks will require detailed terrain stability assessments, and adjustments made to the logging plans as necessary to ensure that slope stability is maintained.
  8. The proposed road in block 1737 in the China Creek basin is located on stability class IV terrain. The landslide risk will need to be addressed by MB through detailed terrain stability assessments. However, the stability classification usually indicates steep, wet terrain. The proximity of this block and road to the mainstem of China Creek is noteworthy. There is likely a direct path for road-related sediment to get to the creek. MacMillan Bloedel should ensure before construction that this road does not result in undue risk to water quality, by having an erosion potential reconnaissance completed (concurrent with the stability assessment).
  9. To minimize the potential for contamination of the water supply, it is recommended that MacMillan Bloedel do the following:
    - Fuel machine outside the boundaries of the community watersheds;

- Where onsite fuels and lubricants are required, they should be stored in leak-proof containers;
  - provide portable outhouses be for field crews during operations in the watersheds.
10. MacMillan Bloedel should advise the City of Port Alberni when and where the following activities will be taking place in the China Creek and Bainbridge Lake watersheds:
- Road construction;
  - Active logging;
  - Hauling.

Prepared by:

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Allan Chapman, P.Geol.  
April 1999

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Eric Schroff, FIT

**Appendix 1    Relevant Forest Practices Code Regulations that  
Apply to the China Creek and Bainbridge Lake  
Community Watersheds**

**FILE**

01.08.00

# **Watershed Hydrology and Water Quality In Relation to Forestry Activity**

For

City of Port Alberni  
Water Department

By

Allan Chapman, P.Geo.  
Chapman Geoscience Ltd.

June 21, 1999

## 1. INTRODUCTION

China Creek and Bainbridge Lake are important water supply areas for Port Alberni. Both watersheds also have active logging, by MacMillan Bloedel on TFL 44, and TimberWest on private land. That forestry activity can have negative effects on water quality. For a couple of hours this morning I'm going to:

- provide some background information on hydrological processes in the watersheds;
- describe the major factors that might impact water quality
- propose objectives for on-site monitoring by Port Alberni water department staff.

We'll spend 90 minutes or so in the meeting room, and then will go out to the field for a couple of hours. The goal is to give you information that you can use when you are in the field in the watersheds, to monitor activities and take action if problems are occurring.

## 2. THE HYDROLOGIC CYCLE

The hydrologic cycle is the conceptual framework that describes the continuum of the transfer of water from the ocean to the atmosphere to the earth and back to the ocean.

All the water presently on and in the surface of the earth was brought there by volcanic action eons ago. Since then, there have occurred countless cycles of transfer of water from oceans to the atmosphere to the earth and back to the ocean again.

The force driving this circulation of water is solar energy. Energy derived from the sun evaporates water from the oceans, heats the earth that helps create the winds that move that moisture over land, and is converted into food energy by the photosynthetic process of plants, which transpire water back to the atmosphere.

Along the way, the water is stored temporarily in rivers, lakes, soil and groundwater, and becomes available for use by plants and animals.

The water we see now in lakes, rivers, glaciers, etc., was derived from precipitation as rain or snow, or as occult moisture (fog). When the precipitation falls onto the earth different things can happen:

1. part of it almost immediately evaporates or sublimates (ice to vapour) back to the atmosphere,
2. part of it infiltrates into the ground. And, when in the ground, part of this is used by plants physiologically and is transpired back to the atmosphere, and
3. part of it runs off over the land surface.

This hydrologic cycle is represented schematically in Figure 1.

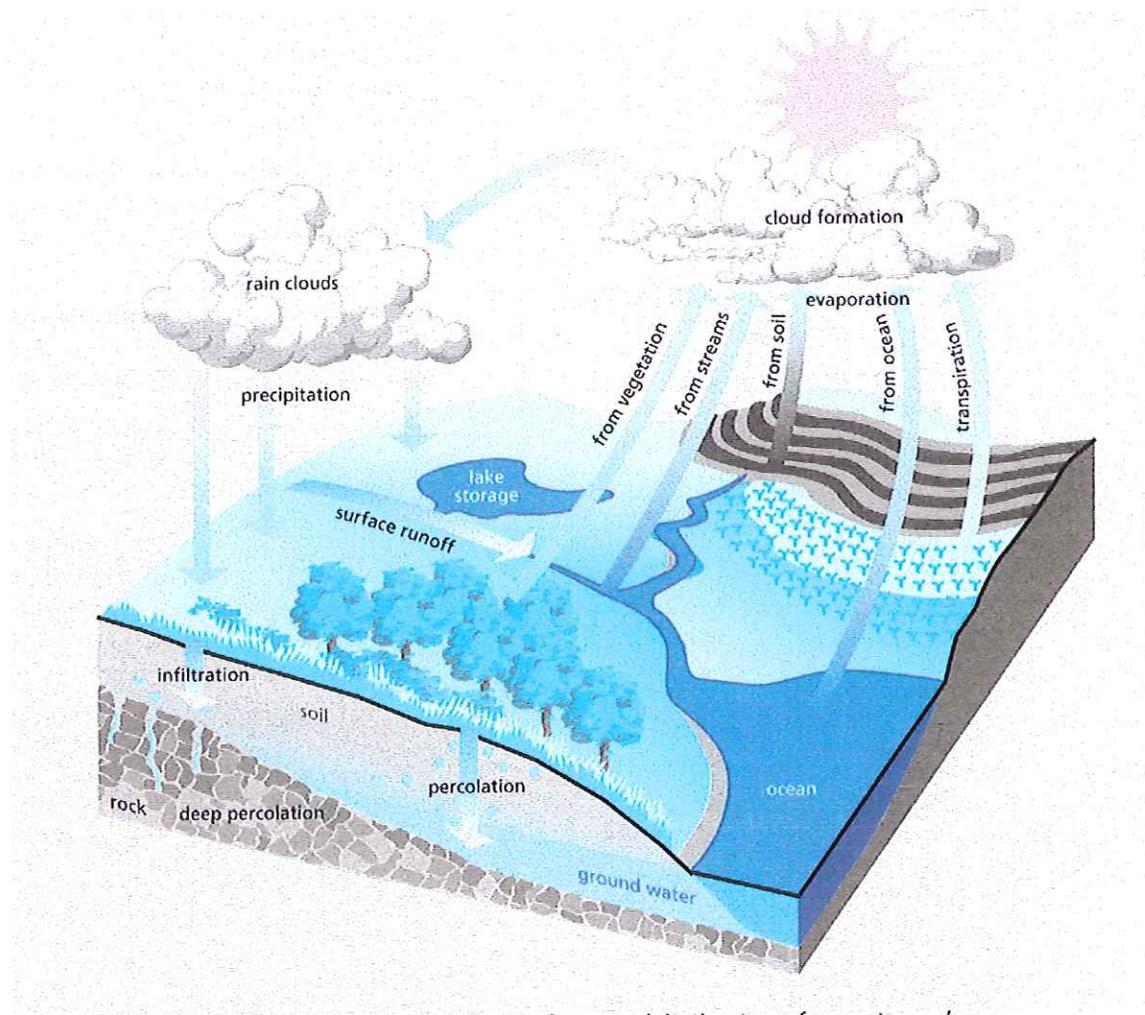


Figure 1. Schematic representation of the hydrologic cycle

### 3. WATERSHED

The watershed is considered the fundamental unit of the landscape. Water, soil, biological processes and land use interact dynamically within the watershed, with the results of those interactions manifested in the quantity and quality of water in the stream that drains the watershed.

The watershed is defined as the area of land which potentially contributes water to a particular point on a stream channel. It is the source area through which that portion of precipitation that leaves the watershed as stream flow travels.

Watersheds can vary in size from very large to very small. As an example, we could define the watershed for the Fraser River where it flows into the Strait of Juan de Fuca as an area of 234,000 km<sup>2</sup>, about one-quarter of BC. We could also define the watershed for the smallest headwater reach of the Fraser River, where the area might be only a few hectares. China Creek has a drainage area of about 5,600 hectares (56 km<sup>2</sup>), while Bainbridge Lake has a drainage area

of about 1,300 hectares (13 km<sup>2</sup>). Both these watersheds are considered small. Water and sediment, and impacts for forestry activity, move through the watersheds rapidly to the water intake, and then into the distribution system. It is therefore important to ensure good land use practices to minimize the risk to water quality.

#### 4. COMPONENTS OF THE HYDROLOGIC CYCLE

##### 4.1 Precipitation

Precipitation is the major factor controlling the hydrology of a region and a watershed, in that it provides the input of water to the watershed.

Precipitation occurs as a result of the lifting and adiabatic cooling of air masses. As warm air rises and cools, at some elevation it will reach its dew point temperature and the water vapour contained within the air mass will condense onto particles of dust. The condensed water droplets coalesce and fall as raindrops. The amount, frequency and distribution of precipitation depends upon two major factors:

1. the availability of water vapour in the atmosphere, and
2. the type of lifting mechanism - frontal, orographic and convectional

##### **Frontal Precipitation**

Almost all the precipitation that occurs here results from frontal storms, largely during the winter months. Air masses are extensive volumes of the atmosphere of fairly uniform temperature. Fronts are the narrow transition zones between air masses of different temperatures. The fronts (as many as 10-20 per winter) move onto Vancouver Island from the south-west, carrying large amounts of water vapour and depositing large amounts of rain and snow.

##### **Orographic Precipitation**

This occurs when an air mass carried by prevailing winds encounter a physical barrier, forcing the air mass to rise. These physical barriers can be large, like the Coast Mountains, or small, such as the lee sides of lake shores.

Prevailing winds bring moist air to the BC west coast. As the air mass rises on the windward side of Vancouver Island it is cooled, water vapour condenses, droplets coalesce and precipitation occurs.

After passing over the spine of the island, the cooled air begins to descend, undergoes compressional warming and, since there is less moisture source, becomes drier. The belt of drier climate on the leeward side of mountains is said to be in a rainshadow. The eastern side of Vancouver Island and the Gulf Islands are in a rainshadow.

As an example, annual precipitation at sea level along the west side of Vancouver Island is about 3,000 mm. By 500 m of elevation, annual precipitation is as much as 5,000 mm.. The highest elevations along the spine of Vancouver Island are estimated to receive as much as 6,000-7,000 mm annually. Port Alberni received about 2,000 mm of precipitation annually, mostly as rain. Nanaimo receives about 1,000 mm annually, and Gabriola Island about 900 mm (both are in a rainshadow). It is interesting to note that Tofino, Port Alberni and Nanaimo all generally have the same number of days per year with rain, and that the rain on the outer coast is just more intense.

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### **Convective Precipitation (Thunderstorms)**

Convection air masses (cells) form as a result of the heating of the earth's surface. The heat is transferred from the earth to the overlying air mass as long-wave radiation. The warm air mass begins to rise. As it rises, it begins to cool. When the dew point temperature is reached, water vapour condenses, forming clouds and liberating latent heat.

The liberated heat acts like a fuel, creating sustained convection cells, ultimately forming tall, dense cumulus clouds called thunderstorm cells.

Thunderstorms do not cover large areas but are responsible for flooding in small watersheds. They can occur in this area, but are not common..

### **4.2 Interception**

Not all of the precipitation that falls will reach the soil to supply plants or generate runoff. A part is caught by the forest canopy and is evaporated or sublimated back to the atmosphere. This is interception.

In a forested area, little rain actually reaches the soil surface directly (that's why we stand under trees during a rainstorm while hiking). Rainwater is initially stored on the leaves, branches and stems of vegetation and trees. After these surfaces have been wetted, additional rain will displace water on the lower edges of leaves, twigs, etc. and fall to the next lower layer of vegetation or to the forest litter floor and eventually to the soil.

The amount of water stored on the wetted surface of trees and plants is called interception storage and the amount depends on the form, density and surface texture of the leaves, twigs and other surfaces.

The interest in interception in this area is mostly for the interception of snow by forests and the alteration of the amount of interception by logging. Research in BC and elsewhere indicate that 20% - 30% of the winter snowfall in forested areas is intercepted by the canopy of closed coniferous forests. Despite the cold temperatures, there is adequate radiation energy available to sublimate the snow back to the atmosphere.

Where closed canopy forests are cut, there can be an increase of 20% - 30% more snow in the opening than there would have been if a forest stood at that site. For example, if 25% of a snow-dominated watershed was logged, and those logged areas experience a 30% increase in snow accumulation as a result of decreased interception, this would result in a total increase in water available for runoff of 7.5% within the watershed.

### **4.3 Evapotranspiration**

The processes of evaporation and transpiration are often the major subtractions of water from a watershed. On the average in Canada, about 2/3's of the annual precipitation input is returned to the atmosphere by evaporation from soil and water bodies and by transpiration from plants.

Evaporation is defined as the change of state of water from liquid to vapour, and the net transfer of this vapour into the atmosphere from lakes, river, soil, etc.

Transpiration is defined as the loss of water vapour from the cuticle or the stomatal openings in the leaves of plants, as part of the photosynthesis process. The transpired water is replaced by water taken into the roots of the plants from the soil.

Annual evapotranspiration in the Port Alberni area is approximately 600 mm. Evapotranspiration accounts for 30% of the annual precipitation of about 2,000 mm. Streamflow is what's left over, the residual. For China Creek, 2000 mm of precipitation minus 600 mm evapotranspiration, leaves about 1,400 mm (1.4 metres) of water to run off. In terms of total water volume leaving the watershed as stream flow per year, that is:

$$\begin{aligned} 5,600 \text{ ha} \times 10,000 \text{ m}^2/\text{ha} &= 56,000,000 \text{ m}^2 \text{ drainage area} \\ 56,000,000 \text{ m}^2 \times 1.4 \text{ m runoff} &= 78,400,000 \text{ m}^3 \text{ of water} \\ &= 63,560 \text{ acre-feet} \\ &= 17,250,000,000 \text{ gallons} \\ &= 1,600 \text{ gallons/person/day} \end{aligned}$$

Removal of vegetation, or changes in the vegetative characteristics of a site (such as a conversion from coniferous to deciduous) can result in changes in stream flow through changes in evapotranspiration rates.

#### 4.4 Snow and Snowmelt

In the Port Alberni area, about two-thirds of annual precipitation occurs during the winter, with rain at low elevations and snow at high elevations. In between there's an intermediate elevation band that's referred to as the rain-on-snow zone, or the transient snow zone, where both rain and snow can occur at different times during the winter, depending on the freezing elevation.

Snowmelt usually occurs between April and June. Snowmelt has caused localized flooding, but stream flow in this area during spring snowmelt is usually much smaller than the stream flow resulting from winter rainfall.

#### 4.5 Soil Water

Once water is available at the ground surface, either through snowmelt or rainfall, it can do either of two things. It can run off over the ground surface and move directly into rivers or lakes, or it can infiltrate the ground surface and become part of the soil water and ground water systems. This distinction of runoff pathway is critically important to watershed management, and is clearly linked to such things as peak flow changes and water quality effects from forestry activity.

Infiltration is the movement of water into the soil. The maximum rate at which soil in a given condition can absorb water is the infiltration capacity.

If rainfall intensity or snowmelt intensity is less than this capacity, the infiltration rate will be equal to the rainfall or snowmelt rate. If rainfall intensity or snowmelt intensity exceeds the infiltration capacity, infiltration occurs at the capacity rate and the excess water runs off over the ground surface.

Thus, the soil is a filter that determines the path by which water reaches a stream channel.

Many factors control the infiltration capacity of soils. The most important factors are:

1. Soil properties, such as grain size and organic content. Coarse-textured soils allow water to drain more readily than fine-textured soils. Clays have especially low rates of infiltration. High organic content results in a friable, loose soil, with high infiltration capacity.

2. Vegetation cover. Vegetation and litter protects soil from packing by raindrops, and provide organic matter for binding soil particles into aggregates. Pipes or macropores, formed by root holes and animal burrows, are very important in providing routes of rapid transmission of water through the soil.

#### 4.6 Groundwater

Water that infiltrates into the soil but is not used by plants and trees for transpiration will continue to infiltrate further until it reaches the zone of saturation (where all the soil pore spaces are filled with water) and becomes groundwater. The saturated subsurface zone contains the largest source of unfrozen fresh water on earth (21% of the world's fresh water, and 97% of the unfrozen fresh water, is groundwater).

If the groundwater provides a good source of water to wells, the soil or rock that contains the water is called an aquifer. Good aquifers generally have:

1. A large volume;
2. A moderate or high porosity;
3. Easy movement of water towards a well.

The opposite of an aquifer is an aquitard or aquiclude. This is a geologic stratum through which water cannot move except at negligible rates.

Aquifers can be unconfined and in direct vertical contact with the atmosphere, in which the top of the groundwater is the water table, or they can be confined by an aquiclude. If the aquifer is confined, the water table may be at some elevation above the aquiclude, and may be a produce a flowing well or artesian well (Figure 7).

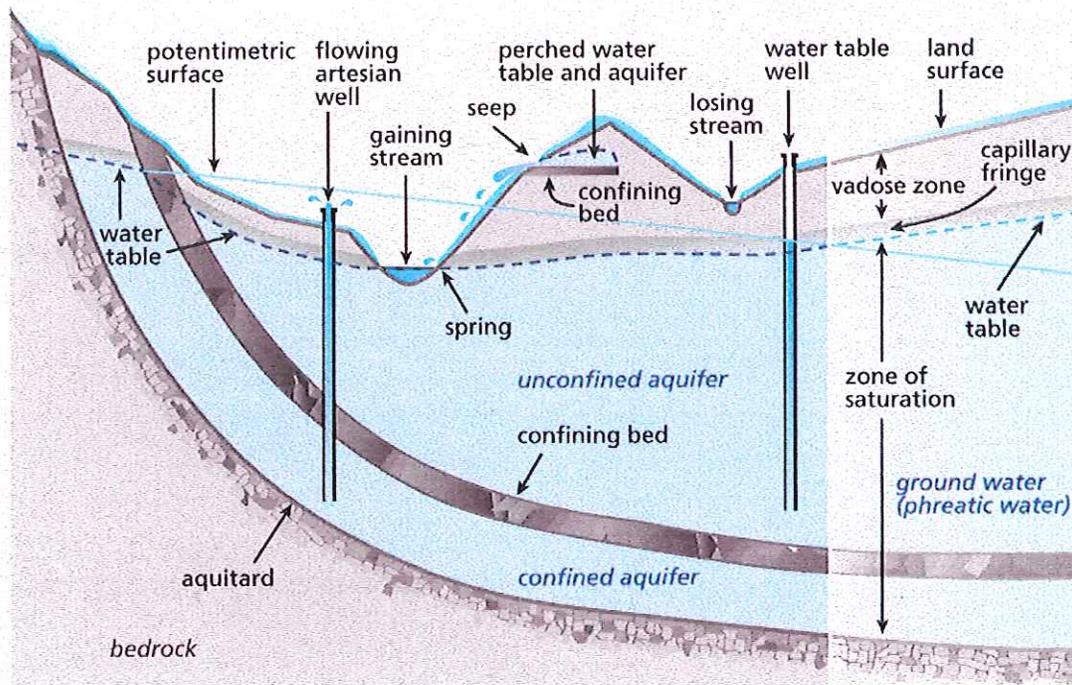


Figure 7. Groundwater

## 5 RUNOFF PROCESSES

When rain or snowmelt reach the surface of the ground, they encounter a filter that determines the path and process by which hillslope runoff will reach a stream channel. The paths taken by water are very important for they determine the generation and timing of storm runoff and the transport of sediment and other material to streams.

The most basic division of streamflow is into stormflow and baseflow.

Stormflow is the water that reaches the stream channel fairly quickly, within a day or so of a rainfall event, thereby causing high rates of discharge.

Water that infiltrates the soil and percolates to the water table, moving at low velocities over longer flow paths, and reaching the stream slowly over long periods of time is called baseflow. Baseflow is also called delayed flow or dry-weather flow. This is the water we see in streams during summer and early fall in BC after a couple of months of no rain.

The division between baseflow and stormflow is fairly arbitrary. The important thing to remember is that there are pathways of water movement that get water to a stream channel quickly, producing stormflow and there is a pathway through groundwater flow, that provides baseflow to streams.

### 5.1 Stormflow Processes

Several processes operate to move water across hillslopes and into streams quickly, producing stormflow. These are:

1. Overland flow, and
2. subsurface stormflow,

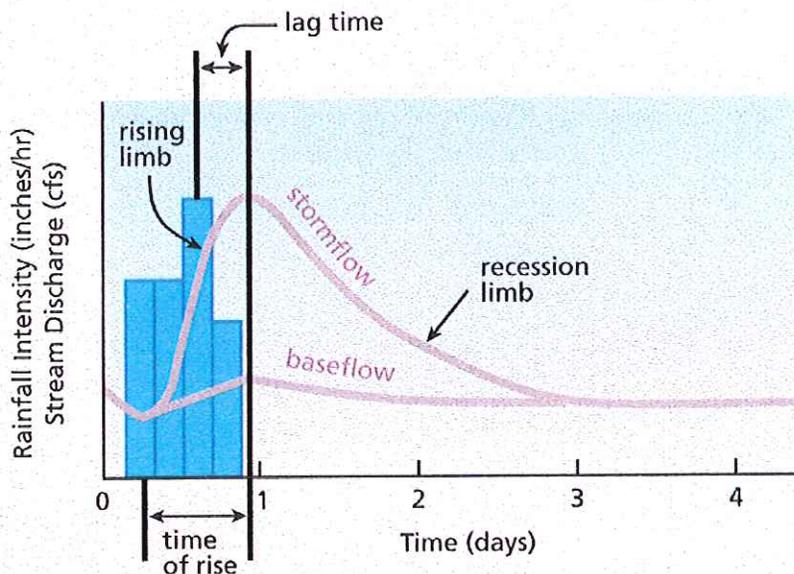


Figure 8. Example hydrograph of an individual storm.

### 5.1.1 Overland Flow

When rainfall or snowmelt at any time exceeds the infiltration rate of the soil, water will accumulate on the ground surface and eventually run-off over the ground surface. First, the water is ponded on the surface in small depressions, called depression storage. When the depression storage is used up, the water runs over the surface of the ground as overland flow. Overland flow increases in depth and velocity as it moves downslope and as additional rainfall is added to it, and is the fastest mechanism by which water can move across hillslopes and into streams (Figure 9).

Overland flow occurs where rain intensity or snowmelt intensity exceeds the infiltration rate of the soil. Overland flow is somewhat uncommon as a natural process in forested watersheds (soil is high in organic content and has an open structure-high porosity and permeability). However, the extent of overland flow is increased through disturbances that reduce the infiltration capacity of soil, such as road development. This is one of the major effects of forestry activity on water quality.

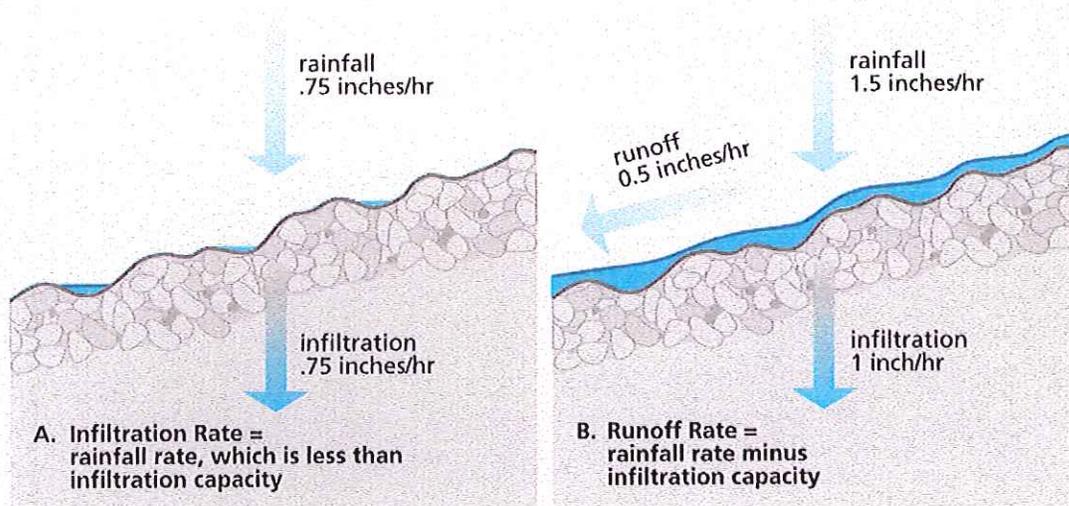


Figure 9. Infiltration and runoff, showing overland flow.

### 5.1.2 Stormflow in Areas of High Infiltration

In most humid regions, infiltration capacity of soils is high. As a result, Horton overland flow is uncommon. However, these watersheds still produce large, rapid increases in peak runoff during storms. This rapid runoff is produced by subsurface mechanisms (Figure 10).

#### Subsurface Stormflow

Subsurface stormflow is slower than Horton overland flow but can still move water quickly from hillslopes to streams. This is the process by which water moves through macropores in the soil (animal burrows, root holes, soil pipes, etc.) to reach streams quickly. Most subsurface stormflow occurs within which is often also the extent of rooting depth of trees.

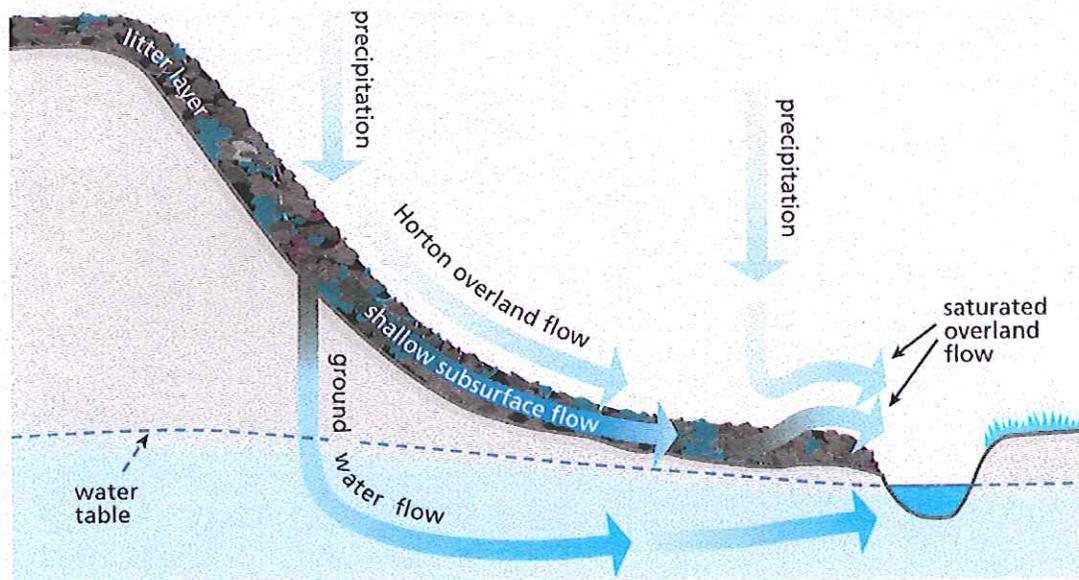


Figure 10. Mechanisms of storm runoff generation.

## 5.2 Baseflow

Baseflow is that portion of the infiltrated water that percolates to the water table, and then moves at low velocities to reach streams over long periods of time. This is the water that produces the low flow of streams during the summer and fall, after a couple of months of no rain.

## 6 RELATIONSHIPS BETWEEN FORESTRY ACTIVITY AND WATER QUANTITY

There are two main groups of relationships between forestry activity and stream flow. These are:

- changes resulting from the removal of vegetation;
- changes resulting altered pathways of storm runoff

### 6.1 Changes Resulting from the Removal of Vegetation

With the removal of vegetation (i.e. forest harvesting), rain and snow interception is decreased. This results in more water reaching the ground surface and being available for runoff. The effects of this are probably most significant with respect to reduced snow interception and increased snow accumulation, in those parts of the province where the annual peak flows are dominated by snow melt. Increased snow accumulation may occur in openings relative to adjacent forested areas.

After harvesting, transpiration is reduced, potentially resulting in wetter soils and a higher water table proximal to logged areas. At the same time, the soil surface may become drier, as a result of increased rates of evaporation at the ground surface, resulting from increased solar energy at the ground (short-wave, and sensible and latent heat).

Where site level stand conversion occurs after harvesting (e.g., from coniferous to extensive deciduous) transpiration rates in the regen may be higher than they would have been in the coniferous, resulting in drier soil.

After harvesting, the rates of energy exchange at the snowpack surface increase. Short-wave energy transfer increases, and sensible and latent heat exchanges increase, as a result of increased wind in openings relative to adjacent forested areas.

These have the potential to affect peak stream flow rates, summer low flow rates, and annual runoff volumes. In general, the research evidence indicates that summer season stream flow increases, and annual runoff increases, in proportion to area harvested. These increases are related to decreases in evapotranspiration losses from the watershed during summer. For peak flows, there is no clear relationship between increases in peak flows and area logged in rain-dominated coastal areas. However, in snow-dominated coastal areas, peak flows appear to increase when at least 10-20% of a watershed is harvested (related to snow interception and increases in snow accumulation on the ground).

## **6.2 Changes Resulting from Altered Runoff Pathways**

One of the most significant effects of forestry activity is the more rapid movement of water across hillslopes to streams. This may affect stream flow rates, particularly peak flows, and it may affect the transport of fine sediment (that is, turbidity-causing sediment) to streams. The soil surface is a filter that determines the pathway by which water travels to streams. In general, surface pathways are faster than subsurface pathways. Roads, landings, ditches, etc., all have low rates of infiltration, and increase the extent of surface runoff during storms. Rain or snowmelt travels over these surface paths quickly (at least 1-2 orders of magnitude more quickly than by the fastest subsurface path). In addition, roads constructed across a slope intersect subsurface flow and return it to the surface and into the road's ditch line.

The road drainage system not only provides conduits for rapid movement of water to streams, but also provides conduits for rapid movement of fine sediment to streams. Clay, silt and fine sand are eroded from the road running surface, ditch line, cut slopes, etc., and easily moved to streams during winter rain storms. Truck traffic on the roads during wet conditions, hugely increases the mobilization and transport of sediment to streams.

Research evidence suggests that road development in a watershed increases the rate of peak stream flow, particularly for the most commonly-occurring peak flows in the winter. The largest peak flows (such as those that occur only once in 10 years or more) are less affected by road development.

## **7 WATER QUALITY**

Water quality can be grouped into the following four main categories:

1. the chemical quality of the water (i.e., the dissolved inorganic minerals and organic molecules in the water),
2. the biological quality of the water,
3. the temperature of the water (particularly for surface water), and
4. the sediment load in the water.

All of these water quality components affect water use and aquatic habitat. As environmental scientists, we usually deal with water quality issues from any one of the above perspectives.

### 7.1 Water Chemistry

All water contains dissolved and suspended matter, even rain water. Substances are considered dissolved if it passes through a 45 µm filter. Suspended or particulate matter does not pass through the 45µm filter. There are inorganic and organic compounds dissolved in ionic species. For example, our rainwater typically contains a few milligrams per litre (mg/L) of sodium (Na<sup>+</sup>) and chloride (Cl<sup>-</sup>) dissolved in the rainwater. The source of the sodium-chloride (NaCl) is tiny salt particles from evaporation of ocean water.

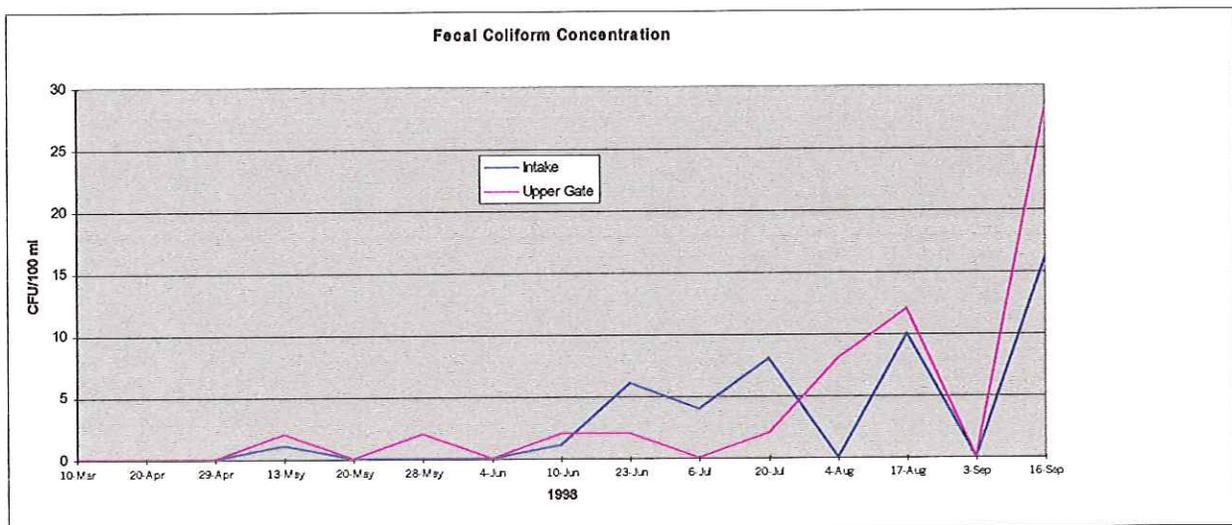
As rain falls on the forest canopy, it will begin to dissolve more inorganic compounds from the leaves and stems of trees, particularly sulfate (SO<sub>4</sub><sup>-2</sup>), hydrogen ion (H<sup>+</sup>), ammonia (NH<sub>4</sub><sup>+</sup>) and nitrate (NO<sub>3</sub><sup>-</sup>). The source of inorganic compounds may be from dust and inorganic residues and gases from biological processes. As water infiltrates into the ground or runs off, additional chemical compounds will dissolve in the water from plant matter, soils and the underlying sediments.

Water chemistry (for dissolved constituents) is usually not altered by forestry activity.

### 7.2 Biological Quality of Water

Not only does water dissolve minerals from plants, soil and rocks, it can also pick up bacteria and viruses and transport them in surface water and through groundwater. Some bacteria and viruses are naturally occurring (e.g., from the soil) but others, such as fecal bacteria, can indicate that the water has been impacted by human activities (e.g., septic wastes, cattle grazing). Most forestry activity has a minor role in affecting biological water quality. The greatest risk occurs if human fecal material is left near streams.

Figure 12. Fecal coliform concentrations in Coldstream Creek (near Vernon), related to cattle ranging. Coldstream Creek is part of the water supply for Vernon.



Bacteria and viruses can travel far (tens of kilometres) in surface water and the contaminant source can impact water quality far downstream. Bacteria and viruses do not travel very far in groundwater (up to a few tens of metres). The larger organisms get filtered out while the smaller organisms die-off before they are transported very far from the source.

A standard measurement of biological water quality is fecal coliform bacteria. Fecal bacteria are from the intestines of warm-blooded animals like humans and cattle. By themselves, fecal coliform bacteria is not toxic but is used as an indicator of other pathogens in human and animal wastes, such as Giardia and Cryptosporidia.

### 7.3 Water Temperature

The removal of the riparian forest canopy can result in increased stream water temperature, particularly in low flow conditions during summer. This is unlikely to be a concern with the Forest Practices Code riparian management regulations, that require streamside trees on all but the smallest streams. Removal of the riparian canopy allows more short-wave radiation to reach the stream and heat the water.

Increases in water temperature may have negative effects, including:

1. decreases the amount of oxygen in the water by decreasing the solubility of oxygen and increasing the rate of decomposition (which requires oxygen). This depletes the oxygen in the water, which can cause reduce fish survival,
2. undesirable algae blooms in the water, which increases the demand on oxygen in the water and decreases the clarity of the water.

### 7.4 Sediment Load of the Water

The debris load carried by rivers is a natural attribute of the river system, necessary for the maintenance of relative stability among bed and banks, erosion and deposition. The sediment load of a river will fluctuate seasonally with the flow. For example, larger flows during snowmelt may cause greater erosion of the riverbed and cut banks and increase the sediment load of the river during that flow period. Streams can become naturally turbid during times of high flow. However, forestry activities can also alter the natural sediment load of a river.

#### A. Landsliding

- Alterations of slope hydrology can contribute to increased slope instability, and landsliding.
- Can result in large changes in stream morphology.
- Major hydrologic factors include:
  - Alteration of natural drainage by roads;
  - Insufficient or under-sized culverts and cross-drains;
  - Increased soil moisture content on steep slopes after logging

#### B. Surface Erosion

- Fine sediment (i.e., sand-sized and smaller) is easily transported;
- Increases in fine sediment load in streams (and increased turbidity) are attributable mostly to forest roads, ditches, cut slopes. The major factors are:
  - Proximity of road to streams;
  - Type of surficial material the road is constructed on (glaciolacustrine and glaciofluvial deposits are highly erodible);
  - The amount of truck traffic on the road;
  - Use of roads during wet conditions or wet seasons.

## **8. Field Monitoring of China Creek and Bainbridge Lake**

The greatest risk to water quality comes from forestry roads, in particular road construction, maintenance and use during wet weather. The main objective is to monitor roads periodically and get information back to MacMillan Bloedel if you see problems. Because of our long, wet winters, it will be necessary for MacMillan Bloedel to work in the watersheds during wet conditions. Two items to keep in mind and monitor are:

1. During the very wettest weather (during periods of prolonged, intense rainfall, which might occur 5-10 days during the winter), all road construction, maintenance or use by hauling trucks should cease.
2. During our more typical winter weather, some activities are higher risk in terms of sediment production and should be conducted during dry periods and should cease during wet periods.

Keep in mind that logging is not a neat business. Knowing of your periodic presence in the watershed as monitors will help MacMillan Bloedel keep water quality objectives in the forefront. Specific items to monitor are:

### **A. Use of mainline and branch roads for hauling:**

Most erosion on existing roads occurs during wet weather and during active hauling. Periodically drive and examine mainline roads and branch roads during wet conditions when those roads are being used for hauling. The following items provide evidence that road conditions are very wet, and probably unsuited for hauling:

- Significant amounts of muddy water pooling on the road surface;
- Significant amounts of muddy water flowing through ditches and into creeks;
- Rutting of the wet road surface from truck wheels;
- Slumping of wet road fill material into ditches;
- Blocked culverts and significant amounts of water ponding in ditches.

### **B. New road construction**

Road construction is best done during dry weather, but that is not always possible. However, some activities have higher risk in terms of sediment production than others. These include:

- Stripping of organic overburden for new roads;

- Loading, dumping or spreading organic materials or silty road fill material;
- Hauling or equipment traffic over unballasted or silty new road fill.

### **C. Road maintenance**

Road maintenance is best done during dry weather, but that is not always possible. However, some activities have higher risk in terms of sediment production than others. These include:

- Road grading;
- Installation of culverts

### **8.1 Safety and Protocol**

- Confirm through Ken Watson or your supervisor if active hauling or logging is being done.
- If you are in the watershed, use radios to always communicate your presence and location to MB vehicles. Get confirmation via the radio whether trucks are hauling. Getting hit by a loaded haul truck would be quite unpleasant.
- Always make sure that the personal safety of yourself or MB workers is not compromised by your presence in the watershed during active forestry operations.
- If you observe any of the following conditions noted above, or other conditions that you believe may have high risk to water quality, note the following in a notebook:
  - Date and time;
  - Weather conditions;
  - Description of item(s) of concern. Be as detailed as necessary, and state why you believe it is a problem;
  - Location of item(s) of concern (e.g., China Creek mainline, 900 m beyond Branch 100);
- Generally don't approach MB staff yourself. Use your radio or phone to inform Ken Watson or your supervisor of the concern and let them contact the MB engineer in charge of the operation.

**Instructor**

Allan Chapman, M.Sc., P.Ge., is the principal of Chapman Geoscience Ltd., a forest hydrology and geomorphology consulting company based in Nanaimo, British Columbia. Allan has extensive experience with hydrology and geomorphology projects in the coastal and interior regions of British Columbia. Areas of professional and technical expertise include:

- watershed assessment and forest development planning;
- sediment source mapping and analysis;
- stream channel stability and disturbance assessment;
- stream channel rehabilitation;
- evaluation of forest harvesting effects on watersheds;
- watershed hydrology;
- slope and channel geomorphology;

Chapman Geoscience Ltd.  
2723 Neyland Road  
Nanaimo, BC V9T 4E1

Phone: 250-758-0090  
Fax: 250-758-0042  
Email: a\_chapman@bc.sympatico.ca

**From:** Goodwin, Lois-Leah CSCD:EX [<mailto:LoisLeah.Goodwin@gov.bc.ca>]  
**Sent:** Tuesday, August 12, 2014 12:12 PM  
**To:** Wendy Thomson  
**Subject:** RD Bylaw Referral Best Praactices

Cindy Solda  
Chair - Municipal  
Alberni-Clayoquot Regional District

Email: [chairperson@acrd.bc.ca](mailto:chairperson@acrd.bc.ca)

Dear Cindy Solda:

On May 29, 2014, the Legislature gave Royal Assent to Bill 17, the *Miscellaneous Statutes Amendment Act, 2014* which includes amendments to the *Local Government Act* (LGA) that streamline the regional district land use planning and development bylaw approval process.

Bill 17 removes the requirement for ministerial approval of regional district OCP, zoning, subdivision servicing, land use contract, and temporary use bylaws (LGA s. 882, 913, 921, 930, 938). It also broadens the authority for the Minister to develop provincial policy guidelines and provides discretionary authority for the Minister to require approval of these types of regional district bylaws (LGA s. 874.1). These amendments clarify the authority for regional districts to make local decisions while at the same time ensuring the protection of provincial interests.

The removal of ministerial approval contributes to the modernization of the local government planning system and reduces provincial oversight of local decision making. Although ministerial approval has been repealed, there is an expectation that regional districts will continue appropriate bylaw referral practices, maintaining and further developing positive working relationships with provincial agencies and First Nations.

The authority to develop policy guidelines for the identified types of RD bylaws creates an opportunity to clarify provincial interests and to articulate more clearly the appropriate notification and referral of proposed regional district bylaws to provincial agencies and First Nations. As the Ministry considers the need to establish guidelines, it is expected that regional districts will continue to follow bylaw referral best practices which include:

- if appropriate, prior communication with the Ministry on proposed planning and land use bylaws so that Ministry staff can provide advice on referral to provincial agencies and First Nations;
- formal Board consideration under section 879 of the LGA regarding which provincial agencies and First Nations need to be contacted;
- early notification and ongoing communication with provincial agencies during the bylaw development process;
- early communication and engagement with First Nations;
- consideration of provincial and First Nations' interests; and
- early notification to the Ministry when significant issues and conflicts arise.

With the removal of ministerial approval requirements, provincial interests will be advanced by maintaining contact between regional districts and Ministry staff to support referral best practices, providing general guidance, and helping to facilitate the resolution of problems that may arise with respect to areas where there is a significant provincial interest or First Nations concern.

In the coming weeks, Ministry staff will be in touch with your planning departments to discuss our role and expectations for regional districts moving forward. For reference, please see the attached contact list for Ministry staff with regional responsibilities.

How communities and regions grow and develop is critical to BC's economic competitiveness, environmental health, and livability for residents. The removal of bylaw approvals is intended to streamline the local government development approval process, eliminate provincial oversight of local decision making where appropriate, and create efficiencies for the Province and local governments. We are looking forward to working with you to maintain the right balance between maintaining respect for local decision-making and advancing significant provincial interests.

Yours truly,

Lois-Leah Goodwin  
Executive Director  
Intergovernmental Relations and Planning Branch  
Ministry of Community, Sport and Cultural Development

Attachment

Ministry of Community, Sport and Cultural Development  
**Intergovernmental Relations and Planning Branch**  
*Regional Responsibilities*

<b>RD/Municipality</b>	<b>Branch Contact</b>	<b>Phone No.</b>	<b>Email Address</b>
Alberni-Clayoquot	Urszula Mezynska	250 952-6582	<a href="mailto:Urszula.Mezynska@gov.bc.ca">Urszula.Mezynska@gov.bc.ca</a>
Bulkley-Nechako	Heike Schmidt	250 356-0283	<a href="mailto:Heike.Schmidt@gov.bc.ca">Heike.Schmidt@gov.bc.ca</a>
Capital	Heike Schmidt	250 356-0283	<a href="mailto:Heike.Schmidt@gov.bc.ca">Heike.Schmidt@gov.bc.ca</a>
Cariboo	Heike Schmidt	250 356-0283	<a href="mailto:Heike.Schmidt@gov.bc.ca">Heike.Schmidt@gov.bc.ca</a>
Central Coast	Cathy LeBlanc	250 387-4049	<a href="mailto:Cathy.LeBlanc@gov.bc.ca">Cathy.LeBlanc@gov.bc.ca</a>
Central Kootenay	Cathy LeBlanc	250 387-4049	<a href="mailto:Cathy.LeBlanc@gov.bc.ca">Cathy.LeBlanc@gov.bc.ca</a>
Central Okanagan	Cathy LeBlanc	250 387-4049	<a href="mailto:Cathy.LeBlanc@gov.bc.ca">Cathy.LeBlanc@gov.bc.ca</a>
Columbia-Shuswap	Cathy LeBlanc	250 387-4049	<a href="mailto:Cathy.LeBlanc@gov.bc.ca">Cathy.LeBlanc@gov.bc.ca</a>
Comox Valley	Mary Storz	250-356-5515	<a href="mailto:Mary.Storz@gov.bc.ca">Mary.Storz@gov.bc.ca</a>
Cowichan Valley	Heike Schmidt	250 356-0283	<a href="mailto:Heike.Schmidt@gov.bc.ca">Heike.Schmidt@gov.bc.ca</a>
East Kootenay	Cathy LeBlanc	250 387-4049	<a href="mailto:Cathy.LeBlanc@gov.bc.ca">Cathy.LeBlanc@gov.bc.ca</a>
Fraser-Fort George	Heike Schmidt	250 356-0283	<a href="mailto:Heike.Schmidt@gov.bc.ca">Heike.Schmidt@gov.bc.ca</a>
Fraser Valley	Cathy LeBlanc	250 387-4049	<a href="mailto:Cathy.LeBlanc@gov.bc.ca">Cathy.LeBlanc@gov.bc.ca</a>
Greater Vancouver	Cathy LeBlanc	250 387-4049	<a href="mailto:Cathy.LeBlanc@gov.bc.ca">Cathy.LeBlanc@gov.bc.ca</a>
Island's Trust	Brent Mueller	250 387-2540	<a href="mailto:Brent.Mueller@gov.bc.ca">Brent.Mueller@gov.bc.ca</a>
	Narissa Chadwick	250 387-8781	<a href="mailto:Narissa.Chadwick@gov.bc.ca">Narissa.Chadwick@gov.bc.ca</a>
Kitimat-Stikine	Dannie Carsen	250 387-2188	<a href="mailto:Dannie.Carsen@gov.bc.ca">Dannie.Carsen@gov.bc.ca</a>
	Heike Schmidt	250 356-0283	<a href="mailto:Heike.Schmidt@gov.bc.ca">Heike.Schmidt@gov.bc.ca</a>
Kootenay Boundary	Cathy LeBlanc	250 387-4049	<a href="mailto:Cathy.LeBlanc@gov.bc.ca">Cathy.LeBlanc@gov.bc.ca</a>
Mount Waddington	Urszula Mezynska	250 952-6582	<a href="mailto:Urszula.Mezynska@gov.bc.ca">Urszula.Mezynska@gov.bc.ca</a>
Nanaimo	Heike Schmidt	250 356-0283	<a href="mailto:Heike.Schmidt@gov.bc.ca">Heike.Schmidt@gov.bc.ca</a>
Northern Rockies	Heike Schmidt	250 356-0283	<a href="mailto:Heike.Schmidt@gov.bc.ca">Heike.Schmidt@gov.bc.ca</a>
North Okanagan	Cathy LeBlanc	250 387-4049	<a href="mailto:Cathy.LeBlanc@gov.bc.ca">Cathy.LeBlanc@gov.bc.ca</a>
Okanagan-Similkameen	Cathy LeBlanc	250 387-4049	<a href="mailto:Cathy.LeBlanc@gov.bc.ca">Cathy.LeBlanc@gov.bc.ca</a>
Peace River	Heike Schmidt	250 356-0283	<a href="mailto:Heike.Schmidt@gov.bc.ca">Heike.Schmidt@gov.bc.ca</a>
Powell River	Cathy LeBlanc	250 387-4049	<a href="mailto:Cathy.LeBlanc@gov.bc.ca">Cathy.LeBlanc@gov.bc.ca</a>
Skeena-Queen Charlotte	Heike Schmidt	250 356-0283	<a href="mailto:Heike.Schmidt@gov.bc.ca">Heike.Schmidt@gov.bc.ca</a>
Squamish-Lillooet	Brent Mueller	250 387-2540	<a href="mailto:Brent.Mueller@gov.bc.ca">Brent.Mueller@gov.bc.ca</a>
Stikine region (including Atlin)	Dannie Carsen	250 387-2188	<a href="mailto:Dannie.Carsen@gov.bc.ca">Dannie.Carsen@gov.bc.ca</a>
	Heike Schmidt	250 356-0283	<a href="mailto:Heike.Schmidt@gov.bc.ca">Heike.Schmidt@gov.bc.ca</a>
Strathcona	Mary Storz	250-356-5515	<a href="mailto:Mary.Storz@gov.bc.ca">Mary.Storz@gov.bc.ca</a>
Sunpeaks Mtn. Resort Municipality	Brent Mueller	250 387-2540	<a href="mailto:Brent.Mueller@gov.bc.ca">Brent.Mueller@gov.bc.ca</a>
Sunshine Coast	Cathy LeBlanc	250 387-4049	<a href="mailto:Cathy.LeBlanc@gov.bc.ca">Cathy.LeBlanc@gov.bc.ca</a>
Thompson-Nicola	Cathy LeBlanc	250 387-4049	<a href="mailto:Cathy.LeBlanc@gov.bc.ca">Cathy.LeBlanc@gov.bc.ca</a>
Whistler Resort Municipality	Brent Mueller	250 387-2540	<a href="mailto:Brent.Mueller@gov.bc.ca">Brent.Mueller@gov.bc.ca</a>

**RGS Managers**

Interior, Kootenays	Brent Mueller	250 387-2540	<a href="mailto:Brent.Mueller@gov.bc.ca">Brent.Mueller@gov.bc.ca</a>
Lower Mainland	Karen Rothe	250 356-7064	<a href="mailto:Karen.Rothe@gov.bc.ca">Karen.Rothe@gov.bc.ca</a>
Vancouver Island SLRD	Brent Mueller	250 387-2540	<a href="mailto:Brent.Mueller@gov.bc.ca">Brent.Mueller@gov.bc.ca</a>

pc: Regional District Planning Directors  
Regional District Chief Administrative Officers  
Regional District Chairs



## Information Release

**FROM: AVICC Executive**

**DATE: August 12, 2014**

**RE: Private Managed Forest Lands**

The Association of Vancouver Island and Coastal Communities (AVICC) is currently working with key stakeholders including the Ministry of Forest, Lands and Natural Resource Operations (FLNRO), the Ministry of Environment (MOE) and Private Managed Forest Lands Council (PMFLC) to address a number of challenges and concerns regarding watershed protection on privately managed forest lands.

A meeting was held on July 3, 2014 with senior staff from FLNRO, MOE, PMFLC, Timberwest, Island Timberlands, and AVICC executive to discuss watershed protection issues. The meeting provided the opportunity for all stakeholders to openly identify concerns and provide input. The discussion was productive, and there was agreement to continue, with a follow-up meeting to be scheduled in early September 2014.

AVICC's focus moving forward includes exploring opportunities to educate and build awareness regarding; private managed forest land impacts on watersheds, the *Private Managed Forest Land Act*, and how it is implemented/enforced in British Columbia. There is interest and value in looking at the differences and similarities of how forests are managed on crown versus private land.

Another focus for AVICC is to improve communication and collaboration between stakeholders. An opportunity exists to re-establish a 'stakeholder group' that has met regularly to discuss regional and local issues focused on watershed health and protection. Under the Action Plan for Safe Drinking Water in BC, regional drinking water teams were established to address regional and local drinking water issues. While these groups have been less active in recent years, there is the opportunity to re-establish and re-focus these groups to address current regional drinking water and watershed issues.

The desired outcome is to have effective collaboration and communication that includes decision making involving input from key stakeholders, including local governments.

**President Larry Cross**  
**Association of Vancouver Island & Coastal Communities**

525 Government St, Victoria, BC V8V 0A8

Email: [avicc@ubcm.ca](mailto:avicc@ubcm.ca) • Tel: 250-356-5122 • Fax: 250-356-5119 • [www.avicc.ca](http://www.avicc.ca)

Representing Local Government on Vancouver Island, Sunshine Coast, Powell River and Central Coast

Alberni District 4-H Senior Council  
c/o Jean Stevens  
6340 Service Road  
Port Alberni, B.C. V9Y 9E8  
(250) 723-5563



2014-07-31

Corporate Secretary  
Alberni-Clayoquot Regional District  
3008 Fifth Avenue  
Port Alberni, B.C. V9Y 2E3

Dear Sir/Madam:

RE: Grant-in-Aid 2014

The Alberni District 4-H Senior Council would like to thank you for your support of our Grant-in-Aid application. With five new leaders on board this year we are grateful for the opportunity to provide formal training in leadership courses. They, along with our existing leaders, will also have the opportunity to supply input for changes and everyone will help develop BC 4-H programs for our members.

We are very excited to be expanding and adding more project choices for our members this year. This backing is very timely and it will help us grow and strengthen the 4-H program both for members here in the valley through strengthening our leadership and project knowledge, and for members in B.C. in general through policy and procedure input.

Your funding will benefit the 4-H program for years to come. We thank you very much for your support.

Sincerely,

A handwritten signature in blue ink that reads "Jean Stevens".

Jean Stevens





For Immediate Release  
August 14, 2014

## DRAMA/SCI-FI "INTO THE FOREST" WILL FILM IN CAMPBELL RIVER, BC

The film production company Into the Forest Productions BC Inc. has recently applied to Elk Falls Provincial park and, on behalf of the crew and company, we would like to relay some details of their work.

"Into the Forest" is a Canadian feature film produced by Bron Studios of Vancouver and Rhombus Media of Toronto and directed by Patricia Rozeman; it stars Ellen Page and Evan Rachel Wood. Scenes are filming all over British Columbia and the Lower Mainland, though location work at Elk Falls is significant for the large old growth trees that are accessible, picturesque and serve production well for the film's scenes.

BC Parks has permitted the production to film in the Day Use Area in the upper parking lot and related public trails around the old growth trees.

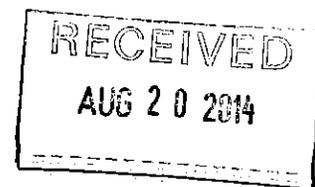
Set up take place during the daylight hours on August 20th, 21st & 22nd. Filming dates will be on August 24th & 25th and cleanup will take place on August 2th. During setup and cleaning times, the general public will be welcomed throughout the area and accommodated as safely as possible. During filming, the support vehicles and services have been given the option of locating along the upper parking lot access road and parking area and will also be using a portion of the new parking area near the BC Hydro Interpretive Centre.

The public will have vehicle access to the park via the new BC Hydro / BC Parks parking area and the lower parking lot will remain open.

Use of all walking trails will be allowed with occasional requests for control for short periods during actual filming.

For information about the production and about filming in British Columbia, please contact Vancouver Island North Film Commissioner, Joan Miller at Infilm, the Community Affairs Liason, Gordon Harwick at Creative BC at 604-730-7232 or Into the Forest Location Manager, Hans Dayal at 604-628-3150.

Thank you very much for your time and for supporting the BC Film Industry.



AUG 14 2014

Ms. Cindy Solda  
Chair  
Alberni-Clayoquot Regional District  
3008 Fifth Avenue  
Port Alberni BC V9Y 2E3

Dear Ms. Solda:

Thank you for your correspondence of July 7 and 8, 2014, regarding the Mitigation Program under Chapter 3 (Chinook) of the *Pacific Salmon Treaty*.

Good progress has been made on the Mitigation Program since implementation began in 2010. To date, nine rounds of licence retirement have been completed under the Mitigation Program, over 100 troll licences have been retired from the commercial troll fleet (including Areas F, G, and H), and a review of the licence retirement process has been planned.

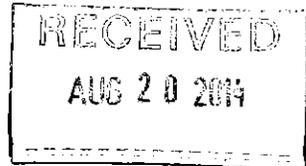
Significant work has also been undertaken to update the Commercial Salmon Allocation Framework. Over the last year, substantive discussions between Fisheries and Oceans Canada, the Commercial Salmon Advisory Board and First Nations have taken place. The aim is to begin implementation of a revised framework for the 2015 fishing season.

The Economic Capacity Building component of the Mitigation Program is also well underway. A process for communities to avail themselves of the economic development services has been established, and the economic development assessments for almost all communities have been concluded. The West Coast Aquatic Management Association is now working together with each community to implement specific projects.

I appreciate hearing your suggestion that the Economic Capacity Building element is underfunded, and that additional program elements should be considered. Your feedback is valued, and it will be considered. At this time, the implementation of the Mitigation Program elements is expected to continue, consistent with the original program announcement.

Finally, with regard to your request that consultations concerning the Commercial Salmon Allocation Framework include an automatic mechanism to give the Area G troll fleet access to Fraser River Sockeye on the west coast of Vancouver Island, this issue was discussed by the Commercial Salmon Advisory Board, including Area G representatives, for the 2014 fishery. As you may be aware, the current allocation arrangements attempt to balance relative shares of the overall salmon harvests, including all five salmon species and eight commercial fleets. Area G is provided access to lucrative Chinook harvests, and the overall harvest levels increased nearly twofold over last year.

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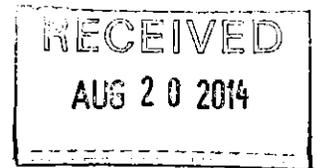
In addition, Area G advisors negotiated a small share of the Fraser River Sockeye harvest. As part of the work to update the Commercial Salmon Allocation Framework, commercial advisors have supported the concept of negotiating longer-term shares of all salmon species (by fleet and fishing area) to provide greater certainty for future planning.

Thank you for writing.

Yours sincerely,

A handwritten signature in cursive script that reads "Gail Shea".

Gail Shea, P.C., M.P.



AUG 14 2014

Ms. Cindy Solda  
Chair  
Alberni-Clayoquot Regional District  
3008 Fifth Avenue  
Port Alberni BC V9Y 2E3

Dear Ms. Solda:

Thank you for your correspondence of July 7, 2014, regarding Bill C-38 and amendments to the *Fisheries Act*.

Bill C-38 made a number of changes to the *Fisheries Act*, including the addition of both subsection 4.1, which speaks directly to Fisheries and Oceans Canada's (DFO's) capacity for entering into agreements with Provinces, and subsection 4.2, which provides for the declaration of equivalent provisions.

Together, these changes provide increased opportunities for working cooperatively with Provinces in order to ensure the sustainability and ongoing productivity of Canada's commercial, recreational and Aboriginal fisheries.

DFO is committed to the conservation and protection of Canada's commercial, recreational and Aboriginal fisheries, and will take all steps necessary to mitigate any impacts to these fisheries. This will be reflected in any agreement reached with the Provinces or Territories.

Thank you for taking the time to write.

Yours sincerely,

Gail Shea, P.C., M.P.

c.c.: The Honourable Mary Polak, M.L.A.  
British Columbia Minister of Environment  
The Honourable Bill Letnick, M.L.A.  
British Columbia Minister of Agriculture



## REQUEST FOR DECISION

**To:** Board of Directors  
**From:** Wendy Thomson, Manager of Administrative Services  
**Meeting Date:** August 27, 2014  
**Subject:** Approval of Bylaw E1057 Synopsis & Referendum Question

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### Recommendation:

That the Alberni-Clayoquot Regional District Board of Directors approve the following as presented:

- a. Synopsis of Bylaw E1057, Sproat Lake Marine Patrol Service Area Establishment, 2014
- b. Sproat Lake Marine Patrol Service Area Establishment referendum question

### Desired Outcome:

To approve the synopsis of Bylaw E1057, Sproat Lake Marine Patrol Service Area Establishment for advertising purposes and the question to be used in the November 2014 referendum.

### Background:

The ACRD Board of Directors proposes to establish a service for the purpose of operating the Sproat Lake Marine Patrol Program. As per the *Local Government Act* an establishing bylaw is required in order to operate the service.

Bylaw E1057, Sproat Lake Marine Patrol Service Area Establishment, 2014 received three readings by the Alberni-Clayoquot Regional District Board of Directors at their regular meeting held on August 13, 2014. The bylaw has now been sent for approval by the Inspector of Municipalities.

Consent from the electors of the service area is required prior to the Board adopting the bylaw to create the service. The participants of the service area are: City of Port Alberni, Uchucklesaht Tribe Government, Electoral Areas "B" (Beaufort), "D" (Sproat Lake), "E" (Beaver Creek) and "F" (Cherry Creek). The ACRD Board passed a resolution to take Bylaw E1057 to referendum in conjunction with the November 2014 general local election to gain consent of the electors of the service area.

Staff recommends the ACRD Board of Directors approve the attached Bylaw Synopsis to be used for advertising purposes and the proposed referendum question to appear on the ballot.

**Time Requirements – Staff & Elected Officials:**

Substantial staff time is required to prepare and conduct a referendum.

**Financial:**

The participants of the proposed service area pay for referendum costs. Where possible, staff will combine advertisements etc. in order to save costs.

**Policy or Legislation:**

*Local Government Act and Community Charter* apply to conducting referendums.

Submitted by:   
\_\_\_\_\_  
Wendy Thomson, Manager of Administrative Services

Approved by:   
\_\_\_\_\_  
Russell Dyson, Chief Administrative Officer

## **Sproat Lake Marine Patrol Service Area Establishment Referendum Question**

“Are you in favour of the Alberni-Clayoquot Regional District enacting Bylaw E1057 to provide the following:

- Establish the Sproat Lake Marine Patrol Service for the purpose of providing a seasonal marine patrol program at Sproat Lake with the following areas participating in the service: City of Port Alberni, Uchucklesaht Tribe Government, Electoral Areas “B” (Beaufort), “D” (Sproat Lake), “E” (Beaver Creek) and “F” (Cherry Creek); and
- Annually requisition the service area up to a maximum of \$30,000 or \$0.008 per \$1,000 of taxable value of land and improvements, whichever is greater?”

## **Alberni-Clayoquot Regional District**

### **Synopsis of Bylaw E1057 Sproat Lake Marine Patrol Service Area Establishment, 2014**

The intent of Bylaw E1057 is to establish a service for the purpose of operating a seasonal marine patrol program at Sproat Lake.

The maximum amount that may be requisitioned annually for the cost of the service is \$30,000 or \$0.008 per \$1,000 of taxable value of land and improvements, whichever is greater.

The areas subject to this Bylaw are the City of Port Alberni, Uchucklesaht Tribe Government and Electoral Areas “B” (Beaufort), “D” (Sproat Lake), “E” (Beaver Creek) and “F” (Cherry Creek).

Bylaw E1057 is available for inspection on the Regional District website [www.acrd.bc.ca](http://www.acrd.bc.ca) or at the following locations during regular office hours:

Regional District Office  
3008 Fifth Avenue,  
Port Alberni, BC

City of Port Alberni  
4850 Argyle Street  
Port Alberni, BC



## **REQUEST FOR DECISION**

**To:** Russell Dyson, Chief Administrative Officer; and  
Regional Board of Directors

**From:** Alex Dyer, Planner

**Meeting Date:** August 27, 2014

**Subject:** Alberni Valley Back Country Horsemen of BC Event – Log Train Trail

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### **Recommendation:**

**THAT the Board of Directors direct staff to provide a letter of support to the Alberni Valley Back Country Horsemen of BC to allow access to the Log Train Trail for the event to be held on September 20<sup>th</sup> and 21<sup>st</sup>, 2014.**

### **Desired Outcome:**

To allow access to the Log Train Trail for a horse trail ride competition on September 20-21, 2014 hosted by the Alberni Valley Back Country Horsemen of BC (AV BCHBC).

### **Summary:**

The AV BCHBC will be hosting a BC Competitive Trail Riders Association event on September 20<sup>th</sup> and 21<sup>st</sup>, 2014. The two day event will include an Association sanctioned ride that will cover about 55 km of trails in the Alberni Valley. The group is requesting the Board's permission to use segments of the Log Train Trail for the ride.

### **Background:**

The event will be the first time in 22 years that a BC Competitive Trail ride has been held in the Alberni Valley. The ride will start from a local farm located at 8691 Bland Road where a number of riders will be camping for the weekend. The organizers expect a maximum of 25 riders and they will have 20 volunteers and a veterinarian to oversee the expected riders. They are planning to make the trail ride an annual event in the Alberni Valley.

The organizers are requesting the Board's permission to use segments of the entire length of the Log Train Trail for their event. The trail riders do not require exclusive use of the trail and will follow normal trail etiquette to accommodate other user groups. The course will move throughout the weekend and will be delineated with stakes and ribbons which will be removed once the event is completed.

### **Time Requirements – Staff & Elected Officials:**

Minimal staff time to draft the letter of support.

**Financial:**

The Alberni Valley Back Country Horsemen of BC club carries 5 million dollar third party liability insurance through the Horse Council of BC and a private insurer. The club has agreed to include the Alberni-Clayoquot Regional District to the Additional Insured Endorsement coverage list. This will insure that the ACRD is covered with respect to liability arising out of the operation of the event.

**Policy or Legislation:**

The Log Train Trail is a gazetted road right-of-way owned by the province under the authority of the Ministry of Transportation and Infrastructure. The ACRD holds a lease from the Ministry to use the right-of-way as an interim recreational trail corridor. The ACRD has also completed improvements to the trail which may provide some level of ownership in terms of the liability risk.

As the right-of-way is owned by the Ministry of Transportation and Infrastructure, staff will advise that the AV BCHBC work with the Ministry to include them on the Additional Insured Endorsement coverage list for liability insurance.

**Options Considered:**

1. Provide a letter of support permitting the AV BCHBC to utilize the Log Train Trail for their event on September 20<sup>th</sup> and 21<sup>st</sup>, 2014.
2. Deny the request to use the Log Train Trail.

Submitted by:   
\_\_\_\_\_  
Alex Dyer, Planner



**Alberni Valley Back Country Horsemen of BC**  
c/o Erica Blake  
3622 Porritt Place, Port Alberni, BC V9Y 7P4



**BC Competitive Trail Riders of BC**  
c/o Nancy Gourlay  
403 Lowry's Road, Parksville, BC V9P 2B5

Tuesday, August 19, 2014

Alberni-Clayoquot Regional District  
3008 5th Ave  
Port Alberni BC  
V9Y 2E3

Dear Alberni-Clayoquot Regional District,

This year on the **weekend of September 20 and 21st, 2014** the Alberni Valley Back Country Horsemen of BC (AV BCHBC) and the British Columbia Competitive Trail Riders of BC (BCCTRA) will be hosting a BC Competitive Trail Riders Association sanctioned ride. This will be a two day event and the Ride will cover about 35 miles of trails. We are writing this letter to formally request permission to pass through your land on trails on or near the Log Train Trail, as outlined on the map enclosed.

This will be first time in 22 years we have held a BC Competitive Trail event in the Alberni Valley area, and we are hoping to make this an annual event. Previous Back Country Horsemen sanctioned rides in the Alberni Valley have been very successful and we have an excellent safety record. Many local business are providing prize donations for this event.

We are privileged to have 20 volunteers along with a Veterinarian to oversee the competitive riders expected. Our Ride site is a local farm at 8691 Bland Road, Port Alberni. A number of riders will be camping there on Saturday night. At most, 25 riders will be expecting to be competing on the trails from early Sunday morning to mid afternoon. BCCTRA and AV BCHBC members will be removing our flagging from the trails after the race.

The Alberni Valley Back Country Horsemen of BC and BC Competitive Trail Riders Association both carry 5 million dollar third party liability insurance through Horse Council of BC and Capri Insurance. All competitors are also insured through Horse Council of BC.

We will be posting notices to alert local neighbours and recreational trail users of this event.

Please contact me, the Trail Manager, at 250-735-2200 or email [erica.blake@shaw.ca](mailto:erica.blake@shaw.ca) or alternately, the Ride Manager, Cheryl Oickle, at 250-735-5992 if you have any questions or concerns about this event.

Thank-you in advance,

Erica Blake



# 2014



Alberni Valley BCHBC

## ALBERNI VALLEY LOG TRAIN TRAIL CTR SEPTEMBER 20 - 21, 2014 PORT ALBERNI, BC

### *Ride Description*

Level 1 & 2 rides featuring the Log Train Trail, single track trails, rural roads, logging roads, water crossings, some hill work

Registration deadline: **September 12<sup>th</sup>**

Ride capped at 20 riders

Awards & Accolades Sunday Post-ride

### *Venue*

John and Anita Oosterom's (working) Farm  
8691 Bland Rd, Port Alberni, BC

- Camping available \$10 per rig / arrive after 12 pm Saturday
- Quality Hay available for purchase

### *Grits*

Catered dinner Saturday evening (additional meals available for non-riding partners for \$10)

Light Breaky Sunday morning

### *Vetting*

Dr. Andrea Plaxton will pre-vet check horses from 3 – 6 pm Saturday

Level 1 riders may arrive and pre-vet check between 7 – 8 am Sunday

Ride CTR Sunday, Sept. 21st

### *Driving Directions*

Following Hwy 4 signs towards Tofino/Ucluelet, Turn right onto Beaver Creek Road (at Petro Can Station); drive approx. 12.7 km (just past Stamp Falls Prov Park), turn right onto Bland Road; drive 1.1 km – driveway is on the right near the end of the road (follow "BCCTRA") signs

### *Ride Manager*

Cheryl Oickle

Tel (250) 735-5992 email: [coickle58@gmail.com](mailto:coickle58@gmail.com)

### *Trail Manager*

Erica Blake

Tel (250) 735-2200 email: [erica.blake@shaw.ca](mailto:erica.blake@shaw.ca)

**REGISTRATION AND EVENT RELEASE WAIVER FORMS AVAILABLE HERE:**

[HTTP://WWW.BCCTRA.CA](http://www.bcctra.ca)



## MEMORANDUM

**To:** Russell Dyson, CAO and Regional Board of Directors

**From:** Heather Adair, Junior Planner

**Date:** August 21, 2014

**Subject:** DVC14002, 1045 SEVENTH AVENUE, SALMON BEACH

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### Background

On August 14, 2014 the Regional Board reviewed an application for a development variance permit relating to LOT 7, BLOCK 37, SECTION 49, CLAYOQUOT DISTRICT, PLAN 510.

The Board recommended that this application be furthered to the next stage of the variance process. This involved notifying all property owners within 200 feet of the property which has been completed. No letters have been received to date. If any objections or responses are received prior to the August 27, 2014 Board meeting, staff will inform the Board.

This development variance permit will reduce the required side yard setback in the Marine Recreation (MR) District from 10 feet (3.05m) to 8.01 feet (2.44m) for an existing cabin and reduce the required side yard setback from 10 feet (3.05m) to 9.06 feet (2.76 m) for an existing accessory building.

### Recommendation

That the Regional Board pass a resolution to issue Development Variance Permit DVC14002.

Submitted by:

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Heather Adair  
Junior Planner

Reviewed by:

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Mike Irg  
Manager of Planning & Development

### DVC14002



**DEVELOPMENT VARIANCE PERMIT NO. DVC14002**

Whereas, pursuant to Section 922 of the *Local Government Act*, a local government may by resolution, on application of a property owner, vary the provisions of a bylaw under Division 7 of Part 26 of the *Local Government Act*;

A Development Variance Permit is hereby issued to:

**Name:** Terrance & Deborah Smith

**Address:** 1045 Seventh Avenue, Salmon Beach

With respect to:

**Legal Description:** LOT 7, BLOCK 37, SECTION 49, CLAYOQUOT DISTRICT, PLAN 510

**PID:** 008-368-929

The provisions of the Regional District of Alberni-Clayoquot Bylaw No. 15, Section 200 – Schedule No. II – Bulk and Site Regulations are hereby varied as follows:

- (i) Reduce the required side yard setback in the Marine Recreation (MR) District from 10 feet (3.05m) to 8.01 feet (2.44m) for an existing cabin and to reduce the required side yard setback from 10 feet (3.05m) to 9.06 feet (2.76 m) for an existing accessory building.

In accordance with the provision of Section 922 of the *Local Government Act*, approval of this permit was given by resolution of the Board of the Regional District of Alberni-Clayoquot on \_\_\_\_\_, 2014.

This permit was issued under the seal of the Regional District of Alberni-Clayoquot on \_\_\_\_\_, 2014.

\_\_\_\_\_  
Russell Dyson, CAO

\_\_\_\_\_  
Chair of the Board of Directors

**DVC14002**



**Development Variance Application**

**DATE:** August 18, 2014

**ACRD FILE NO.:** DVE14004

**APPLICANTS:** Steven & Nadine Chatwin

**LEGAL**

**DESCRIPTION:** LOT 12, DISTRICT LOTS 23 AND 42A, ALBERNI DISTRICT, PLAN VIP79780

**LOCATION:** 5505 Highland Drive

**ELECTORAL AREA:** "E" Beaver Creek

**APPLICANT'S INTENTION:** To vary the required side yard setback to accommodate the construction of a proposed 17 foot high accessory building.

---

**Recommendation:** That the Regional Board:

- 1) Receive the staff report; and
- 2) Pass a resolution to consider issuing a development variance of Section 6.5.2 (a) to vary the maximum height for an accessory building in the Acreage Residential (RA2) District from 13 feet to 17 feet subject to:
  - The maximum height of the accessory building not exceeding 17 feet, measured at mid-truss.

**Procedure:**

Prior to the issuance of a development variance permit, the Board must first pass a resolution to consider issuing the permit. Staff then notifies neighbouring property owners and tenants to afford them the opportunity to make written or verbal submissions to the Board. At the subsequent meeting, the Board issues or denies the development variance permit.

**Observations:**

- i. **Status of Property:** The property is 1 acre in size and is cleared with a single family dwelling located on the property.
- ii. **Services**

**DVE14004**

- a. **Sewage Disposal:** On-site Sewage Disposal
- b. **Water Supply:** Beaver Creek Water System
- c. **Fire Protection:** Beaver Creek Fire Protection Area

iii. **Existing Planning Policies Affecting the Site**

- a. **Agricultural Land Reserve:** Not in ALR
- b. **Official Community Plan:** The Beaver Creek Official Community Plan designates this property “Residential Use”.

**This proposal complies with the Beaver Creek Official Community Plan.**

- c. **Zoning:** Existing zone is Acreage Residential (RA2) District. The following regulations apply to RA2 for a single family dwelling:

Minimum lot area: one acre  
Minimum lot width: 120 feet  
Minimum setbacks:  
Front: 40 feet  
Rear: 30 feet  
Side: 15 feet  
Maximum Height: 35 feet

The following regulations apply to RA2 for an accessory building:

Minimum setbacks:

Front: 40 feet  
Rear: 3 feet  
Side: 3 feet  
Maximum Height: 12 feet

Note: an accessory building height can be increased one foot in height for every two feet horizontal distance, in excess of the minimum side yard set back.

**The applicant will require approval of the side yard variance prior to construction of accessory building as proposed. Proposed height is 17 feet, which is 4 feet in excess of the allowed height at the requested 5 foot distance from the side lot line. Approval of this development variance for the side yard setback reduction will allow for the construction of the 17 foot accessory building.**

- iv. **Parkland Dedication:** N/A
- v. **Highways Approval within 800 metres of an intersection on controlled access Highway:** N/A

**Comments:**

Staff feels this development variance is reasonable. The required side yard setback is 3 feet, and the accessory building is proposed to be constructed 5 feet from the side yard lot line. The side yard variance is needed as an accessory building with a height of 17 feet would require a 13 foot side yard setback. This development variance would reduce the side yard setback from 13 feet to 5 feet.



Prepared by: \_\_\_\_\_  
Heather Adair, Jr Planner

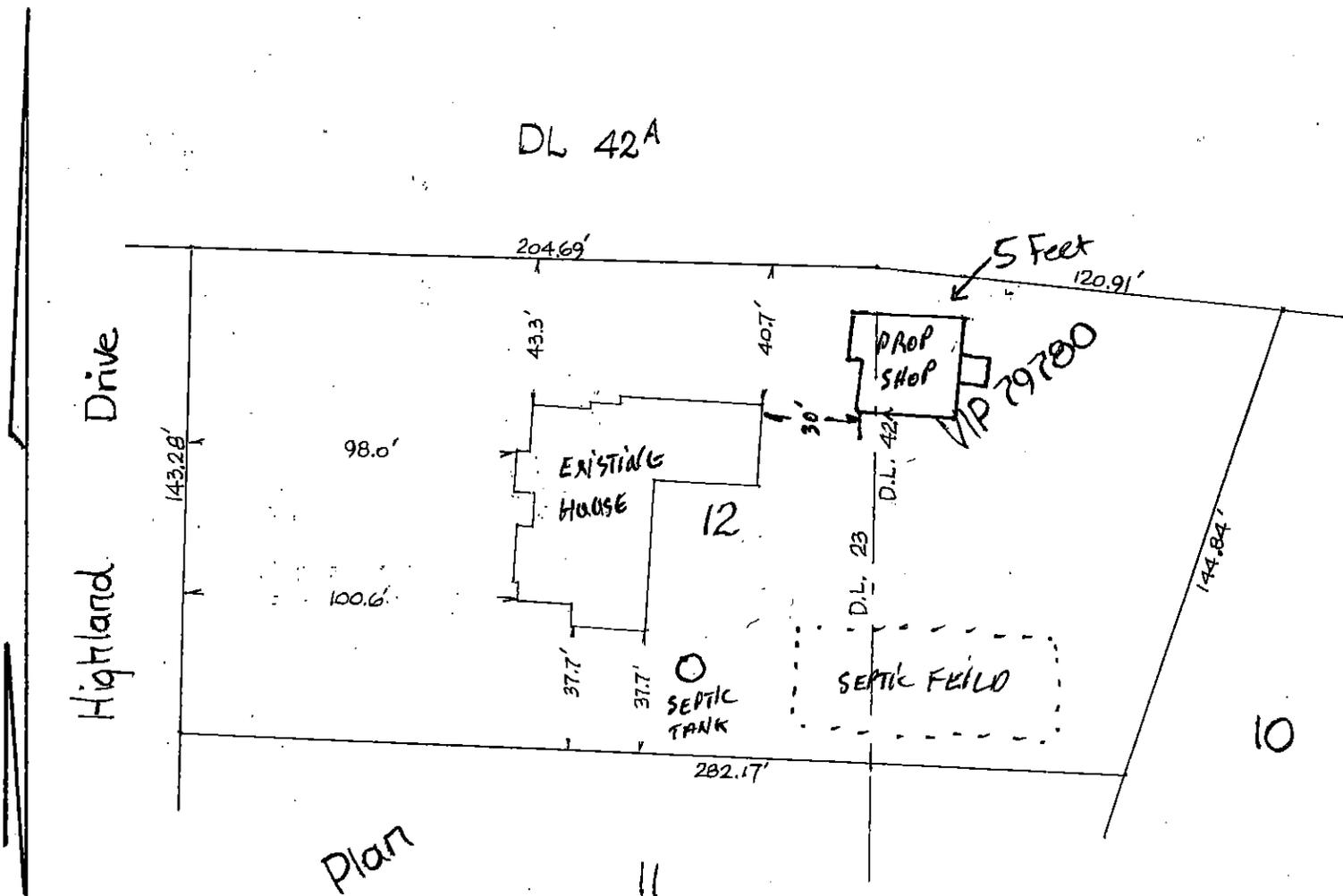


Reviewed by: \_\_\_\_\_  
Mike Irg, Manager of Planning and Development

RE: **PROPOSED SHOP** CONSTRUCTION ON LOT 12, D.L.S 23 & 42A (CHATWIN) ERNI DISTRICT, PLAN VIP79780  
 5505 HIGHLAND DRIVE

SCALE: - 1" = 50'

OUR FILE : 15212



© 2008 THIS DOCUMENT IS NOT VALID UNLESS ORIGINALLY SIGNED AND SEALED

CERTIFIED CORRECT THIS 23RD DAY OF APRIL, 2008.

*[Signature]*  
 B.C.L.S.

NOTE: - The measurements shown are the shortest distances between the foundation of the building and the adjacent boundaries of the parcel. This document is not intended for property line re-establishment and we accept no responsibility for unauthorized use.

**SUBJECT PROPERTY**

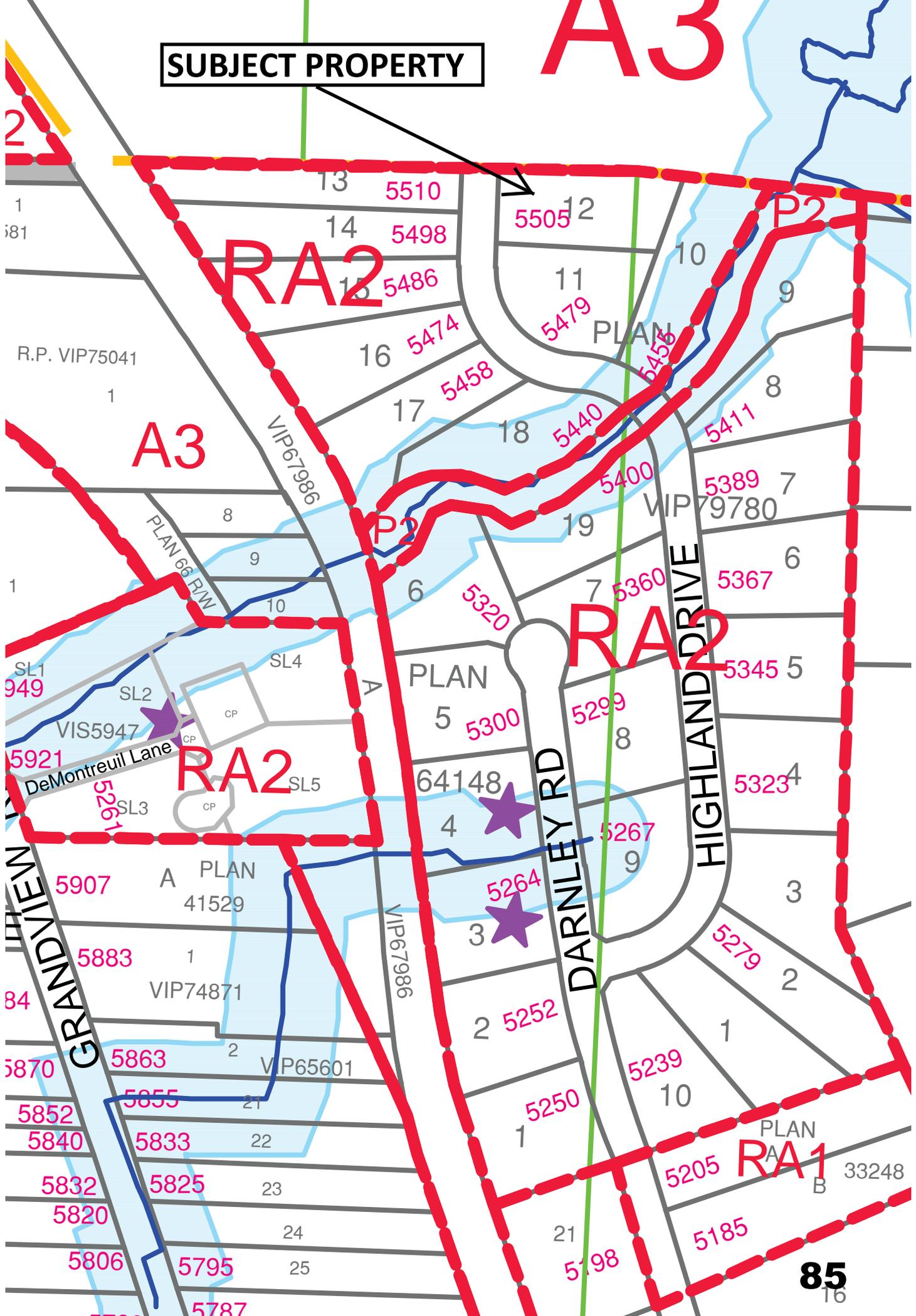
# A3

# RA2

# RA2

# RA2

# RA1





## MEMORANDUM

**To:** Russell Dyson, CAO and Regional Board of Directors  
**From:** Heather Adair, Junior Planner  
**Date:** August 21, 2014  
**Subject:** DVF14002, 3848 COWLEY ROAD

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### Background

On August 14, 2014 the Regional Board reviewed an application for a development variance permit relating to LOT 1, DISTRICT LOT 95, ALBERNI DISTRICT, PLAN VIP73555.

The Board recommended that this application be furthered to the next stage of the variance process. This involved notifying all property owners within 200 feet of the property which has been completed. No letters have been received to date. If any objections or responses are received prior to the August 27, 2014 Board meeting, staff will inform the Board.

This development variance permit will vary the required front yard setback in the Acreage Residential (RA1) District from 40 feet to 28 feet to allow for the proposed addition to the single family dwelling.

### Recommendation

That the Regional Board pass a resolution to issue Development Variance Permit DVF14002.

Submitted by:

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Heather Adair  
Junior Planner

Reviewed by:

---

Mike Irg  
Manager of Planning & Development

### DVF14002



**DEVELOPMENT VARIANCE PERMIT NO. DVF14002**

Whereas, pursuant to Section 922 of the *Local Government Act*, a local government may by resolution, on application of a property owner, vary the provisions of a bylaw under Division 7 of Part 26 of the *Local Government Act*;

A Development Variance Permit is hereby issued to:

**Name:** Gregory & Melanie Reimer

**Address:** 3848 Cowley Road, Port Alberni, BC

With respect to:

**Legal Description:** LOT 1, DISTRICT LOT 95, ALBERNI DISTRICT, PLAN VIP73555

**PID:** 025-390-406

The provisions of the Regional District of Alberni-Clayoquot Bylaw No. 15, Section 200 – Schedule No. II – Bulk and Site Regulations are hereby varied as follows:

- (i) Reduce the required front yard setback in the Acreage Residential (RA1) District from 40 feet to 28 feet to allow for the proposed addition to the single family dwelling.

In accordance with the provision of Section 922 of the *Local Government Act*, approval of this permit was given by resolution of the Board of the Regional District of Alberni-Clayoquot on \_\_\_\_\_, 2014.

This permit was issued under the seal of the Regional District of Alberni-Clayoquot on \_\_\_\_\_, 2014.

\_\_\_\_\_  
Russell Dyson, CAO

\_\_\_\_\_  
Chair of the Board of Directors



## MEMORANDUM

**To:** Russell Dyson, CAO and Regional Board of Directors  
**From:** Heather Adair, Junior Planner  
**Date:** August 21, 2014  
**Subject:** DVF14005, 5851 RUMSBY STREET

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### Background

On August 14, 2014 the Regional Board reviewed an application for a development variance permit relating to LOT 11, DISTRICT LOT 65, ALBERNI DISTRICT, PLAN 892.

The Board recommended that this application be furthered to the next stage of the variance process. This involved notifying all property owners within 200 feet of the property which has been completed. One letter in support of the variance was received to date. If any objections or other responses are received prior to the August 27, 2014 Board meeting, staff will inform the Board.

This development variance permit will vary the required side yard setback in the Rural (A2) District from 15 feet to 14 feet to allow for the completion of the hay storage building.

### Recommendation

That the Regional Board pass a resolution to issue Development Variance Permit DVF14005.

Submitted by:

---

Heather Adair  
Junior Planner

Reviewed by:

---

Mike Irg  
Manager of Planning & Development

### DVF14005

RECEIVED  
AUG 19 2014  
2:35  
HAND DELIVERED

August 19, 2014

ACRD Application No. DVF14005

As requested of property 5851 Rumsby St., Lot 11, Owners of property Gary and Zelda Van Den Broek - are requesting variance to setback hay storage building from 15 feet to 14 feet. As owners of lot 10, Gordon and Gale Seward, we are in agreement of the variance being put into place from 15 feet to 14 feet of our property line.

5793 Rumsby St. Lot 10  
Gordon & Gale Seward  
250-724-2764

x H Seward

x Seward

August 19, 2014



**DEVELOPMENT VARIANCE PERMIT NO. DVF14005**

Whereas, pursuant to Section 922 of the *Local Government Act*, a local government may by resolution, on application of a property owner, vary the provisions of a bylaw under Division 7 of Part 26 of the *Local Government Act*;

A Development Variance Permit is hereby issued to:

**Name:** Gary & Zelda Van Den Broek

**Address:** 5851 Rumsby Street, Port Alberni, BC

With respect to:

**Legal Description:** LOT 11, DISTRICT LOT 65, ALBERNI DISTRICT, PLAN 892

**PID:** 005-026-644

The provisions of the Regional District of Alberni-Clayoquot Bylaw No. 15, Section 200 – Schedule No. II – Bulk and Site Regulations are hereby varied as follows:

- (i) Reduce the required side yard setback in the Rural (A2) District from 15 feet to 14 feet to allow for the completion of the hay storage building.

In accordance with the provision of Section 922 of the *Local Government Act*, approval of this permit was given by resolution of the Board of the Regional District of Alberni-Clayoquot on \_\_\_\_\_, 2014.

This permit was issued under the seal of the Regional District of Alberni-Clayoquot on \_\_\_\_\_, 2014.

\_\_\_\_\_  
Russell Dyson, CAO

\_\_\_\_\_  
Chair of the Board of Directors

**Alberni-Clayoquot Regional District**  
**Staff Action Items by Department and Date**  
**Update to the Board of Directors as of August 27, 2014**

#	Date	Action Item	Assigned to	Target Date/Update
<b>Administration Department</b>				
1.	Jan. 23/13 WC Comm	Explore with the Yuułuʔiłʔatḥ Government possible participation in the South Long Beach Multi Purpose Bike Path in the future	Russell	Yuułuʔiłʔatḥ to respond
2.	July 10 <sup>th</sup> Board	Contact and work with the Nuu-chah-nulth Tribal Council and the Port Alberni Friendship Centre to develop a long term plan for reconciliation	Russell/ Cindy/ Tony/ Penny	Ongoing – Follow-up from J. Rampanen session
3.	March 26 <sup>th</sup> Board	Check with PA Fire hall regarding Ministry of Environment air quality monitoring equipment	Russell	Investigating
4.	April 9 <sup>th</sup> Board	C2C recommend contacting the President NTC Deb Foxcroft and request an observer from the ACRD at the NTC meetings	Russell	Request sent
5.	May 14 <sup>th</sup> Board	Prepare a report for consideration by the Board with a terms of reference for an Economic Development Meeting in the region.	Russell/ Pat	In progress
6.	May 14 <sup>th</sup> Board	Arrange the first meeting of the 2014 Board Remuneration Review Committee: Bob Kangiesser, Ken McRae and Stefan Ochman appointed to the Committee	Wendy/ Teri	Review underway
7.	May 28 <sup>th</sup> Board	Invite a representative from the Ministry of Transportation and Infrastructure to meet with the Board discuss road and signage issues in the region	Wendy/ Russell	August 27 <sup>th</sup> Board
8.	June 17 <sup>th</sup> AV Comm	Investigate and report back to the AV Committee with options for improvements to the Alberni Valley Sign at the entrance into Port Alberni	Rob	Investigating
9.	June 25 <sup>th</sup> Board	The Board of Directors approved the Alberni Valley Bulldogs Sponsorship Program for the value of \$24,925.00 – Advise the AV Bulldogs and proceed with the projects	Russell	Proceeding
10.	June 25 <sup>th</sup> Board	Proceed with the drilling development and testing of a production well at the Long Beach Airport with the services of GW Solutions at the estimated cost of \$116,081, as outlined in the CAO report	Russell	In progress consulting with TFN, INAC and Parks Canada
11.	July 9 <sup>th</sup> Board	Prepare a letter from the findings of the Earthquake Preparedness Consultation meeting and bring forward for consideration by the Board	Russell/ Laurie	Aug. 13 <sup>th</sup> Board
12.	July 23 <sup>rd</sup> Board	Reconciliation committee meet to discuss supporting the delivery of the Reconciliation Dialogue Workshop in Port Alberni and request a workshop on the West Coast.	Russell	

#	Date	Action Item	Assigned to	Target Date/Update
13.	July 23 <sup>rd</sup> Board	Bell Road consultation with TFN and the City	Russell	
14.	July 23 <sup>rd</sup> Board	Organize a transportation committee meeting before UBCM inviting Renee Mounteney	Shelli	September 4 @ 11:00 am
15.	July 25 WC Comm	Invite Johnathan Tillie, Operations Manager, Central Island Area, Ministry of Transportation and Infrastructure be invited to the next West Coast Committee meeting to discuss signage at the Highway 4 junction	Wendy	Aug. 27 <sup>th</sup> Board Meeting
16.	August 13 <sup>th</sup> Board	Correspondence from the Watershed Forest Alliance regarding the request for support around the topic of watershed protection and the old growth logging going on in McLaughlin Ridge be referred to the next board meeting and direct staff to distribute any relevant past correspondence or reports in advance of the meeting	Russell	August 27 Board Meeting
17.	August 13 <sup>th</sup> Board	Request the City of Port Alberni invite the ACRD Board to any related watershed meetings	Russell	
18.	August 13 <sup>th</sup> Board	Bylaw E1057, Sproat Lake Marine Patrol Service Area Establishment, 2014 to referendum in conjunction with the general local election in November 2014.	Wendy	
19.	August 13 <sup>th</sup> Board	Request Ministry of Transportation to consider a phase 2 project at Lost Shoe Creek to continue the salmon rearing channel project.	Shelli	
20.	August 13 <sup>th</sup> Board	Meeting with Dan Holder, Director Cote regarding Firepro RMS	Russell	
21.	August 13 <sup>th</sup> Hospital	Write a letter to Island Health Capital Planning Commission urging them to keep the Tofino Hospital renovation on their priority list.	Shelli	
<b>Finance Department</b>				
22.	April 23 <sup>rd</sup> Board	Prepare a report to the Board on the benefits and costs of signing onto the BC Climate Action Charter	Teri	Awaiting letter from Min. of CSCD
23.	June 25 <sup>th</sup> Board	The Board approved reducing the License of Use Fee for the AV Drag Racing Association to \$2,100.00 for 2013 only in consideration of the value of works provided at the Alberni Valley Airport – Set-up a meeting to review event and agreement for future years	Teri/ Andrew/ Russell	Meeting to be arranged after the 2014 event
24.	August 13 <sup>th</sup> Board	Amend the 2014-2018 Financial Plan to allocate \$30,000 of Electoral Area Administration Gas Tax Funding and \$20,000 of Millstream Water Capital Reserve to the Millstream Water Supply and Distribution System Upgrade.	Teri	October 2014

#	Date	Action Item	Assigned to	Target Date/Update
<b>Environmental Services Department</b>				
25.	Apr. 8/10 WC	Work with Parks Canada on the landfill road agreement	Russell	Letter sent January 12 <sup>th</sup>
26.	Sept. 8/10 WC	Investigate with Tla-o-qui-aht First Nation well development at the Long Beach Airport	Russell	Met with TFN Council June 2
27.	May 11/11 AV Comm	Investigate with the Tseshaht First Nation possible resource recovery at the AV Landfill	Andy/ Russell	In Progress
28.	June 13/12 BD	Develop a plan for appropriate use of the funds on the Log Train Trail from the Arrowsmith Radical Runners	Rob G.	Design in progress
29.	Oct. 10/12 Board	Work with the Air Quality council to develop a draft valley wide woodstove bylaw based on the City of Port Alberni's bylaw following receipt by the Board of Directors a joint APC meeting will be called to review the proposal	Andy	Sent to Advisory Planning Commissions for input
30.	April 23 <sup>rd</sup> Board	The Board of Directors directed staff to: 1. Meet with the Tseshaht and Hupacasath First Nations and the City of Port Alberni with respect to their consideration on providing a connection to their water systems for the Bell Road/Stuart Avenue water supply; and following the consultation, 2. Provide the information to the Bell Road/Stuart Avenue residents on the water servicing options	Andy/ Russell	In progress
31.	July 9 <sup>th</sup> Board	Extend the Alberni Valley and West Coast Curbside Collection Contracts to November 30, 2014	Andy/ Janice	Done
32.	July 9 <sup>th</sup> Board	Work with contractors on the West Coast to educate and establish a formal aggressive follow up plan regarding the implementation of the MMBC rules on curbside recycling	Andy	In progress
33.	July 9 <sup>th</sup> Board	Organize a Long Beach Airport Advisory Meeting with a 2-3 week lead time	Andy/ Janice	In progress
34.	July 23 <sup>rd</sup> Board	Award the Alberni Valley Landfill Operations Contract to Berry and Vale Contracting Ltd. for a 5 year period from October 1, 2014 to September 30, 2019, for a total cost of \$3,730,963.80 plus applicable tax	Andy	In progress
35.	August 13 <sup>th</sup> Board	Millstream-Ucluelet Emergency Water Connection and Watermain upgrade contract to Crow Excavating for \$148,323.29 (including GST)	Janice/Teri	In progress
36.	August 13 <sup>th</sup> Board	Award the Salmon Beach Boat Ramp Upgrade Tender to Crow Excavating & Trucking Ltd. for \$35,870.00 plus GST	Janice/Teri	In progress
37.	August 13 <sup>th</sup> Board	Award the South Side Ditch portion of the Salmon Beach Short Street Drainage Tender to Denis Francoeur Backhoeing Ltd. for \$42,442.00 plus GST.	Janice/Teri	In progress

#	Date	Action Item	Assigned to	Target Date/Update
38.	August 13 <sup>th</sup> Board	Approved the Solid Waste Plan Monitoring Advisory Committee as presented and that the committee accept representation from the invited First Nation communities as they are provided	Janice	
39.	July 25 <sup>th</sup> WC Comm	Send letter to Parks Canada regarding permission to cut trees at the primary runway threshold, if required	Janice Mark	
40.	July 25 <sup>th</sup> WC Comm	West Coast Committee recommends that the ACRD Board of Directors support in principle the investigation of water supply from the Lost Shoe Creek Aquifer to supply Parks Canada, the communities of Esowista and Ty-Histanis with the possible use of Long Beach Airport lands and existing water infrastructure as components of the system	Andy	
<b>PLANNING DEPARTMENT</b>				
41.	May 13/10 WC	Planning Staff proceed with subdivision process on the Long Beach Airport lands for the WC Multiplex Society and Long Beach Golf Course following Airport rezoning	Mike	Letter sent to TFN Jan 16 – Will include in new zoning bylaw
42.	June 1/09	Bamfield Official Community Plan Review	Mike	Second open house Aug. 14
43.	Apr. 27/11 BD	The Board adopted the Alberni Valley Agriculture Plan – Develop report identifying ACRD actions and resources needed	Mike	Report to Aug. 13 <sup>th</sup> Board meeting
44.	April 11/12 BD	Apply to the Ministry of Transportation for a permit to construct the dock at the west end of Nuthatch Road & to Ministry of Forests for foreshore tenure	Mike	Working with neighbor to move dock
45.	Nov. 14/12 Board	The Board referred the Bamfield Community Hall Society's request to approve & support their proposal to build a new hall to staff to review the request and provide a recommendation, following consultation with the Society, on the role of the ACRD	Mike	Contacted Hall Society – Society working on options
46.	July 24 <sup>th</sup> Board	The Board of Directors instructed staff to work with the Central West Coast Forest Society to investigate funding for the assessment and restoration of the Willowbrae Creek system	Mike	2014 Budget
47.	June 25 <sup>th</sup> Board	Prepare a report on development cost charge options through the 2015 budget process to use parkland dedication monies for park development and other infrastructure	Mike	September 2014
48.	August 13 <sup>th</sup> Board	Research an alternative to roundup to remove vegetation	Mike	September 2014

Issued: August 22, 2014



**Alberni-Clayoquot Regional District**

**Board of Directors Meeting Schedule  
September 2014**

**Thursday, September 4<sup>th</sup>**

AC Transportation Committee  
11:00 am  
Regional District Board Room

**Thursday, September 11**

Election Information Session  
7:00 pm  
Dogwood Room, Echo Center

**Wednesday, September 10<sup>th</sup>**

Board of Directors Meeting  
1:30 pm  
Regional District Board Room

**September 22 – 26**

UBCM  
Whistler Conference Center

**REGIONAL DISTRICT OF ALBERNI-CLAYOQUOT BUILDING INSPECTOR'S REPORT  
JULY, 2014**

BUILDING TYPE	BAMFIELD		BEAUFORT		LONG BEACH		SPROAT LAKE		BEAVER CREEK		CHERRY CREEK		TOTALS	
	#	VALUE	#	VALUE	#	VALUE	#	VALUE	#	VALUE	#	VALUE	#	VALUE
Single Family							1	300,000	1	400,000	1	450,000	3	1,150,000
Mobile Homes							1	2,000					1	2,000
Multi-Family													0	0
Adds&Rens					1	3,000			1	8,000			2	11,000
Commercial											1	85,000	1	85,000
Institutional													0	0
Industrial													0	0
Miscellaneous					1	30,000			1	1,000	2	22,655	4	53,655
<b>Totals</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>33,000</b>	<b>2</b>	<b>302,000</b>	<b>3</b>	<b>409,000</b>	<b>4</b>	<b>557,655</b>	<b>11</b>	<b>1,301,655</b>

**REGIONAL DISTRICT OF ALBERNI-CLAYOQUOT BUILDING INSPECTOR'S REPORT  
JULY, 2014 TO DATE**

BUILDING TYPE	BAMFIELD		BEAUFORT		LONG BEACH		SPROAT LAKE		BEAVER CREEK		CHERRY CREEK		TOTALS	
	#	VALUE	#	VALUE	#	VALUE	#	VALUE	#	VALUE	#	VALUE	#	VALUE
Single Family	1	152,771	0	0	0	0	4	1,180,000	4	985,000	5	1,838,069	14	4,155,840
Mobile Homes	0	0	0	0	0	0	2	7,000	1	5,000	0	0	3	12,000
Multi-Family	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Adds&Rens	1	10,000	0	0	2	13,000	5	199,833	5	58,900	0	0	13	281,733
Commercial	0	0	0	0	0	0	0	0	0	0	2	115,000	2	115,000
Institutional	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Industrial	0	0	0	0	1	200,000	0	0	0	0	1	10,000	2	210,000
Miscellaneous	1	1,000	0	0	2	49,909	5	58,219	8	126,072	7	105,655	23	340,855
<b>Totals</b>	<b>3</b>	<b>163,771</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>262,909</b>	<b>16</b>	<b>1,445,052</b>	<b>18</b>	<b>1,174,972</b>	<b>15</b>	<b>2,068,724</b>	<b>57</b>	<b>5,115,428</b>

	BAMFIELD	BEAUFORT/ BEAVER CREEK	LONG BEACH	SPROAT LAKE	CHERRY CREEK	TOTAL	YTD TOTAL
<b>WOODSTOVE INSPECTIONS</b>	<b>1</b>				<b>1</b>	<b>2</b>	<b>39</b>

	YEAR TO DATE		TOTAL YEAR			YEAR TO DATE		TOTAL YEAR	
2013	45	5,380,655	81	8,208,948					
2012	55	4,670,900	92	9,011,700					
2011	86	6,823,377	120	9,221,498					
2010	108	16,860,885	149	21,524,170					
2009	63	6,581,912	123	11,302,380	1999	37	1,805,788	80	3,348,092
2008	73	9,556,826	147	22,682,130	1998	41	1,650,426	75	3,320,890
2007	73	7,016,424	163	15,007,877	1997	48	2,779,466	104	10,025,166
2006	84	7,663,595	161	15,909,705	1996	69	5,542,700	128	9,050,554
2005	74	8,278,645	138	12,962,379	1995	61	5,910,000	116	9,641,300
2004	77	6,842,554	133	11,036,854	1994	92	6,327,000	151	7,915,500
2003	37	3,671,688	97	6,925,356	1993	82	5,774,000	167	10,864,000
2002	42	1,754,970	76	2,986,134	1992	87	5,660,000	173	11,192,500
2001	40	3,734,396	89	5,790,126	1991	57	3,115,520	126	7,155,120
2000	43	2,009,157	88	4,095,339	1990	53	5,240,500	118	6,323,900



## MEMORANDUM

**To:** Board of Directors  
**From:** Russell Dyson, Chief Administrative Officer  
**Date:** August 19, 2014  
**Subject:** Staff Report

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The following is an update on projects that Regional District Administration Staff are currently working on in addition to daily duties:

- Continue working with the Coordinator on development of the Alberni-Clayoquot Health Network and Planning Committee – Review of Regional Transit Study, support and participation in the Bamfield/Anacla Accord and Healthy Communities Forum;
- Regional Water Improvement Program;
- AV Regional Water – Meet Catalyst;
- Updating/renewing various agreements;
- Strategic Planning follow-up and project management and governance review;
- Occupational Health and Safety initiatives and policy development;
- Updating various ACRD Bylaws;
- ACRD Website Re-Development;
- Reconciliation follow up, workshop & UBCM;
- Follow-up from the 2014 Budget Adoption;
- 2014 Local Government Election and Referendum Preparations;
- Legal Issues and Negotiations;
- Personnel Issues;
- Board Remuneration Review Process including development of questionnaire and interview preparations;
- Processing FOI Requests;
- Development of ACRD Bi-weekly newsletter
- RFP Process – Alberni Valley Landfill Operations;
- Solid Waste Management Planning: renewal of contracts
- Long Beach Airport water source development
- Agricultural Plan initiatives

- AV Regional Airport Runway Study and GPS
- Accommodating AV Drag Races & process requests;
- 2014 UBCM preparations.



Submitted by: \_\_\_\_\_  
Russell Dyson, Chief Administrative Officer



## MEMORANDUM

**To:** Board of Directors  
**From:** Teri Fong, CGA, Manager of Finance  
**Date:** August 18, 2014  
**Subject:** Finance Department Staff Report

In addition to day-to-day activities, the finance department has been working on the following in June & July 2014:

- Assisted the Board Remuneration Committee by gathering background information as requested.
- Began investigating the implications of the Public Sector Accounting Board regulations regarding Contaminated Sites and started to develop a plan to ensure evaluation is completed and financial statements are compliant by December 31, 2015. Regular updates will be provided to the Board as the project plan is created and the extent of the project is determined.
- Attended Island Health Capital Planning meeting in Nanaimo on June 27<sup>th</sup> and discussed items such as Island Health's new strategic plan and the Capital Regional District's 'Indicators of Community Health & Wellbeing in the Capital Region' project.
- Developed a newsletter to the owners at Salmon Beach advising them that the resident manager is leaving as well as assisted the Manager of Environmental Services with developing options for replacing the manager.
- Completed the Statement of Financial of Information as required by the Ministry of Community, Sport and Cultural Development.
- Submitted a grant application for the Beaver Creek Volunteer Fire Department for the replacement of their first responder truck to AgriSpirit Fund Program. Announcement will be made in September as to whether the application was successful.
- Submitted an Infrastructure Planning Grant application to the Ministry of Community, Sport and Cultural Development for funding to enable the Cherry Creek Waterworks District to develop an infrastructure investment plan.
- Completed the annual Gas Tax reporting requirement and submitted to UBCM.
- Completed the annual Strategic Community Investment Fund progress report.
- Assisted with evaluation and funding options for the Millstream Water upgrade.

Submitted by: \_\_\_\_\_

Teri Fong, CGA, Manager of Finance



	2014 YEAR TO DATE ACTUAL	2014 ANNUAL BUDGET	PERCENTAGE OF BUDGET
<b>REVENUE</b>			
Tax requisition	\$ 1,051,477	\$ 3,705,251	28.38%
Parcel taxes	160,992	883,772	18.22%
Grants in lieu of taxes	66,153	29,900	221.25%
Services provided to other governments	54,741	110,648	49.47%
Sale of services	1,803,986	3,382,600	53.33%
Other revenue	95,497	134,500	71.00%
Grants from other sources	739,307	1,694,725	43.62%
Surplus (deficit) from prior years	1,797,691	1,797,545	100.01%
Committed surplus from prior year	2,026,344	2,025,978	100.02%
Transfers between services	8,833	83,184	10.62%
	<hr/>		
<b>SUBTOTAL</b>	7,805,021	13,848,103	56.36%
<i>Transfers from Municipalities for</i>			
Municipal Finance Authority	\$ 396,722	\$ 648,591	61.17%
	<hr/>		
<b>TOTAL REVENUE</b>	<b>\$ 8,201,743</b>	<b>\$ 14,496,694</b>	<b>56.58%</b>

<b>EXPENDITURES</b>	<b>2014 YEAR TO DATE ACTUAL</b>	<b>2014 ANNUAL BUDGET</b>	<b>PERCENTAGE OF BUDGET</b>
<b>All Members</b>			
E911 Telephone System	278,572	282,000	98.78%
General Government Services	575,000	1,031,500	55.74%
Alberni-Clayoquot Health Network	45,731	153,000	29.89%
Regional Parks	7,165	21,680	33.05%
Regional Planning	63,948	174,000	36.75%
<b>Electoral Area's</b>			
Building Inspection	119,200	245,000	48.65%
Electoral Area Administration	316,293	1,526,421	20.72%
Mgmt of Development - Rural Areas	161,841	396,000	40.87%
Vancouver Island Regional Library	301,672	403,000	74.86%
<b>Alberni Valley</b>			
Alberni Valley Emergency Planning	42,495	134,025	31.71%
Alberni Valley & Bamfield Waste Mgmt	846,224	2,456,900	34.44%
Alberni Valley Regional Airport	61,419	157,500	39.00%
Alberni Valley Regional Water - Proposed	8,468	60,000	14.11%
Custom Transit	229,558	452,000	50.79%
Sproat Lake Marine Patrol - Referendum	-	10,000	0.00%
<b>West Coast</b>			
Long Beach Airport	151,549	816,579	18.56%
West Coast Emergency Planning	2,013	14,000	14.38%
West Coast Waste Mgmt	430,279	893,500	48.16%
<b>City of Port Alberni</b>			
Port Alberni Arena	58,581	237,550	24.66%
<b>Bamfield</b>			
Bamfield Community Park	12,696	7,100	178.82%
Bamfield Volunteer Fire Dept	47,397	117,869	40.21%
Bamfield Water System	91,572	658,689	13.90%
<b>Beaufort</b>			
Mountain Ranch Rd Fire Protection	58	2,603	2.23%
<b>Long Beach</b>			
Millstream Water System	19,469	135,148	14.41%
Salmon Beach Garbage	7,491	29,150	25.70%
Salmon Beach Power Distribution	15,330	77,100	19.88%
Salmon Beach Recreation	12,164	39,450	30.83%
Salmon Beach Security	16,511	48,050	34.36%
Salmon Beach Sewage	29,443	63,750	46.19%
Salmon Beach Transportation	60,336	179,600	33.59%
Salmon Beach Water	6,188	16,050	38.55%
South Long Beach Bike Path	58	7,200	0.81%
South Long Beach Community Park	-	7,500	0.00%
South Long Beach Fire Protection	83	14,000	0.59%
South Long Beach Street Lighting	477	810	58.89%
<b>Sproat Lake</b>			
Sproat Lake Animal Control	904	3,100	29.16%
Sproat Lake Arena	58	33,107	0.18%
Sproat Lake Community Park	33,544	170,094	19.72%
Sproat Lake Noise Control	1,070	6,100	17.54%
Sproat Lake Volunteer Fire Department	78,423	389,000	20.16%
<b>Beaver Creek</b>			
Arvay Rd Street Lighting	755	1,300	58.08%
Beaver Creek Animal Control	533	3,000	17.77%
Beaver Creek Community Park	1,738	6,100	28.49%
Beaver Creek Arena	58	24,622	0.24%
Beaver Creek Noise Control	87	2,100	4.14%
Beaver Creek Volunteer Fire Department	97,672	254,230	38.42%
Beaver Creek Water System	599,858	1,212,519	49.47%
Granville Rd Fire Protection	58	1,229	4.72%
<b>Cherry Creek</b>			
Cherry Creek Animal Control	58	3,000	1.93%
Cherry Creek Arena	58	20,623	0.28%
Cherry Creek Noise Control	997	2,100	47.48%
Franklin River Rd Fire Protection	58	10,700	0.54%
<b>Grants-in-Aid</b>	32,689	363,898	8.98%
	<b>3,778,283</b>	<b>13,375,546</b>	<b>28.25%</b>
Transfers to Municipal Finance Authority on behalf of the Municipalities	396,722	648,591	61.17%
<b>\$</b>	<b>4,175,005</b>	<b>\$ 14,024,137</b>	<b>29.77%</b>



## MEMORANDUM

**TO:** Regional Board of Directors

**FROM:** Mike Irg, Manager of Planning and Development

**DATE:** August 20, 2014

**RE:** **Monthly Activity Report – Planning and Development**

2013 Total	2014 Total	APPLICATION
20	3	Rezoning
11	10	Development Permit and Development Variance Permit
11	6	Subdivisions
1	2	Agricultural Land Reserve
1	3	Board of Variance
9	7	Crown Leases
26	14	Bylaw Enforcement
13	11	Miscellaneous
92	56	TOTAL APPLICATION RECEIVED

### Other Planning Projects

A successful Open House for the Bamfield OCP and Regional Parks Plan was held on Thursday, August 14<sup>th</sup>. 19 people signed in and it appeared several more were in attendance. The plans were generally well received. Almost all copies of the plans were picked up. After making a few minor corrections and amendments (resulting from the first public hearing held in June and this open house), a second public hearing for the Bamfield OCP will be scheduled.

Open houses will be scheduled in September for the Regional Parks Plan in Port Alberni and the West Coast.

Staff assisted Toquaht with mapping for their new zoning bylaw and important harvest areas and Uchucklesaht with mapping for important harvest areas.

Mike Irg, Manager of Planning and Development