

# BRITISH COLUMBIA OPERATORS DIGEST

A NEWSLETTER FOR WATER  
AND WASTEWATER OPERATORS

DECEMBER 2006 • NUMBER 114

## CEU REQUIREMENTS BY JANUARY 2008

**T**he deadline for the first requirement of the mandatory continuing education for all EOCP certified operators is January 2008. The EOCP Board approved this requirement back in 2004, which is similar to other certification authorities throughout North America. For more background information on the CEU requirements and how CEU's are allocated please check the EOCP website at [www.eocp.org](http://www.eocp.org).

Operators certified as Small System Operators in water and wastewater facilities are required to take 12 hours of appropriate continuing education (1.2 CEU's) every 2 years in order to hold a valid certificate. Operators certified at Level I, II, III, and IV are required to take 24 hours of appropriate continuing education (2.4 CEU's) every 2 years in order to hold a valid certificate. In conjunction with the new requirements, operator certificate renewals will be based on 2 year terms instead of the current 1 year. When operators pay their dues late in 2007, they must list the applicable continuing education they have taken since September 1, 2004. The number of hours must meet the above requirements in order to remain a certified operator.



View of the Seymour-Capilano Drinking Water Filtration Project which will be completed by the end of 2008.

This means that a certified operator has from September 1, 2004 to January 1, 2008 to accumulate 2.4 CEU's (1.2 CEU's for Small Water System and Small Wastewater System operators) of approved training.

General guidelines are being developed to identify which training will be acceptable to meet the new requirements. The EOCP is working with jurisdictions throughout North America to develop a consistent approach to defining what is appropriate as continuing education to keep operators current in their field(s).

*continued on page 4*

### What's inside this issue:

Leo Albrecht Retires from Board .....	2	Kelowna UV Water Treatment .....	8
EOCP Database Search .....	3	Certification Quiz - Water Distribution .....	10
Operator's Question .....	4	New Members and Upgrades .....	11
Top Ops Winners .....	5	Newly Classified or Updated Facilities .....	16
Vic Terry Award Winner .....	6	Upcoming Events .....	20
Project News .....	7		

## Environmental Operators Certification Program

The BC Operators Digest is the official newsletter of the Program. Submissions for publication in the Digest are welcome and may be sent to the Editor:

Don Gare  
Box 2293  
Sechelt, BC V0N 3A0  
**Phone:** 604 740-5695  
**e-mail:** dgare@dccnet.com

Changes of address, annual dues, exam applications, as well as general inquiries about the program should be addressed to:

Environmental Operators Certification Program  
201 – 3833 Henning Drive  
Burnaby, BC V5C 6N5

**Phone:** 604 874-4784  
**Fax:** 604 874-4794  
**Toll Free:** 1-866-552-3627  
**email:** eocp@eocp.org  
**Web:** www.eocp.org

Bill Hyslop, Executive Director  
Ms. Barbara Striegler, Executive Assistant  
Ms. Kim Eames, Office Assistant  
Ms. Heather Edmonds, Office Assistant

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The Environmental Operators Certification Program is a charter member of the Association of Boards of Certification, and is a Registered Society with over 3,500 active members.

### 2006/2007 BOARD OF DIRECTORS

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## Leo Albrecht Retires from Board



Joe McGowan presenting Leo Albrecht with a recognition plaque.

Joe McGowan presented Leo Albrecht with a wall plaque in recognition of his outstanding service of fourteen years as a Director on the EOCB Board.

Leo served as a Director on the EOCB Board from May 1992 until he retired from the Board in May 2006. During this time, Leo performed many duties including CEU Assessment, BCWWA Liaison and Exam Coordinator. He was first certified as an operator in 1980 and holds WWT IV, WWC III and WD III certificates. Leo was a worthy recipient of the Vic Terry Award (Operator of the Year) in 1987.

Leo worked for the City of Kamloops for twenty-eight years before retiring in 2002. He is well known to operators in BC and Yukon, having taught many wastewater courses. Leo served for fifteen years with the BCWWA's Operator Education Committee and was very dedicated and involved with operator training.

Recently, Leo has taken on a full time supervisory position with Corix Utilities overseeing the day-to-day operations of facilities by travelling to the venues or by a remote internet based monitoring system called the Superlog. He continues to assess new potential projects. His latest project is the potential take over feasibility of water utility operations for many communities in the North West Territories. He travelled to the NWT in mid September inspecting the operations of water treatment and truck fill operations as far north as Inuvik and Aklavik.

Fly fishing is still Leo's preferred pass time sport which he has not had time for since early June. He is enjoying his new fishing rod and reel which was presented to him by the EOCB for his many years of dedication and commitment to the Board.

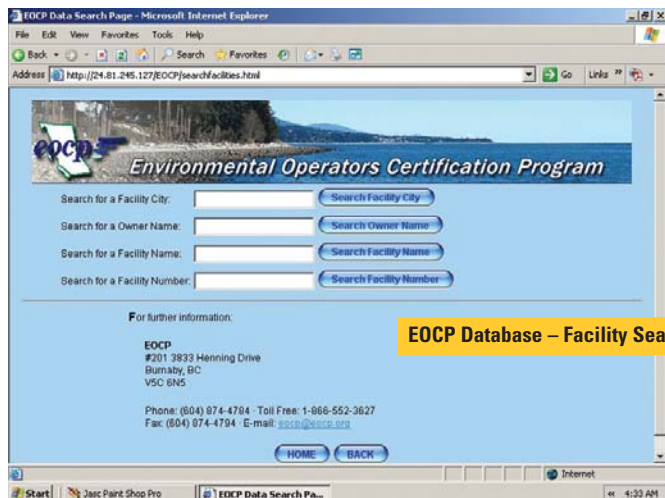


## New EOCB Database Search Web Page

**T**he EOCB recently added new features and information on the EOCB web site at [www.eocb.org](http://www.eocb.org), including a database search page. The web address for the database search page is: <http://24.81.245.127/EOCB/>. This link can be found on the main web page also.

Part of the 2005 EOCB Business Plan included incorporating the ability for people to search part of the EOCB database online. The new online database search allows regulators, operators, facility owners and managers, and staff to quickly ascertain operator certification levels and facility classification levels. The database search is categorized in two areas – searching operators and searching facilities. Each search can be cross referenced. Operators can be searched by name or the facility where they work, while facilities can be searched by the facility name, owner or city. The database is in a ‘beta’ stage, and will grow and improve as information and search functions are added. Operators who notice information that is incorrect on the database are asked to email or contact the Board Office with any corrections.

Some other new additions to the EOCB web page include the revised Program Guide which includes information updated to November 2006. The Program Guide includes all the information on the certification program to assist operators, managers and regulators understand how certification is attained and how facilities are classified.



As well, there are new pages devoted to continuing education and CEU requirements for certified operators. These new pages provide background information on CEU's, requirements by January 2008 for operators, and lists of courses and the allocated CEU amounts for each course.

There is also a new page that has lists of operators who recently became certified or who updated their certification level; and lists of new facilities and their classification.

## New Board Chairman Bob Smith



Bob Smith, (left) presenting Joe McGowan with a plaque in recognition of his 14 years of service and leadership as Board Chairman from 1992 to 2006.



Bob Smith presenting a gift to Scott Fry in recognition of his 2 years service as a Board Director.



Bill Hyslop, EOCB Executive Director; Natalie Zigarlick, BCWWA CEO; Jim Levin, BCWWA President; and Bob Smith, EOCB Board Chairman at a recent meeting.

## OPERATOR'S QUESTION

**QUESTION:** "Who is 'in charge' when the senior operator is not on-site?"

**ANSWER:** The basic premise of the certification system is that each facility should have at least one operator certified at the level equivalent to the classification of the facility and that individual is usually presumed to be 'in charge' when he/she is on-site. If he/she is physically off-site but reachable by phone and able to return to the site in a reasonable period of time he/she is usually deemed to be still in charge. He/she still has responsibility for the facility and should not be absent from the site unless he/she is confident that nothing is likely to go wrong in their absence or that the person or persons still on-site are capable of handling correctly whatever might happen.

If something untoward happens, those not in charge would be expected to contact the operator in charge and take instruction from him/her and/or wait for him/her to return to the site if the remedy can or should wait.

If the operator who is normally in charge is unable to return to the site within a reasonable period of time by virtue of sickness, holiday, course attendance, or simply that he/she doesn't work weekends but somebody must; then that somebody is in charge and must be certified not more than one level below the class of that of the facility.

*If an operator has a question concerning operator certification or facility classification, please send it along to the Editor or the EOCP office and we will have a Director or staff person answer your question.*

## 2007 Operator of the Year Nominations

The EOCP Board is seeking nominations for the 2007 Operator of the Year Award. The Vic Terry Award is presented by the BC Water and Waste Association at their annual conference to a certified operator nominated by the EOCP Board. Nominations may be submitted by operators, municipal officials, supervisors, or any member of the BCWWA.

### Nomination Guidelines

- The nominee must be a member of good standing of the EOCP.
- The nominee must have provided exemplary service in water or wastewater operations over an extended period of time.
- Written submissions must be received by January 31, 2007 at the Board Office.

## CEU REQUIREMENTS BY JANUARY 2008 (cont'd from page 1)

The term "continuing education unit" (CEU) is defined as "ten contact hours of participation in an organized, continuing education experience under responsible sponsorship, capable direction, and qualified instruction." Continuing education must therefore conform to this definition, and be relevant to the certificate to which it applies. Examples of continuing education that will qualify include:

- BC Water and Waste Association courses, seminars and workshops
- BC Water and Waste Association annual conference
- Distance education including internet based training and correspondence courses such as those offered by Thompson Rivers University; California State University, Sacramento; and others
- First Aid training
- Computer training
- Supplier or other agency training on job specific components
- Workshops and seminars designed for operators
- Chlorine or other disinfection courses
- Safety training such as WHMIS, WCB, confined spaces, including on-the-job emergency procedures for chlorine, etc.
- Backflow prevention courses
- Relevant laboratory courses
- Any other training that meets the definition for appropriate continuing education

Since many operators hold more than one certificate, the continuing education requirement will not require those operators to take the required number of hours for each certificate they hold. A minimum of 25% of the requirement must apply to each certificate held. For example if an operator holds Wastewater Treatment Level 1 and Wastewater Collection Level 1 certificates, he/she will be required to show a total of 24 hours of continuing education per two year period, of which a minimum of 6 hours must be in wastewater treatment and a minimum of 6 hours must be in wastewater collection training. The balance of 12 hours per 2 years can be made up of other related and approved training that is common to both certificates.

The continuing education requirements do not apply to chlorine handling, independent systems, operator-in-training, or bulk water delivery certificates.

Should certified operators fail to take the required amount of continuing education; their certification will be revoked until the requirements are met.

For further information or clarification, please contact the EOCP office at 604 874-4784 or 1 866 552-3627(toll free).

# TOP OPS & PUMP TEARDOWN COMPETITIONS

Once again the Top Ops and Pump Teardown Competitions were held at the 2006 BCWWA Annual Conference in Whistler. Both competitions will be held at the 2007 Conference in Penticton, from April 21-25. The Top Ops will have two sections this year – Level I to IV operators and Small Systems operators.

So now is the time to get your team together! Congratulations to the winning teams below, and to all the other teams who competed.



**1ST PLACE TOP OPS – OKANAGAN VALLEY**  
Randy Craig, Maurice Valcourt, Pat Miller (EOCP, Top Ops Organizer) Missing: Dave Sivyer



**2ND PLACE TOP OPS – CITY OF CHILLIWACK**  
Shawn Pritchard, Barry Kennedy, Sandy Hamilton, Pat Miller



**3RD PLACE TOP OPS – FIRST NATIONS ALLIANCE** James Tomma, Ernest Harry, Louie Sabbas, Pat Miller



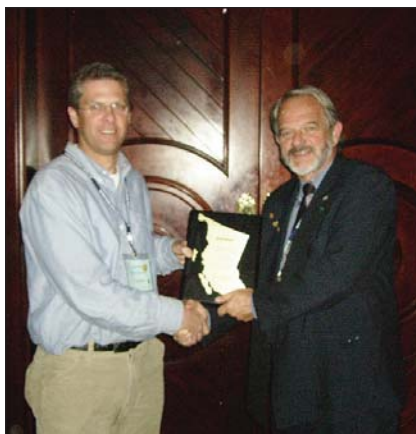
**1ST PLACE PUMP TEARDOWN – CITY OF BURNABY**  
Keith Larkin, John McLuskie, Mark Babey



**2ND PLACE PUMP TEARDOWN – CITY OF CHILLIWACK** Shawn Pritchard, Sandy Hamilton, Barry Kennedy



**3RD PLACE PUMP TEARDOWN – GVRD**  
Jim Harbour, Brian Causier, Lloyd Dean



## EOCP Corporate Recognition Award

EOCP Executive Director Bill Hyslop (right) presenting the EOCP Corporate Recognition Award to Ty Stokes; City Engineer, City of Cranbrook.



**1ST PLACE SMALL SYSTEMS TEARDOWN – FIRST NATION ALLIANCE**  
James Tomma, Ernest Harry, Louie Sabbas



## DIRECTOR PROFILE – Ron Johnston, P.Eng., Director, EOCP



**R**on Johnston, P.Eng. was born in Ontario and educated at the University of Guelph (B.Sc. Eng) and earned a Master of Applied Science at the University of BC. After working in Ontario and Alberta, he settled in Penticton in 1982 and worked as a Public Health Engineer in Penticton until 2006.

Most of the Public Health Engineers time is spent issuing approvals for construction projects – both water works and swimming pools. There was always time to visit the water sup-

ply systems to encourage owners, managers, and operators to do the best they could to supply safe drinking water to the customers. He investigated outbreaks of waterborne disease in Penticton, Black Mountain Irrigation District, Trail, Revelstoke, Princeton, and Kelowna. He helped develop the Public Health response to these outbreaks which would reduce the risk of a future occurrence of outbreaks in these systems.

Over the years, he worked closely with the Medical Health Officer and Public Health Inspectors in providing guidance to the 350 water supply systems and their operators in the Okanagan. He organized seminars on cross connection control, well protection plans, and water system operation. He has taught water distribution courses for the BCWWA.

As a Public Health Engineer, Ron gave numerous talks at the BCWWA annual conference and at seminars and workshops. He has dedicated himself to moving the water industry forward.

In October 2006, Ron retired from the Interior Health Authority and promptly was elected to the board of trustees of the West Bench Irrigation District where he lives.

Ron continues to live in Penticton with his wife Holley and has two sons at UBC (Okanagan). He is President of the Penticton Shooting Club and spends many enjoyable hours using his black powder muzzle loading firearms.

## 2006 BCWWA Victor M. Terry Award



EOCP Chairman Joe McGowan (right) presenting the Vic Terry Award to Greg Mealing at the BCWWA Conference in Whistler.

**T**he Vic Terry Award is a BC Water and Waste Association award that recognizes an operator who has demonstrated ingenuity and proficiency in plant operation or maintenance. Traditionally, the Environmental Operators Certification Program makes nominations for the award. This year's award was presented to Greg Mealing.

Greg is a graduate of the Okanagan College Water Quality Technology Program. He started out at the City of Penticton wastewater treatment plant and obtained his chlorine handler certificate and WWT Level I certification in 1994, and followed up with his WWT Level II certification early in 1997. Later that year he moved over to the Penticton water treatment plant and began the long process towards obtaining his WT Level IV certification in 2005, and is currently one of only ten BC operators who hold Level IV certification in water treatment.

Greg is an active member of the BCWWA and has volunteered with both the organizing and running of Association conferences and is well known as a valued instructor of BCWWA operator training courses.

## PROJECT NEWS

### Westbank Irrigation District Powers Creek Water Treatment Plant

Construction continues on the WID Powers Creek Water Treatment Plant in Westbank. The facility is approximately 2/3 complete, with the plant scheduled to be in operation in the spring of 2007.



Overall Site View

### GVRD Seymour-Capilano Filtration Project

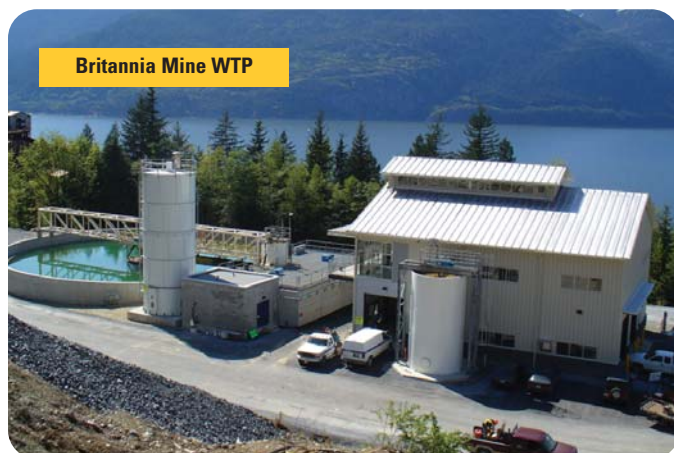
Water from the Capilano Reservoir in North Vancouver will be pumped through the 3.7 meter diameter tunnel to the new filtration plant near Rice Lake, south of the Seymour Reservoir. From there, the water will be treated and then returned to Capilano by gravity through a parallel tunnel of the same size. Both tunnels are 7.2 kilometres long, and are between 160 and 640 metres below the surface.



Bored Tunnel

### EPCOR Britannia Mine Water Treatment Plant

EPCOR designed, financed, built, and now operates the new Britannia Mine water treatment plant located approximately 48 km north of Vancouver at Britannia Beach. The treatment facility captures heavy metal pollution contained in the run-off from the old Britannia Mine. The abandoned copper mine, located between Vancouver and Whistler, previously deposited over 600 kilograms of contaminants a day into the marine environment of Howe Sound.



Britannia Mine WTP



Base Chamber - Tail Tunnel



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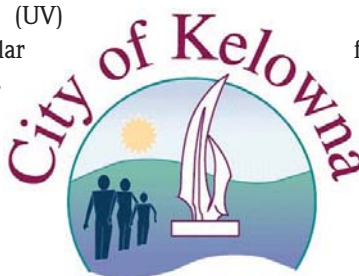
Poplar Point Water Treatment Facilities

## Plant Profile

### City of Kelowna UV Water Treatment Facilities

The City of Kelowna's new ultraviolet (UV) water treatment facilities at its Poplar Point, Eldorado, and Swick Road intakes on Okanagan Lake, are providing improved drinking water to customers in north, central and south Kelowna. The \$8 million project involved retrofitting UV treatment into existing intake pump stations and chlorination facilities while maintaining operation of the facilities to ensure continued water supply to the City. With the addition of UV reactors, the City's water utility is now providing its customers with a two-stage disinfection system consisting of UV primary disinfection followed by chlorination.

The City's water utility supplies water to more than 50,000 residents and 1,700 industrial, commercial, and institutional properties. The water system is classified by the EOCIP as a Level IV Water Distribution System. The raw water source is Okanagan Lake, with four intake locations. Previously water treatment has been limited to chlorine disinfection. However, in recent years concerns over water quality and protozoa such as giardia and cryptosporidia have led the City to seek enhancements to the primary disinfection at all intake locations.



The largest and most challenging of the three facilities was the Poplar Point site, which is the City's primary water supply and treatment facility. The Poplar Point site consisted of two high lift pump stations and a chlorination building located on a confined site immediately adjacent to Okanagan Lake.

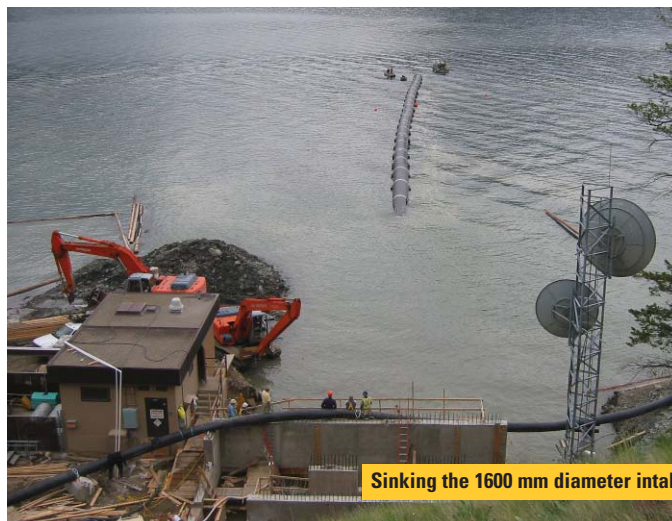
The scope of the new project included providing increased intake capacity and increasing the overall facility's design capacity to 180 million litres per day. The challenge was to find a way to integrate the UV treatment facilities into this extremely constrained site while improving suction side hydraulics to the high lift pumping system and providing an opportunity for the City to add future filtration. The solution involved transferring existing high lift pumps from the oldest high lift pump station was used to accommodate a new intake connection, low lift pumps, and UV equipment. A new interconnection structure was installed to tie the new facilities to the existing intake pipe on the suction side of the high lift pump station.

The project was scheduled to allow the components impacting water delivery capacity to be constructed during the low demand winter months, thereby ensuring that the City





UV system installation.



Sinking the 1600 mm diameter intake.

could maintain full water supply throughout the construction period.

Construction began in January 2005. The transfer of pumping equipment, demolition of the existing pump station, and excavation and construction of the substructure for the new UV Disinfection Facility were completed in the winter 2005. The 1600 mm diameter intake was floated and sunk to a depth of 30 metres in May 2005. Construction of the new superstructure and installation of the low lift pumps and UV

equipment and associated electrical and mechanical work was completed by year end 2005. The City completed the programming and controls integration to allow the new facilities to be commissioned in a staged manner at the three sites in early 2006.

*Thanks to the City of Kelowna  
and Associated Engineering including Lianna Mah  
and Bill Harvey, P.Eng., Project Manager.*


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# CERTIFICATION QUIZ – WATER DISTRIBUTION

These questions are representative of those found in actual certification exams.

1. **How many pounds of pressure (psi) equals 100 feet of head?**
  - a. 25
  - b. 39
  - c. 43
  - d. 86
2. **A vacuum is formed in the chlorinator by the**
  - a. chlorine cylinder pressure.
  - b. pressure differential through the ejector
  - c. pump
  - d. rotameter
3. **The abbreviation “DO” stands for**
  - a. dissolved organics
  - b. dissolved oxygen
  - c. direct oxidation
  - d. diamino oxide
4. **The performance curve of a pump reflects**
  - a. pump capacity
  - b. pump efficiency
  - c. pump horsepower
  - d. all of the above
5. **Flexible couplings used to connect the motor and the pump shall transmit**
  - a. power efficiently and effectively from one shaft to the other
  - b. wear on bearings to the shaft sleeve
  - c. shock loads and pulsations
  - d. load reversals
6. **Disc type meters are classified as \_\_\_\_\_ meters.**
  - a. compound
  - b. positive displacement
  - c. propeller
  - d. velocity
7. **Water with high turbidity will also have a high concentration of**
  - a. colour
  - b. dissolved minerals
  - c. fine suspended materials
  - d. materials that settle readily
8. **Static head is the**
  - a. energy of motion of the water
  - b. pressure loss in the line due to friction
  - c. pressure due to the depth or elevation of water
  - d. sum of all three of the above
9. **Wearing rings are installed on a pump to**
  - a. hold the shaft in position
  - b. keep the impeller in place
  - c. minimize internal water leakage
  - d. wear out the sleeves
10. **Trihalomethanes (THMs) are primarily a concern in**
  - a. ground water
  - b. groundwater and surface water
  - c. surface water
  - d. water after chlorine disinfection treatment
11. **An approved device used to prevent backflow and back-siphonage is a**
  - a. gate valve
  - b. check valve
  - c. surge tank
  - d. vacuum breaker
12. **A coupon test installation in a distribution system is used to**
  - a. determine the system’s water quality
  - b. determine the rate of scaling or corrosion
  - c. calculate the daily treatment changes
  - d. assist in calculating hydrant flows
13. **Normally, surface water and groundwater have a pH range of**
  - a. 9.0 to 10.5
  - b. 6.8 to 8.5
  - c. 1.5 to 4.0
  - d. none of the above
14. **What is the best definition of turbidity in water?**
  - a. anything in water that scatters light
  - b. sequestered iron and manganese particles
  - c. the amount of dissolved material in water
  - d. the combined optical effect of pH, chlorine and colour
15. **3-log removal means \_\_\_\_\_ percent removal/inactivation**
  - a. 99.9
  - b. 99.99
  - c. 99.999
  - d. 100

(Answers on page 17)



# NEW MEMBERS AND UPGRADES

**Congratulations to the following new operators and those operators who have upgraded their certification level.  
December 1, 2005 to April 30, 2006**

CERT. NO.	NAME		CITY	CERT. NO.	NAME		CITY
3407	Acton, Dave	WWC II	Vernon, BC	5876	Barnetson, Stuart	SWS	Dewdney, BC
5757	Adams, Robert	CH	Lister, BC	5802	Barney, Murray	SWS	Lillooet, BC
5757	Adams, Robert	OIT WWT	Lister, BC	5948	Basran, Avtar	WD I	Delta, BC
4770	Agius, Richard	WWC I	Powell River, BC	5711	Baughen, Cameron	SWS	Winfield, BC
5762	Airey, Christopher	WD I	Langley, BC	5870	Beazley, William	WD I	Madeira Park, BC
5787	Alexander, Bruce	OIT WD	Langley, BC	5835	Beedle, Robert	SWS	Fanny Bay, BC
593	Allen, Lawrence	WT II	Chilliwack, BC	5788	Bendickson, Bryce	SWS	Campbell River, BC
5840	Allen, Marlon	BWD	Haines Junction, YT	1328	Benjamin, Mark	WT II	Chilliwack, BC
3096	Allin, Douglas	WD III	Peachland, BC	5745	Benson, Scott	SWS	Gibsons, BC
4487	Allingham, Andrew	WD II	Oyama, BC	4608	Berger, Daryl	WT I	Vanderhoof, BC
3406	Allingham, Jack	OIT WT	Lake Country, BC	3454	Bernier, Ed	WD II	Whitehorse, YT
5856	Ambrose, Matt	IWWT I	Squamish, BC	3318	Biley, David	SWS	Lytton, BC
5600	Androlick, Mark	OIT WD	Kamloops, BC	5464	Billy, Herbert	SWWS-L	Lillooett, BC
5837	Anderson, Robert	BWD	Teslin, YT	5650	Birch, Korey	CH	Penticton, BC
3394	Arinzol, Gustav	SWWS-M	New Westminster, BC	1629	Bissenden, Dean	WWC II	Brentwood Bay, BC
4213	Aronetz, Cameron	WD II	Coquitlam, BC	5712	Bjarnason, Robert	SWS	Kelowna, BC
5695	Ashton, Graham	SWS	Williams Lake, BC	5886	Bjorn, Chris	SWS	Prince George, BC
5306	Atchison, Michael	MWWT I	Sayward, BC	5924	Bjornson, Darren	OIT WWC	Oliver, BC
4621	Atkinson, Mike	WD II	Kelowna, BC	5887	Blagdon, David	SWS	Prince George, BC
5691	Austin, Keith	SWS	Faro, YT	764	Blundell, Greg	CH	Victoria, BC
1190	Austrom, Anne	WD II	Burnaby, BC	5660	Blundell, Neil	CH	Vernon, BC
5720	Boileau, Gary	OIT WT	Victoria, BC	5795	Bobb, John	SWS	Agassiz, BC
1396	Bosscha, Jordy	MWWT II	Keremeos, BC	3421	Caissie, Jerry	WD I	Pitt Meadows, BC
5751	Bourdage, Wendy	SWS	Black Creek, BC	4479	Callow, John	WD II	Surrey, BC
1577	Bowen, Derek	WD III	Campbell River, BC	5853	Calvert, Tara	SWS	Whistler, BC
3072	Bowker, Benjamin	WWC II	Victoria, BC	5868	Camazzola, Jim	OIT WD	Coquitlam, BC
5931	Boyce, Ryan	WWC I	Langley, BC	1928	Camilli, Keith	WD II	Watson Lake, YT
2069	Boyd, Glen	MWWT I	Port McNeill, BC	4737	Campagna, Rick	WD II	Langley, BC
1867	Boyles, Terence	WWC II	Cowichan Bay, BC	3194	Campbell, Robert	WD I	Coquitlam, BC
5724	Bpyal, Ravi	WD I	Surrey, BC	5867	Cardinal, James	OIT WWT	Delta, BC
5842	Bradshaw, Richard	WD I	North Delta, BC	5685	Carlick, Jack	BWD	Atlin, BC
5716	Braithwaite, Peter	OIT WT	North Saanich, BC	1117	Carlick, William	WD II	Whitehorse, YT
5716	Braithwaite, Peter	OIT WWT	North Saanich, BC	5939	Carlson, David	WD I	Mission, BC
5877	Bray, Brian	SWS	Kamloops, BC	5925	Carter, Michael	MWWT I	Dawson Creek, BC
1270	Brereton, Doug	CH	Pemberton, BC	4701	Carter, Rob	WD I	Garibaldi, BC
1941	Brown, Christopher	MWWT III	Coombs, BC	5599	Carusi, Agostino	OIT WD	Kamloops, BC
5300	Browne, Peter	WWC II	Coquitlam, BC	5730	Carvalho, Carlos	WD I	Delta, BC
5839	Bruneau, Joseph	SWS	Burwash Landing, YT	4486	Casler, Marc	MWWT II	Kelowna, BC
4807	Bucknell, Dillon	CH	100 Mile House, BC	3830	Chambers, Fred	BWD	Whitehorse, YT
5878	Buhler, Menno	SWS	Tumbler Ridge, BC	5923	Chan, Irene	OIT WWC	Calgary, AB
3849	Buizer, Travis	WWC I	Coquitlam, BC	1720	Chapman, Dean	MWWT II	Grand Forks, BC
5768	Burchill, Charles	SWS	Heriot Bay, BC	5270	Charbonneau, Paul	WD I	Golden, BC
5706	Baerg, Michael	SWS	Carcross, YT	3131	Chartrand, Dale	WWC II	Smithers, BC
4850	Burtch, Kevin	CH	Kelowna, BC	5928	Chin, Anthony	WT I	Maple Ridge, BC
5820	Bailey, Randy	OIT WT	Vanderhoof, BC	3138	Chomolok, Steve	WWC I	Errington, BC
5769	Bustin, Daniel	SWS	Campbell River, BC	5888	Christieson, William	SWS	Prince George, BC
5820	Bailey, Randy	OIT WWT	Vanderhoof, BC	3438	Chu, Alfred	WT III	Coquitlam, BC
5930	Bains, Gurnam	WWC I	Victoria, BC	5913	Cinnamon, Jody	SWS	Valemount, BC
4478	Balducci, Patrick	WWC II	Langley, BC	5873	Cletus, Peter	SWWS-L	Duncan, BC
1191	Banman, Mike	WD II	Richmond, BC	5898	Coben, Christopher	WD I	Quesnel, BC
5875	Barker, Paul	SWS	Kamloops, BC	5940	Colleran, Patrick	WD I	North Vancouver, BC
4328	Barnes, James	WD II	North Vancouver. BC	5662	Comeau, Brent	WWC I	Vernon, BC

# NEW MEMBERS AND UPGRADES

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<b>CERT. NO.</b>	<b>NAME</b>		<b>CITY</b>	<b>CERT. NO.</b>	<b>NAME</b>		<b>CITY</b>
4710	Cook, Glenn	WD II	Nanaimo, BC	5689	Forsberg, John	BWD	Lower Point, BC
5941	Cooke, Ron	WD I	Lantzville, BC	4070	Forsyth, Bruce	WD II	Chase, BC
5803	Coombs, Jeffrey	SWS	Takla, BC	5115	Francoeur, Denis	WD II	Port Alberni, BC
5731	Corless, Phil	WD I	Aldergrove, BC	5860	Frank, William	SWS	Forest Grove, BC
5778	Coulombe, Jean	SWS	Kamloops, BC	4101	Fricker, Benjamin	WD I	Prince Rupert, BC
5951	Cox, Eric	WD I	Tofino, BC	5852	Fyles, Michael	SWS	Gibsons, BC
5687	Daciuk, Richard	BWD	Teslin, YT	5101	Galbraith, Gord	WD I	Chetwynd, BC
5752	Dale, Russell	SWS	Victoria, BC	5903	Gannon, Jason	OIT WD	Kamloops, BC
5823	Dalla Pace, Eric	WD I	Burnaby, BC	3015	Garner, Jeremy	WT II	Charlie Lake, BC
1503	Daoust, Tresa	WWC I	Vernon, BC	5804	Gaze, Donovan	SWS	Chase, BC
3707	Davenport, Leslie	WD II	Kelowna, BC	5690	Genier, James	BWD	Mayo, YT
3836	Davies, Vernon	BWD	Teslin, YT	4131	Gentile, Gerry	WD I	Richmond, BC
3437	Deacon, Daniel	WWC I	Surrey, BC	1201	Gervais, Eugene	WD II	Port Coquitlam, BC
5766	Dean, Terry	WD I	Nanaimo, BC	1202	Getman, Paul	WT I	Port Moody, BC
2090	Deane, Victor	WD III	Victoria, BC	5696	Glen, Duane	SWS	100 Mile House, BC
5728	DeForrest, Terry	WD I	Whitehorse, YT	5770	Glisinski, Robert	SWS	Port Alice, BC
5854	Desormeaux, Jean	SWS	Brackendale, BC	1025	Godfrey, Michael	WWC II	Brentwood Bay, BC
1223	DeVuyst, Kerry	WT III	Dawson Creek, BC	5760	Godidek, Colin	WD I	Richmond, BC
5688	Dickson, Calvin	BWD	Watson Lake, YT	4515	Good, Harry	SWWS-L	Kitwanga, BC
5915	Dixon, Glen	OIT	Dewdney, BC	5932	Gordon, Bradley	WWC I	Vancouver, BC
3697	Donaldson, Jamie	WT I	Trail, BC	5697	Goulding, Bruce	SWS	Quesnel, BC
3714	Dorman, Donald	WWC I	Sidney, BC	5754	Grant, Simon	SWS	Victoria, BC
1020	Douville, Robin	WT I	Creston, BC	3364	Gravelle, Gaetan	WWC I	Victoria, BC
3629	Droucker, Dominique	WD II	Nelson, BC	5953	Gray, Craig	SWS	Oliver, BC
2026	Duncan, Barry	SWS	New Hazelton, BC	5916	Grayson, David	SWS	Salt Spring Island, BC
2026	Duncan, Barry	SWWS-L	New Hazelton, BC	1203	Green, Matthew	MWWT IV	North Vancouver, BC
4584	Durnford, Garland	WT I	Fort St. John, BC	5841	Greenway, Robert	BWD	Watson Lake, YT
5707	Eckervogt, Martin	SWS	Haines Junction, YT	4190	Greer, Terry	WWC I	Port Coquitlam, BC
5785	Edwards, Brian	SWS	Pemberton, BC	5824	Gresiuk, Bob	WD I	Nakusp, BC
3497	Ellis, Gordon	WWC II	Victoria, BC	5297	Griko, Brad	WD II	Invermere, BC
4741	English, Michael	WWC I	Sooke, BC	4123	Halfpenny, Corey	WD I	Abbotsford, BC
5799	Enns, Christopher	WWC I	Victoria, BC	5796	Hall, Eugene	SWS	Lake Errock, BC
4038	Etherington, Todd	WWC II	Duncan, BC	5771	Hall, Kenneth	SWS	Qualicum Beach, BC
1553	Evanchu, David	WT IV	Penticton, BC	5598	Hall, Trevor	SWS	Waglisla, BC
5809	Evers, Donald	SWS	Gibsons, BC	5780	Halvorson, Carl	SWS	Brackendale, BC
4553	Exner, Alan	MWWT I	Kelowna, BC	4363	Hamilton, Sandy	WD II	Chilliwack, BC
3442	Fader, Henry	WD I	Delta, BC	4854	Harris, Frank	WD II	Rossland, BC
5732	Fandrey, John	WD I	Delta, BC	3523	Harry, Ernest	MWWT II	Powell River, BC
5859	Felix, Herbert	SWS	Fort St. James, BC	4338	Hartley, Brian	WT I	Salt Spring Island, BC
854	Ferguson, Michael	WD II	North Vancouver, BC	5333	Hawryluik, Kristian	WWC I	Kelowna, BC
1948	Ferguson, Stan	WD III	Parksville, BC	5843	Heikkila, Gerald	WD I	Coquitlam, BC
3937	Ferraro, Domenico	WWC II	Vancouver, BC	1900	Heinrich, Claudia	MWWT III	Radium Hot Springs, BC
5921	Feser, Gregory	OIT WD	Tahsis, BC	5910	Hennis, Jason	WWC I	Victoria, BC
5779	Filipak, Michiko	SWS	Whistler, BC	5825	Henriquez, Jose	WD I	Burnaby, BC
5889	Finke, Margaret	SWS	Prince George, BC	1295	Herdsman, Christopher	WD II	Vancouver, BC
1022	Finlay, Scott	CH	Kelowna, BC	4215	Herschmiller, Michael	WD III	North Vancouver, BC
3459	Firlotte, Micheal	WT II	Kamloops, BC	3944	Hightower, John	WD III	Port Moody, BC
1473	Fitzpatrick, Howard	WT I	Montrose, BC	5861	Hillis, Clifford	SWS	Hazelton, BC
715	Fitzpatrick, Larry	WD II	Montrose, BC	5897	Hiltz, Mark	MWWT I	Gibsons, BC
5330	Florencio, Edgardo	WT I	Kitimat, BC	3038	Hogan, Robert	WD I	Crescent Valley, BC
5713	Forcier, Terrance	SWWS-M	Keremeos, BC	4628	Holway, Terry	BWD	Haines Junction, YT
5713	Forcier, Terrance	SWS	Keremeos, BC	5917	Hope, Rod	SWS	North Vancouver, BC



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4073	Hoskins, Rick	CH Kelowna, BC	5806	LeBourdais, Richard	SWS Kamloops, BC
4074	Howard, Bobby	WT I New Hazelton, BC	5947	Lee, Deborah	WD I Richmond, BC
4747	Howie, Thomas	WD III North Vancouver, BC	5452	Legg, Bryan	WT I Britannia Beach, BC
5746	Huculak, Teresa	SWS Vernon, BC	5761	Lennox, Matt	WD I Abbotsford, BC
5813	Hudec, Christopher	SWS Powell River, BC	4455	Leslie, Ian	WD I Vanderhoof, BC
5879	Hughes, Tom	SWS New Denver, BC	5936	LeStage, Darren	WWC I Maple Ridge, BC
4718	Huie, Kevin	WD I Vancouver, BC	5718	Leung, Percy	MWWT I Burnaby, BC
5933	Hunter, Derek	WWC I Delta, BC	5286	Lewis, Roger	SWS Vernon, BC
5890	Hutchison, James	OIT Prince George, BC	5849	Liebbbrand, Valentijn	SWS Oliver, BC
5952	Hutchison, James	WD I Parksville, BC	5892	Lim, Soon	SWS Prince George, BC
774	Isbister, Graham	WD II Maple Ridge, BC	5978	Lindhout, Darrell	WD I Chilliwack, BC
5934	Iuliano, Mike	WWC I Vancouver, BC	5899	Little, Keith	WD I Fraser Lake, BC
1723	Jacques, Joseph	WD II Coquitlam, BC	1960	Little, Randy	WD II Gibsons, BC
3324	James, Jennifer	WWC II Whistler, BC	5909	Little, Tanya	WWC I Victoria, BC
5753	James, Michael	SWS Victoria, BC	5943	Llewellyn, Robert	WD I Chilliwack, BC
5692	James, Michelle	BWD Carcross, YT	5937	Lockwood, Steven	WWC I Burnaby, BC
4308	Jewell, Joe	MWWT II Port Hardy, BC	5765	Loetscher, Peter	WD I Parksville, BC
4655	Jimmie, Alvin	SWS Chilliwack, BC	5896	Loewen, Benjamin	MWWT I Chilliwack, BC
5791	Jin, Angela	SWWS-L Calgary, AB	5388	Loewen, Robert	SWWS-L Williams Lake, BC
5891	Jobs, Stephan	SWS Prince George, BC	3139	Longworth, Michael	WD II North Burnaby, BC
5737	Johnson, James	SWS Port Alberni, BC	3139	Longworth, Michael	WD III North Burnaby, BC
5912	Jones, Robert	SWS Sorrento, BC	3139	Longworth, Michael	WWC III North Burnaby, BC
5729	Jordan, Daniel	WD I Whitehorse, YT	4144	Lowe, Jason	WD II Delta, BC
3611	Jorgensen, Bruce	WWC II Maple Ridge, BC	3636	Lucht, Luke	WD II Salmo, BC
5725	Kalyk, Chad	WD I Burnaby, BC	5781	Lustic, Damian	SWS Brackendale, BC
5911	Kamstra, Shane	WWC I Maple Ridge, BC	5828	Maartman, Thomas	WD I Elkford, BC
5814	Kelman, Scott	SWS Gibsons, BC	5743	MacColl, Brian	WD I Oyama, BC
3177	Kerfont, Rick	WWC II Victoria, BC	5261	MacDonald, Michael	WWC I Coquitlam, BC
5815	Ketler, Cornelius	SWS Powell River, BC	5858	MacDonald, Murray	SWS Garibaldi Highlands, BC
3402	Kipp, Larry	WWC I Salmon Arm, BC	5622	MacLeod, John	SWWS-M Mara, BC
3402	Kipp, Larry	WD I Salmon Arm, BC	5800	MacNeish, Timothy	MWWT I Abbotsford, BC
5857	Klassen, Brian	SWS Brackendale, BC	4075	Madden, Donald	WD II Powell River, BC
5740	Knappett, Glen	WD I Nanaimo, BC	5938	Mallon, Michael	WWC I Port Alberni, BC
4622	Koroll, John	WD I Kamloops, BC	5850	Markovic, Goran	SWS Penticton, BC
4173	Kotyk, Franklin	WD I Montrose, BC	3603	Marsolais, Luc	WWC III Chilliwack, BC
5935	Kovacs, James	WWC I Richmond, BC	3603	Marsolais, Luc	WD III Chilliwack, BC
1846	Kuchty, Kevin	CH Vancouver, BC	2095	Martinson, David	WD III Vancouver, BC
4719	LaBelle, Timothy	IWWT II Garibaldi Highlands, BC	4857	Martin, Carl	WD II Rossland, BC
4495	Lainchbury, David	WD I Logan Lake, BC	4351	Martin, Dexter	MWWT I Fort St. James, BC
3910	Lamorie, Ralph	WT II Masset, BC	5739	Martin, Jeffrey	WD I Nanaimo, BC
4020	Lancaster, Sheree	WD II Fairmont HotSprings, BC	5926	Matchett, Darrell	MWWT I Yellowknife, NWT
4020	Lancaster, Sheree	WT I Fairmont HotSprings, BC	3948	Matsos, Thomas	WWC I Surrey, BC
1722	Lane, Rodney	WD I Surrey, BC	5722	Matthews, Darren	WT I Ashcroft, BC
5942	Lang, Steven	WD I Ucluelet, BC	5764	May, Donald	WD I Nanaimo, BC
1340	Langlois, Terry	WD II Enderby, BC	5747	Mazereeuw, Jack	SWS Vernon, BC
4114	Lanigan, Kelly	WD II Whitehorse, YT	5758	McAdam, Raymond	WD I Qualicum Beach, BC
5772	Lanthier, Louis	SWS Port McNeill, BC	952	McAnerin, Pat	WWC I Abbotsford, BC
3699	Larrimore, Wayne	WD I Nakusp, BC	5848	McCabe, Tyrone	SWS Kamloops, BC
1971	Larsen, Davin	MWWT III Qualicum Beach, BC	5944	McCartney, Scott	WD I North Vancouver, BC
5694	Lawrence, Gordon	SWS Campbell River, BC	4217	McColl, Terry	WD II Harrison Hot Springs, BC
3196	LeBlanc, Paul	WWC II Coquitlam, BC	5908	McDermid, Alan	WWC I Victoria, BC
5805	LeBourdais, Eugene	SWS Kamloops, BC	4185	McDonald, Duncan	MWWT I Elkford, BC

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5710	McGill, Ivan	SWS Prince George, BC	758	Penner, Ken	CH Kelowna, BC
5826	McGillivray, Colin	WD I North Vancouver, BC	758	Penner, Ken	WD II Kelowna, BC
5733	McIntosh, Thomas	WD I Delta, BC	5052	Phillips, Kevin	WD I Mayo, YT
5827	McKeown, Ed	WD I Port Moody, BC	5946	Pirie, David	WD I Mission, BC
3472	McKinlay, Michael	WWC I Duncan, BC	1779	Pistilli, Ben	WD I Maple Ridge, BC
5945	McLean, Donald	WD I Mission, BC	5726	Playford, Wayne	WD I Nanaimo, BC
5832	McLean, Ken	WD I Montrose, BC	5782	Poissant, Richard	SWS Squamish, BC
1358	McLean, Martin	CH Sicamous, BC	900	Popoff, Joe	WD I Castlegar, BC
2086	McMillan, William	WD II Kelowna, BC	1755	Powell, Adam	WD II Chilliwack, BC
5816	Mead, Russell	SWS Vancouver, BC	1755	Powell, Adam	WWC I Chilliwack, BC
4755	Meyer, Craig	OIT WT Surrey, BC	5929	Powell, Thomas	WT I Castlegar, BC
364	Meyer, Glenn	WT IV Chilliwack, BC	1557	Praught, Sylvia	WWC II Surrey, BC
5907	Miller, Steven	WWC I Victoria, BC	4725	Pretzer, Jason	WD I Maple Ridge, BC
5734	Milling, Tyler	WD I New Westminster, BC	3954	Pritchard, Shawn	WD II Abbotsford, BC
5829	Mocharski, Michael	WD I Vancouver, BC	5748	Prudhomme, Robert	SWS Sandspit, BC
5790	Monaghan, Shaun	WWC I Pitt Meadows, BC	5777	Ralston, Shayne	SWS Hope, BC
5767	Monkman, Robin	WWC I Maple Ridge, BC	5871	Ramogida, Serge	WD I Richmond, BC
5767	Monkman, Robin	WD I Maple Ridge, BC	5699	Ramsay, Douglas	SWS Prince George, BC
3950	Montague, Eli	WWC II Richmond, BC	5717	Ramsay, Rod	OIT WD Surrey, BC
5051	Morin, Dan	BWD Teslin, YT	988	Regher, Douglas	WD II Ladner, BC
4579	Morphet, Scott	WD II Pemberton, BC	5403	Reid, Garney	WT I Waglisla, BC
2022	Morrison, Richard	WT I Hazelton, BC	5817	Reid, Gordon	SWS Maple Ridge, BC
5880	Mulder, Hermina	SWS Vernon, BC	476	Reid, James	WD II Langley, BC
1718	Murphy, Michael	WD II Pitt Meadows, BC	476	Reid, James	WT I Langley, BC
4458	Mullett, Jordan	BWD Carmacks, YT	4009	Reimer, Gil	WD II Terrace, BC
5793	Nahm, Guerard	SWS Vernon, BC	1098	Reynolds, John	MWWT IV Sooke, BC
5682	Nasby, Aaron	CH Canoe, BC	5789	Richards, Andrew	WD I Victoria, BC
5851	Nelson, Peter	SWS Maple Ridge, BC	5881	Roberts, Kenneth	SWS Kamloops, BC
1041	Nelson, Robert	WWC II Brentwood Bay, BC	5759	Robarts, David	WD I Richmond, BC
5862	Nelson, Theodore	SWS Kitkatla, BC	3566	Robertson, Darren	CH Moberly Lake, BC
5698	Neville, Ted	SWS Quesnel, BC	3566	Robertson, Darren	WT I Moberly Lake, BC
1892	Nichols, Danny	WWC II Victoria, BC	5773	Robertson, Marie	SWS Sooke, BC
3422	Nicholson, Stephen	WD II Chilliwack, BC	5700	Robson, David	SWS Quesnel, BC
4127	Nigh, Tim	WD II Vancouver, BC	4751	Rogers, Murray	WWC II Saanichton, BC
3121	Nitschke, Bruce	WD II North Delta, BC	5894	Roseberry, Leila	SWS Prince George, BC
1677	Noga, Lloyd	WD II Maple Ridge, BC	5219	Ross, Gordon	WD II Kelowna, BC
4146	Nolan, Kenneth	WD II North Vancouver, BC	5219	Ross, Gordon	CH Kelowna, BC
1528	Olson, Timothy	WWC II Powell River, BC	5831	Rossetti, Giuseppe	WD I Coquitlam, BC
4815	O'Neill, Michael	WD I Nelson, BC	4983	Roth, Gordon	WD I Tahsis, BC
1122	Osborne, Ray	WD III Whitehorse, YT	5114	Roth, Robert	CH North Vancouver, BC
5914	Owens, Bryan	SWS North Vancouver, BC	5902	Rotzetter, Ron	WD I Clearwater, BC
5847	Page, Kenneth	SWS Genelle, BC	5456	Russell, Stephen	WD I Cumberland, BC
3114	Parker, David	WT I Crofton, BC	3984	Sallows, Shannon	MWWT III Richmond, BC
3368	Parker, Robert	WWC II Sidney, BC	4357	Sandberg, Lorne	MWWT III Port Hardy, BC
5918	Parnell, Brian	SWS Langley, BC	5893	Sanderson, Michael	SWS Prince George, BC
5863	Parsey, Janice	SWS Agassiz, BC	4753	Savage, Roy	WWC II Pitt Meadows, BC
5797	Paul, Jeffery	SWWS-M Deroche, BC	5818	Schellenberg, James	SWS Powell River, BC
5797	Paul, Jeffery	SWS Deroche, BC	5794	Schneider, Gregory	SWS Nanoose Bay, BC
5807	Paul, Wilfred	SWS Spences Bridge, BC	3602	Schneider, Harvey	MWWT IV Richmond, BC
3911	Pavitt, Kevin	WD I Maple Ridge, BC	665	Scott, Darren	CH Chilliwack, BC
5901	Penner, Bryan	WD I Vernon, BC	5756	Scott, James	SWS Sooke, BC
758	Penner, Ken	OIT WT Kelowna, BC	5071	Seal, Alan	WD I Cobble Hill, BC



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<b>CERT. NO.</b>	<b>NAME</b>		<b>CITY</b>	<b>CERT. NO.</b>	<b>NAME</b>		<b>CITY</b>
5844	Shaw, Anthony	WD I	Surrey, BC	4969	Wallenius, Daniel	WT III	Trail, BC
5904	Shaw, David	MWWT I	Cobble Hill, BC	5838	Wally, Gordon	BWD	Carcross, YT
5220	Shepherd, Ryan	WD II	North Vancouver, BC	4081	Webb, Richard	WWC II	Canoe, BC
5874	Sillseemult, David	SWWS-L	Duncan, BC	3188	Webber, Bryan	WD I	Port Coquitlam, BC
5776	Sloan, Clayton	IWWT I	North Vancouver, BC	5906	Weisgerber, Paul	WWC I	Victoria, BC
1608	Smith, Donald	WWC II	Salmon Arm, BC	5701	Weldon, James	SWS	Quesnel, BC
4145	Smith, Douglas	WD I	Coquitlam, BC	3545	Wellington, Ryan	WT II	Salt Spring Island, BC
5949	Smith, Ed	WD I	Lions Bay, BC	5702	Wells, Bruce	SWS	Quesnel, BC
5684	Smith, Gordon	SWS	Teslin, YT	5709	Welsh, Richard	SWS	Watson Lake, YT
3092	Smith, Rankin	WD II	Whistler, BC	5808	West, Keith	SWS	Takla, BC
5462	Sommers, John	WWC I	Vancouver, BC	5775	Westbrook, Garry	SWS	Campbell River, BC
5950	Spain, Steven	WD I	Gibsons, BC	5884	Westfall, Theodore	SWS	Lac Le Jeune, BC
5819	Spence, Charles	SWS	Pender Island, BC	5906	Weisgerber, Paul	WWC I	Victoria, BC
1436	Spender, Brad	WD II	Genelle, BC	5701	Weldon, James	SWS	Quesnel, BC
5834	Sprague, Lee	SWS	Nanaimo, BC	3545	Wellington, Ryan	WT II	Salt Spring Island, BC
4594	Stabeck, Gavin	WD II	Kamloops, BC	5702	Wells, Bruce	SWS	Quesnel, BC
1961	Startup, Jason	WD II	Fruitvale, BC	5709	Welsh, Richard	SWS	Watson Lake, YT
3417	Steele, Coral	WD I	Maple Ridge, BC	5808	West, Keith	SWS	Takla, BC
5919	Steen, Ken	SWS	Burnaby, BC	5775	Westbrook, Garry	SWS	Campbell River, BC
3822	Steinson, Dustin	WD I	Vancouver, BC	5884	Westfall, Theodore	SWS	Lac Le Jeune, BC
5673	Stelmack, David	WD II	Chilliwack, BC	5836	Widney, Jon	BWD	Haines Junction, YT
5812	Stern, Fred	SWS	Lund, BC	5822	Wiens, Don	WT I	Vanderhoof, BC
5714	Stewart, Barnett	SWWS-L	New Hazelton, BC	5822	Wiens, Don	MWWT I	Vanderhoof, BC
3789	Stewart, Bill	WD II	Christina Lake, BC	5833	Wightman, Gregory	WD I	Ladner, BC
5882	Stuart, Earl	SWS	Westbank, BC	5833	Wightman, Gregory	WWC I	Ladner, BC
5750	Stubbs, Ian	SWS	Chilliwack, BC	5784	Wilbur, Lynn	SWS	Garibaldi Highlands, BC
5738	Suna, Yosef	WD I	Nanaimo, BC	5703	Wilkinson, Harry	SWS	Terrace, BC
5866	Susas, Celso	WT I	Coquitlam, BC	5864	William, James	OIT	Nemiah Valley, BC
1826	Tack, Edmond	MWWT III	Surrey, BC	4483	Williams, John	WD I	Tofino, BC
5490	Tamboline, Grant	WD I	Salt Spring Island, BC	5821	Wilson, Cameron	OIT WD	Kaslo, BC
5736	Thompson, Graham	WD I	Coquitlam, BC	5872	Wilson, Samuel	WD I	Maple Ridge, BC
3029	Todd, Tom	WD I	Maple Ridge, BC	5792	Winger, William	SWS	Keremeos, BC
4117	Tonnensen, William	MWWT II	Carmacks, YT	5895	Winstanley, Derek	SWS	Prince George, BC
5783	Toutain, Didier	SWS	Whistler, BC	5206	Wishlaw, James	WD I	Brentwood Bay, BC
4733	Tucker, Andrew	CH	Whistler, BC	5885	Wittich, Rodney	SWS	Hedley, BC
5883	Twidale, Darren	SWS	Lac La Jeune, BC	5704	Wooley, Trent	SWS	Quesnel, BC
5721	Twiss, Grant	OIT WD	Dawson Creek, BC	5727	Worth, Wayne	WD I	Prince George, BC
5721	Twiss, Grant	OIT WT	Dawson Creek, BC	3681	Worthington, James	WD II	Sorrento, BC
4365	Typusiak, Robert	CH	Oliver, BC	5705	Woskett, Max	SWS	Burns Lake, BC
5708	Vainio, Mark	SWS	Faro, YT	5865	Wood, Edward	WWC I	Langley, BC
5742	Vandermeer,	WD I	Canoe, BC	5774	Wood, Robert	SWS	Terrace, BC
5742	Vandermeer,	OIT WWT	Canoe, BC	5763	Wood, Todd	WD I	Nanaimo, BC
5801	Varcoe, Thomas	WD I	Maple Ridge, BC	5846	Woods, Daniel	SWS	Victoria, BC
857	Verhagen, John	WWC II	Saanichton, BC	5755	Yoon, Ik Soo	SWS	Nanaimo, BC
5905	Vermegen, Simon	MWWT I	Cobble Hill, BC	3960	Young, Brian	WWC I	Richmond, BC
5735	Villeneuve, Dylan	WD I	Surrey, BC	5810	Young, Robert	SWS	Gibsons, BC
3235	Volpatti, Eric	WD II	Montrose, BC	1842	Zentner, Gary	CH	Okanagan Centre, BC
1233	Wagner, Randy	WD II	Salmon Arm, BC	3328	Ziefflie, Brent	WWC II	Mission, BC
5741	Walczak, Robert	WD I	Victoria, BC				
1103	Walden, Brent	WD II	Whitehorse, YT				
4864	Walker, Glen	WT I	Kaslo, BC				
5855	Wallbridge, David	SWS	Vancouver, BC				

## NEWLY CLASSIFIED OR UPDATED FACILITIES

Facility No	Facility Name	December 1, 2005 to April 30, 2005	Classification / Level	City/Province
1432	Adams Lake First Nation Arnouse Small Water System	SWS	Chase, BC	
1433	Adams Lake First Nation Sahhaltkum 1R#4 Small Water System	SWS	Chase, BC	
1400	Alkali Lake Bench Subdivision Small Wastewater System	SWWS-L	Alkali Lake, BC	
1374	Bella Bella Wastewater Collection System	WWC II	Waglisla, BC	
1373	Bella Bella Wastewater Treatment Facility	MWWT I	Waglisla, BC	
1375	Bella Bella Water Distribution System	WD II	Waglisla, BC	
1376	Bella Bella Water Treatment Plant	WT III	Waglisla, BC	
1364	Camp 5 Small Water System	SWS	Kemano, BC	
1369	Camp Mountain View - Salvation Army Small Water System	SWS	Houston, BC	
1363	Cdn. Forest Products (CANFOR) Vavenby Small Water System	SWS	Vavenby, BC	
1380	Cedar Lane Water District Small Water System	SWS	Saltspring Island, BC	
1415	Chinook Cove Small Water System	SWS	Barrier, BC	
1386	City of Burnaby Wastewater Collection System	WWC IV	Burnaby, BC	
1402	City of Langley Water Distribution System	WD III	Langley, BC	
1414	Coal Creek Small Water System	SWS	Barrier, BC	
1407	Copper Ridge Subdivision Small Water System	SWS	Grand Forks, BC	
1401	Crystal River Court Ltd. Small Water System	SWS	Hope, BC	
877	Cultus Lake Holiday Park Small Water System	SWS	Cultus Lake, BC	
138	District of Chetwynd Wastewater Treatment Facility	MWWT I	Chetwynd , BC	
522	District of Stewart Wastewater Treatment Facility	MWWT I	Stewart, BC	
1382	G.E. Bonner Middle School Wastewater Treatment Facility	MWWT I	Mill Bay, BC	
1383	Gibson-McNeil Water Users Community Small Water System	SWS	Boston Bar, BC	
1416	Glasier Estate Small Wastewater System - Lagoon	SWWS-L	Mission, BC	
1362	Grouse Mountain Resorts Water Treatment Facility	WT II	North Vancouver, BC	
1378	Hide-Away Resort Ltd. Small Water System	SWS	Albion, BC	
1365	Kemano Bay Small Water System	SWS	Kemano, BC	
1367	Kemano Community Small Water System	SWS	Kemano, BC	
1379	Kilby Museum & Campground Small Water System	SWS	Harrison Mills, BC	
466	Kingfisher Oceanside Inn Wastewater Treatment Facility	MWWT II	Courtenay, BC	
1394	Kitami Japanese Restaurant Small Water System	SWS	Harrison Hot Springs, BC	
1395	Lighthouse Landing Estates Pollution Control Centre	SWWS-M	Deep Bay, BC	
1388	Line Creek Mine - Mine Services Small Water System	SWS	Sparwood, BC	
1389	Line Creek Mine - Process Plant Small Water System	SWS	Sparwood, BC	
164	Mara Water Distribution System	WD II	Sicamous, BC	
1408	Morris Valley Wastewater Treatment Plant	MWWT II	Agassiz, BC	
550	Mt. Washington Alpine Resort Water Distribution System	WD II	Mount Washington, BC	
1372	REO Rafting Small Water System	SWS	Boston Bar, BC	
1377	Riondel Community Small Water System	SWS	Riondel, BC	
1406	Rogers Pass Wastewater Collection System	WWC I	Revelstoke, BC	
1404	Rogers Pass Wastewater Treatment Plant	MWWT III	Revelstoke, BC	
1405	Rogers Pass Water Distribution System	WD II	Revelstoke, BC	
1403	Rogers Pass Water Treatment Plant	WT III	Revelstoke, BC	
1417	Sage Mesa Water & Public Service Co. Ltd. WD System	WD II	Penticton, BC	
1381	Scott Point Water District Small Water System	SWS	Saltspring Island, BC	
1366	Seekwyakin Camp Small Water System	SWS	Kemano, BC	
1399	Soowahlie Indian Band Small Water System	SWS	Cultus Lake, BC	
1393	The Beaches Small Wastewater System	SWWS-M	Cranbrook, BC	
1371	Thom Creek Ranch Small Water System	SWS	Chilliwack, BC	
1370	Thompson River Estates Utility Ltd. Small Water System	SWS	Savona, BC	
29	Town of Lake Cowichan Wastewater Treatment Facility	MWWT I	Lake Cowichan, BC	
1387	UVic Aquatic Research Wastewater Treatment Facility	MWWT IV	Victoria, BC	
1411	Van West Water Utility Small Water System	SWS	Whistler, BC	
1368	Vanderhoof Weigh Scale Small Water System	SWS	Vanderhoof, BC	

## NEWLY CLASSIFIED OR UPDATED FACILITIES

Facility No	Facility Name	December 1, 2005 to April 30, 2005	Classification / Level	City/Province
31	Village of Salmo Wastewater Treatment Plant		MWWT II	Salmo, BC
1413	Watutco Enterprises Ltd. Small Water System		SWS	Black Creek, BC
1396	West Moberly Small Wastewater System		SWWS-M	Moberly Lake, BC
1397	West Moberly Water Distribution Facility		WD II	Moberly Lake, BC
1398	West Moberly Water Treatment Facility		WT III	Moberly Lake, BC
1385	Winters Inn Small Water System		SWS	Maple Ridge, BC
1357	Yalis Wastewater Treatment Plant		MWWT II	Alert Bay, BC
1397	West Moberly Water Distribution Facility		WD II	Moberly Lake, BC
1398	West Moberly Water Treatment Facility		WT III	Moberly Lake, BC
1385	Winters Inn Small Water System		SWS	Maple Ridge, BC
1357	Yalis Wastewater Treatment Plant		MWWT II	Alert Bay, BC

**Certification Quiz Answers:** 1. C 2. B 3. B 4. D 5. A 6. B 7. C 8. C 9. C 10. D 11. D 12. B 13. B 14. A 15. A

## Garden Hydrants!

Ever wonder where older hydrants end up? Gary Portelance of Wolseley Waterworks in Surrey (which supply waterworks parts) has a number of hydrants in his yard in Port Coquitlam, including one set up as a sprinkler. Some of the hydrants Gary has include old Kennedy and Terminal City brands.



Kennedy hydrant



TC No. 1 hydrant



TC unibody hydrant



TC C71P hydrant

### MAURICE J. LEVESQUE JULY 9, 1953 – JULY 30, 2006

It is with deep sadness that we announce the sudden and unexpected passing of a fellow operator. Maurice Levesque was a graduate of the water and wastewater program at Malaspina College. He became a certified operator in 1983 while working at the J.A.M.E.S wastewater treatment plant in Abbotsford. In 1988, Maurice returned home to Vancouver Island where, for the past 18 years, he worked at the Comox Valley Water Pollution Control Centre. Maurice will be sadly missed by his friends and colleagues at the Comox Strathcona Regional District. Maurice was laid to rest in Port Alberni on August 18, 2006.

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# UPCOMING EVENTS

## TRAINING OPPORTUNITIES

EVENT / COURSE	DATE	LOCATION
Wastewater Collection I	December 11 – 15, 2006	Kelowna
Dam Inspection & Maintenance	February 7, 2007	North Vancouver
Water Distribution I	February 5 – 9, 2007	Victoria
Wastewater Collection II	February 5 – 9, 2007	Victoria
Water Quality for Distribution Operators	February 5 – 7, 2007	Victoria
Cross Connection Control	February 5 – 9, 2007	Victoria
Small Wastewater Systems	February 5 – 6, 2007	Victoria
Small Water Systems	February 7 – 8, 2007	Victoria
Confined Space	February 5, 2007	Victoria
Shoring & Utility Awareness	February 6, 2007	Victoria
Water Sampling: Source to Tap	February 7 – 8, 2007	Victoria
Leak Detection	February 9, 2007	Victoria
Water Quality for Distribution Operators	March 26 – 28, 2007	Sechelt
Water Distribution I	April 30 – May 4, 2007	Vancouver
Water Distribution II	April 30 – May 4, 2007	Vancouver
Water Distribution III	April 30 – May 4, 2007	Vancouver
Water Treatment I	April 30 – May 4, 2007	Vancouver
Water Treatment II	April 30 – May 4, 2007	Vancouver
Wastewater Collection I	April 30 – May 4, 2007	Vancouver
Wastewater Collection II	April 30 – May 4, 2007	Vancouver
Wastewater Collection III	April 30 – May 4, 2007	Vancouver
Wastewater Treatment I	April 30 – May 4, 2007	Vancouver
Wastewater Treatment II	April 30 – May 4, 2007	Vancouver
Wastewater Treatment III/IV	April 30 – May 4, 2007	Vancouver
Chlorine Handling	April 30 – May 4, 2007	Vancouver
Cross Connection Control	April 30 – May 4, 2007	Vancouver
Small Water Systems	April 30 – May 1, 2007	Vancouver
Small Wastewater Systems	May 2 – 3, 2007	Vancouver
Unidirectional Flushing	May 4, 2007	Vancouver
Please phone the BCWWA at 604 433 4389 for information on the above courses or check their website at <a href="http://www.bcwwa.org">www.bcwwa.org</a> .		
ECCP Annual General Meeting	April 30, 2007	Vancouver
BCWWA Annual Conference	April 21 – 25, 2007	Penticton

## ECCP CERTIFICATION EXAMINATIONS

Operators wishing to write certification exams must apply to the ECCP by written application complete with job description no later than two weeks prior to the exam session. Exam fees are payable to the ECCP office before the time of writing and may be paid by Visa or Mastercard. Exam application forms can be downloaded from the ECCP web site at [www.eccp.org](http://www.eccp.org).

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