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Summer 2023  
Vol. 45, No. 3

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*OAWU's mission is to provide service, support and solutions for Oregon water & wastewater utilities to meet the challenges of today & tomorrow.*



# Adapting *Opportunity in Change*

by Jason Green, Executive Director

Wanting to bring a little attention to this great Association with a brief update. OAWU staff seem to have great employment longevity. The OAWU Board of Directors takes pride in service and retention is often 20 years or more. Membership continues to remain steady with slow but sure growth, as does attendance at the five annual conferences and training sessions. Do you know that OAWU trained over 1,500 operators and managers last year? We also spent many hours at utilities with requests for and emergency responses from the eight full-time expert field staff. We take pride in what we do and value our membership and friendships all over this state! If you have not met us yet, give us a call or attend one of our many training sessions. You'll be glad you did.

Interested in being a Circuit Rider working in the field or a project manager or trainer? Or, do you want to give back and provide leadership to OAWU and our industry by serving on the board? Give us a call or email please. We are looking for qualified candidates and will be hiring for several positions! We would love to hear from you!

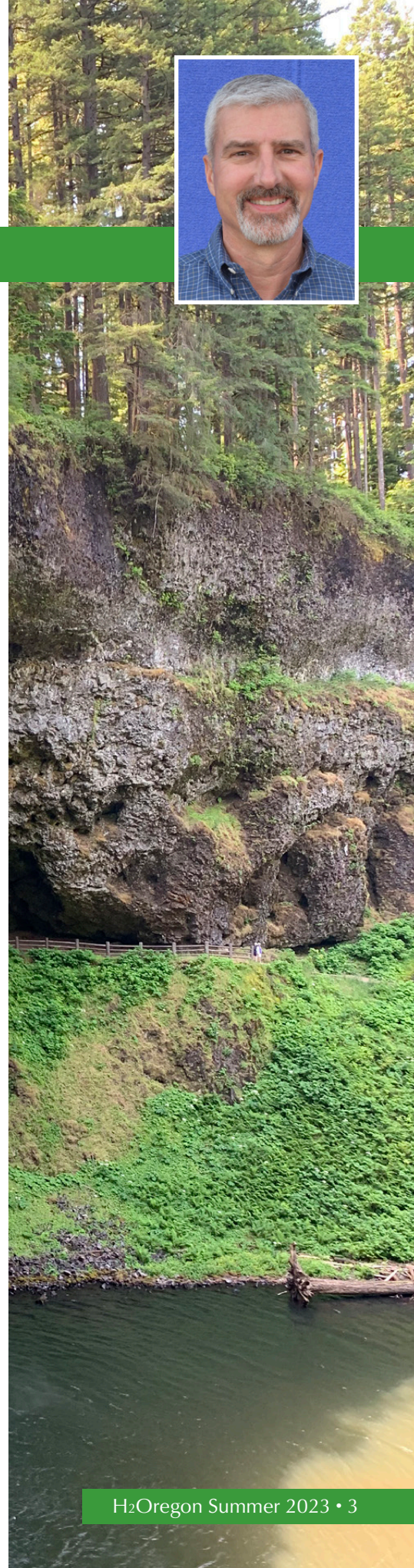
National Rural Water Association (NRWA) has been working hard in Washington DC, as have several OAWU staff and Association board members. Recently we were notified of two programs/positions funded through NRWA for Oregon with an additional Wastewater Circuit Rider and the Oregon Utility Apprenticeship Program. Heather Davis has been working in the front office at OAWU for many years coordinating training classes and CEU records and much more. She has taken the opportunity to manage this program for the Association as our Apprenticeship Coordinator. We are currently working through the policies, identifying classes and training goals necessary to be approved by the state, and will soon be contacting member systems and cities to work with us in this new and needed program! We are excited and looking forward to working with you in this area!

OAWU was also selected as a bid recipient by OHA-DWS to conduct part of a training class and assisting systems to identify, collect data about, and report regarding lead service lines. We should receive all the details and begin this work soon.

We owe a great deal to Harmony Burreight, who diligently worked on HB 3321 and especially also to Representatives Owen, Helm, Evans, Marsh and Senator Smith who sponsored this bill. We also must thank the OAWU Board of Directors, staff, and the many members and groups who so quickly supported OAWU and lobbyist Mark Landauer. Though this bill was placed into two others that later passed, all original contents were retained. In summary, this is all about the importance of safe drinking water in Oregon and especially assisting the small water utilities and cites. We take pride in being the steward to carry out these such important tasks!

The primary points of interest are: construction of a training center at OAWU in Independence, providing a needs assessment/study for small systems with populations <3,001 and report directly to the legislative body, and employing a trainer and two technical assistant/circuit rider personnel to assist small systems in Oregon.

Wishing you a fantastic and meaningful summer! My best to you! 💧





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# Summer

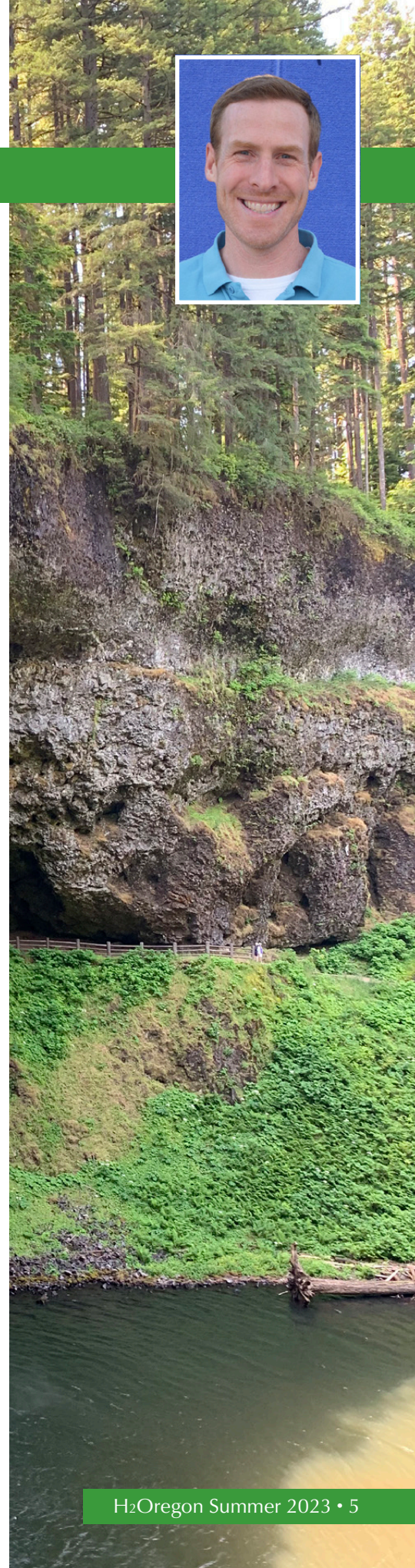
by Mike Collier, Deputy Director/Source Water Specialist

Summer is now upon us. My kids are out of school and their allergies are kicking. The grass is growing and there is much yard work to get done. For utilities, it is time to mow and get our projects done before the rain and short days come back. That is what summer usually is all about.

This summer, let's try to take a little time for ourselves—time with family and friends. "All work and no play makes Jack a dull boy." This famous line has some truth to it. When we don't make time for ourselves and some relaxation it is easy to start going down the road of burn out. This usually makes people more tense and have a shorter fuse for our work and interactions with others.

So, remember this summer could be any of our last summers. The human body is amazing, but at any moment it could all be over. What keeps that heart ticking? If it stops, we are done, not to be morbid, just a reminder that any day could be the last and that we should remember to enjoy each one. Our jobs are great, and we really get to help people on a daily basis and provide for their essential needs, but our family and personal mental health is important too.

This summer, remember these things and the amazing blessings we have. Be sure to find a little time to pause, take a break, and enjoy what we have all been given. 💧



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# Perspective!

by Monty Norris, Wastewater Technician



Sometimes we think about parts of our lives like home chores, work issues, financial struggles, and even simpler things that give us grief. We get through them, get them done and squared away most the time without real difficulty. My wife and I attended a child abuse awareness event in our local community. This event takes place every April and was a good reminder that things can be, and for some, are much worse for others in the world. A lot of our problems exist due to our own decisions, but when you consider children and abuse, it is always placed upon them by others. What can we do? First let's look at some data.

There are four common types of abuse and neglect:

- **Physical abuse** is the intentional use of physical force that can result in physical injury. Examples include hitting, kicking, shaking, burning, or other shows of force against a child.
- **Sexual abuse** involves pressuring or forcing a child to engage in sexual acts. It includes behaviors such as fondling, penetration, and exposing a child to other sexual activities. Please see CDC's Preventing Child Sexual Abuse webpage for more information.
- **Emotional abuse** refers to behaviors that harm a child's self-worth or emotional well-being. Examples include name-calling, shaming, rejecting, withholding love, and threatening.
- **Neglect** is the failure to meet a child's basic physical and emotional needs. These needs include housing, food, clothing, education, access to medical care, and having feelings validated and appropriately responded to.

At least 1 in 7 children have experienced child abuse or neglect in the past year in the United States.

About 1 in 4 girls and 1 in 13 boys in the United States experience child sexual abuse.

Someone known and trusted by the child or child's family members, perpetrates 91% of child sexual abuse.

In 2020, 1,750 children died of abuse and neglect in the United States.

Experiencing child sexual abuse can affect how a person thinks, acts, and feels over a lifetime. This can result in short and long-term physical, mental, and behavioral health consequences.

Remember, we are just coming out of COVID-19 time and the closure of schools, libraries, and after school programs has hindered the ability to notice and report these abuses and the effects of COVID-19 will not be fully known for probably years to come.

Now, what can WE do?

The first step toward helping is to recognize signs of child abuse. Children often can't or won't speak up if their parents, caregivers, or third-party individuals are abusing them. They rely on you and others in the community to recognize when



something isn't right and to act upon the suspicions in order to help protect them.

Warning signs include:

- Physical signs present on the child.
- Behavioral signs or statements made by the child, or
- Behavioral signs or statements made by the parent or caregiver.

Any single sign may or may not mean that abuse is occurring. But observing any of these indicators — especially when more than one is present — should prompt you to think about what might be happening and report your concerns.

Oregon's children are relying on all of us in the community to observe, recognize and report concerns of child abuse.

Have you already taken the class for being a mandatory reporter? You may already be a mandatory reporter, but regardless of whether you are classified as a reporter or not

you can benefit from taking the training on being a reporter and doing your due diligence in combating abuse and saving a child from abuse.

### Who is a mandatory reporter?

Mandatory reporters are public and private professionals required by law to report suspected child abuse. Some examples of mandatory reporters include: medical practitioners, law enforcement personnel, employees of a public or private organization providing child-related services or activities, public and private school employees, and members of the clergy. The data and info have come from the State of Oregon, CDC, and child welfare.

This article will come out after child awareness month, but child awareness is year-round! Sometimes we need to be reminded of other people's struggles and abuses to realize our own problems are not that big after all. Stay strong and stay vigilant. 💧

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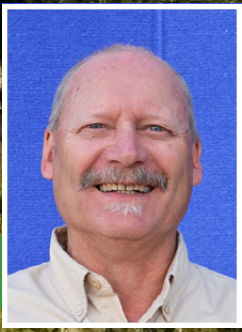
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# Being a Water or Wastewater Operator

*by Keith Bedell, Wastewater Technician*

What does it take to be a wastewater or water operator in a small town, or both. A lot of people get into the role of a utility worker and move up within the city's work force. There might be only two or three people, so you get to do a little bit of everything depending on the time of year. We are able to work outside, possibly learn how to operate equipment and many hands-on experiences with water, wastewater, and public works jobs. Having a good crew to work with, which could be just you and the public works director/supervisor, there is a good chance that we will know how a city or utility operates within a year or two, making us a great asset to our employer.

Some people are followers and others are leaders, this is just human nature. If we are a follower and can take instructions on how to do things, with limited responsibility, then we can fit in and enjoy the position. If we tend to lead and can also take instructions without questioning everything that is put to us, then we can go far as well. Being a leader doesn't mean that we have to take control of everything but are able to guide other workers with our knowledge and expertise while still being able to listen to suggestions from other people.

With smaller communities/utilities there will be more opportunities to learn how to operate equipment, from hand tools to heavy equipment such as skid steers and mini excavators. We will have to start with the basics such as operation of a shovel in the ditch while learning how to lay and bed water, sewer, and storm pipe. How to get the slope for the direction of flow for the gravity lines. Doing a hot tap for a water service using a tapping machine, depending on our location we might do a sewer service tap on asbestos concrete pipe correctly, so we don't inhale asbestos fibers. There are many hazards with any job and working for a city or utility has almost every kind of danger you could imagine, but with a good supervisor and safety program we learn the proper and safe way to fulfill the job. We have chemicals, equipment, confined spaces, electrical hazards, and other dangers that could physically harm us.

Working with the public and getting to know the people that we work for, citizens and rate payers, will give the satisfaction of contributing to the community. There is usually a little more flexibility giving the opportunity to see our families' sporting events and other school functions.

Some people enjoy working in large cities and doing the same thing day after day knowing that everything is scheduled out. With a small town we start on one thing in the morning and could be called out for a water leak or sewer backup, this makes the job interesting and usually helps prevent getting bored with the job. 💧

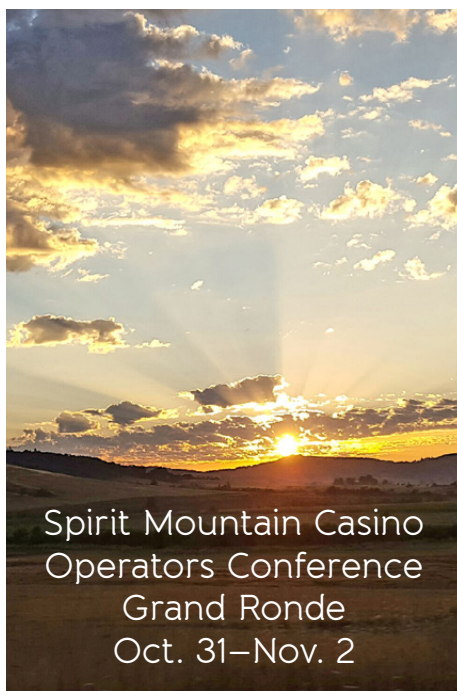


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Hood River  
December 11–14



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# Commercial Driving



by *Tim Tice, Projects Manager*

In February 2022 some of the biggest changes to the Federal Motor Carriers Safety Administration (FMCSA) to obtain a commercial driver's license (CDL) were confirmed and implemented. These changes initiated many conversations among our members and staff navigating the new rules and where to find support. The focus of the new rules was a change to mandated training for "Entry Level Driver Training" – EDLT for any new drivers. Those individuals who are looking to obtain a CDL for the first time, upgrading a CDL from Class B to class A, or adding an endorsement for the first time.

Speculation as to the actual time required to complete said training stemmed from 160 hours for both theory and behind-the-wheel (BTW) training to minimum hours if the individual trainee can show proficiency in both areas.

The theory training curriculum must cover topics that are required by FMCSA (from ODOT's website). They include:

- Basic Operations
- Safe Operating Procedures
- Advanced Operating Procedures
- Vehicle Systems and Malfunctions
- Non-driving Activities (Hours of Service)
- 30 individual topics are outlined in the above five points.
- BTW training curriculum focuses on:
  - Actual operation of commercial motor vehicle
  - Vehicle control skills
  - Demonstrate basic maneuvers

Use of the driving range or public road is required—no simulators.

With the above points defined, the likely next step would be obtaining the appropriate curriculum and begin instructing the employees. A number of options are available, from on-line courses for purchase, commercial driving schools, local community colleges, to in-house curriculum. Costs vary depending on the path your utility chooses.

Clear Roads provides information regarding the ELDT program with brief videos explaining how to implement a ELDT program, all at <https://clearroads.org/request-for-eldt-training-modules-form/>. The information from Clear Roads is free.

Once the curriculum is established, registration with FMCSA's Training Provider Registry (mandated) allows an employee from the utility to conduct the training. This step self-certifies that all the required training is met through the employer-provided training. Once registered, the utility can track driver accomplishments toward obtaining a CDL. The State of Oregon DMV uses the registry to verify ELDT completion. ELDT completion is required prior to obtaining a commercial learner's permit (CLP).



To obtain the CLP a driver must pass the CDL general knowledge test, combination test (if applicable), air brake test (if applicable), and some additional paperwork.

The commercial skills test consists of a) pre-trip vehicle inspection, b) basic control skills – backing and c) on-road driving test. The majority of first-time test failures are related to the pre-trip inspection. When you believe you have thoroughly gone over the pre-trip checklist, do it again. Spend some additional time looking over various inspection lists found on the web.

Getting employees trained to operate equipment for the utility has multiple roads to travel with the cost diminishing as more steps are completed in-house.

- Send an employee to a CDL school, complete the required instruction, and obtain a license (Probably the most expensive)
- Do theory training virtually from a company, complete BTW training with a registered employee in-house, schedule with the DMV or a third-party CDL tester. Link below are third party testers <https://www.oregon.gov/odot/DMV/Pages/Driverid/3rdpartytest.aspx> (Less expensive, pending how much time an employee may need to become proficient)
- Do all training in-house using current employees who possess a valid CDL (If the utility is outfitted with enough personnel and equipment, the least expensive)

- Eliminate the need for CDL program by using outside contractors to perform the work (No CDL program means no cost, but additional expenses using contractors)

A challenge with in-house curriculum is establishing a test that will prove the training program is effective. Trainees must receive an overall score of at least 80 percent in order to get their permit, which may nudge a utility to use purchased video on-line courses. Most provide a testing score once completed.

The BTW training performed in-house would be the preferred method as crews become familiar with working around equipment. Utility work is a natural path for individuals as they grow in performing various tasks, one task may be getting equipment back and forth from a site. A utility will need an employee with a CDL to set up the BTW training. One oddity about the new program is the self-certification and the judgment call or assessment of each driver's performance by the lead employee.

This area will be subjective and only the highest level of competency should be certified. A ten-wheel dump truck pulling a large track hoe, when operated without keen understanding, can become deadly. A great many thanks to our members who have shared their findings related to the CDL licensing of employees.

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# Thinking About Cyber Security

*by Sam Waller, Circuit Rider*

As our world becomes increasingly digitized, cyber security has become a significant concern across several industries. Water and Wastewater plants rely heavily on digital infrastructure to function, making them particularly vulnerable to cyber threats.

Drinking water plants are responsible for treating and distributing safe water to the community. These facilities operate using technologies such as Supervisory Control and Data Acquisition systems and programmable logic controllers that depend on the internet and interconnected networks. Most of the equipment that controls these systems are digital and many of these systems can be remotely operated or monitored from anywhere. Therefore, it is essential that these systems remain secure from cyber-attacks.

The potential consequences of a cyber breach targeting a drinking water plant are severe. A hacker could shut down the entire system, cause malfunction or tamper with the water supply. One example of an attack happened in 2021 where an attacker hacked in and released high amounts of sodium hydroxide into the water supply. A fast-thinking operator caught the attack and stopped it only 5 minutes into the attack, saving the day, but this is just one example of what can go wrong in a cyber-attack.

Besides the public health risks, a cyber-attack on a drinking water plant can have huge financial implications. In addition to the cost of repairing any damages and investigating potential breaches, there is also the possibility of lawsuits filed by affected individuals or organizations. Such an attack could cause damage to the local economy and have a ripple effect on local businesses.

To prevent such incidents, cyber security experts recommend securing the plant's systems through various measures. For instance, the facility can use firewalls to protect sensitive control systems from unauthorized internet access.

Given the critical infrastructure and sensitive nature of drinking water plants, it is of utmost importance that the elected officials provide adequate funding for cyber security within these facility protocols. Complex security measures come at a cost, and without funding, these security measures are impossible to implement. Aside from financial assistance, it is also necessary to ensure all employees undergo proper cyber security training. By improving the knowledge base of employees, skills development improves along with their ability to notice and report any security concerns or potential loopholes in digital infrastructure.

Recently, the EPA issued a memorandum guiding states to assess cyber security threats at public water systems during the sanitary survey. OHA-DWS is working on how to implement this change. Updates will come out in the ePipeline and on the OHA-DWS website. 💧





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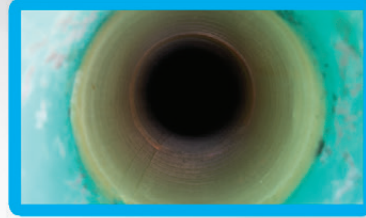
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# It's the Dose that Makes the Poison

*Heath Cokeley, Programs Manager/Circuit Rider*

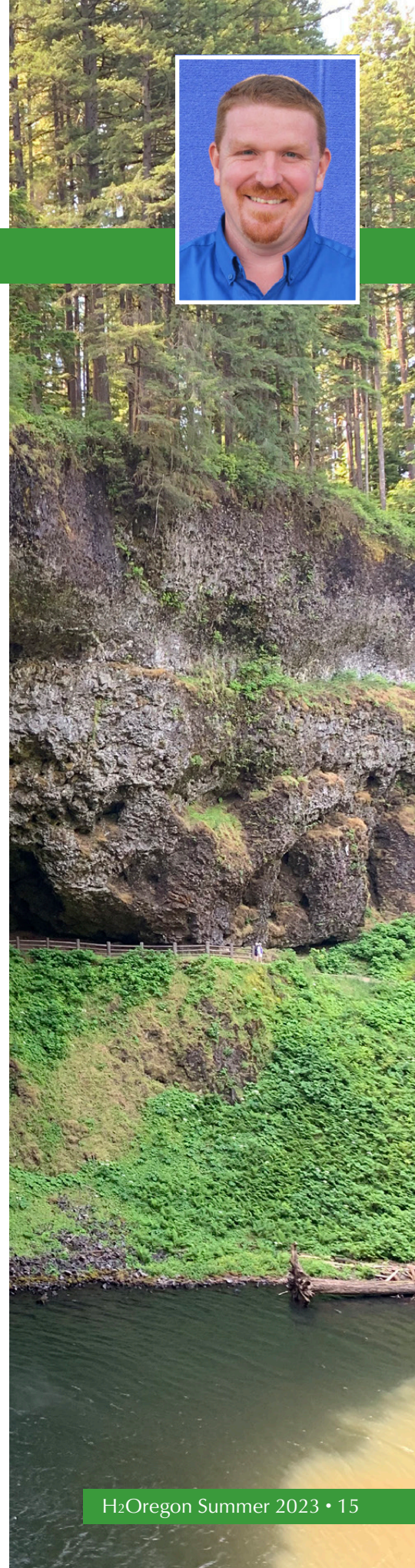
In '08 a man dumped poison in the water supply for a quarter of a million people. Imagine reading that as a headline...instantly all the images of what you could easily assume is a horrible individual poisoning so many people all at once. This was just not the case. While the first sentence of the article is loosely based on the truth, it leaves out some extremely important details. You see, the year was 1908 and the poison in question was chlorine. That little bit of extra information may change some of our perspectives from just reading that first sentence.

It is interesting to me, as I have studied this individual whose name was John Leal, how my perspective on what he did and how he did it has changed. The first time I heard the story of Mr. Leal it was suggested that he had this theory on how chlorine could kill bacteria in water, so he dosed the water supply with no one knowing. That just doesn't appear to be the case. Before putting chlorine in the water, he was already well aware that chlorine could kill bacteria. This was because John Leal was a trained physician who had been a Health Inspector and had a Health Office in the town of Paterson, New Jersey. During that time, they would frequently use chlorine to disinfect houses that had seen scarlet fever, diphtheria, and other diseases. He had studied chlorine extensively and researched instances where people had used chlorine to disinfect reservoirs and pipelines in England. He had conducted laboratory experiments, using chlorine to disinfect water starting in 1898 and had even consumed the water that had been disinfected himself.

Leal was one of the principal expert witnesses in two different trials which looked at the quality of the water supply in Jersey City, New Jersey that evaluated the safety of using chlorine in a public water supply. Ultimately, Leal would contract with George Fuller, who at the time, may have been the most widely respected sanitary engineer in the US. Fuller was contracted to build a chlorination system to chlorinate the water in Jersey City, New Jersey. This system would go into operation on September 26, 1908, making it the water supply with the longest continuous disinfection system.

It is apparent that Leal had a passion for public health, specifically clean drinking water. This passion likely stemmed in part from what happened to his father. Leal's father, who was also named John Leal, was a physician in the Civil War and had contracted amoebic dysentery, likely from contaminated drinking water, and this disease would ultimately take his life. Dysentery was such a common issue during the Civil War it is believed to be responsible for the deaths of 50,000 soldiers from both sides.

Shortly after Jersey City began chlorinating its drinking water, outbreaks of water borne diseases went down so dramatically that within 10 years, more than 1,000 cities across the US were chlorinating their water that served more than 33 million people. I would argue that the addition of chlorine to public water supplies has likely saved millions of lives over the years, and at least here in the US, it all started with a physician, turned Water Operator, named John Leal. I hope you have enjoyed this look back at a great early water operator and with that I will see you down the road. 💧





# Survey Says?

by Hans Schroeder, Circuit Rider




Our email inboxes are inundated with surveys, questionnaires and “rate us” emails. “How was your service?” “How was your experience?” “Were your expectations met?”

We become numb to the surveys. They get the old “swipe delete” stroke usually before even reading the survey. Companies and businesses are always trying to better their services by receiving feedback from the consumer. The feedback is used to improve services.

With that being said...OAWU has sent out a questionnaire that is called a Similar System Survey. It is being used to compile data about service users, water used by both residential and businesses. This questionnaire's purpose is to assist systems acquire funding for future projects and to also help USDA-RD in comparing like systems with similar processes be it for water or wastewater treatment, groundwater, or surface water systems alike. Compiling this data will benefit communities throughout Oregon. See below for an example of how the questionnaire will look.

OAWU Circuit Riders are able to assist cities in preparing this Similar System Survey. A digital PDF is available from OAWU as well. Reach out to us if help is needed. 💧

**Water & Environmental Programs – RUS Instruction 1780**  
**Similar System Data Collection Form (Rev. 8/20)**

  
 United States Department of Agriculture

Entity Name: \_\_\_\_\_ (1)      Entity State: \_\_\_\_\_ (2)      Entity MHI: \_\_\_\_\_ (3)

12-Month Period End Date: \_\_\_\_\_ (4)      Entity Contact Name: \_\_\_\_\_ (5)

Entity Contact Email: \_\_\_\_\_ (6)      Entity Contact Phone: \_\_\_\_\_ (7)

Authorized Representative Name: \_\_\_\_\_ (8)

1. SYSTEM INFORMATION: Provide the information for the twelve-month period indicated above.

Water System		Sewer System	
Water Source	(9)	Collection Type	(17)
Treatment Type	(10)	Treatment Type	(18)
Distribution Type	(11)		
Date of Last Major Rehab:	(12)	Date of Last Major Rehab:	(19)
What was completed?		What was completed?	
Annual Water Operating Revenue (excluding wholesale)	(13)	Annual Sewer Operating Revenue (excluding wholesale)	(20)
Annual Revenue from Wholesale Water Sales, if applicable	(14)	Annual Revenue from Wholesale Sewer Treatment, if applicable	(21)
Major System Needs:	(15)	Major System Needs:	(22)
Plans for Future Improvements:	(16)	Plans for Future Improvements:	(23)

2. METERED USES: Provide the number of accounts and the gallons sold/treated for each customer class for same 12-month period as above.

Customer Class	# of Water Users	Gallons of Water Sold	# of Sewer Users	Gallons Treated Sewer
Total Users (excluding wholesale)	(24)	(25)	(30)	(31)
Residential Users	(26)	(27)	(32)	(33)
Wholesale Users (wholesale sales on a contract basis to another entity)	(28)	(29)	(34)	(35)

\_\_\_\_\_

\_\_\_\_\_

Authorized Representative

Date





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# Emergency Response

by Scott Berry, Operations Manager



Part of my job over the past several years has been providing training for and working with small water system operators. One of the topics that keeps coming up is Emergency Response Plans (ERP) for the small systems in Oregon. It's true that some systems still lack this document, and it is frequently a significant deficiency noted during a Water System Survey. My goal is more focused on providing pertinent information to help draft a usable document that meets the small system operators needs during all phases of an event. Compliance with the rules requiring an ERP is a convenient side effect. Let's start with the specifics of the rule:

333-061-0064 (page 277 of current Oregon Administrative Rules)

## Emergency Response Plan Requirements

Water suppliers must maintain an emergency response plan for every community and NTNC water system. Water system staff must be instructed and trained in the use of the plan and the plan must be accessible at all times to all water system staff for use during emergencies.

(1) At community water systems serving 3,300 or fewer people and NTNC water systems, the emergency response plan must include procedures for reasonably anticipated emergencies.

(a) These procedures must include but are not limited to: a plan for physical security measures, procedures to isolate all parts of the water system and procedures for emergency disinfection. There must also be a procedure for issuing a boil water or do not drink advisory to water system customers in the event of:

- (A) Loss of electrical power;
- (B) Loss of pressure in the water distribution system;
- (C) Disruption or failure of disinfection or other treatment systems; or
- (D) Detection of E. coli bacteria or another contaminant exceeding the MCL.

(b) If computer networks or automated control systems operate or monitor processes at the water system, water suppliers must implement cybersecurity measures to prevent attacks on process controls including but not limited to: establishing a password policy based on current cybersecurity standards, creating a software update plan, monitoring for suspicious activity, and installing and updating antivirus or anti-malware software.

(c) Water suppliers must have a procedure to coordinate with local emergency management agencies in the event of an emergency event that overwhelms the water system staff's ability to respond.

The rule continues with more information regarding Risk And Resiliency Assessments that are currently only required for community water systems serving greater than 3300 people.

Let's break this down a little bit, starting with part (1) of the rule that says you must develop plans for "procedures for reasonably anticipated emergencies."



I always start by looking at local history. What types of emergencies have befallen our area in the past? Have we experienced floods, ice storms, windstorms, wildfires, vandalism, etc.? What were the problems encountered as a result of those events? Power outages, loss of infrastructure, loss of adequate pressure in distribution, and other consequences of the disasters are all examples of things that may need to be specifically addressed in your emergency response plan.

There may be some things that need to be addressed even if they have not occurred in our area in the recent past and there are resources available to help figure out what types of events may happen in our location.

Oregon Department of Geology and Mineral Industries (DOGAMI) has compiled and plotted a list of possible hazards in their HazVu GIS mapping system. The HazVu map provides a way to view many different geohazards

in the state of Oregon. You can enter the address of your business or area to see what hazards might affect you. You can print the map you create and add it to your ERP. Geohazards include 100-year flooding, Cascadia subduction zone earthquake shaking and tsunami, coastal erosion, volcano, active faults, earthquake soft soil, landslide, and more.

Other guidance can be obtained at these sources:

- <https://www.epa.gov/waterutilityresponse/develop-or-update-emergency-response-plan>
- <https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/DRINKINGWATER/PREPAREDNESS/Pages/index.aspx>

In the next issue of *H2Oregon* I'll dissect additional parts of the regulation and provide insight on what other resources are available to help you draft a comprehensive ERP. 💧



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# Poochie

*Throwing My Loop*  
by Michael Johnson

In 1939 there was a young doctor in our home town. His name was Ellis Blair McGee. His dad had been the only doctor in town for years, and now his son would be joining the practice...but there was a little problem. The winds of war were blowing on the other side of the world—and the young Dr. McGee had an idea.

My father, Cork, was twenty years old at the time, and his sister had just joined Dr. McGee's practice as a nurse (where she would remain for 53 years.) Dr. McGee approached my dad and proposed the following, "Why don't you go enlist in the Army? If you will do that, I can request you as my medic. We can stay together and watch out for each other. Once we have served our year, we can have our military service out of the way, and come home." My dad thought that was a great idea. He would later say, "It took me five years in Europe with Dr. McGee to serve that year." But back to the story...

My dad traveled down to the recruiting office on that day he signed up. The recruiter took care of all the paperwork and the deal was sealed...or so everyone

thought. The next day, my dad shows up back at the recruiter's office.

"Forget something?" asked the recruiter. "I hope you are not going to try to back out. Bit too late for that."

"No, no," said my father. "Nothing like that. I just forgot something."

"And what would that be?" asked the recruiter.

"My dog," my dad said. "I forgot about my dog."

My dad said, "At that point, I will never forget that recruiter leaning back in his chair and saying, 'Oh, I bet this is really gonna be good.'"

For the next ten minutes or so, my dad explained how his crazy idea wasn't quite so crazy after all. "He's a big dog. German Shepherd. Almost five now and has his full growth. My mother and I read in the paper that the army needs dogs for the K-9 Corps. So here's what I'm thinking," he said. "All these young people down there at the boot camp in Brownsville, Texas - they're gonna have to stay there six weeks. They will be homesick. They won't know anybody." (Now the recruiter is



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Cork (left), Poochie, and a friend in 1940 at the Brownsville boot camp.



leaning forward.) “Poochie—that’s his name, Poochie—would be a real morale booster. He’s a friendly dog. You could let him go to boot camp with us. Some of my cousins are going with me. They all know Poochie. Now,” my dad said beginning his conclusion, “...if you will let Poochie stay with us at boot camp, when we are done, my mother and I have agreed we will give Poochie to the K-9 Corps. Our only condition is that if the dog lives through the war, you send him home.”

I guess nothing explains the magic of my father like what happened next. He said the recruiter stared at him for the longest time not saying anything. Then, he raised one finger as if to say, “Hold it a minute.” He dialed a number—talked a while. He hung up and looked at my father again and grinned. “They are going to consider it.”

Three days later, my grandmother and father were notified that Poochie would be going to Brownsville with my father and uncles. After six weeks, Poochie would be taken into the K-9 Corps with the promise that if he lived through the war, the dog would be sent home. Poochie became a member of the K-9 Corps and spent most of his time in Europe and...Poochie made it home. Four years older, but just fine.

My grandmother said she received two telegrams about Poochie’s service during his time in Europe. He lived until he was 14.

My dad stayed at Dr. McGee’s side for almost five years. After a couple of years back stateside, Dr. McGee would deliver his son...me. I grew up with my dad and uncles, Dr. McGee, and stories of Poochie.

No one was ever more fortunate. ♦

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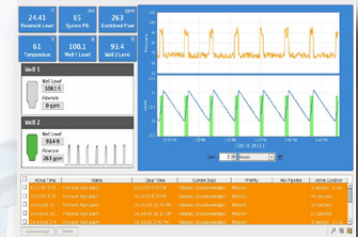


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- Meet regulatory agency requirements
- User-selectable time periods
- Seconds, minutes, hours, days
- Color-coded traces



## Asset Management

- Avoid unplanned downtime
- Calendar and condition-based scheduling
- Maintenance work orders
- Easy to use

Name	Myrtle Well Pump 3
Description	Myrtle Well Pump 3 230hp
Location	27 E Fairview Ave
Vendor	ABB
Model Number	EP224
Serial Number	049392087
Category	Water Pumping Facility
Type	Pumping Equipment
Status	Active
<a href="#">View Current Tasks</a>	<a href="#">Upload Documentation</a>
<a href="#">View Recent Maintenance</a>	<a href="#">View Documentation</a>
Asset ID	1

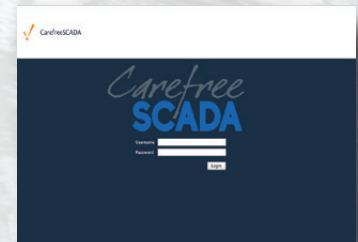
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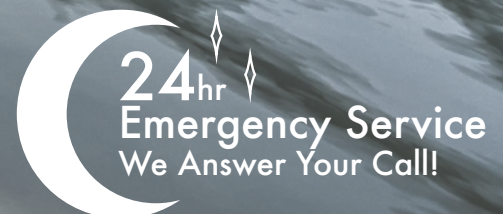
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July 25–26	Water Treatment, Water Distribution Certification Review	Redmond	1.4 Water/0.5 Wastewater/Onsite	TBA Fee
August 8–9	Wastewater Treatment/Collections Certification Review	Salem	1.4 Wastewater/0.7 Water	4227 Fee
August 9	Lock Out Tag Out Operations	Bend	0.3 Water/Wastewater/Onsite	4397 Fee
August 10	Confined Space	Bend	0.3 Water/Wastewater/Onsite	4634 Fee
August 10	Hazardous Communication Standard (Global Harmonization)	Bend	0.3 Water/Wastewater	4193 Fee
August 21–24	29 <sup>th</sup> Annual Summer Classic Conference	Seaside	2.3 Water/Wastewater	TBA Fee
September 11–14	2023 Fall Operators Conference	Florence	2.7 Water/Wastewater	TBA Fee
September 19	Distribution Basics	Baker City	0.6 Water	4117 Fee
October 11	Distribution Basics	Lake Oswego	0.6 Water	4117 Fee
Oct. 31 – Nov. 2	Spirit Mountain Casino Operator's Conference – 2023	Grand Ronde	2.0 Water/Wastewater	TBA Fee
November 8	Confined Space & Job Site Safety	Eagle Point	0.6 Water/Wastewater/Onsite	4331 Fee
November 28	Distribution Basics	Salem	0.6 Water	4117 Fee
November 29	Developing Your Operations & Maintenance Manual	McMinnville	0.4 Water/Wastewater/0.2 Onsite	4116 Fee
November 29	Leak Detection	McMinnville	0.2 Water/Wastewater	4396 Fee
December 11–14	25 <sup>th</sup> Annual End of Year Operators Conference	Hood River	2.7 Water/Wastewater	TBA Fee

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For additional information, please visit <http://public.health.oregon.gov/HealthyEnvironments/DrinkingWater/OperatorCertification/Levels1-4/Pages/exams.aspx>

Drinking Water Data Online <https://yourwater.oregon.gov>

Drinking Water Services <https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/DRINKINGWATER/Pages/index.aspx>

*Training class dates, class topic and/or locations may be subject to change as needed.*

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# QUIZ CORNER

- Trenches five feet deep or greater require a protective system unless the excavation is made entirely in stable rock. If the trench is fewer than five feet deep, a competent person may determine a protective system is not required.  
A. True  
B. False
- An incident investigation:  
A. Is good for who to blame when an incident occurs  
B. Should focus primarily on the behaviors of those were closest to an incident  
C. Should focus primarily on the immediate cause of an injury  
D. Can help an employer reduce factors that create unsafe conditions
- Spoil piles should be kept back from the edge of the trench:  
A. Not less than 1 foot  
B. Not less than 2 feet  
C. Not less than 6 feet  
D. A distance equal to the depth of the trench
- A Job Hazard Analysis (JHA):  
A. Is a technique that focuses on job tasks as a way to identify hazards  
B. Focuses on the relationship between the worker, the task, tools, and environment  
C. Will always prevent injuries  
D. Both A and B
- The basic causes of accidents/incidents are:  
A. Unsafe acts (personnel-related)  
B. Unsafe conditions (substances and the environment)  
C. Neither A or B  
D. Both A and B
- To be effective, corrective/preventive actions must:  
A. Have acceptance by employees  
B. Have acceptance by managers  
C. Be effective in mitigating/controlling the hazard  
D. All of the above
- A near miss is an event that:  
A. Causes an injury but not a death  
B. Could have caused a serious incident but did not  
C. Does not need to be investigated  
D. Must be reported to OSHA
- Trenches \_\_\_\_ feet deep or greater require a protective system unless the excavation is made entirely in stable rock.  
A. 3  
B. 4  
C. 5  
D. 6
- An approved means of safe egress must be available if the trench is \_\_\_\_ feet deep.  
A. 3  
B. 4  
C. 5  
D. 6
- What are the potential hazards in excavation?  
A. Collapse of the sides of the trench  
B. Materials falling onto people working in the excavation  
C. People and/or vehicles falling into the excavation  
D. Undermining of nearby structures causing their collapse into the excavation  
E. All of the above

ANSWERS: 1-A, 2-D, 3-B, 4-D, 5-D, 6-D, 7-B, 8-C, 9-B, 10-E

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Mailing Address: \_\_\_\_\_

City/State: \_\_\_\_\_

County: \_\_\_\_\_ ZIP: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Number of Hook-ups: \_\_\_\_\_

Were you referred? By whom \_\_\_\_\_

### Type of System:

Water       Wastewater       Both

### Membership Category      Membership Dues

- |  |                                |
|--|--------------------------------|
| <input type="checkbox"/> Regular Member    | \$ _____<br>See schedule below |
| <input type="checkbox"/> Associate Member  | \$550.00                       |
| <input type="checkbox"/> Individual Member | \$100.00                       |

### Regular Member Dues Schedule

1 to 100	\$75 + 45 cents per connection
101 to 500	\$85 + 45 cents per connection
501 to 1,000	\$90 + 45 cents per connection
1,000 and up	\$100 + 45 cents per connection
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## Membership Types

### Regular Member

A Regular Member shall be any water or wastewater utility, public or private, engaged in the production, distribution or reclamation of water. A Regular Member shall have one vote. Annual Dues: See Regular Member Dues Schedule

### Associate Member

An Associate Member shall be any organization, individual or corporation, supplying services or equipment to water and wastewater utilities. An Associate Member shall have one vote. Annual Dues \$500.00 per year

### Individual Member

An Individual Member shall be an individual involved in the water/wastewater industry or a user of such utilities. The membership is informational in nature and shall be non-voting. Annual Dues \$100.00 per year

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 Arrowhead Mobile Home Park  
 Aspen Lakes Utility Company, L.L.C.  
 Astoria, City of  
 Athena, City of  
 Aumsville, City of  
 Aurora, City of  
 Avion Water Company  
 Baker City, City of  
 Bandon Dunes Resort  
 Bandon, City of  
 Banks, City of  
 Barlow Water Improvement District  
 Barlow, City of  
 Bay City, City of  
 Bay Hills Water Association  
 Bayou Water Improvement District  
 Beaver Water District  
 Beaverton, City of  
 Bend, City of  
 Benton County Service District  
 Bents Court Water Co.  
 Berndt Creek Water Corp.  
 Beverly Beach Water District  
 Biggs Service District  
 Black Butte Ranch  
 Black Mountain Water District  
 Blue River Water District  
 Blue Spruce Estates  
 Bly Water & Sanitary Dist.  
 Boardman, City of  
 Bonanza, Town of  
 Boring Water District #24  
 Brandy Bar Landing, Inc.  
 Breitenbush Hot Springs  
 Bridge Water District  
 Brightwood Water Works  
 Brooks Community Service District  
 Brownsville, City of  
 Buell-Red Prairie Water District  
 Bunns Village Properties, LLC  
 Burlington Water District  
 Burns, City of  
 Burnside Water Association  
 Butte Falls, Town of  
 Camp Baker BSA  
 Camp Rilea  
 Canby, City of  
 Canby Utility  
 Cannon Beach, City of  
 Cannon View Park, Inc.  
 Canyon City, Town of  
 Canyonville, City of  
 Carlton, City of

Cascade Locks, City of  
 Cave Junction, City of  
 Cedarhurst Improvement Club, Inc.  
 Central Coast Clean Water Company  
 Century Meadows Sanitary System, Inc  
 Century Meadows Water System, Inc.  
 Charles Tracts Water Company  
 Chart Water Supply, Inc.  
 Chehalem Mt. Sun Ridge Association  
 Chenowith Water PUD  
 Chiloquin, City of  
 CHR Dist. Improvement Co.  
 Christmas Valley Domestic Water  
 Cimmarron City Water Co., Inc.  
 Circle C Improvement Dist.  
 Clarks Branch Water Association  
 Clatskanie, City of  
 Clayton Creek Water Association  
 Clean Water Services  
 Cline Falls MHP  
 Cloverdale Sanitary District  
 Cloverdale Water District  
 Coburg, City of  
 Collins Products LLC  
 Colorado Lake Co-Op  
 Colton Water District  
 Columbia City, City of  
 Columbia Hills Homeowners Association  
 Columbia River PUD  
 Condon, City of  
 Coquille, City of  
 Corbett Water District  
 Cornelius, City of  
 Corvallis Waldorf School  
 Cottage Grove, City of  
 Country Club Water District  
 Country View Mobile Estates  
 Covanta Marion, Inc.  
 Cove Orchard Water Association  
 Cove, City of  
 Crater Lake National Park  
 Crescent Sanitary District  
 Crescent Water Supply & Improvement District  
 Creswell, City of  
 Crooked River Ranch Water Co-Op  
 Crystal Springs Water District  
 Culver, City of  
 Dallas, City of  
 Dayton, City of  
 Dayville, City of  
 Deer Creek Estates Water Association  
 Delphian School  
 Depoe Bay, City of  
 Deschutes Valley Water District  
 Detroit, City of  
 Dexter Oaks Mobile Home Park  
 Dexter Sanitary District  
 Diamond Peaks at Leisure Woods I&II  
 Diamond Summit Association  
 Dietz Airpark Water System  
 Donald, City of  
 Drain, City of  
 Drifter's MHP  
 Dry Creek Airpark HOA, Inc.  
 Dufur, City of  
 Dundee, City of

Eagle Point, City of  
 East Yamhill Rural Water Company  
 Eastmont Water Company  
 Eastshore Water Improvement District  
 Echo, City of  
 Elgin, City of  
 Elkton, City of  
 Emerald Meadows HOA  
 Emerald Valley Wastewater Co.  
 Enterprise, City of  
 Estacada, City of  
 Estacada Mobile Village, Inc.  
 Eugene Mobile Village  
 Fairview Water District  
 Fairview, City of  
 Falcon Cove Beach Water District  
 Falcon Heights Water & Sewer District  
 Fall Creek Water District  
 Falls City, City of  
 Fern Ridge School Dist. 28J-10  
 Fern Valley Estates Improvement Dist  
 Fernridge Mobile Estates  
 Fir Grove HOA  
 Fir View Water Company  
 Fishhawk Lake Recreation Club, Inc.  
 Florence, City of  
 Forest Park Mobile Village  
 Fossil, City of  
 Garden Valley Water Association  
 Garibaldi, City of  
 Gaston, City of  
 Gates, City of  
 Gearhart, City of  
 Georgia Pacific-Wauna  
 Gervais, City of  
 Gilchrist Water Co., LLC  
 Gladstone, City of  
 Glendale, City of  
 Gleneden Sanitary District  
 Glenmorrie Co-op Association  
 Glide Water Association  
 Goble Water Association  
 Gold Beach, City of  
 Gold Hill, City of  
 Government Camp Water Company  
 Grand Prairie Water Supply Company  
 Grand Ronde Community Water Association  
 Grand Ronde Sanitary District  
 Grants Pass, City of  
 Grass Valley, City of  
 Green Area Water & Sanitary Authority  
 Green Oaks Park  
 Greenhoot Properties  
 Haines, City of  
 Halfway, City of  
 Hall's Trailer Court  
 Halsey, City of  
 Harbor Water PUD  
 Harrisburg, City of  
 Hebo Joint Water/Sanitary Authority  
 Heceta Water PUD  
 Helix, City of  
 Heppner, City of  
 Hermiston, City of  
 Hidden Valley Improvement District  
 High Lostine Owners Association

Highland Subdivision Water District  
 Hiland Water Corporation  
 Hillsboro, City of  
 Hines, City of  
 Hood River, City of  
 Hopewell Water Co.  
 Hubbard, City of  
 Hunnell Hills Community Water System  
 Huntington, City of  
 Ice Fountain Water District  
 Idanha, City of  
 Idleway Improvement District, Inc.  
 Imbler, City of  
 Independence, City of  
 Indian Meadow Water Company  
 Inn at Otter Crest  
 Interlachen Water PUD  
 Ione, City of  
 Irrigon, City of  
 Island City, City of  
 Jackson County Parks  
 Jacksonville, City of  
 Jasper Knolls Water District  
 Jewell School District  
 John Day Water District  
 John Day, City of  
 Johnson Creek Water Services Company  
 Joseph, City of  
 Junction City, City of  
 Keizer, City of  
 Kellogg Springs Camp  
 Kelly's Brighton Marina, LLC  
 Kelso Water Association  
 Keno Water Company, Inc.  
 K-GB-LB Water District  
 Kilchis Water District  
 Kingswood Heights Water Association  
 Klamath Falls, City of  
 Klippel Water System  
 Knappa Water Association  
 Knoll Terrace Park  
 L.A. Water Cooperative  
 La Pine, City of  
 Labish Village Water Commission  
 Lady Creek Water System  
 Lafayette, City of  
 Laidlaw Water District  
 Lake Creek Lodge  
 Lake Grove Water District  
 Lake of the Woods Resort, LLC.  
 Lake Oswego, City of  
 Lakeside Water District  
 Lakeside, City of  
 Lakeview, Town of  
 Lakewood Homeowner's, Inc.  
 Lamb Weston  
 Lamontai Improvement District  
 Lamplighter Water Association  
 Lane County Parks  
 Langlois Water District  
 Laurelwood Water User's Co-op  
 Lawrence Subdivision Water Assn., Inc  
 Lawson Acres Water Assoc.  
 Lebanon, City of  
 Lexington, Town of  
 Lincoln City, City of  
 Little Beaver School, Inc.





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London Water Co-op  
 Long Creek, City of  
 Lonza Bend Inc.  
 Lostine, City of  
 Lowell, City of  
 Luckiamute Domestic Water Co-op  
 Lusted Water District  
 Lyons-Mehama Water District  
 Madras, City of  
 Madrone Hill Mobile Home Park  
 Madsen Springs Water Assn.  
 Malin, City of  
 Manzanita, City of  
 Mapleton Water District  
 Maupin, City of  
 McKay Acres Improvement District  
 McKenzie Palisades Water  
 McMinnville Water & Light  
 McNulty Water PUD  
 Merrill, City of  
 Metolius Meadows Prop. Owners Assn.  
 Metolius, City of  
 Midland Water Association  
 Mill City, City of  
 Milo Adventist Academy  
 Minikahda Water District, Inc.  
 Mitchell, City of  
 Modoc Point Sanitary District  
 Molalla, City of  
 Monmouth, City of  
 Monroe, City of  
 Monument, City of  
 Moro, City of  
 Morrow Commission, Port of  
 Mossy Brae Water District  
 Mt. Angel Abbey  
 Mt. Angel, City of  
 Mt. Ashland  
 Mt. Bachelor, Inc.  
 Mt. Shadows HOA  
 Mt. Vernon, City of  
 Mulino Water Dist. #23  
 Myrtle Creek, City of  
 Myrtle Point, City of  
 Nantucket Shores Water Company  
 NeahKahNie Water District  
 Nehalem, City of  
 Nesika Beach-Ophir Water District  
 Neskowin Regional Sanitary Authority  
 Neskowin Regional Water District  
 Netarts Water District  
 Netarts-Oceanside Sanitary Dist.  
 Newberg, City of  
 Newport, City of  
 North Corvallis Mobile Home Park  
 North Hill Water Corporation  
 North Powder, City of  
 Northwest Newberg Water Association  
 Nyssa, City of  
 Oak Lodge Water District  
 Oakland, City of  
 Oakridge, City of  
 Oakwood Water Systems, Inc.  
 Oceanside Water District  
 Ochoco West Water & Sanitary Authority  
 Odell Sanitary District  
 Olney-Walluski Water Association  
 OPRD Main Office - Salem  
 Orchard Heights Water Association  
 Oregon Cascade RV Co-op.  
 Oregon Shores Beach Club, Inc.  
 Oregon Shores II  
 Oregon Water Utilities-Cline Butte  
 Oregon Water Utilities-Mtn. Lakes  
 Oregon Water Wonderland II Sanitary District  
 Orient Drive Mobile Estates, LLC  
 Otter Rock Water District  
 Pacific High School  
 Paisley, City of  
 Paradise/Rogue Meadow WS  
 Parkdale Water Company, Inc.  
 Perrydale Domestic Water Association  
 Philomath, City of  
 Phoenix, City of  
 Pilot Rock, City of  
 Pine Grove Water District  
 Pioneer Park Water Co-op  
 Pioneer Village Water Company, Inc.  
 Pleasant Valley Water Company  
 Pleasant View Water Company  
 Polehn Heights Water Association  
 Ponderosa Pines Water Company  
 Port Orford, City of  
 Port of Columbia County  
 Power City Water Co-op  
 Powers, City of  
 Prairie City, City of  
 Prineville, City of  
 Quincy Water Association  
 Rainier, City of  
 Rainier School District #13  
 Red Hills Estates HOA  
 Redmond, City of  
 Redwood Water Service, Inc.  
 Reeder Ranch, Inc.  
 Reedsport, City of  
 Rhododendron Water Association  
 Richland, City of  
 Rickreall Community Water Association  
 Riddle, City of  
 Rieth Water & Sanitary District  
 Rimrock West Improvement District  
 River Meadows Improvement District  
 River Point Farms, LLC  
 Riverbend-Riverbank Water District  
 Rivergrove Water District  
 Riverside Water District  
 Roats Water System, Inc.  
 Rock Creek Water District  
 Rockaway Beach, City of  
 Rockwood Water PUD  
 Rocky Pointe Marina  
 Rogue Community College  
 Rogue Lea Estates MHP LLC  
 Rogue River, City of  
 Rogue River - Siskiyou National Forest  
 Roseburg Forest Products Company  
 Round Lake Water Utilities  
 Rufus, City of  
 Salem, City of  
 Salishan Sanitary District  
 Salmon Valley Water Company  
 Sandy, City of  
 Scappoose, City of  
 Scio, City of  
 Scotts Mills, City of  
 Scravel Hill Water Co-op  
 Seal Rock Water District  
 Seaside, City of  
 Seneca, City of  
 Shadow Hills Park Water Cooperative  
 Shangri-La Water District  
 Shelley Road Crest Acres W.D.  
 Sheridan, City of  
 Sherwood, City of  
 Siletz Community Water System  
 Siletz, City of  
 Silver Falls School District 4J  
 Silverton, City of  
 Sisters, City of  
 Skylane Farm  
 Skyview Acres Water Company  
 Sleepy Hollow Phase 1 Water  
 Sodaville, City of  
 South Fork Water Board  
 South Hills Water System, Inc.  
 South Umpqua Water Assn.  
 Southview Improvement District  
 Southwood Park Water District  
 Spirit Mountain Gaming, Inc.  
 Sportsman's Park Water Association  
 Spray, City of  
 Springwater Estates HOA  
 St. Paul, City of  
 Staffordshire Water System, Inc.  
 Stahlman Summer Homes  
 Stanfield, City of  
 Star Satellite Improvement District  
 Stayton, City of  
 Steeves Mobile City  
 Storlie Water Company Inc.  
 Sublimity, City of  
 Suburban East Salem Water District  
 Sumpter, City of  
 Sun Mountain Water System  
 Sunny Acres Water Co.  
 Sunridge Estates  
 Sunrise Water Authority  
 Sunriver Water LLC/Sunriver Utilities  
 Sunset Acres Water Company  
 Sunset Hills Domestic Water Assn.  
 Sunset Lake RV Park  
 Sunset Water Systems, Inc.  
 Sunshine Village Water Association  
 Sutherlin, City of  
 SW Lincoln County Water PUD  
 Sweet Home, City of  
 Talent, City of  
 Terrace Mobile Plaza  
 Terrebonne Domestic Water District  
 The Dalles, City of  
 Three Rivers School District  
 Tierra Del Mar Water Company  
 Tigard, City of  
 Tillamook Bay, Port of  
 Tillamook County Creamery Association  
 Tillamook, City of  
 Timber Water Association  
 Toledo, City of  
 Tollgate Water Company  
 Tone Water  
 Tooley Water District  
 Trailer Park Village  
 Trappist Abbey  
 Tri City Water & Sanitary Authority  
 Troutdale, City of  
 Tualatin Valley Water District  
 Tualatin, City of  
 Turner, City of  
 Twin Island Community Water  
 Twin Rocks Sanitary District  
 Tygh Valley Water District  
 Ukiah, City of  
 Umatilla, City of  
 Umatilla Indian Conf. Tribes Reservation  
 Umpqua Basin Water Assn.  
 Umpqua Indian Utility Co-op  
 Union, City of  
 Vale, City of  
 Valley View Water Co-op  
 Valley View Water District  
 Valley Vista Estates Water Improv. Dist.  
 Veneta, City of  
 Vernonia, City of  
 VIDA-LEA Community Co-op  
 Waldport, City of  
 Wallowa Lake Co. Service District  
 Wallowa, City of  
 Warm Springs Conf. Tribes Reservation of OR  
 Warren Water Association  
 Warrenton, City of  
 Wasco, City of  
 Water Wonderland Improvement District  
 Wedderburn Sanitary District  
 Weiss Estates Water System  
 Welches Water Company  
 Weldon Mobile Home Park  
 West Hills Water Company  
 West Linn, City of  
 West Slope Water District  
 Western Heights Water Association  
 Westfir, City of  
 Weston, City of  
 Westport Water Association  
 Westridge Water District  
 Westwind  
 Wheeler, City of  
 Wickiup Water District  
 Willamette Water Company  
 Willamina, City of  
 Wilsonville, City of  
 Winchester Bay Sanitary  
 Wi-Ne-Ma Christian Camp, Inc.  
 Winston-Dillard Water District  
 Wood Village, City of  
 Woodburn, City of  
 Yachats, City of  
 Yamhill, City of  
 Yoncalla, City of  
 Young Life  
 Young's River Lewis & Clark WD  
 Zig Zag Water Cooperative, Inc.



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Hollabaugh Brothers	LLC-Underground Solutions, Inc.	Huntyr Croy	Marcus Martin	Deno Madrigal	Mona Rezaei
Legacy Power Systems	Baker Silo, LLC	Dylan Bridges	Pat Lerma	Larry Jennings	Amy Clingman
Thompson McLean Associates	Western Systems	Jason Stewart	Jennifer Wirsing	Juliet Hyams	Robert Eichler
		Jebadiah Pippenger	Neil Branson	Brice Blackwelder	Erin Davis
		Mike Smallman	Noah Hixson	Shane Ortega	Brian Lane
		James Bennington	Josh DeHaan	Forrest Houle	
Rainier School District #13					

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Adkins, Jacob	Chipman, Kenneth	Gaskey, Harvey	Hughes, James	Marshall, John	Partney, Sheldon	Stark, Chris
Allred, James	Christensen, Matthew	Gentry, Mike	Hume, John	Martin, Marcus	Pierce, Scott	Statchwick, Jeff
Anderson, Dale	Clark, Jamie	Gil, Riley	Hunter, Greg	Martin, Wyatt	Pike, Steven	Steidler, Matthew B.
Anderson, Kenneth	Clark, Joshua	Gilkison, Levi	Hyams, Juliet	McCready, Wade	Pino, Patricia	Stewart, Jason
Anthony, Joe	Clement, Tony	Glanz, Jared	Jackman, Danaea	McElroy, Kerry	Pippenger, Jebadiah	Stirling, Ethan
Bagdonas, Eric	Clingman, Amy	Gott, Craig	Jackson, Pat	McFall, William B.	Powers, Ryan	Sundstrom, Daniel
Barnes, Chase	Close, Greg	Graue, Nick	Jacob, David	McGanty, Mike	Pryor, Ben	Taylor, Ian
Bateman, William	Coffman, Victoria	Halverson, Bruce	Jennings, Larry	McGinnis, Lee	Ramsey, Tyler	Terrusa, David
Bazan, Giovanni	Conant, Charles	Hamilton, Howard	Johnson, Grady	McMullen, Ryan	Ranch, Destin	Thompson, Branden
Bennington, James	Connelly, Barbara	Hamilton, Megan	Jones, Robert	Merrell, Thomas	Rand, Terry	Thayer, Bradley
Bidwell, John	Conyac, Jeremy	Hamilton, Mitchell	Judah, Dave	Miranda, Michelle	Renhard, Chad	Tibbets, Taylor
Blackwelder, Brice	Crosby, Ty	Hand, Eric	Katrena, Scott	Mitchell, Michai	Rezaei, Mona	Tupper, Sean
Blench, Steven	Croy, Huntyr	Hanks, Kevin	Kemmer, Alex	Moffit, Jeremiah	Robinson, Rob	Uhrich, William J.
Blofsky, Brett	Crum, Dale	Haring, Joshua	Kemper, John	Moretti, Garrett	Robustelli, Jason	Valencia, Albert
Bodner, Jermey	Davis, Erin	Hawkins, Michael	Kirchmann, Russell	Monroe, Donald	Saubert, Terry W.	VanWagoner,
Boyles, Blake	Degn, Tony	Hensley, Daryl	Klinger, Martin	Morris, Brady	Schaafsma, Eric	McClellen
Branson, Neil	DeHaan, Josh	Hermansen, Dave	Krause, Courtney	Morrow, Jason	Schluckebier, Dave	Vega, Braden
Bridges, Dylan	Demanett, Micah	Hills, Tyler	Kuiken, Dakota	Mudra, Austin	Schroder, Michael C.	VonPinnon, Michael
Brown, Jeff	Doss, Chris	Hisaw, Russ	Kunders, Aaron	Neal, David	Scott, Keri	Vorpahl, Mike
Brown, Rick	Durfee, Kenneth	Hixson, Noah	Laetzsch, Dawna	Nelson, Ron	Sears, Ronelle	Wabschall, Aaron
Buskirk, Jeff	Eichler, Robert	Hoefler, Matthew	Lambert, Ross	Norris, Rick	Seelye, Shawn	Wabschall, Steve
Cable, Joe	Elder, Dave	Hoesch, Jacob	Lane, Brian	Novac, Samuel	Sewall, Andrew	Welch, Logan
Caldwell, Kevin	Emmel, Triston	Horton, Ray	Lee, Jon	Odell, Mark	Sibert, Donald	Wesely, John
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Cameron, Zachary	Fluetsch, John	Howard, Richard	Lockard, Darrel	Ott, Mallory	Smith, Contrail	Wirsing, Jennifer
Carlson, Rob	Free, Derek	Howell, Roy A.	MacCarthy, Steven	Paola, Robert	Smith, Joseph Sr.	Woodward, Steve
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Ceballos, Oscar	Gallino, Joseph	Huff, Zach	Marshall, Chad	Parrish-Green, Angela	Springer, Rondi	Zuniga, Antonio

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4B Engineering & Consulting	CIMCO-GC Systems, Inc.	General Pacific, Inc.	Neptune Technology Group	SHN Consulting Engineers & Geologists
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AKTIVOV Asset Management	Columbia Laboratories	Hollabaugh Brothers & Associates	Optimal Control Systems	The Automation Group
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American Flow Control	CORE & MAIN	Hose Solutions	Oregon Public Utility Commission	Thompson McLean Assoc.
American Leak Detection	Correct Equipment, Inc.	Hurley Engineering Company	Orenco Systems	TMG Services
Anderson Perry & Associates	Ditch Witch West	Hydra-Stop	Owen Equipment Company	Trade Tool
Aqualtec Corp.	Diversified Construction and Consulting, LLC	HYMAX by Mueller	Owens Pump & Equipment	Tripac
Backflow Management, Inc. (BMI)	DN Tanks	InfoSense, Inc.	PACE Engineers, Inc.	U.S. Cellular
Badger Meter, Inc	Edge Analytical Laboratories	Instrument Technology Corporation	Pacific NW Sales	UGSI Solutions
Bainbridge Associates, Inc	EJ	Kasco Marine	Pittsburg Tank & Tower Co.	Umpqua Research Co.
Baker Silo, LLC.	Energy Trust of Oregon	Kennedy/M&H Valve	Probiotic Solutions	Underground Tech.
Bancorp Insurance	Enviro-Clean Equipment, Inc.	Lakeside Industries/EZ Street	PumpTech Inc	USABluebook
Beebe Water Systems	Ferguson Enterprises	League of Oregon Cities	Puttman Infrastructure, Inc.	Vortex Pipe
Big Dog Sales, NW	FloHawks	Legacy Power Systems	RDO Equipment	Waterlab Corp
BioLynceus, LLC	Frank J. Martin Company	Master Meter, Inc.	Reiner Pump	Western Systems
Business Oregon Development Dept.	Frontier Precision, Inc.	Max Distributing	Romac Industries, Inc.	Western Water Works Supply, Co.
Cascade Columbia Distribution Co.	Frost Engineering Service Company NW	Metolius Engineering LLC	Romtec Utilities, Inc.	Whitney Equipment Company, Inc
Cascade Waterworks	Furrow Pump, Inc.	Morrison-Maierle	Schneider Water Services	Wm H. Reilly & Co.
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