# OPERATOR DIGEST

## WINTER 2024 | NUMBER 159



Quarterly Magazine of the Environmental Operators Certification Program–BC/Yukon

## PLANT PROFILE

## A VISIT TO DAWSON CITY'S WATER AND WASTEWATER FACILITIES Full story P5



June Williams CWP Lake Babine Nation



WHO'S ON THE MOVE Aron Engelhard Levy

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## **OPERATOR** DIGEST

The **Operator Digest** is the official magazine of the Environmental **Operators Certification Program.** 

Submissions for publication in the Digest are welcome. Please email them to the EOCP office at eocp@eocp.ca

Changes of address, annual dues, Continuing Education requirements, exam applications, as well as general enquiries about the program should be addressed to:

### **Environmental Operators Certification Program**

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**Publications Mail Agreement** No. 41498030

The Environmental Operators Certification Program is a charter member of Water Professionals International and is a registered society with more than 4,500 active members.

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## **OPERATOR PROFILE**



### On the Road to Retirement... Maybe?!

### What was your first job?

My first Summer student job was as an archaeology assistant. I then worked in a sawmill – initially green chain then the dry chain. I also worked at the band office in various roles - janitor, transporter, secretary/bookkeeper, receptionist, patient travel clerk, and also as the acting band manager.

### What was your path to becoming an **Operator?**

A job posting came up and I was only one who had a Grade 12 education! I observed the water plant being built from the ground up, and I monitored and did water testing for a year. The funding agent from Indigenous Services Canada (ISC) visited my workplace and asked if I enrolled into training programs as I needed to have CEUs to keep my job as an Operator. I took training in all different areas of water from disinfection to pumps to confined space and water treatment and water distribution all over BC.

I then called Thompson Rivers University (TRU) and enquired about the water program and was advised that it was only for full time students. I informed them I work full time but was interested in the program. The facilitator at the time talked with my funding agent from ISC and started a pilot project for First Nations Operators to take this training part-time. It was a two-year program, but they set it up to four years so that we can do our jobs in our community and take the

course a week out of every month. Thus, I was able to obtain my diploma from the water treatment technology program at TRU. It felt good to be the one who initiated the program for the First Nations Operators.

I also was on the steering committee to start the First Nations Operator Water Net (FNOWN), and I am proud to have received the very first Operator of the Year award from the Environmental Operator Certification Program (EOCP) in 2012.

### How did you pivot from your last position to your current one?

I was unemployed and had to look at options. Fortunately, I was able to use my past training in office work, and my education, and networking.

#### What advice would you give to someone who is currently an Operator or considering becoming one?

Keep records and ask questions if you don't know or don't understand. I found practice and a lot of studying helped me. Also, common sense goes a long way.

#### What are some of your goals in your new position?

To continue with my job as a Water Treatment Operator and train someone to take my place as I plan for retirement.

### What do you do in your spare time?

Gardening, food preservation, cooking, and spending time with my grandchildren.

## **MESSAGE FROM THE DIRECTORS AND STAFF**

### Dear EOCP Stakeholders,

As we start off on the new year, we reflect on 2023 - there were some trials and tribulations, lessons were learned, changes were implemented, and we managed to accomplish a great deal - and we look forward to what 2024 brings.

#### A few updates:

1. We have been working diligently on the rollout of the EOCP's Backflow Prevention/ Cross Connection Control certification that will launch in mid-2024. We have the Need to Know criteria as well as the exam in place – both have been developed in conjunction with some of the leading backflow prevention experts in the industry.

As with other EOCP certifications, if you are a Level I-IV Operator, your annual dues remain the same regardless of how many EOCP certifications you hold - so add the EOCP's Backflow Prevention Assembly Tester to your portfolio and there won't be any increase in your annual dues!

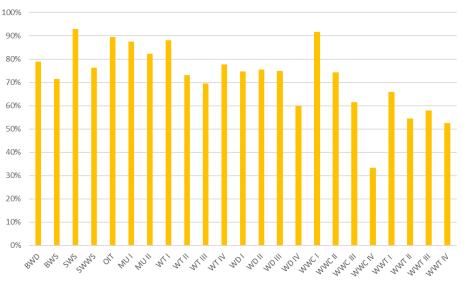
2. Our online collaboration platform, Hivebrite, is now live. Check it out by logging into the CRM and selecting 'Community' in the blue bar at the top. This platform allows you to interact with

other Operators on issues related to water, wastewater, SCADA, exam prep, best practices, etc.

3. Our new site watergeek.ca is live. Associated with this, we now have #watergeek wristbands, stickers, and pencils. These are available to you for the kids coming to your facility for tours. We have also participated in a number of career fairs where we had the opportunity to speak with thousands of high school students about Environmental Operator careers.

4. As promised, we monitor exam pass rates for every exam we offer at the EOCP. A revised exam will be available within a few months for WWT IV, and other exams and Need to Know criteria are under review by Water Professionals International. In the meantime, here is the data for 2023:





Please save the date for EOtec24 from 9 to 11 September **2024**. We have planned a pre-conference workshop, 1.5 days of tradeshow, and 2 full days of presentations – worth a total of up to **1.6 CEUs**. EOCtec24 is a fully hybrid conference so that you can attend in-person, or online!

We are thrilled to secure an amazing keynote speaker: Corey Hirsch, Olympic silver medalist. Canadian Hockey League's goalie of the year. Memorial Cup champion. Western Hockey League champion. Part of the 1994 New York Rangers organization — a young 'Black Ace' when the Blueshirts won their only Stanley Cup in the last 82 years. Corey imbues his story with relatable situations, and in sharing his personal experience, he seamlessly empowers listeners to strengthen their journey towards optimal mental health. Corey's book, 'The Save of My Life - My Journey Out of the Dark' can be ordered by anyone registering for inperson attendance, and Corey will sign your copy for you!

We look forward to seeing you soon!

With best regards,



Tara Macrae **Board Chair** 



Kalpna Solanki President and CEO





## Flexible Operator training

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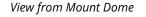




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## DAWSON CITY'S WATER AND WASTEWATER FACILITIES

By Kalpna Solanki CPHI(C) BSc MBA

### Visiting Canada's North

On a recent trip to Whitehorse, I decided to take a bit of a 'detour' to the City of Dawson, and the trip was well worth it. Dawson City, with a population of 1,577 (2021 census), is a fascinating northern community at the confluence of the Klondike and Yukon Rivers and boasts a mixture of First Nations



Clockwise - Marc (left), Kalpna (upper left), TC (upper right), Jonathan (middle right), Michael (right)

heritage and Gold Rush history. The city is marked by Beringia, an Ice Age period which formed its unique landscape, the Tr'ondëk Hwëch'in, who have called this area home for centuries, as well as the Klondike Gold Rush, that put this city on the tongue of stampeders worldwide.

Some things you notice about Dawson City are that the roads are not paved within the historic section of the city, retaining the Klondike Gold Rush town ambience. Also, most of the buildings in the historical area have frontier-style building façades, and there are also several well-preserved frontier-style buildings. Dawson City is also part of the Tr'ondëk-Klondike UNESCO World Heritage Site, announced in September 2023. The Klondike Gold Rush in the late 1800s only lasted a few short years, but its legacy and impact on this region and its indigenous people lives on. More than a Century later, gold mining remains an economic mainstay and has produced close to 14 million ounces of gold in the past 120 years. More recently, tourism has become the main economic driver in this gold rush town and in 2023, Dawson City was chosen by Frommer's Travel Guide as "One of the best places to go" in the World.

So, what about water treatment, water distribution, wastewater collection, and wastewater treatment?

My day started off with a meeting with Jonathan Howe, Public Works Manager with the city of Dawson, and I found out that water and wastewater are handled by different groups. Water Treatment, Water Distribution, and Wastewater Collection are overseen by the City of Dawson. However, Wastewater Treatment is overseen by the Government of Yukon.



Distribution System Pumps

#### Water Treatment

The town's 40-year-old drinking water treatment plant was unable to treat water to meet the Canadian Drinking Water Quality Guidelines. Thus, the Yukon Government started the process to replace Dawson City's aging water treatment plant with a modern facility.

Although the Water Treatment facility is new, consultation with the city's Heritage Advisory Committee was needed to ensure it fit in with the architecture of the surrounding buildings. The Yukon Government retained Associated Engineering to provide design and construction services for a new water treatment facility.

The building façade was designed to replicate an early 1900s cold storage building, reflecting the town's character and rich history. The design also ensured that local materials and trades could be employed for construction to benefit the local economy.

The water source is four GUDI wells



EOCP Certified Bulk Water Delivery Operator Filling Up



Chlorine Gas Injection

around 200 metres away from the facility. Being GUDI wells in close proximity to the river, the water quality is heavily influenced by the river. As is unique to other northern cities, Dawson City has a process to prevent water freezing in the lines during the winter. For larger services such as a 20 plex, there are recirculation systems. However, most homes have a bleeder system that allows for bleeding of water at a rate of around 1 L/min. Whilst bleeders keep the water flowing, they also result in increased demand for treated water, increased volume in the wastewater collection system, as well as an increased load for the wastewater treatment facility.

First, the raw water goes through three banks of cartridge filters. The system involves a two-stage filtration system using 5 $\mu$  and 1 $\mu$  filters. The 5 $\mu$  filters are washable and reusable, cleaned every three months, and replaced every 6 months. The filtered water goes through a UV system, and then is treated with chlorine gas. Due to the proximity of the facility to the residential area of the city,



Fire Pump

there is a chlorine scrubber in place in case there is a leak.

The treated water then goes to two reservoirs with a total volume of 5,560 m3 to allow for a contact time of 6 hours. If the system's distribution pumps cannot keep up with demand, the fire pump kicks in.

In the Winter, water comes in at a temperature of around 2.5°C and goes out at around 5°C. But the heating of the water in the facility during the winter is not enough to keep water flowing through the distribution network when the temperatures drop below freezing, thus the use of bleeders in most of the distribution system.

Water from the facility is distributed throughout the city via a water distribution system, but also via Bulk Water Delivery trucks. This well designed and well operated facility will enable Dawson City residents and visitors to enjoy a safe and reliable source of drinking water for many years to come.



Filters



Boilers to Heat the Water in the Winter

#### **Wastewater Treatment**

For several decades, Dawson City had the ignominious award of being one of Canada's poorest performers on wastewater treatment. The historic city pumped raw sewage into the nearest major water body. A federal search warrant and raid in 2000 found that tested water, screened only for big 'lumps' before hitting the Yukon River, was potentially toxic to fish. The town pleaded guilty to a subsequent Fisheries Act charge, for which the fine was up to \$1 million.

At that time, Yukon's territorial chief justice, Heino Lilles, decided to order the city to build an appropriate wastewater treatment plant rather than paying the fine. Little did he realize that this decision would result in a multi-milliondollar boondoggle, where years later, the discharge from the facility meets the quality parameters but not the volume parameters in the winter months and in the summer meets the quantity parameters, but not the quality parameters.

The complications began around the time of the sentencing, when planners concluded the proposed sewage treatment plant would cost several times the initial estimate. Lilles's judgment required the facility be completed by September 2004, but he granted the first of many extensions when Dawson said it was back to the drawing board. To confuse matters further, the territorial government removed Dawson's mayor and council in 2004 after multiple ambitious projects helped tip the city into bankruptcy.

In 2008, planners got the court-ordered deadline for the sewage project completion pushed back once again, to 2011. But then, a month later, residents voted overwhelmingly in a referendum to block the \$17-million lagoon from being completed at a site near the entrance to town. So, forced back to square one. With the clock ticking, the Yukon government inked a deal with Vancouver-based Corix Water Systems to build a mechanical treatment plant in town, at an estimated cost of \$24.8 million. But deadlines needed to keep being pushed back and costs kept on going up.

The plant was designed and constructed by Corix Water Systems at an estimated cost of \$34.3 million. On 7 July



Influent Sump

## ENVIRONMENTAL OPERATOR TRAINING



2009, the project broke ground when Dawson City partnered with the Yukon government by signing a Memorandum of Understanding to build the project. Start-up testing of the boiler was undertaken in August 2012 and the plant commenced operations by Corix in 2013 following completion of tests. This wastewater treatment facility is the most unique one I have ever visited, and the challenges borne by the Operators who run the facility are quite significant.



Westside Clarifier (Currently Out of Service)

The plant is a mechanical plant located at the lowest part of the city allowing for gravity flow except for a few areas where some lift stations are needed.

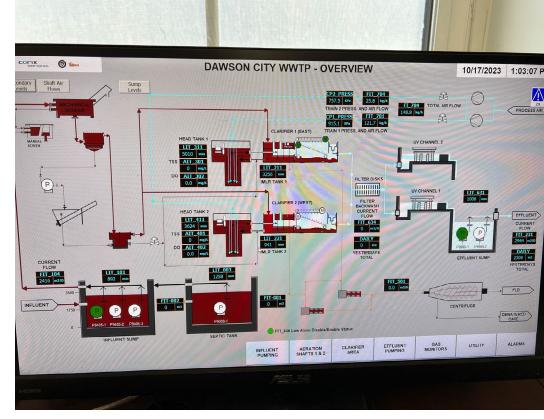
There is an influent sump and pumps push the wastewater through various stages of treatment in the plant. There are mechanical and manual screens in parallel in place. However, typically, only the mechanical screens are used, and the manual screens are used only when the mechanical screens are being serviced. Unfortunately, servicing is needed on a regular basis due to the flushing of wipes.

While I was there, the facility was still in recovery mode from a major process upset due to some local upgrades involving excavation together with a torrential downpour that resulted in large volumes of rocks, gravel, and silt being washed into the system fatally damaging the mechanical screen... and the manual screen needed to be used for almost 8 months.

Exacerbating the problem is that while the mechanical option has a 4mm screen, the manual has a larger aperture bar screen which allows larger objects such as wipes to come through. These are then sometimes found further along in the process in the clarifier and even the aeration tank. When the



One of the Veritreat Chambers



The Full Process

mechanical screen is offline, wipes need to be removed every other day from the impeller in the aeration tank.

Adding to the woes, there is also a problem with flammable liquids coming into the system. To handle this, there is a Flammable Liquid Diverter and organics are evaporated off.

What makes the City of Dawson's wastewater treatment plant so unique is its use of an aerobic activated sludge process called Vertreat (vertical treatment), which consists of two 1.4m diameter shafts installed 100m deep in the ground.

There is an impeller in each tank and the contents are agitated somewhat. The next in the process is a clarifier, then filter disks, and then UV. The solids go through a vertical filter press.

Thus, in addition to not being able to solve some of the critical issues this plant was designed and built for, there are also major challenges related issues such as the 10 filter plates that did not have a process in place for maintenance. These plates weigh around 200 kg when dry, but more than 900 kg when wet. The filter plates need maintenance every two months at the best, and twice weekly the worst times. In addition, the parts are difficult to get, and are expensive costing around \$60,000 during the Summer.

Corix continued to operate the plant, under contract, until February 2017 when Dawson Community Services took over operations and maintenance. Originally, the plant was to be operated and maintained by the City of Dawson, but in 2015 it asked the Government of Yukon to manage the plant until it was fully functional and financially sustainable, and the plant continues to be operated by the Government of Yukon.

Currently, it costs the Government of Yukon and City of Dawson approximately \$950,000 annually to operate the facility. This cost is significantly higher than anticipated and is higher than any other community in Yukon, including the City of Whitehorse. Keep in mind that this is for a population of fewer than 2,000 people usually with an absolute peak of around 5,000 people in the Summer.

In 2019, the Yukon government realized that maybe it needed to cut its losses and pursue a new wastewater treatment plant option. Now, the plan is to go back to the idea of what works in that climate – a sewage lagoon. But where? To date, agreement on a location has not been achieved, and it is unlikely that the project will be completed by the 2026 target date.

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- Feb. 5 9, 2024 Managing People
- Feb. 9, 2024 Lift Station Operations and Maintenance
- Feb. 13, 2024 Managing Inflow and Infiltration
- Feb. 14, 2024 Pumps and Pumping Hydraulics
- Feb. 15, 2024 Municipal Plan Drawing Readings
- Feb. 26 March 1, 2024 Chlorine Handling
- March 12, 2024 Dam Inspection and Maintenance
- March 14, 2024 Process Control and SCADA Fundamentals
- March 15, 2024 Reservoir Maintenance and Cleaning
- March 18 22, 2024 Water Treatment 2
- March 26, 2024 Pumps and Pumping Hydraulics
- March 28, 2024 Water Rights Basics for Groundwater Users in BC
- Apr. 1, 2024 Operational Best Practices in WD
- Apr. 2, 2024 Leak Detection
- Apr. 3, 2024 Dam Safety Management
- Apr. 5, 2024 Unidirectional Flushing
- Apr. 15 19, 2024 Wastewater Collection 3–4
- May 14 15, 2024 Watermain Disinfection for Field Operator
- May 21, 2024 Calculations for Water and Wastewater Operators
- May 22, 2024 Odor and Corrosion Control
- May 23, 2024 Ultraviolet Disinfection
- May 24, 2024 Preventing Waterborne Illness
- May 30 31, 2024 Water Quality and Sampling for Water Systems
- June 10 14, 2024 Wastewater Collection 3–4

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## WHO'S ON THE MOVE Aron Engelhard Levy

## INTRODUCING ARON ENGELHARD LEVY, THE EOCP'S NEW TECHNICAL SPECIALIST!

### What was your first job?

My first job was as a Metallurgy Technician (Co-op Internship).

## What was your path to working in the water/wastewater sector?

I worked in a variety of fields starting from my graduation as a Chemical Biologist. I discovered the incredible detail and skill required to bring clean water to our communities and to preserve the environment while disposing of our wastewater, this made me want to participate in the industry.

## How did you pivot from your last position to your current one?

I made sure to always work hard to keep up with the expectations of my supervisors and always meet the deadlines and deliverables.

#### What advice would you give to someone who is currently an Operator or considering becoming one?

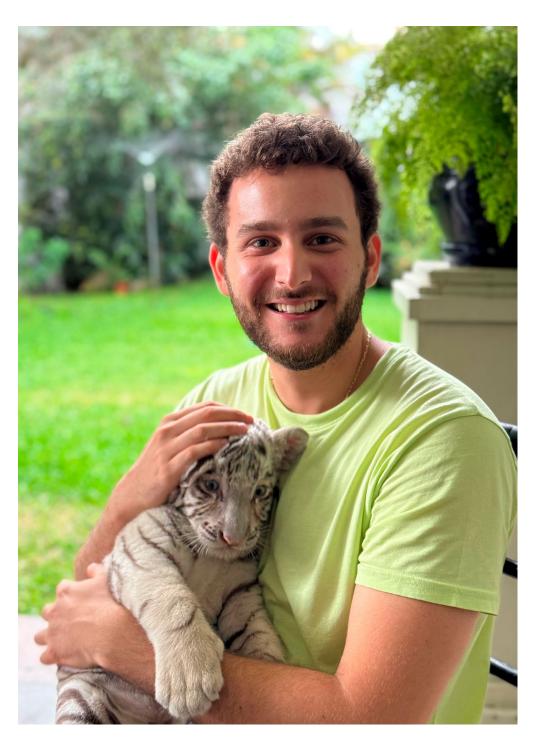
The water/wastewater industry is an incredible field with many opportunities to obtain skills and education as well as to make good living. This means that the more you learn, the bigger the reward. Getting certified is the best way to ensure that our communities have safe, clean drinking water and that our environment is protected.

## What are some of your goals in your new position?

To learn as much as I can from the industry and from the Operators that make this industry by providing us with an invaluable resource. To develop new skills and help the operators have access to better services from the EOCP.

### What do you do in your spare time?

During my spare time, I like traveling and going on occasional road trips. I am no stranger to coffee houses, I love to exercise and dive during the summers.



Aron Engelhard holding a baby bengal white tiger at the El Huayco Animal Sanctuary in Lima, Peru.

## In Memoriam



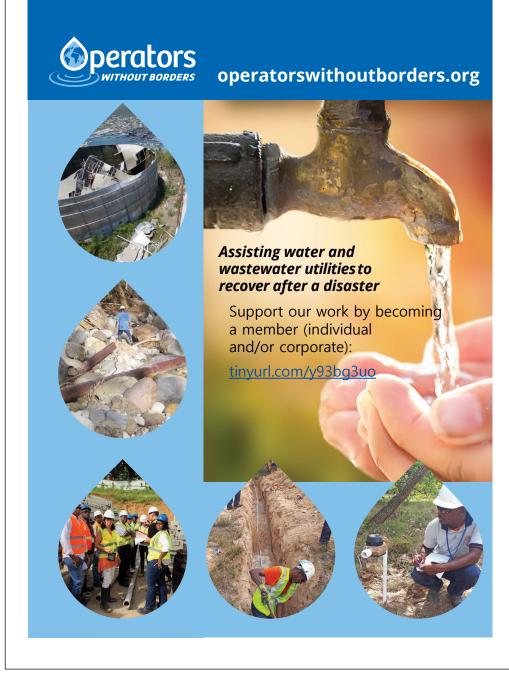
## Allen (Al) Nordick

It is with heavy hearts that the Nordick family announced the death of Allen (Al) Nordick - a beloved son, brother, husband, father, and grandfather.

Allen Wade Nordick was born on 9 October 1962 in Kamloops, BC. Born to Florian (Ed) and Maybelle Dorothy (Hardie) Nordick, he was one of 8 children.

Al attended Our Lady of Perpetual Help School followed by NorKam Secondary School until 1981. He married Deanna (Goodwin) Nordick on June 21, 1986. Al and Deanna have two children Cody Allen and Ashley Christine, and five beautiful grandchildren.

Al was an avid fisherman and a master elk, deer, and moose hunter, even making the Wildlife Records Club of BC for his non-typical mule deer shot in 2004. He and Deanna were part owners of a family cottage at Kamloops Lake, and Al, along with his siblings, spent a great deal of time renovating this property and loving the time spent there. He and Deanna shared a love of camping at small lakes across BC and



had recently bought a trailer, with the intent of spending summers exploring – a goal sadly cut short.

Al's career included working for AMEX (Ab Abblett) staking mining claims across BC as well as putting up Realtor signs in Kamloops. Al started working for the City of Kamloops in 1981 as a summer employee. During those early years he worked as a Lifeguard Instructor, equipment operator, at Recreational Facilities (pools and parks), and doing irrigation. In the winters he worked on the oil rigs in Alberta and Saskatchewan. When he was hired full time with the City, he again worked in Recreational Facilities, qualified as a pipe layer and from 2003 until retirement he worked as a water and wastewater Operator throughout the Kamloops area. Al was awarded an employee award from the city in 2012.

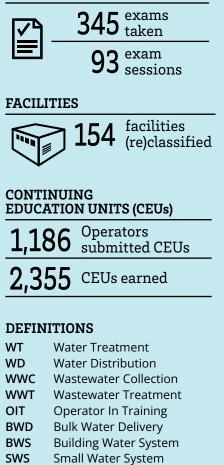
Al retired from the city on 30 August 2019, but continued working part time as a contractor for TNRD.

Called "Big Al" by his friends and family – known and loved by all, Al will be sorely missed.

## **STATISTICS** As of 31st December, 2023



### **EXAM STATISTICS**



Small Wastewater System

Multi Utility

SWWS

MU

## **OPERATOR CERTIFICATIONS**





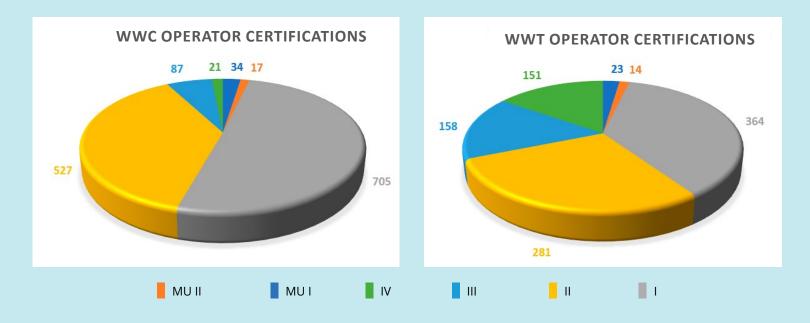


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Find technical advice and self-help tools to help you deliver safe drinking water. Covers topics on treatment, regulations, operations, maintenance, water quality monitoring, emergency response planning and much more.

### THOMPSON RIVERS UNIVERSITY

## smallwatersystemsbc.ca



## **OTHER OPERATOR CERTIFICATIONS**



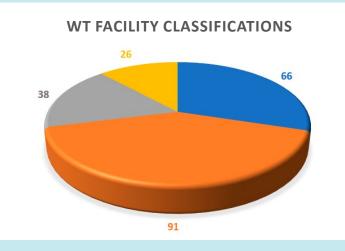


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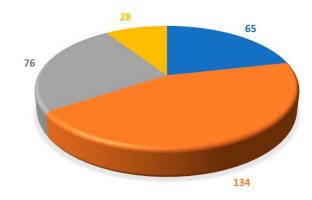
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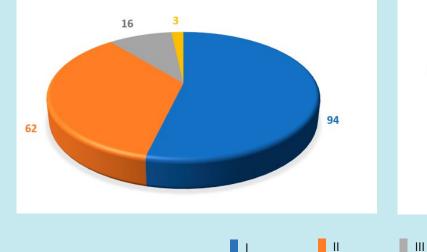
## **FACILITY CLASSIFICATION**



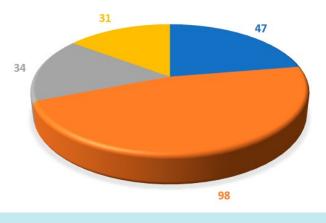
WD FACILITY CLASSIFICATIONS



WWC FACILITY CLASSIFICATIONS



WWT FACILITY CLASSIFICATIONS



IV

**CEUs** can be added to your profile by choosing <u>Action > Add Course Taken</u> under

the learning column. Or you can email your certificates to eocp@eocp.ca.

Check your Operator status by logging into If you show as not certified your profile at https://crm.eocp.ca/ and clicking on ACCOUNT to see if your 2024 dues have been paid, and **CEU** under the LEARNING STATUS tab to see if your CEUs have been met for the 2022-2023 reporting January 1, 2024. period.

, this means you haven't paid your dues and/or submitted CEUs.

A new CEU reporting period started on

## WATER & WASTEWATER OPERATOR TRAINING

CLASSROOM OR INSTRUCTOR LED VIRTUAL TRAINING

Certification courses support new ABC criteria



**CROSS CONNECTION CONTROL PROGRAM DEVELOPMENT SERVICES** 



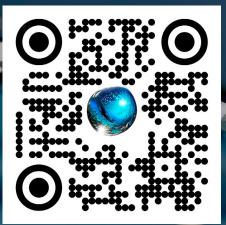




Designed for Operators, by Operators

## 9 - 11 SEPTEMBER 2024 VANCOUVER BC OR ONLINE!

## **SAVE THE DATE!**



# **BUILDING BETTER FUTURES.**