

## Partnership Committee on Agriculture and Environment

Minutes of meeting number 24 held on November 3rd, 2004 in Abbotsford

<b>Attendees</b>	<b>Affiliation</b>
Ken Nickel	Ministry of Agriculture Food and Fisheries
Bud Graham	Ministry of Agriculture Food and Fisheries
Randy Cairns	Land and Water BC Inc.
John Patterson	Fisheries and Oceans Canada
George Derksen	Environment Canada
Phil Bergen	Agriculture and Agri-Food Canada
Allen James	BC Poultry Association (BCAC)
Janet Demarcke	Union of BC Municipalities
Rae Fawcett	Horse Council of BC (BCAC)
Irmi Critcher	BC Grain Producers (BCAC)
Hans Buchler	BC Agriculture Council
Jennifer Dyson	BC Horticultural Association (BCAC)
Henry Wiens	BC Horticultural Association (BCAC)
Steve Thomson	BC Agriculture Council
Brian Baehr	BC Agriculture Council (AEPI)
David Borth	BC Cattleman's Association
Linda Allison	BC Cattleman's Association (BCAC)
Len Bouwman	BC Milk Producers Association
Dick KleinGeltink	BC Milk Producers Association (BCAC)
Marcus Gashof	BC Pork Producers Association (BCAC)
Barb Edwards	BC Landscape and Nursery Association (BCAC)
Glen Lucas	BC Fruit Growers Association
Eric Partridge	Ministry of Water Land and Air Protection
Sylvia Von Schuckmann	Ministry of Water Land and Air Protection
Rod Davis	Ministry of Water Land and Air Protection
Jack Bryden	Ministry of Water Land and Air Protection
Nancy South	Ministry of Water Land and Air Protection
Walter Goerzen	Investment Agriculture Foundation
Terry Dash	Agriculture and Agri-Food Canada – PFRA
Mark Robbins	Ministry of Agriculture, Food and Fisheries
Dave Melnychuk	Ministry of Agriculture, Food and Fisheries
Wray McDonnell	Ministry of Agriculture, Food and Fisheries
Jamie Alley	Ministry of Agriculture, Food and Fisheries
Spencer Thomson	KLO Middle School
Deirdre Lucas	KLO Middle School
Ted van der Gulik	Ministry of Agriculture, Food and Fisheries

The meeting was chaired by Bud Graham - MAFF

Recording secretary – Ted van der Gulik

### **Welcome New Members and Special Guests**

Eric Partridge, WLAP; Jack Bryden, WLAP; and Jamie Alley MAFF  
Deirdre Lucas and Spencer Thomson were shadowing their fathers as part of career day and attended meeting as observers.

### **Minutes**

Minutes of meeting 23 held on June 16th, 2004 in Kamloops – adopted. Minutes will be posted on MAFF website.

### **Partnership Committee Administrative Items**

Patty Doherty has stepped down from committee and will be replaced by Lynn Wilson from the BCAC. Lynn will attend the next meeting.

### **BC Agriculture Wildlife Committee**

Ken Nickel presented the Terms of Reference, work plan and membership of the BC Agriculture Wildlife Committee. Short discussion ensued on additional committee members.

Ken Nickel presented report on audible bird scare devices. Task group was established as a sub group to the Ag Wildlife Committee. Background work has not been completed but committee has developed proposals to meet the AEI funding deadlines. Proposals will provide options to propane cannons (e.g.netting). Some concern was raised that for some operations alternatives to scare devices may not be practical and may result in changes to the Farm Protection Act.

There has been a starling control program that has been initiated in the Okanagan the past two years. The program has shown some results in reducing bird damage to crops. While the Okanagan program may not be successful in the Fraser Valley there are other programs like “silent sentinel” that may have further application in the Fraser Valley.

*Wildlife Prevention, Mitigation AEI Pilot Projects* – Program has funded 14- 15 wildlife related projects. Compensation report has just been finalized and will be released soon. Report suggests that current initiatives provided by the AEI continue. Producers are expecting that new programs will be delivered based on what has been learned from the pilot projects and the submission of the final report. Once the report has been finalized the committee will determine what the next steps in the process will be. It is a BCAC priority to maintain momentum on this issue and there is some expectation by industry that there will be a future ongoing program.

**Action** – David Borth suggested a lunchtime presentation on Wild Predator Loss Control and Compensation at next PC meeting.

### **Nutrient Management Committee**

*Long Term Nutrient Management Report* – Mactavish report is going through editorial review and will be forwarded to industry sectors for comment. Comments will be

appended to the report and the entire package then tabled at the next partnership committee meeting.

*Compliance Report Update* – Jack Bryden provided update. Report has been forwarded to stakeholder for comments.

**Action:** Steve Thomson will coordinate industry comments and forward to Mike Younie by November 19<sup>th</sup>.

*Farmland Soil Survey* – Ken Nickel provided background. APF/ EFP program related discussions identified the need to determine the nutrient load to soils in the Fraser Valley. Funding has been obtained. The survey will look at NPK and provide information that will be useful to the implementation of the EFP program. Survey will be coordinated between MAFF and AAFC in Agassiz. Discussions must still be held with industry on this project to get their endorsement prior to any survey proceeding. Producers are concerned that there hasn't been much dialogue on this, that it is extra work and cost, and may not really be required as producers do soil nutrient tests now. They will also be doing EFPs and likely NMPs.

**Action:** MAFF will convene a meeting(s) with producers asap to gather support for the survey and further develop the study possibly for spring & fall 2005. MAFF will report back at the next PC.

Presentation on the soil nutrient survey will be given at the next PC.

### **Habitat and Farmland Committee**

Committee status and update provided by John Patterson on the committee's October 27<sup>th</sup> meeting. Committee is looking to develop a forum to discuss Agriculture and Habitat issues in more detail. DFO tabled a risk management framework at the Habitat and Farmland meeting to provide transparency and coherence in decision making as well as to develop streamlining tools. As part of their Environmental Modernization Program, DFO has committed to use appropriate provincial standards, guidelines and BMP's for decision making on habitat approvals under the *Fisheries Act*, where these have been deemed to provide a sufficient level of protection to fish habitat rather than developing separate federal standards.

### *Canada – BC Committee on Environmental Regulatory Reform*

Jamie Alley provided background on the Committee. DFO, Parks Canada, and EC are represented on the Federal side at the Regional Director General level. WALP, MAFF, MSRM represented on the Provincial side at the Deputy Minister level. This committee can assist in getting standards and guidelines formally endorsed by all agencies and implemented by respective staff. A draft agriculture work plan has been requested by this committee for their November 29<sup>th</sup> meeting. A draft has been circulated to the Habitat and Farmland Committee for input.

This Committee has also asked to see an Agriculture model using the Risk Management Framework, pathways of effects and the decision matrix inherent in the process.

**Action :** The work plan will be circulated to PC members after review by the Habitat and Farmland committee prior to submitting to the Canada BC Committee on Environmental Regulatory Reform.

#### *Riparian Area Regulation*

Rod Davis provided the status of the RAR that was passed this July. The RAR replaces the Streamside Protection Regulation and addresses riparian protection for new urban development using a science based approach that provides some flexibility to developers while adhering to DFO regulations. Field testing of the process will be done in November. The process looks at features and functions for fish and what can be developed in the riparian area to protect and support fish. A qualified professional can also be used to assess an area and prepare a report to determine an appropriate setback width and measures to protect features and functions.

*Riparian Management Guide* – an update on the status was provided by Ted vdG. A new draft of the guide will be prepared by January 05 and forwarded to agencies for their final review. WLAP has provided funding to complete some of the factsheets. The new guide will incorporate the cows and fish process with the assessment process outlined in the current guide.

*Building Setbacks from Watercourses for Agricultural Buildings* – Sylvia Von Schuckmann provided an update on current status of the building setback standards. Standards for constructed ditches and natural streams have been agreed upon. Channelized streams have been a stumbling block. A consultant has been hired to conduct assessments on five channelized streams in the Fraser Valley and five channelized streams in the BC Interior. The task group will establish draft standards based on this background information, develop a report for review by the BCAC and Habitat and Farmland Committee and then present to the PC.

*Vegetation Removal Guidelines* – Ted vdG provided an update to the committee on the process that is being considered to develop agricultural vegetation removal guidelines. This initiative will be developed through the Habitat and Farmland Committee. The Extensive Agriculture Program and Grazing Renewal program should also be looked at as part of this initiative.

#### *Drainage and Irrigation Management Guides*

An update on the status of both guides was provided by Ted vdG. The Irrigation Management Guide is ready to go to print. MAFF is waiting for comments from DFO on the Drainage Management Guide. A new draft of the guide is expected early in 05.

#### **Alternate Fuels for Greenhouse Boilers**

GVRD's presentation was postponed. George Derksen indicated that there is a multi-partnered International Airshed Strategy (IAS) being developed for the Georgia Basin/Puget Sound area and that Environment Canada would like to make a presentation

on the IAS at the next PC. Agriculture emissions are presently one of the eight initiatives associated with the Strategy.

**Action** - EC (Morris Mennell) will organize a presentation at the next PC meeting on the IAS and coordinate this with Jack Bryden as GVRD will also be invited to make a presentation on their issues and views on the use of fuels for the greenhouse industry.

*Poultry BioMass* – Mary Margaret Gaye provided an update on the Poultry BioMass project – using poultry manure as a potential fuel source for greenhouses. Project is a feasibility study that will look at and compare the various technologies and costs for natural gas, wood, horse manure and poultry biomass as greenhouse fuels.

**Action:** Contact Kevin Chipperfield – re: Sustainable Poultry Group giving a presentation on their group’s activities. Also follow up with Mary Margaret Gaye as to status of the biomass study and whether a presentation is required at next PC meeting.

### **Agri-Food Policy Framework**

Steve Thomson provide update on APF. BCAC has been given the approval to be the lead delivery agency for EFP. Nine agreements have been signed with regional and farm delivery groups. Two additional agreements will be signed shortly. There are six agreement to go.

A Beneficial Management Practices list was circulated to the PC meeting that will be available for funding as identified by an EFP and can be implemented under the Farm Stewardship and Green Cover programs. The list can change over time as new types of work are identified and approved for funding. The AEI program can still fund priority items that are not currently on the BMP list. Other means of supporting BMP’s under the EFP program are being looked at e.g. Ducks Unlimited.

Composting has been added to the BMP list. Federal researchers had a concern that composting could have a negative environmental effect if not done properly.

### **Specified Risk materials**

*Mortality Management* – Ken Nickel provided update. Since May 03 the means by way rendering of animal parts have been handled has changed. A crisis occurred this summer when Abbotsford ordered the company handling the morts to cease operations due to odour problems. MAFF is currently developing short and long term plans for handling dead stock. An interm solution has been developed and can work if all parties agree. It is not likely that the solution will meet the 60 day time frame that was established.

*Federal Regulations* – new regulations for mortality management are being developed by the Federal Government and should be in place by May 05. A draft should be available early in the new year for comments by stakeholders.

**Lunchtime Presentation:** *Incentive Programs for Habitat Enhancement on Private Land* – Nancy South WLAP.

**Action:** WLAP to continue discussions with industry and the wildlife committee.

### **National Agriculture Environment Service Expansion**

Terry Dash provided an update on the expansion of the (PFRA) program into British Columbia. The additional staff that are planned are to initially provide technical assistance in the delivery of the APF and National Water Supply Expansion Programs. An office in Kamloops and Abbotsford will be opened with five staff each. Staff will have expertise in Ag water, Ag land and agroforestry, Ag – information and Canadian Environmental Assessment.

**Action:** BCAC and BCMAFF to continue to meet with AAFC and PFRA to ensure effective integration of the new resources to support program objectives.

### **Fraser River Gravel Removal**

Jim Vanderwal provided an update on Fraser River gravel removal. Fraser Basin Council has lead in the development of a five year agreement to allow for removal for up to 500,000 m<sup>3</sup> of gravel annually from the Fraser River. The agreement allows for systematic removal of gravel that will assist in alleviating flooding concerns by land owners in the flood plain.

### **BC's approach to SARA**

BCAC raised concerns regarding the SARA process and the consultation process on SARA. It doesn't appear that there is a well established procedure to engage the agriculture industry into the process. Eric Partridge agreed that the agriculture industry needs to be consulted and will inform staff in WALP that are working on SARA. A process developed for the Forest Sector was mentioned as a possible model.

**Action:** Rod Davis WLAP will take the lead and discuss this further with BCAC as well as contacting other provincial and federal agencies involved with SARA on this. WLAP will report at next PC meeting on how SARA will be implemented in BC. (E.g. Recovery plan process etc.)

### **Water Management**

*Agriculture and Water Forum* - An agriculture and water forum will be developed through the Habitat and Farmland Committee. The agenda may include water supply and other water management issues for agriculture. A suggested program will be presented to the spring PC meeting.

*Water Task Group* – BCAC to establish a water task group to address water concerns regarding agriculture. There are a number of issues that need to be addressed regarding drought and water policy - multi year storage is one issue. Need to link water allocation and drought strategy into a combined policy. Hans Buchler to lead the establishment of task group with appropriate industry and government representation.

*Drought Strategy* – Randy Cairns provided update on drought strategy.

*Livestock Water Licencing* – Meeting with BCCA was held in July. LWBC is committed to continue to work on the stockwater licencing regulation.

*Water Licence Rental Fees* – The province has conducted a review of rental rates and has proposed a new schedule of rental fees. The intent is to consolidate the 90 use purposes to 9 sector purposes. Agriculture is now one of the 9 sectors. The new rates will bring cost equity to the sector. Randy Cairns provided the new cost structure to attach to minutes. See attachment.

### **Avian Influenza Centralized Composting**

Ken Nickel provided an update on Avian Influenza. The site used for central composting of unaffected birds now has 30,000 m<sup>3</sup> of compost. The site will be bermed and possibly covered for the winter. A small amount of compost is being stored in the original plastic bags. Compost from other composting sites that were used for AI infected birds can be applied to agricultural land once the composting process is complete. All of it has been released by CFIA.

### **Updates**

#### **Canada British Columbia Water Supply Expansion Program**

Phil Bergen provided a status and overview of the program. Tier 1 has 162 projects reviewed. Program will be advertised this winter again so proponents are informed of the application windows that remain.

#### **Agriculture Environment Initiatives**

Brian Baehr circulated a report on the AEPI program. The report was provided in the briefing package. To date \$7.5 million of \$12 million AEPI funds have been committed.

#### **Chilliwack Groundwater Bylaw**

Janet Demarcke provided update on groundwater bylaw. A draft is currently being prepared by Chilliwack and is being reviewed by legal council. Consultation with BCAC will take place in 2005 before first and second reading of any proposed bylaw.

#### **UBC Chair on Agriculture and the Environment**

No response from group as to status of UBC chair on Agriculture and the Environment.

#### **Coal Bed Methane**

Discussion on this issue with respect to pilot drilling in the Peace River and other regions of the province. There are unanswered questions regarding environmental issues with drilling, i.e. what happens to the water that is generated from the drilling. Eric Partridge to follow up on pilot work that is happening and advise Energy & Mines about concerns and contact Bud Graham – no re-injection is occurring but WLAP is having tests for quality being done.

#### **Items for future meetings:**

- Climate Change – WLAP
- Drinking Water Protection Act and Small Systems – Ron Duffell
- Air Emissions - Presentation by GVRD
- Wildlife Predator Loss Control
- Invite Energy and Mines to discuss issue regarding Coal Bed Methane

**Next meeting:** Wednesday, March 2nd Victoria



Annual rentals payable for the following water licence purposes by sector.

Item	Column 1 Purpose	Column 2 Annual Rental	Column 3 Annual Rental	Column 4 Annual Rental	Column 5 Annual Rental
		Year 2005	Year 2006	Year 2007	Year 2008
<b>AGRICULTURE SECTOR:</b>					
For all purposes in the <b>Agriculture Sector</b> , the annual rental is the greater of \$25.00 or the annual rental calculated using the rental rate set out below for each 1,000 cubic metres.					
(a)	water conveyed by a local authority and used for irrigation purpose	\$0.48 per 1,000 cubic metres	\$0.50 per 1,000 cubic metres	\$0.55 per 1,000 cubic meters	\$0.60 per 1,000 cubic metres
(b)	private irrigation use	\$0.48 per 1,000 cubic metres	\$0.50 per 1,000 cubic metres	\$0.55 per 1,000 cubic meters	\$0.60 per 1,000 cubic metres
(c)	industrial purpose associated with agriculture				
	crop suppression	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres
	flood harvesting	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres

Item	Column 1 Purpose	Column 2 Annual Rental	Column 3 Annual Rental	Column 4 Annual Rental	Column 5 Annual Rental
		Year 2005	Year 2006	Year 2007	Year 2008
	frost protection	\$0.35 per 1,000 cubic metres	\$0.40 per 1,000 cubic metres	\$0.50 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres
	game farms	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres
	greenhouses	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres
	kennels	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres

Item	Column 1 Purpose	Column 2 Annual Rental	Column 3 Annual Rental	Column 4 Annual Rental	Column 5 Annual Rental
		Year 2005	Year 2006	Year 2007	Year 2008
<b>AGRICULTURE SECTOR, CONTINUED:</b>					
	nurseries	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres
	ponds	\$25.00	\$25.00	\$25.00	\$25.00
	stockwatering	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres
	watering of golf courses, ornamental gardens, parks or similar properties	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres
<b>AQUACULTURE SECTOR:</b>					
For all purposes in the <b>Aquaculture Sector</b> , the annual rental is the greater of \$100.00 or the annual rental calculated using the rental rate set out below for each 1,000 cubic metres.					
(a)	fish hatcheries	\$0.075 per 1,000 cubic metres	\$0.077 per 1,000 cubic metres	\$0.078 per 1,000 cubic metres	\$0.08 per 1,000 cubic metres
<b>CONSERVATION AND LAND IMPROVEMENT SECTOR:</b>					
For all purposes under the <b>Conservation and Land Improvement Sector</b> , the annual rental is the greater of \$25.00 or the annual rental calculated using the rental rate set out below for each 1,000 cubic metres.					
(a)	conservation purpose				
	storage of water	\$25.00	\$25.00	\$25.00	\$25.00
	use of water	\$0.006 per 1,000 cubic metres	\$0.007 per 1,000 cubic metres	\$0.008 per 1,000 cubic metres	\$0.01 per 1,000 cubic metres
	construction of works in and about streams	\$25.00	\$25.00	\$25.00	\$25.00
(b)	land improvement	\$25.00	\$25.00	\$25.00	\$25.00

Item	Column 1 Purpose	Column 2 Annual Rental	Column 3 Annual Rental	Column 4 Annual Rental	Column 5 Annual Rental
		Year 2005	Year 2006	Year 2007	Year 2008
<b>DOMESTIC SECTOR:</b>					
For all purposes under the <b>Domestic Sector</b> , the annual rental is the greater of \$25.00 or the annual rental calculated using the rental rate set out below for each 1,000 cubic metres.					
(a)	domestic purpose	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres
(b)	industrial purpose associated with domestic use				
	camps	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres
	churches and community halls	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres
	exhibition grounds	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres
	institutions	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres
	public facilities	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres
	residential lawn watering (area exceeds 1 012 square metres)	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres
	swimming pools	\$25.00	\$25.00	\$25.00	\$25.00
	work camps	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres	\$0.60 per 1,000 cubic metres

Item	Column 1 Purpose	Column 2 Annual Rental	Column 3 Annual Rental	Column 4 Annual Rental	Column 5 Annual Rental
		Year 2005	Year 2006	Year 2007	Year 2008
<b>INDUSTRIAL AND COMMERCIAL SECTOR:</b>					
For all purposes under the <b>Industrial and Commercial Sector</b> , the annual rental is the greater of \$100.00 or the annual rental calculated using the rental rate set out below for each 1,000 cubic metres.					
(a)	general – use for industrial purpose				
	amusement parks	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
	bottling fresh water	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
	brake cooling	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
	cooling	\$0.55 per 1,000 cubic metres	\$0.65 per 1,000 cubic metres	\$0.75 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
	dewatering	\$100.00	\$100.00	\$100.00	\$100.00
	dust control	\$0.35 per 1,000 cubic metres	\$0.45 per 1,000 cubic metres	\$0.65 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
	enterprise (which includes hotels, motels, trailer parks, stores, service stations, restaurants or similar commercial enterprises)	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
	effluent dilution	\$0.25 per 1,000 cubic metres	\$0.45 per 1,000 cubic metres	\$0.65 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
	film processing plant	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
	fire prevention	\$0.35 per 1,000 cubic metres	\$0.45 per 1,000 cubic metres	\$0.65 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres

Item	Column 1 Purpose	Column 2 Annual Rental	Column 3 Annual Rental	Column 4 Annual Rental	Column 5 Annual Rental
		Year 2005	Year 2006	Year 2007	Year 2008
	fire protection	\$100.00	\$100.00	\$100.00	\$100.00

Item	Column 1 Purpose	Column 2 Annual Rental	Column 3 Annual Rental	Column 4 Annual Rental	Column 5 Annual Rental
		Year 2005	Year 2006	Year 2007	Year 2008

**INDUSTRIAL AND COMMERCIAL SECTOR, CONTINUED:**

garbage dumps	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
heat exchangers	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
ice making	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
log fluming	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
mineral trading purpose (mineral baths or trading)	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
overburden disposal	\$100.00	\$100.00	\$100.00	\$100.00
processing (which includes food processing plants, manufacturing operations, sawmills, and washing sand or gravel)	\$0.55 per 1,000 cubic metres	\$0.65 per 1,000 cubic metres	\$0.75 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
pulp mills	\$0.55 per 1,000 cubic metres	\$0.65 per 1,000 cubic metres	\$0.75 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
river improvement	\$100.00	\$100.00	\$100.00	\$100.00
road maintenance	\$0.25 per 1,000 cubic metres	\$0.45 per 1,000 cubic metres	\$0.65 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
sediment control	\$100.00	\$100.00	\$100.00	\$100.00

Item	Column 1 Purpose	Column 2 Annual Rental	Column 3 Annual Rental	Column 4 Annual Rental	Column 5 Annual Rental
		Year 2005	Year 2006	Year 2007	Year 2008
	sewage disposal	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
	shipyards	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
	snowmaking	\$0.35 per 1,000 cubic metres	\$0.55 per 1,000 cubic metres	\$0.65 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres

Item	Column 1 Purpose	Column 2 Annual Rental	Column 3 Annual Rental	Column 4 Annual Rental	Column 5 Annual Rental
		Year 2005	Year 2006	Year 2007	Year 2008
<b>INDUSTRIAL AND COMMERCIAL SECTOR, CONTINUED:</b>					
	truck washing	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
	tunnelling	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
	washing intake screens	\$0.25 per 1,000 cubic metres	\$0.45 per 1,000 cubic metres	\$0.65 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
	wharves	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres
<b>MINING AND PETROLEUM SECTOR:</b>					
For all purposes under the <b>Mining and Petroleum Sector</b> , the annual rental is the greater of \$100.00 or the annual rental calculated using the rental rate set out below for each 1,000 cubic metres.					
(a)	mining purpose				
	hydraulic mining	\$0.065 per 1,000 cubic metres	\$0.065 per 1,000 cubic metres	\$0.065 per 1,000 cubic metres	\$0.065 per 1,000 cubic metres
	hydrauliclicking	\$0.065 per 1,000 cubic metres	\$0.065 per 1,000 cubic metres	\$0.065 per 1,000 cubic metres	\$0.065 per 1,000 cubic metres

Item	Column 1 Purpose	Column 2 Annual Rental	Column 3 Annual Rental	Column 4 Annual Rental	Column 5 Annual Rental
		Year 2005	Year 2006	Year 2007	Year 2008
placer mining		\$0.45 per 1,000 cubic metres	\$0.45 per 1,000 cubic metres	\$0.45 per 1,000 cubic metres	\$0.45 per 1,000 cubic metres
processing ore		\$1.10 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres
washing coal		\$0.55 per 1,000 cubic metres	\$0.75 per 1,000 cubic metres	\$0.95 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres

Item	Column 1 Purpose	Column 2 Annual Rental	Column 3 Annual Rental	Column 4 Annual Rental	Column 5 Annual Rental
		Year 2005	Year 2006	Year 2007	Year 2008
<b>MINING AND PETROLEUM SECTOR, CONTINUED:</b>					
(b)	industrial purpose associated with mining				
	mining equipment	\$1.10 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres
	oil field injection	\$0.65 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$0.95 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres
	pressure testing and flushing	\$0.35 per 1,000 cubic metres	\$0.55 per 1,000 cubic metres	\$0.85 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres
<b>STORAGE SECTOR:</b>					
For all purposes under the <b>Storage Sector</b> , the annual rental is the greater of \$25.00 or the annual rental calculated using the rental rate set out below for each 1,000 cubic metres.					
(a)	storage purpose	\$0.006 per 1,000 cubic metres	\$0.007 per 1,000 cubic metres	\$0.008 per 1,000 cubic metres	\$0.01 per 1,000 cubic metres
<b>WATERWORKS (WATER SUPPLY) SECTOR:</b>					
For all purposes under the <b>Waterworks (Water Supply) Sector</b> , the annual rental is the greater of \$100.00 or the annual rental calculated using the rental rate set out below for each 1,000 cubic metres.					
(a)	water conveyed by a local authority and used for waterworks purpose	\$1.10 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres
(b)	water conveyed for waterworks purpose by a person other than a local authority	\$1.10 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres
(c)	water delivery	\$1.10 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres
(d)	bulk shipment of water by marine transport	\$1.10 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres	\$1.10 per 1,000 cubic metres

Item	Column Purpose	Column 1	Column 2	Column 3	Column 4	Column 5
			Annual Rental	Annual Rental	Annual Rental	Annual Rental
			Year 2005	Year 2006	Year 2007	Year 2008
<b>RESIDENTIAL POWER USE (SUPPLIED BY RESIDENT)</b>						
For the <b>Residential Power Sector</b> , the annual rental is the greater of \$100.00 or the annual rental calculated using the rental rate set out below for each 1,000 cubic metres.						
(a)	residential power use		\$0.003 per 1,000 cubic metres	\$0.005 per 1,000 cubic metres	\$0.008 per 1,000 cubic metres	\$0.01 per 1,000 cubic metres

Annual rentals payable for power generation projects (no change from previous tariff)

<b>MAJOR WATERPOWER PRODUCTION:</b>	
<b>Commercial power use:</b>	
construction capacity, for each kilowatt	0.276 indexed
authorized capacity, other than construction capacity, for each kilowatt	1.726 indexed
output, for each megawatt-hour	1.036 indexed
minimum annual rental, for each licence	\$100.00
<b>General power use:</b>	
construction capacity, for each kilowatt	0.345 indexed
authorized capacity, other than construction capacity, for each kilowatt	3.453 indexed
output, for each megawatt-hour a year, up to a total of 160,000 megawatt-hours from all power developments operated by the same licensee	1.036 indexed
output, for each additional megawatt-hour a year	4.835 indexed
minimum annual rental, for each licence	\$200.00

<b>INDEXING FACTOR:</b>	
For Fees and Rentals Under <b>Commercial</b> and <b>General</b> Power Purpose:	
(a)	the indexing factor for the calendar year ending December 31, 1994 is 1;
(b)	For each subsequent year, the indexing factor will be equal to the result of multiplying the indexing factor for the previous year by (1 + the percentage of approved average general increases in the British Columbia Hydro and Power Authority Electric Tariff Rate Schedule made in the proceeding calendar year, excepting any rate increases resulting from the application of this regulation and passed through to ratepayers pursuant to section 61 (4) of the Utilities <i>Commission Act</i> .

Annual rentals payable for the following permits over Crown land, which support a water licence.

Item	Column Purpose	1	Column 2 Annual Rental	Column 3 Annual Rental	Column 4 Annual Rental	Column 5 Annual Rental
			Year 2005	Year 2006	Year 2007	Year 2008
<b>PERMITS TO OCCUPY CROWN LAND:</b>						
For Item 9 (a), the annual rental for Crown land occupied by a dam is the greater of \$50.00 or the annual rental calculated using the rental rate set out below per hectare.						
For Item 9 (b), the annual rental for Crown land flooded or occupied by other works is the greater of \$10.00 or the annual rental calculated using the rental rate set out below per hectare.						
(a)	occupied by a dam		\$120.00 per hectare	\$120.00 per hectare	\$120.00 per hectare	\$120.00 per hectare
(b)	flooded or occupied by other works		\$7.45 per hectare	\$7.50 per hectare	\$7.50 per hectare	\$7.50 per hectare