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JUNE 2013 • NUMBER 125

# BRITISH COLUMBIA OPERATORS Digest



**EOCP  
Call for  
Nominations  
Deadline is  
June 28, 2013  
(see page 2)**

## Thank you Bill!

One of our founding members and only Executive Director to date has retired. Thank you Bill Hyslop, for your countless years of volunteering and managing the EOCP. Bill



**Bill Hyslop**

was instrumental in getting voluntary certification in BC introduced and off the ground. In the early days it was called British Columbia Water and Wastewater Operators Voluntary Certification Program. Bill was a volunteer with the program for numerous years before being hired on as its first Executive Director. Bill's wealth of knowledge was something he was happy to share with staff. They learned a great deal from him. Bill was also more than happy to share his experience with the EOCP Board of Directors over the years. Bill has also been the recipient of numerous awards during his career. His latest award was the Jess Jones Excellence in Service Award from ABC which was presented to him in honour of his contributions to the certification industry and to the Association of Boards of Certification. We wish Bill and his wife Judi the best during their travels.

## Environmental Operators Certification Program

The BC Operators Digest is the official newsletter of the Environmental Operators Certification Program. Submissions for publication in the Digest are welcome. Please email the editor Brian Thorburn at [bthorburn@epcor.com](mailto:bthorburn@epcor.com). Changes of address, annual dues, Continuing Education Requirements, 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

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### EOCP OFFICE STAFF

**Kim Eames** Office Manager  
**Stephanie Hall** Office Assistant  
**Heather Wallace** Office Assistant

The Environmental Operators Certification Program is a charter member of the Association of Boards of Certification and is a registered society with more than 3,700 active members.

### 2013 Board of Directors

**Mike Gosselin** President  
**Pat Miller** Vice President  
**Brian Thorburn** Treasurer  
**Chris Brown** Secretary

#### Directors

**Darryl Bjorgaard** **Shawn Sanders**  
**Eric Jackson** **Bob L. Smith**  
**Tim Lambert**

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201 – 3833 Henning Drive  
Burnaby, BC V5C 6N5

## EOCP Call for Elections

The EOCP Board elections are coming up. There are 4 positions available. Two Operator positions, one consultant representative, and one government representative. This year's nominating committee is Darryl, Bjorgaard, Eric Jackson, and Parish Miller.

The following nominees have already agreed to run in the upcoming election.

Consultant  
Representative: **Shawn Sanders**

Government  
Representative: **Tim Lambert**

Operator  
Representatives: **Mike Gosselin**  
**Tim Lambert**

The deadline for submitting nominations is June 28, 2013. Please contact the EOCP office. The results of the EOCP election will be announced at the EOCP Annual General Meeting this September in Nanaimo, BC.

## Electronic EOCP Newsletter

Operators, if you are reading this newsletter in hard copy and would prefer to do your part to reduce your carbon footprint by receiving an electronic copy, please contact the office at [eocp@eocp.ca](mailto:eocp@eocp.ca) to ensure that we have your correct email and contact information.



## Digest Advertising Opportunities

Business car-sized ads are available for \$75 per issue or \$250 for four issues, GST included. For ads of other sizes, please contact the EOCP office.



# Second Annual EOCP Certified Operator of the Year call for nominations

The EOCP has participated in an Operator of the Year recognition award for many years but has never had its own award. As the EOCP moves closer to a Professional Operator designation, it was decided to create such an award that recognizes a true leader among the certified Operators.

For years it has been recognized that there are a few Operators in BC and Yukon who go above and beyond doing a good job; they provide an example for others of the many facets of being an Operator, particularly in supporting the activities of other Operators. They take extra training, they make the extra effort to support their fellow Operators, and teach others what they have learned through many

years of working in the field. Often they encourage others to become more involved including attending training opportunities and pushed certification long before it was mandatory. They go out of their way to help everyone in the water and wastewater field, often at the expense of their own advancement or what would otherwise be their own personal time. They volunteer to help others, they make presentations, they serve on committees, and all while doing the things that are necessary to be considered "good at their job." If you know someone who may qualify, please submit their name to [eocp@eocp.ca](mailto:eocp@eocp.ca) and put "EOCP Certified Operator of the Year" in the subject line.

## EDITORIAL

### The Training Registry and the CEU Requirement



There are probably numerous Operators out there that may think that they don't need to pay much attention to the CEU requirement to remain a valid Certified Operator. I can always catch up on my CEU's in the next certification renewal cycle or what is going to happen to me if I don't? This has been allowed in the past and is still allowed somewhat in regards to the catching up part of the CEU's in the next renewal period. Things are changing with the Operator Certification Programs that everyone should be aware of.

Canadian certification programs recently completed the Best Practices document for Certification Programs to follow. This may take some time to implement. As well, the Association of Boards of Certification is finalizing the Model Standards for Certification Programs. It basically raises the bar for many Certification Programs. Most Certification Programs are already at this level but some are not.

As there is a movement to recognize Operators for the professional job that they do and to illustrate the importance to health and the environment that we

protect, there is going to be stronger requirements to become and maintain being a Professional Operator. It is important to keep your Operator status current and up to date with taking all the necessary core courses to maintain all your certification tickets if you have multiple ones. Some Certification Programs do

not allow lapses for CEU requirements not met. If you don't have the necessary CEU's to keep up your certification then you are no longer a Certified Operator period. If you want to become certified again you have to start at the entry level. This could occur in the future in many more Certification Programs in North America. BC was late coming to the table in regards to requiring CEU's for certificate renewal but many other states and provinces have been requiring this for years and it's almost a regular part of the job and mindset that they will get the necessary CEU's to maintain their certification.

Continuing education or professional development is a valuable thing. It can help you remain current on new and changing regulations, learn new treatment techniques and processes, or brush up some things that you may have forgotten or you will even learn new things. Everyone is usually able to get something out of a course that they didn't know before.

This is where the Training Registry can assist you for looking for a certain type of course. It is a very useful tool that should be explored on the EOCP

website to see what is offered. If you haven't looked at the Training Registry website, I highly recommended checking it out and seeing what it is all about. If you have been doing a certain job or task for over 3 years and are proficient in it, you can qualify to become an instructor for that job or task. If you are already training people in your utility on a regular basis, it's a fairly painless process. This is a great too for suppliers as well. If some of your suppliers are giving you training courses on their equipment, processes, etc. that are longer than 3 hours, then they too can become qualified instructors with approved courses. Make sure that you ask any supplier or consultant who is supplying you with training if they are entered into the Training Registry. The EOCP recently put on a presentation at the BCWWA conference in Kelowna on how suppliers can join the Training Registry.

It only takes getting qualified as an instructor, writing up a lesson plan for a certain length of time for the course and following the process on the Training Registry website. You learn new things every time you take a course and also usually every time you teach a course. Speaking from experience, I have been teaching the same course for a couple of years now and every time that I teach it, I learn something new. With the Training Registry and the numerous courses offered through training associations like BCWWA, MTS, TRU, Okanagan College and numerous other agencies, there's never been a better time to be a Certified Operator.

# Tkemplups Indian Band Water

**T**he TIB water treatment plant is staffed by three TIB Band Members and are all EOCP certified operators. We have a great working relationship with the City of Kamloops Water treatment plant and have done numerous tours for courses being offered within the city for BCWWA and also for the Thompson Rivers University Water quality program.

## History

The Tkemplups Indian Band Water treatment plant was constructed in 1998 after a small pilot program determined that conventional water treatment would be the best technology for the

water. The headwaters of Shuswap Lake feed the South Thompson river system and has many of the concerns that source water with agriculture, homes, highways and railway systems near it could have with potential and already occurring contamination issues. Seasonal turbidity events that have increased turbidity from 2 NTU to over 250 NTU have been recorded on the South Thompson river. Therefore it reinforced the idea of having a water treatment plant that could provide a safe, reliable drinking water to the TIB membership and to any customers on the TIB water distribution system.

## Plant Process Summary

The TIB plant receives water from the South Thompson River via an 850 mm water intake pipe that leads into a raw water well located in a low-lift pump station below the main treatment plant. Irrigation pumps that provide irrigation water and also fire protection for Sun River's development are located in Low-lift station well. Also, an irrigation pump for band members is located in lower lift station. Four vertical turbine pumps supplying treatment plant with raw water are housed in low-lift building. They discharge into raw water header where injection points for coagulant are then water mixes with coagulant hydraulically through a flash mixer.

Water that has been mixed with coagulant begins forming floc that goes through flocculation and sedimentation basins. This allows heavier floc particles that have formed to settle out and then water goes under then over up flow clarifiers located in sedimentation basins.

The TIB plant has two dual media filters consisting of anthracite and sand and has a filtering rate of 8,300 m<sup>3</sup> each. Currently, the filtration requirement has only required 50% of the capability of the filters for customer usage. Filters are



*Aerial hot air balloon photo of  
Tkemplups Water Treatment Plant*

TIB plant. The TIB water treatment plant was designed by KWL-CH2M. It took just under two years to complete the facility and on May 4th 1999 the Class 4 TIB water treatment plant was commissioned.

## Raw Water Source

The South Thompson River supplies the TIB water treatment plant with a consistent raw water supply for treatment purposes and also irrigation

# Treatment Plant (Kamloops)



**Pipe Gallery-Main Treatment Plant**

**Flocculation-Sedimentation-Filtration Area**



backwashed according to head loss on filters and turbidity readings on inline turbidity meters. Backwash for filters consist of an air scour, low wash, high wash, then second low-wash and finally a fill-up where filter is allowed to rest before filtering to waste for several minutes before being allowed back on-line to clear-well. Water for back wash comes from the clear well.

Filtered water going to clear well is dosed with sodium hypochlorite 12% and then goes through opposite end of clear well from distribution pumps to allow for contact time. A maze of rubber curtains hangs in clear well to assist in the CT and disinfection process. Water from clear well is then pumped to four different reservoirs

within the TIB distribution system.

TIB distribution system is a level II and has four reservoirs within the system. A 330 m<sup>3</sup> reservoir located east of the plant supplies a more wide spread population as it is farm land. A large 3.5 million liter reservoir supplies an industrial park and also several modular home parks and the general band membership homes. Two reservoirs located above the Sun Rivers golf resort community are supplied by booster pumps off the main Mount Paul system.

*Thanks to Darrel Bennett. An EOCP travel mug has been sent to him for this plant profile.*



**Tkemlups Indian Band Main Water Treatment Plant**

## Plant Design Parameters

### Raw water intake in the South Thompson River

Design Flow (Ultimate) . . . . . 48,300 m<sup>3</sup>

### Raw Water Pump Station

Water Treatment Supply pumps

Number . . . . . 4

Total Capacity . . . . . 23,830 m<sup>3</sup>/d

Firm Capacity

(with largest pump out

of service) . . . . . 15,980 m<sup>3</sup>/d

TDH . . . . . 20-23 m

### Sun Rivers Irrigation pumps

Number . . . . . 2

Capacity, each . . . . . 7,130 m<sup>3</sup>/d

TDH . . . . . 127.5 m

### Floc Tanks

Type . . . . . Hydraulic

Number . . . . . 4 tanks, 3 cells each

Nominal retention time

@ 8,100 m<sup>3</sup>/d . . . . . 69 minutes

### Plate sedimentation tanks

Number . . . . . 2

Maximum loading rate

@ 8,100 m<sup>3</sup>/d . . . . . 0.54m/h

### Filters

Type . . . . . dual media

Number . . . . . 2

Area/filter . . . . . 34 m<sup>2</sup>

Maximum filtration rate

@ 8'100 m<sup>3</sup>/d . . . . . 4.9 m/h

### Treated Water Pump Station

Mount Paul System pumps

Number . . . . . 4

Total Capacity . . . . . 21,800 m<sup>3</sup>/d

Firm Capacity (with

largest pump off) . . . . . 14,710 m<sup>3</sup>/d

East Shuswap system pumps

Number . . . . . 2

Capacity, each . . . . . 1,140 m<sup>3</sup>/d

TDH . . . . . 72 m

Backwash Pumps

Number . . . . . 2

Capacity, each . . . . . 24,500 m<sup>3</sup>/d

TDH . . . . . 11 m



*As there has been a shortage of System profiles submitted to the Digest Editor for publication in the EOCP newsletter, I have decided to start putting training facility profiles in the newsletter to show all the Operators in BC and Yukon, the excellent training facilities offered to Operators and the hands-on training available. We will be highlighting the various hands-on training facilities such as MTS, Thompson Rivers University, Okanagan College, and Yukon College. If any Operators know of any such other excellent training facilities, please contact me so that I can include it in a future newsletter.*

*The second in our series of training facility profiles is Thompson Rivers University Water Treatment Technology Program in Kamloops BC.*

## THOMPSON RIVERS UNIVERSITY

### Water & Wastewater Education

Billions of dollars are funneled into Canada's water and wastewater industry every year<sup>1</sup> in attempts to clean and control the over 150 billion litres of untreated and under-treated wastewater that enter and exit our waterways annually, according to Environment Canada.

Thompson Rivers University (TRU) is perfectly positioned to assist in the control and treatment of water and wastewater through its diverse set of post-secondary programs and coursework developed to meet the varied education and training needs of the water industry in Canada and internationally.

TRU's Water Treatment Tech-

nology program offers a diploma, a certificate and continuing education courses (see below for general information) to prepare new students and current water and wastewater operators to operate and maintain water treatment and distribution systems; wastewater treatment and collection systems; reuse and disposal systems; and water quality monitoring.

### Water Treatment Technology Diploma

Certificate in Water & Wastewater Utilities. 66 courses for water industry operators (three continuing education units each).

The programs and courses are established to meet skills and competencies defined by the Association of

<sup>1</sup>Since 2006, the Government of Canada has committed over \$2.3 billion to wastewater infrastructure, according to Environment Canada.

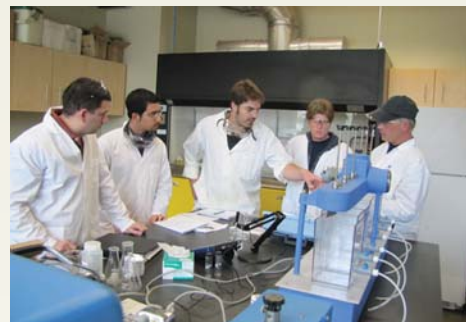
Boards of Certification. The courses have been designed to educate students in fundamental to advanced chemistry, microbiology, mathematics, mechanical, electrical, instrumentation and treatment technologies as applied in the water industry.

Additionally, as a gateway into a career in the water industry or advancement for current operators requiring university upgrading, the program provides distinctive educational opportunities, with courses in environmental law, occupational health and safety, industrial communications, Supervisory Control and Data Acquisition (SCADA) systems, source protection, water monitoring, and utility management.

Importantly, students are provided the opportunity to train and experience full-scale operations through onsite classrooms and research laboratories housed in the Kamloops Centre for Water Quality.

This provides students with experience in maintenance, troubleshooting, laboratory analysis and system operations.

It is the partnership between TRU, the City of Kamloops, General Electric Water and Process Technologies (previously Zenon Environmental Inc.) that formed the TRU Water Education Research Centre located within the Kamloops Centre for Water Quality.



**Water & Wastewater Laboratory**



**Cross Connection Control and Backflow Prevention Training**



**Kamloops Centre for Water Quality and home of TRU Water and Wastewater Programs and Research**

Students also have access to laboratory facilities located within the School of Trades and Technology on TRU's Kamloops campus where they receive hands-on and applied training in electrical devices, instrumen-



TRU Students in Pump Maintenance Lab

tation, cross connection controls and mechanical systems.

TRU's partnership, hands-on training and state-of-the-art water treatment facility, means the University's water and wastewater program is unique in North America. Further, its flexible delivery options, where the student can engage in face-to-face classroom learning or online distance studies, enables anyone interested in pursuing a career or enhancing professional development in the water industry can do so. The distance delivery model provides accessibility to students and operators living anywhere in the world to accredited and quality education and training.

For more information about TRU's Water and Wastewater programs and courses, which are accredited by Environmental Operators Certification Program (EOCP) for continuing education units (CEUs), please visit [www.tru.ca/trades](http://www.tru.ca/trades) or contact Satwinder Paul by email at [spaul@tru.ca](mailto:spaul@tru.ca) or by phone at 250.371.5955.



Graduates of Water Treatment Technology with the TRU President Dr. Alan Shaver (Centre)

## Operators Profile

### Tkemlups Indian Band

The Tkemlups Indian Band Water Treatment Plant is an EOCP class IV facility with a class II distribution system. Commissioned in May 1999, the Tkemlups Indian Band hired two band members and subsequently hired

original operator Darrell Bennett as the plant supervisor. Darrell has been with the TIB water treatment plant since March of 1999. He is an EOCP certified class III water treatment operator. Darrell is half way through the Thompson Rivers University diploma program in Water & Wastewater Utilities program. He also is the chair for the TRU curriculum development committee which has representatives from all aspects of the water & wastewater industry. TIB operators Mel Paul and Todd Coles have recently secured their EOCP class III water treatment licenses. Both are graduates of the TRU Water treatment diploma program in 2011.



Operator Todd Coles cleaning floc tanks



Operator Mel Paul and Plant Supervisor Darrell Bennett



Sechelt Water Services  
Box 2293  
Sechelt, BC  
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Toll Free: (866) 248-2886 • [www.flotechpump.com](http://www.flotechpump.com)



# Ministry of Health Update

The Ministry of Health has several initiatives underway on drinking water.

The EOCP, Ministry of Health and Ministry of Environment have embarked on a project to evaluate the classification of drinking water and wastewater systems and the associated staffing compliment for facilities. The project will develop recommendations for the expansion of capabilities within the drinking water and wastewater facilities classification program and certification of their operators. The goal is to improve the classification system to better handle the career needs of operators, the staffing considerations of employers and the regulatory concerns of the ministries. The project is being supported by a group of advisors from municipalities. More information on this project will be forthcoming.

The Ministry of Health has developed and posted new surface water treatment objectives:

[http://www.health.gov.bc.ca/protect/dw\\_treatment-objectives.html](http://www.health.gov.bc.ca/protect/dw_treatment-objectives.html). These objectives clarify the minimum expectations for treating surface drinking water sources in B.C. and will be of use to regulators, water suppliers, local government and the general public. The Ministry is currently developing an assessment guide for "ground water under direct influence" and associated ground water treatment objectives. These will be posted in 2013.

The Ministry of Health along with the Ministry of Community, Sport and Cultural Development, and the Ministry of Forests, Land, and Natural Resources continue to work with the Union of BC Municipalities (UBCM) Small Water System committee. The UBCM is developing recommendations for addressing the sustainability of small water systems. At the last UBCM convention, an update on

the work was presented. The presentation can be viewed at the UBCM website:

<http://www.ubcm.ca/assets/library/Convention/Convention~2012/Presentations/September~25/Small~Water~Systems~Working~Group/UBCM.Small%20Water%20Systems%20Working%20Group.pdf>

## ABC Update

The ABC CEO and President both attending the recent BCWWA Conference and EOCP Board meeting in Kelowna. ABC is pushing ahead with making a professional designation for Operators as we are the front line of defense in regards to public health and the environment. As well, Web Based Testing (WBT) is being done instead of traditional exam sessions in numerous states and provinces. BC is looking at options for adopting this way of delivering Operator exams.

For more information about ABC, please contact them:

Association of Boards of Certification  
2805 SW Snyder Bld, Suite 535  
Ankeny, IA 50023  
Phone 515-232-3623  
Fax 515 965-6827  
Email [abc@abccert.org](mailto:abc@abccert.org)  
[www.abccert.org](http://www.abccert.org)

## Facility Classification

We have made some changes for facilities classifications on our website to make the classification process a little easier. Check it out at [www.eocp.ca](http://www.eocp.ca).

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# BCWWA Top-Ops and Board Updated Re-cap

The annual BCWWA Conference was held in Kelowna this year with numerous Operator events and presentations taking part. The Top Ops event and pump tear down events took place during the tradeshow events with numerous teams taking part. It's a great event with many Operators involved, so make sure to get your team in for the competitions next year. We would like to thank David Icharia at BCWWA for some great pictures taken at the event.



Guest judge Brent Herring from ABC (centre) along with Bill Hyslop and Brian Thorburn

## Top Ops Winners

### 1ST PLACE: Capital Regional District

Steve Whipps  
Jason Dales  
John Ranns

### 2ND PLACE: District of Lake Country

Bryan Mazda  
Davin Larsen  
Jeff Coombs

### 3RD PLACE: Regional District of Nanaimo/EPCOR

Heather Dorken  
Sean Mercer  
Kris Hagen

Visit [www.eocp.ca](http://www.eocp.ca) for a video of this year's Top Ops.



## Operators!

Operators! Help make the Top Ops even better. Submit your questions for the next Top Ops. It can cover wastewater treatment and collection or water treatment and distribution. Just submit with questions that either have a true or false answer or a fill in the blank type question. Please send your questions to Shawn Sanders at [shawn@mtsinc.ca](mailto:shawn@mtsinc.ca)







# Operator Tools

Do you have a picture worth printing? Send it in to the editor at [bthorburn@epcor.ca](mailto:bthorburn@epcor.ca) along with a little explanation and we will publish it in the next newsletter. Thank you Jim Brown for this edition's picture! He receives an EOCP travel mug.

*Submitted by Jim F. Brown*

I have a tool that might make life easier when working on most fire hydrants.

**OPERATING PROCEDURE:** If you have a fire hydrant that is slow in draining or not at all. Remove a 2.5" port cover from fire hydrant and install this tool.

Open the ball valve, open the hydrant completely when all the air is displaced with water, shut off the ball valve, the gauge will show you the static pressure of that hydrant (good to know), also if there are leaks in the fittings, shut off the hydrant, open the ball valve, if there is very little suction, then the drain ports of the hydrant is restricted. With the ball valve open hook up the quick connect air line to air compressor and push air into

bonnet of hydrant until approximately 100 psi, close ball valve, and you should see the gauge pressure drop as the air pressure is pushing the water out the drain ports. Once the pressure is zero or close to it, check the water level in barrel with (tape sounder), I wouldn't recommend to repeat procedure as the drain field will become over saturated. This procedure is now part of my annual fire hydrant maintenance.



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[www.goslyn.ca](http://www.goslyn.ca)



## New Operators and Operator Upgrades!

Check out the newest and latest upgrades on Operator status. Go to the EOCP website and click on the **Operator Highlights** Tab and then Click on **New Operators** for an up to date list.





# MTS Maintenance Training Systems Inc

## Water Utility Operator Training Centre

### Facility Specifications

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- ✓ Subject matter expert trainers
- ✓ Complimentary beverages & snacks
- ✓ Maximum 12 participants for most courses

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- ✓ Air release valves
- ✓ Submersible turbines
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- ✓ Online primary control valves
- ✓ 30 HP 7 stage line shaft turbine
- ✓ Live hydrants (various manufacturers)
- ✓ Live Backflow Assembly Repair & Maintenance
- ✓ 13,628 Litre (3600 gallon) 3 compartment reservoir
- ✓ A variety of repair couplings & restraints (various manufacturers)
- ✓ Dozens of various manufacturer's backflow preventers from 1/2" to 3"



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#### Outdoor Water Distribution Pipe Gallery

- ✓ Live Hydrants and standpipes
- ✓ Waste water collection manhole
- ✓ Various buried distribution control valves
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- ✓ 200 meters of various types of buried distribution pipe



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- ✓ Several Manholes
- ✓ Lift Station Simulator
- ✓ Reservoirs



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- ✓ Life size live ground water well simulator
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- ✓ 220 / 3 phase / water connections available for portable equipment training



#### Lift Station

- ✓ Lift Station Simulator
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#### Main Training Room

- ✓ Climate Controlled
- ✓ Fully equipped classroom
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Theoretical Training With A Hands On Approach

## NEW OPERATORS AND OPERATOR UPGRADES!

Check out the newest and latest upgrades on Operator status. Go to the EOCP website and click on the Operator **Highlights Tab** and then Click on **New Operators** for an up to date list.

### FACILITY CLASSIFICATION TO MAY 9, 2013

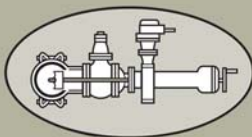
Classification	IV	III	II	I	Other	Total
WD	30	52	169	161		412
WT	17	31	69	11		128
WWC	17	15	67	95		194
MWWT	21	32	91	120		264
IWWT	1		3	0		4
SWS					816	816
SWWS					192	192
Total	86	130	399	387	1008	2011

### OPERATOR CERTIFICATION TO MAY 9, 2012 C-2013 TO PRESENT

Classification	IV	III	II	MUII	I	MUI	OIT	Total
WD	49	164	685	4	772	6	53	1733
WT	28	47	125	2	163	4	34	403
WWC	5	43	383	4	580	9	37	1061
MWWT	83	126	211	5	237	6	33	701
IWWT		4	11		15			30
BWD								35
SWS								622
SWWS						L 81	M 102	183
CH								464
Total								5232

## Keeping your Certification Valid

Some Operators have not been keeping their certification valid; either by not paying their annual dues or by not fulfilling the Continuing Education Requirement (or both!). Your facility requires a certain level of certified Operator and if you are the one and have let your certification lapse, you or your utility could be in violation of your Permit to Operate. Please contact us so we may help you get back into "Good Standing" as soon as possible.



E-Mail:  
PFCLTD@telus.net

P.O. Box 31039 RPO Thunderbird  
Langley, BC V1M 0A9

## PACIFIC FLOW CONTROL LTD

For over 30 years our techniques allow for no disruption of services to customers and critical processes.

Services we perform include:

**Hot/Wet Tapping** for new connections, instrumentation, pipe integrity sampling

**Temporary Line Stopping** for line relocation, replacing defective valves, dead-ending or extending pipe runs

**Valve Inserts** for additional shutoffs or replacing defective valves.



604 888 6363 Toll Free 1 800 585 TAPS(8277) [www.pacificflowcontrol.ca](http://www.pacificflowcontrol.ca)

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