



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Large fuel spills And How do they Affect your water And wastewater Systems

Presenter: MARK LANDAU Title: Operations manager

Employer: City of Monmouth Address: 401 N. Hogan Rd.

City: Monmouth State: OR Zip: 97361 Phone: 503-838-2173

Summary of Lesson content: Fuel Spills in Monmouth. How THE water and wastewater systems were affected. Steps TAKEN, Testing, monitoring, Air Quality, Disposal, cleanup, DEQ involvement, STAKE holders, meetings held.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: On Site for 19 days on such incident. in water/wastewater industry for 26+ years.

Education (High School, Upgrades, Colleges and Degrees): High School, some college, state certified water/wastewater, 26+ years of CEU classes.

Professional Registration/Certification: State certified <sup>waste</sup> water CII/TII  
Water DJI/TI

Related papers/instruction you have presented:

Title: Same as above Date: Nov. 2021 Event: DAWU @ Spirit Mt.

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities:

PNCWA Past President, current Board member Date: June 2003 to current

\_\_\_\_\_  
Date: \_\_\_\_\_

Course sponsor: PNCWA - West Central Section

Signature of Instructor: Mark A. Landau Date: Feb 1, 2022

DO NOT WRITE BELOW THIS LINE

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

Return Completed Form To: OESAC CEU COMMITTEE  
P.O. Box 577  
Canby, OR 97013-0577  
Email: [info@oesac.org](mailto:info@oesac.org)  
Phone: 503-698-6486



## Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Submersible Pumps & Preventative Maintenance

Presenter: Dave Olson Title: Salesman

Employer: Xylem Address: 9625 SW Tualatin-Sherwood Rd

City: Tualatin State: OR Zip: 97062 Phone: 503-789-7330

### Summary of Lesson

content: What makes up a pump and how to maintain it

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 15 Years working at Xylem maintaining pumps and equipment

Education (High School, Upgrades, Colleges and

Degrees): Associates in Process Instrumentation

Professional Registration/Certification:

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities:

\_\_\_\_\_ Date: \_\_\_\_\_

Return Completed Form To: OESAC CEU COMMITTEE Email: [info@oesac.org](mailto:info@oesac.org) Date: \_\_\_\_\_

Course sponsor: P.O. Box 577 Phone: 503-698-6486

Canby, OR 97013-0577

Signature of Instructor: Dave Olson Date: 11/12/2022

**DO NOT WRITE BELOW THIS LINE**



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Reduce Operating Costs with Energy Efficiency

Presenter: Kelson Redding PE Title: Energy Efficiency Project Engineer

Employer: Energy 350 (working with Energy Trust) Address: 1033 SE Main St. Suite 1.

City: Portland State: OR Zip: 97214 Phone: 503-442-0656

Summary of Lesson content: It is a common misconception that energy is a fixed cost. This presentation will highlight the biggest energy users common in wastewater treatment plants and present ideas to help reduce operating costs.

In addition we will show you how to get utility incentives for energy efficiency projects

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: As a delivery contractor for Energy Trust of Oregon's Production Efficiency program, Energy 350 has experience working with many WWTPs in Oregon on efficiency projects.

Education (High School, Upgrades, Colleges and Degrees): B.S. in Mechanical Engineering

Professional Registration/Certification: Licensed Professional Engineer

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: Oregon Association of Professional Energy Managers, Vice President Date: 12/15/2022

\_\_\_\_\_  
Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: \_\_\_\_\_ Date: \_\_\_\_\_

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Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Cellular telemetry

Presenter: Tim Owens Title: VP

Employer: Correct Equipment Address: 300 S Redwood Street 135

City: Canby State: OR Zip: 97013 Phone: 503.582.0555

Summary of Lesson content: Introduction to cellular based telemetry. An overview of different types of radio architectures.

Navigation of how these systems work while detailing the pros and cons of each type of system.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: I have worked in and with water utilities for over 13 years, helping

utilities decide and troubleshoot various telemetry systems. We work with several suppliers that design and provide cellular based solutions.

Education (High School, Upgrades, Colleges and Degrees): PCC

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: What if Your Meters Could Hear the Leaks You Can't See Date: 11/17/21 Event: Umpqua Operator Conference

Title: What if Your Meters Could Hear the Leaks You Can't See Date: 10/27/21 Event: OAWU

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

AWWA Member Date: Current

Course sponsor: \_\_\_\_\_

Signature of Instructor: Tim Owens Digitally signed by Tim Owens Date: 2021.12.03 14:47:08 -08'00' Date: 12/3/21

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Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Wipes in Our Pipes - Recently Product Labeling Laws

Presenter: Frank Dick Title: Wastewater Engineering Supervisor

Employer: City of Vancouver (WA) Address: PO Box 1995

City: Vancouver State: WA Zip: 98668 Phone: 503-539-8940

Summary of Lesson content: Overview of conditions and problems caused by consumer wipes entering sewer systems and wastewater treatment plants over the last 20 years. Recent legislation in the Pacific Coast states now require more prominent "Do Not Flush" labeling on packages. Is it making a difference?

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: See resume . . . I have been active in local, national and international efforts to address wipes issues and worked with tech groups on better tests for "flushability"

Education (High School, Upgrades, Colleges and Degrees): \_\_\_\_\_

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: Numerous Wipes Presentations Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title: Numerous Energy Efficiency Presentations Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: *Frank Dick* Digitally signed by Frank Dick Date: 2022.12.28 14:16:55 -08'00' Date: 12/28/2022

**DO NOT WRITE BELOW THIS LINE**  
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Canby, OR 97013-0577

# Frank Andrew Dick, P.E.

1204 SE Ash Street  
Portland, OR 97214

phone: 503-539-8940  
e-mail: [frankydk@hotmail.com](mailto:frankydk@hotmail.com)

**Chemical Engineer** – Trained and experienced in municipal wastewater, sewer and water engineering management; and facilities operations and maintenance in semiconductor industry. Strong knowledge of industrial and municipal facilities processes, environmental regulations and compliance programs.

**Professional Engineer (P.E.)** – Chemical Engineering, 1997. Oregon Registration No. 19166PE (idle). Washington License No. 40113.

## WORK HISTORY

### **Wastewater Engineering Supervisor – (2014 – present) – City of Vancouver, WA**

- Supervision of engineer, scientist, technician and educator staff.
- Administration of long-term contract for wastewater treatment plant operations and maintenance. Primary contact with O&M project manager for Vancouver.
- Short term and long range planning for capital improvement projects, engineering studies and education program advancements.
- Engage regulatory agency contacts for wastewater and air permits, state and federal level environmental initiatives directly and indirectly affecting wastewater treatment plant operations.

### **Wastewater Engineer / Pretreatment Coordinator – (2006 – 2014) – City of Vancouver, WA**

- Administration and oversight of all functions of fully delegated Industrial Pretreatment Program (IPP).
- Provided oversight and design of updated IPP that included new sewer use ordinance and program documents consistent with EPA Streamlining Rules. Presented to City Council for adoption.
- Planned and managed energy efficiency-related capital projects for wastewater operations.
- Engineering oversight of capital preservation projects, including equipment replacement, protective coatings for equipment, building restoration and process optimization.

### **EHS Consultant – (2004 –2006) – EORM, Inc. and ERM, Inc. Portland, OR**

- Environmental engineering support and environmental advisory services to industrial clients, many in Clark County.
- Prepared, reviewed and certified spill control and other environmental plans.
- Prepared and administered industrial (semiconductor) facility closure plan.
- Environmental program assessments for large industrial and retailer facilities.

### **Independent Contract Engineer – (2003 –2004) – Self-employed. (Part-time)**

- Prepared, reviewed and certified spill control plans for industrial clients.
- Prepare environmental permit applications and wastewater treatment system engineering reports for industrial clients.

### **Senior Facilities Operations and Maintenance Engineer – (1995 –2002) – SEH America, Inc. Vancouver, WA**

- Provided engineering and technical support for facility operations including air pollution control equipment, industrial wastewater treatment, hydrogen gas recovery unit, bulk hazardous and inert gas delivery systems.
- Designed and managed installation and startup of facility systems including wet scrubbers, chemical delivery tanks and bulk gas systems that resulted in operational and environmental performance.
- Conducted hazard operability studies on hazardous gas and chemical systems site-wide and implemented action items for safer operations and regulatory compliance.
- Decommissioned hydrogen recovery system that contained flammable, corrosive, toxic, pyrophoric and

shock sensitive materials.

**Air and Process Engineer – (1995) – CH2MHill, Portland, OR**

- Gathered and compiled air emissions data for CAA Title V air operating permit applications for pulp and paper, port, military and chemical process facilities. Negotiated regulatory interpretations and permit conditions with Oregon Department of Environmental Quality.

**Instructor – (1995, 1996) Oregon Graduate Institute, Hillsboro, OR**

- Prepared materials and provided instruction for graduate-level course in Practical Applications of Air Pollution Control and Regulations.

**Environmental Engineer – (1988 – 1995) – SEH America, Inc. Vancouver, WA**

- Environmental regulatory/compliance – developed and managed programs for hazardous waste, air, water, waste minimization, OSHA process safety management, SARA, TSCA, DOT, tank management, site assessments.
- Pollution control equipment projects – designed processes for air pollution control and water treatment equipment, including solvent recovery systems and air strippers.
- Environmental projects – managed recycling and elimination programs for solvents, managed waste reduction efforts that resulted in SEH receiving the Association of Washington Business Environmental Excellence Award for Pollution Prevention (1993)

**EDUCATION**

**B.S. Chemical Engineering** – Washington State University, Pullman, Washington. Minors in math and chemistry.

**Master of Engineering Management Program** – Washington State University, Vancouver, Washington. 19 semester hours completed.

**LEADERSHIP & TECHNICAL COMMITTEES**

- National Association of Clean Water Agencies (NACWA) – Board Member and Chair of Pretreatment and Pollution Prevention Committee
- Oregon Association of Clean Water Agencies (ACWA) – Board member and Chair of Biosolids and Recycled Water Committee
- WEF / PNCWA – Member, active in PNCWA Membership Committee – Racial and Social Justice subcommittee
- International Water Services Flushability Group (IWSFG)\* – Founding member
- ISO TC 224 WG 10 Service activities relating to drinking water supply systems and wastewater systems – Flushable products
- Pacific Northwest Pretreatment Workshop – Past chair of planning committee

**AWARDS AND RECOGNITION**

- NACWA National Environmental Achievement Award for Utility Leadership (2020)
- PNCWA Individual Distinguished Achievement Award (2021)
- Oregon ACWA Special Recognition Award (2021)

**RELATED SKILLS**

- Preparation and delivery of numerous presentations for wide audiences including City Council, local organizations, conferences, with subjects including wastewater systems, energy management program, solids management, wipes.
- ISO 14001 Environmental Management Systems
- Industrial & Municipal Energy Management Programs
- Emergency Response, Spill Contingency Planning (formerly 40-hour HAZWOPER trained)
- Hazard Operability Study (HAZOPS) team leader
- Inventor, U.S. Patent Number 5,637,282. Nitrogen Oxide Scrubbing with Alkaline Peroxide Scrubber
- Lean Six Sigma (LSS) – Yellow Belt, currently enrolled in Green Belt coursework



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Vendor Tour

Presenter: Moderator: Lisa Erkert Title: Environmental Technician

Employer: EWEB Address: 3957 Hayden Bridge Rd

City: Springfield State: OR Zip: 97477 Phone: 541-685-7124

Summary of Lesson content: Interactive time for attendees to learn about new technologies, equipment, and useful tools for the water and wastewater sectors by taking a tour of this year's vendors.

Complete vendor passport required for attendance.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Three years experience at Delta Environmental operating small wastewater and public water systems and 3.5 years in source protection at EWEB.

Education (High School, Upgrades, Colleges and Degrees): Bachelor of Science in Environmental Science at the U of O

Professional Registration/Certification: Wastewater Collections Level 1, Wastewater Treatment Level 1, Water Treatment Level 1

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: Lisa Erkert Digitally signed by Lisa Erkert Date: 2023.01.03 16:32:07 -08'00' Date: 1/3/22

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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Phone: 503-698-6486





# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Inline Pipeline Inspections: Technologies and Methodologies

Presenter: Jenna Mariano Title: Business Development Manager

Employer: Pure Technologies, a Xylem Brand Address: 9940 Summers Ridge Rd

City: San Diego State: CA Zip: 92121 Phone: 415-265-3439

Summary of Lesson content: Attendees will learn modern inspection, assessment, and management techniques of pressurized pipelines through the use of state-of-the-art and innovation solutions and technologies.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 8 years of experience in the water and wastewater industry.  
Experience includes consulting and field inspection of pressurized pipelines.

Education (High School, Upgrades, Colleges and Degrees): Bachelor of Science in Environmental Engineering from San Diego State University

Professional Registration/Certification: N/A

Related papers/instruction you have presented:


Title: Condition Assessment of Critical Date: 8/4/21 Event: ASCE Pipelines 2021 Conference

Title: Steel Water Main in Spokane, WA Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: American Water Works Association Date: Ongoing

Pacific Northwest Clean Water Association Date: Ongoing

Course sponsor: \_\_\_\_\_

Signature of Instructor:  Date: 12/27/22

**DO NOT WRITE BELOW THIS LINE**  
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Canby, OR 97013-0577



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Manhole and Trenchless Pipe Repair

Presenter: Doug Troyer Title: Owner

Employer: Underground Tech Address: 1901 Strawberry Ln.

City: Lebanon State: OR Zip: 97355 Phone: 541-990-2791

Summary of Lesson content: What to look for in storm or sanitary sewer systems and a look at technologies available to protect and extend the life of infrastructure.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Owner of Underground Tech for 5 years  
Providing manhole and rehab point repairs throughout Oregon

Education (High School, Upgrades, Colleges and Degrees): high-school

Professional Registration/Certification: Certified manhole rehab applicator for Madewell Products Corp

Related papers/instruction you have presented:

Title: protecting the collection system Date: 1-2022 Event: 2022 Oregon Operators Conference

Title: Being proactive with manhole rehab Date: 3-2020 Event: OAWU Sunriver

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor:  Date: 12-29-22

**DO NOT WRITE BELOW THIS LINE**  
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Phone: 503-698-6486



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Solutions for Pump Plugging

Presenter: Rich Owens Title: President

Employer: Owens Pump & Equipment Address: 138 S Hazel Dell Way

City: Canbt State: OR Zip: 97013 Phone: 503-420-8390

Length of Lesson: 1 HR Lesson applies to:  Water  Wastewater  Both  Online Option:

Summary of Lesson content: How to prevent plugging in wastewater collections.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Crane/Barnes Sithe Training

Education (High School, Upgrades, Colleges and Degrees): MHCC 1992 Tigard High

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: Solutions for Pump Plugging Date: 4/2022 Event: OAWU

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities:

\_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: Rich Owens Date: 8/2/2022

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Influent Pump Station Flow Equalization at the Rock Creek AWRRF

Presenter: Chris Maher Title: Senior Operations Analyst

Employer: Clean Water Services Address: 2550 SW Hillsboro Hwy

City: Hillsboro State: OR Zip: 97123 Phone: 5036813600

Summary of Lesson content: Lesson covers the development and implementation of influent flow equalization including data analytics, programming, and plant benefits such as energy efficiency, equipment runtime, process stability and monitoring of collection system conditions.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 20 years experience as Certified Wastewater Treatment Operator. Operation of advanced activated sludge and biological nitrogen and phosphorus removal processes.

Education (High School, Upgrades, Colleges and Degrees): Diploma, Douglas County High School; BS Chemistry, Colorado State University; MSEE, Illinois Institute of Technology

Professional Registration/Certification: Oregon DEQ Wastewater System Operator, Treatment, Grade IV, 12610

Related papers/instruction you have presented:

Title: Secondary Fundamentals Date: 8/2019 Event: Corvallis/CWS Joint Training Project

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: WEF, PNCWA Date: 8/1/2000

Plant Operations and Maintenance Committee Date: 9/1/2008

Course sponsor: Clean Water Services

Signature of Instructor: Chris Maher Digitally signed by Chris Maher Date: 2023.01.03 09:45:06 -08'00' Date: 1/3/2023

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# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Inflow and Infiltration-Manhole Inspections

Presenter: Jim Brown Title: Sales Representative

Employer: True North Equipment Address: 3150 SE Century Blvd., Suite 100

City: Hillsboro State: OR Zip: 97123 Phone: 503-319-8488

Summary of Lesson content: This class discusses some of the differences between Inflow and Infiltration, where to look, a assessment, and methods and terminology used in manhole inspection as well as a brief discussion into NASSCO and

MACP assessment.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 17 years experience in sanitary sewer cleaning and inspection, 14 year member of Oregon APWA Education Committee.

Education (High School, Upgrades, Colleges and Degrees): Specialized training with reporting software, attended NASSCO training.

Professional Registration/Certification: none

Related papers/instruction you have presented:

Title: Phased Assessment for Sewer Sys Date: 3/2021 Event: Oregon APWA Short School, Bend, OR.

Title: Pipe Assessment 101 Date: 10/2022 Event: Oregon APWA Short School, Newport, OR.

Professional Organizations/Activities: Oregon APWA Education Committee Member since 2008 Date: started 9/2008

Washington Association of Water & Sewer Districts Date: 9/2019

Course sponsor: \_\_\_\_\_

Signature of Instructor: Jim Brown Digitally signed by Jim Brown  
DN: cn=Jim Brown, c=US, o=True North Environmental  
Equipment, ou=Sales, email=jbrown@truenorthenviro.com  
Date: 2020.01.07 10:24:18 -08'00' Date: 12/9/22

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**Instructor Background And Information Form**

Thank you for filling out this form.

Presentation Title: Package Lift Stations for FAST Retrofits

Presenter: Rich Owens Title: President

Employer: Owens Pump & Equipment Address: 138 S Hazel Dell Way

City: Canbt State: OR Zip: 97013 Phone: 503-420-8390

Length of Lesson: 1 HR Lesson applies to:  Water  Wastewater  Both  Online Option:

Summary of Lesson content: How to upgrade your lift station with minimal downtime and retrofit.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Ebara & S&K Training

Education (High School, Upgrades, Colleges and Degrees): MHCC 1992 Tigard High

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: Solutions for Pump Plugging Date: 4/2022 Event: OAWU

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities:

\_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: Rich Owens

Signature of Instructor: Rich Owens Date: 8/2/2022

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Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Intelligent Wastewater Pumping - Station, pump and control considerations for your next RFP

Presenter: Simon Cartwright Title: Municipal Project Representative

Employer: Xylem - Flygt Products Address: 9625 Tualatin - Sherwood RD

City: Tualatin State: OR Zip: 97062 Phone: 503 913 0119

Summary of Lesson content: Over the course of two hours we will explore the newer wastewater lift station controls which if used correctly can reduce operational costs significantly. We will also cover the optimal station design and pump

considerations that are needed to implement these controls culminating in a look at the next generation of combined system

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: \_\_\_\_\_

Education (High School, Upgrades, Colleges and Degrees): \_\_\_\_\_

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: Same title Date: 08/24/2022 Event: OAWU Summer conference Seaside

Title: Wastewater pumps with integrated control Date: 10/25/2022 Event: APWA Conference Newport

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: \_\_\_\_\_ Date: 1/5/2023

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Phone: 503-698-6486

**Simon Cartwright** joined Xylem- Flygt Portland as the municipal projects representative in October 2011. Prior to this he worked at Orenco Systems for 5 years culminating as the Eastern Regional Manager, supporting their business partners east of the Rocky Mountains and internationally (Canada and South Pacific) specializing in residential on-site treatment. A native of Australia, Simon served 10 years in the Royal Australian Navy, working in both the electrical and mechanical engineering fields. After the military, he worked in engineering sales for Flygt in Australia between 1997 and 2005, helping engineers design, install, and maintain private and municipal wastewater treatment, pump stations and control systems.

Simon also owned and operated a bookstore for seven years, so he's well-grounded in business management. Simon came to Oregon to be closer to his wife's family, and spends much of his time off experimenting with growing Périgord truffles at his home orchard located in Cottage Grove.





## Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Pump Station and Waste Water Construction

Presenter: Zach Toney Title: Project Manager

Employer: K&E Excavating, Inc Address: 3871 Langley St. SE

City: Salem State: OR Zip: 97317 Phone: 503-399-4833

Summary of Lesson content: Contractor point of view on constructing pump stations and waste water facilities.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: \_\_\_\_\_

Education (High School, Upgrades, Colleges and Degrees): \_\_\_\_\_

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: *Zach Toney* Date: 1/3/2023

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

Return Completed Form To: OESAC CEU COMMITTEE  
P.O. Box 577  
Canby, OR 97013-0577  
Email: [info@oesac.org](mailto:info@oesac.org)  
Phone: 503-698-6486



# Zach Toney

Project Manager



3871 Langley Street SE  
Salem, OR 97317

Mobile: 503.507.4546

Email: [zacharyt@keex.net](mailto:zacharyt@keex.net)

## INDUSTRY EXPERIENCE

8 years

## K&E EXPERIENCE

8 years

## EDUCATION

BS, Construction Engineering Mgmt  
*Oregon State University*

## SPECIALIZED TRAINING

Leadership Development

## LICENSES/CERTIFICATIONS

Competent Person Trained

Certified Erosion & Sediment  
Control Lead (CESCL)

Zach has worked in various capacities within the heavy civil construction industry for over 8 years since earning his degree in Construction Engineering Management from Oregon State University. This experience has given Zach a powerful skill set helping him to successfully lead complicated construction projects including water pump station, water transmission mains and watermain with services projects. In addition, Zach has managed other challenging projects including electrical energy infrastructure, road/street and underground sanitary sewer and storm drain utility projects. Zach is experienced in working with the owners' project team to resolve and develop project execution, changes, design-build items and value-engineering options, all while staying focused to bring projects to completion ahead of schedule and under budget.

## SELECT PROJECT EXPERIENCE

*January 2022 - Current* *Role: Project Manager*  
CITY OF SALEM | HAYESVILLE SEWER PUMP STATION & WATER IMPROVEMENTS  
Salem, Oregon - \$5.1 million

*December 2021 - Current* *Role: Project Manager*  
CITY OF WOODBURN | 15 PUMP STATION & FORCE MAIN UPGRADES  
Woodburn, Oregon - \$5.4 million

*March 2020-June 2021* *Role: Project Manager*  
TUALATIN VALLEY WATER DISTRICT | METZGER NORTH-SOUTH FIRE FLOW PROJECT  
Tigard, Oregon - \$4.3 million

*March 2020-July 2020* *Role: Project Manager*  
MCMINNVILLE WATER & LIGHT | LAFAYETTE FINISHED WATER TRANSMISSION MAIN  
McMinnville, Oregon - \$1.9 million

*April 2019-May 2019* *Role: Project Manager*  
BONNEVILLE POWER ADMINISTRATION | MAUPIN SUBSTATION  
Maupin, Oregon - \$685,000

*March 2019-August 2020* *Role: Project Manager*  
CITY OF SALEM | BOONE ROAD WATER PUMP STATION UPGRADES  
Salem, Oregon - \$3.2 million

*January 2019-November 2019* *Role: Project Manager*  
PRIVATE DEVELOPER | TOUCHMARK IN THE WEST HILLS VINEYARD HOMES  
Portland, Oregon - \$662,000

*July 2018-December 2018* *Role: Project Manager*  
CITY OF STAYTON | MILL CREEK REGIONAL STORMWATER FACILITY  
Stayton, Oregon - \$1.6 million

*June 2018-November 2018* *Role: Project Manager*  
PRIVATE DEVELOPER | TOUCHMARK HEIGHTS DEVELOPMENT  
Portland, Oregon - \$7.3 million

*March 2018-December 2018* *Role: Project Manager*  
BONNEVILLE POWER ADMINISTRATION | QUENETT CREEK SUBSTATION  
The Dalles, Oregon - \$3.1 million

*October 2017-May 2018* *Role: Project Manager*  
CITY OF OREGON CITY | BEAVERCREEK ROAD SEWER  
Oregon City, Oregon - \$1.1 million

*May 2017-October 2018* *Role: Project Manager*  
CITY OF DUNDEE | HIGHWAY 99W PHASE A  
Dundee, Oregon - \$2.1 million

## REFERENCES

References are available upon request.



## Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Wastewater Collections Asset Management in Albany, Oregon

Presenter: David Twenge Title: Tech Services Supervisor

Employer: City of Albany, Oregon Public Works Address: 310 NE Waverly Drive

City: Albany State: OR Zip: 97321 Phone: 541-910-0161

Summary of Lesson content: Overview of our use of NASSCO inspections and asset management process for sanitary and storm sewer wastewater systems.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 35 year career in software support of operations, last 15 year with software asset management systems for electrical utilities and public works

Education (High School, Upgrades, Colleges and Degrees): BS and MBA Oregon State University

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: Software integration overview Date: 10/2012 Event: Annual Software Users Group

Title: Transformer Maint Trigger Overview Date: 10/2011 Event: Annual Software Users Group

Professional Organizations/Activities:

\_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: David Twenge Digitally signed by David Twenge  
Date: 2023.01.05 10:27:49 -08'00'

Date: \_\_\_\_\_

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

Return Completed Form To: OESAC CEU COMMITTEE  
P.O. Box 577  
Canby, OR 97013-0577

Email: [info@oesac.org](mailto:info@oesac.org)  
Phone: 503-698-6486



## Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Working Towards Compliance: Case Study and Industrial Pretreatment Program Development

Presenter: Stephanie Kerns Title: Environmental Compliance Specialist

Employer: City of Newport Address: 169 SW Coast HWY

City: Newport State: OR Zip: 97365 Phone: (541)819-7249

Summary of Lesson content: A Case Study of permitting a large brewery in a small community which includes; steps taken, successes, failures and lessons learned. Describes the breweries effects on the Wastewater Treatment Plant and how the permit was created to help lessen those negative effects. Development of the Pretreatment Program.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Industrial Pretreatment Program Development and Implementation, Wastewater characterization and regulation, Outreach and education to industries, public and City admin.

Education (High School, Upgrades, Colleges and Degrees): See attached Resume

Professional Registration/Certification: See attached Resume

Related papers/instruction you have presented:

Title: Working Towards Compliance Date: 6/16/2022 Event: ORWEF Short School

Title: Optimization of Biosolids production Date: 03/28/2018 Event: ORWEF Short School

Professional Organizations/Activities:

Oregon ACWA - Pretreatment Committee, Biosolids Committee and ACWA Board Date: 04/2016 - Present

ORWEF Short School Planning Committee Date: 07/2022 - Present

Course sponsor: AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: \_\_\_\_\_ Date: \_\_\_\_\_

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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Email: [info@oesac.org](mailto:info@oesac.org)  
Phone: 503-698-6486

612 SE 1st St.  
Newport, OR 97365

Telephone: (541) 891-4092  
Email: stephanie\_kerns@hotmail.com

## Stephanie Kerns

### Education

2010 – 2014

**Bachelors of Environmental Sciences, Environmental Biology**  
**Graduated with Honors May 2014**  
Montana State University – Bozeman, MT.  
**G.P.A. – 3.3**

2006 – 2010

**Honors Diploma**  
Mazama High School, Klamath Falls, OR.

### Experience

March 2019 –  
Present

**City of Newport – Public Works Department Newport, OR**

Environmental Compliance Specialist

- Duties: Ensures regulatory compliance regarding industrial pretreatment, Fats, Oils, Grease (F.O.G), Backflow Prevention Programs, and Storm water compliance. Helped create the Proposed Pretreatment Program and restructure the FOG and Backflow programs. Knowledgeable of federal, state and local laws, rules, and regulations related to building codes and permits. Knowledgeable of federal, state, and local regulations related to wastewater treatment and environmental programs. Works directly with and provides education for industries and other businesses to ensure compliance with local, state and federal regulations. Establishes and maintains an effective and professional working relationship with City management, supervisors, employees, Council members, other entities, and the public. Communicates effectively and professionally, both orally and in writing, with individuals and groups. Writes work reports and maintains records and logs; read and interpret technical manuals, work orders, diagrams, and sketches. Manages pertinent reporting to state and federal regulators. Interprets and explains both orally and in writing technical information to the public, specific to city codes, policies, procedures, and regulations. Also help manage StormWater Management Awareness pertinent to 1200-Z permit compliance.

December 2015 –  
March 2019

**City of Salem – Public Works Department Salem, OR**

*Willow Lake Water Pollution Control Facility*

Residuals and Hauled Waste Supervisor

- Duties: Manages and maintains compliance of Biosolids Management, Hauled Wastes, FOG (Fats, Oils, and Grease) and other related programs with state and federal requirements. Directly supervises Biosolids staff, and completes annual reports for both state and federal laws and rules. Works with local farmers to ensure the safe beneficial reuse of municipal biosolids by determining the proper application rates for crops, ensuring waterways and public access areas are protected and monitoring that the

quality of the biosolids are safe to use. Works with other plant staff on increasing the efficiency of the plant's dewatering equipment and provide training for related process changes. Is the main point of contact for the general public regarding the beneficial reuse of biosolids regarding questions, concerns and educational opportunities.

November 2014 –  
November 2015

**North Dakota Department of Health Bismarck, ND**

*Environmental Health Section, Water Quality Division – Groundwater Protection Program*

Environmental Scientist II

- Duties: Providing technical oversight for site characterization and remedial action activities at contaminant release/spill sites, including data interpretation and evaluations of geologic and hydrogeologic conditions, contaminant levels and associated potential health risks, and appropriate remedial alternatives. Conducting inspections of underground injection wells regulated by the Underground Injection Control Program. Coordinating and assisting in ground water sampling activities completed in conjunction with the Ambient Ground Water Monitoring Program, including well sampling, equipment calibration and maintenance, and data entry and reporting. Wellhead protection area delineations and contaminant source inventories as part of the Wellhead and Source Water Protection Programs. Reviewing irrigation permits by assessing the contamination potential of aquifers as well as the land use in the area. Complete Class IV Injection Wells inspections (Septic systems) to ensure compliance with North Dakota state regulations.

June 2014 –  
September 2014

**Winfield Solutions LLC**

**Lewistown, MT**

Regional Agronomist Intern

- Duties: Took tissue samples of corn, soil samples, observed crop disease and the presence of weeds, knowledge of different spraying nozzles, applied fertilizers, micronutrients, herbicides, pesticides and fungicides, decided treatment needed based off of tissue sample results, researched growth regulators for spring wheat, soil resin research, synthesized data into graphs as well as statistically analyzed, interacted with farmers, knowledge of products and how each works, and presented research findings.

**Senior Project, “A River runs through it, until it doesn’t: Water Scarcity Issues and Solutions”**

Focus: Water Efficient Management methods in Agriculture

- Research, ensured credibility of source, understood information, wrote an informative but understandable paper on subject, synthesized scientific information, simplified technical terms in order for the general public to understand, worked with entire class on overall themes of the project, presented project to professors, the general public and the classroom setting.

June 2011 –  
August 2013

**Bureau of Land Management                      Klamath Falls, OR.**

Botany Biological Technician/Crew Lead

- Duties: Identifying plants, performed rangeland condition photo trend plots, performed rangeland condition monitoring trend plots, performed Riparian photo trends, identified noxious weeds, used GPS to mark Noxious weed sites and sites of importance, collected native grass seed, identified wetlands based off of plant community, Used ArcPad10 to map noxious weed sites, performed basic GIS mapping skills and documented trend plot information.

August 2013 –  
September 2013

**International Student Volunteers – Costa Rica**

Rainforest Research Aid

- Duties: counting sightings of local fruit eating animals (Toucans, monkeys etc.), counting flowers and fruits of native nutmeg trees, input data into Excel, plant seedling nutmeg trees along property lines, set up small animal traps, and collect field data. Aim of project is to track the ecology of the rainforest, the impact elective logging by humans and the long term effect of global warming has on the forest.

## Languages

- English: Fluent

## Skills

- Cross Connection Specialist Certified
- Radio Communication Certified
- Knowledge and application of State and Federal environmental regulations
- GPS Experience
- Writing and editing municipal code
- Basic GIS Training and skills
- ArcPad10 experience
- MatLab Coding Experience
- HydroCad Modeling Experience
- Use of Heavy equipment and vehicles
- Red Cross Adult/Infant/Child C.P.R Certification
- Red Cross First Aid Certification
- Experience with treating sick/injured cattle
- Defensive Driving Certified
- Working knowledge of Microsoft Word, Excel and PowerPoint.
- Communication Skills
- Presentations:
  - College Faculty
  - Public
  - Students
  - Professional audiences (Public Works and Wastewater)

## **Achievements**

- Oregon ACWA Industrial Pretreatment Committee Co-Chair
- Oregon ACWA hold a position on the Board of Directors
- Planning Committee for ORWEF Short School
- Member of Alpha Lamda Delta – Freshman Honors Society
  - Needed to have a 3.5 GPA or above during 1<sup>st</sup> semester of freshman year
- Member of The National Society of Collegiate Scholars
  - Needed to have an accumulative GPA of 3.4 or above

**\*Professional and Personal References available upon request**





# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Utility Operator Math

Presenter: Brian Stevens Title: AM WRF Treatment Plant Supervisor

Employer: City of Albany Address: 405 Davidson St. NE

City: Albany, OR State: OR Zip: 97321 Phone: 541-990-7749

Summary of Lesson content: This course will cover basic math and hydraulic skills used by water /ww plant operators. Topics include unit conversion, Area & volume, Dimensional Analysis, chemical dosing, Flow, and velocity.

Professional Background: ( Note a brief - 2 page maximum resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Instructor for four years at LBCC teaching computation in the Water, Environment, & Tech. Dept.

Education (High School, Upgrades, Colleges and Degrees): Graduated from Siuslaw High School (ca) Graduated with an AAS in Water/WW Tech from LBCC (2009)

Professional Registration/Certification: WW Treatment Grade III, WW Collections Grade III, Water Treatment Level 1, Water Distribution Level 1

Related papers/instruction you have presented:

Title: Math For Operators Date: 03/2018 Event: AWWA Cascade to Coast short school

Title: Math For Operators Date: 03/2019 Event: AWWA Cascade to Coast short school

Professional Organizations/Activities: PNCWA west central operators section Date: April 2018 - Present

AWWA Cascade to Coast section Date: April 2018 - April 2020

Course sponsor: AWWA / PNCWA short school Albany, OR

Signature of Instructor: Brian Stevens Date: 1-4-2022

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

Return Completed Form To: OESAC CEU COMMITTEE P.O. Box 577 Canby, OR 97013-0577 Email: info@oesac.org Phone: 503-698-6486



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Sludge Screen Pilot Project at the City of Corvallis WWRP

Presenter: Max Hildebrand & Bob Esch Title: Operations Supervisor (MH) & Operator (BE)

Employer: City of Corvallis WWRP Address: 1304 NE 2nd St

City: Corvallis State: OR Zip: 97330 Phone: 541-766-6934

Summary of Lesson content: To investigate the efficacy of the Huber StrainPress sludge cleaning screen in processing primary and secondary sludges.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: I was the lead person on the project. I researched the equipment needed, arranged transportation and operated the sludge screen with help from our Operations group.

Education (High School, Upgrades, Colleges and Degrees): Associate of Applied Science from Linn-Benton Community College. Experience in the field of wastewater: 27+ years

Professional Registration/Certification: Level 4 Wastewater Treatment-Oregon

Related papers/instruction you have presented:

Title: N/A Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

N/A Date: \_\_\_\_\_

Course sponsor: AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: *Bob Esch* Date: 11/03/2025

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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Phone: 503-698-6486



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: MWMC Renewable Natural Gas Project, An Operators Perspective

Presenter: Steve Barnhardt Title: Operations Manager

Employer: City of Eugene Address: 410 River Avenue

City: Eugene State: OR Zip: 97404 Phone: 541 682-8611

Summary of Lesson content: Discuss RNG project origins, timelines, start-up, commisioning, and lessons learned.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 30+ years in the Wastewater Industry.

8 years experience as Operations Suprvisor of a 35 MGD average flow wastewater facility. Presented at 2022 PNCWA

Education (High School, Upgrades, Colleges and Degrees): Highs school and some college

30Yearso fo continuing education units pertaining to wastewater operations and maintenance.

Professional Registration/Certification: Class IV Operator certificate in the State of Oregon

Related papers/instruction you have presented:

Title: The Challenges and Benefits of Rene Date: 9/2022 Event: 2022 PNCWA

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: PNCWA Operations and Maintenance Committee Date: Current

\_\_\_\_\_  
Date: \_\_\_\_\_

Course sponsor: Cascade to Coast Short School

Signature of Instructor: *[Handwritten Signature]* Date: 12/27/2022

**DO NOT WRITE BELOW THIS LINE**  
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Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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Email: [info@oesac.org](mailto:info@oesac.org)  
Phone: 503-698-6486



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: MWMC Renewable Gas Project, An Operators Perspective

Presenter: Spencer Goodro Title: RNG Lead Operator

Employer: City of Eugene WWTP Address: 410 River Avenue

City: Eugene State: OR Zip: 97404 Phone: 541-682-8600

Summary of Lesson content: Discuss RNG project origins, timelines, start-up, commissioning and lessons learned.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Over 25 years certified wastewater treatment operator, 2 years RNG lead operator

Education (High School, Upgrades, Colleges and Degrees): High School

Professional Registration/Certification: Oregon Grade 2 Wastewater Treatment Operation Cert. #9528

Related papers/instruction you have presented:

Title: Filament Identification Date: 2011 Event: AWWA/PNCWA

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: PNCWA West Central Oregon Section Board of Directors Date: December 2022

Date: \_\_\_\_\_

Course sponsor: PNCWA

Signature of Instructor: *Spencer Goodro* Date: 12/27/2022

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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Phone: 503-698-6486



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Talking Water Gardens Temperature Treatment Wetland

Presenter: Joe Deardorff Title: Natural Treatment Systems specialist

Employer: City of Albany, OR Address: 310 Waverly Dr. NE

City: Albany, OR State: OR Zip: 97321 Phone: 541 223 3317

Summary of Lesson content: Talking Water Gardens utility as a wastewater reuse, recreation, and ecological resource

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Ecology, water quality, water temperature/heat load TMDL

Education (High School, Upgrades, Colleges and Degrees): Central High School (Independence, OR), Pacific University BA Environmental Studies/sustainable design, OR state univers'

Professional Registration/Certification: Public Pesticide Applicator Grad Certificate Urban Forestry

Related papers/instruction you have presented:

Title: Albany, OR Riparian Assessment Date: 8-24-2021 Event: Graduate Capstone

Title: and Prioritization Plan Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities:

Calapooia Watershed Council Date: 4/13/2022

Course sponsor: AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: Joseph Deardorff Date: 01-05-2023

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Activated sludge foundations for process control

Presenter: Mark Walter Title: O&M Specialist

Employer: Waterdude Solutions Address: 13290 Squire Drive

City: Oregon City State: OR Zip: 97045 Phone: 971 413 4126

Summary of Lesson content: Present process control tests and analysis for activated sludge operation. Identify key parameters and expected ranges. Discuss operational response options to out of range parameters. Utilize case studies

and data analysis to illustrate how tests are interpreted.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: See resume

Education (High School, Upgrades, Colleges and Degrees): See resume

Professional Registration/Certification: See resume

Related papers/instruction you have presented:  
Title: Operational Risk Assessment Date: June 14, 2022 Event: ORWEF WES  
Title: Operational Task Planning Date: June 14, 2022 Event: ORWEF WES

Professional Organizations/Activities:  
See resume Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Course sponsor: AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: *Mark Walter* Date: 12/19/22

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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Phone: 503-698-6486



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Wastewater Treatment Plant Condition Assessment

Presenter: Mark Walter Title: O&M Specialist

Employer: Waterdude Solutions Address: 13290 Squire Drive

City: Oregon City State: OR Zip: 97045 Phone: 971 413 4126

Summary of Lesson content: Present techniques to perform asset condition assessment of WWTP systems. Illustrate how systems are developed to include associated components. Discuss how accurate equipment inventory contributes to a complete WWTP assessment. Show how results contribute to effective asset repair, replace, refurbish decisions.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: See resume

Education (High School, Upgrades, Colleges and Degrees): See resume

Professional Registration/Certification: See resume

Related papers/instruction you have presented:

Title: Operational Risk Assessment Date: June 14, 2022 Event: ORWEF WES

Title: Operational Task Planning Date: June 14, 2022 Event: ORWEF WES

Professional Organizations/Activities:

See resume

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Course sponsor: AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: *Mark Walter* Date: 12/19/22

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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Phone: 503-698-6486

**Mark D. Walter**  
**13290 Squire Drive, Oregon City, Oregon 97045**  
**971-413-4126**  
markw@waterdudesolutions.com

**December 2022**

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## **PROFILE**

Mr. Walter has an extensive and varied work history ranging from small system operation to management positions over advanced wastewater treatment facilities. He is well versed on modern operations and maintenance methods and is an effective communicator. Mr. Walter's combination of experience gives him a unique ability to orient quickly and facilitate action.

Since 2016 Mr. Walter has provided consulting services through his company, Waterdude Solutions. His experience includes operations, maintenance and management technical support for facility planning and design. System condition assessment services provide the owner and engineer with status to aid with evaluating repair, replace, refurbish alternatives.

Waterdude Solutions information can be found at [www.waterdudesolutions.com](http://www.waterdudesolutions.com)

## **PROFESSIONAL EXPERIENCE**

### **Operations, Maintenance and Management Specialist, Owner**

Waterdude Solutions, LLC

- Asset condition and operational status assessment.
- Unit process optimization, program development, and staff training.
- Alternative's analysis in support of facility planning.
- Operations and maintenance strategy development.
- Repair & refurbishment project planning and support

### **Operations Manager**

Oak Lodge Sanitary District, Oak Grove Oregon

- Operations coordinator for \$60M CM/GC wastewater improvement project.
- Developed and implemented plans for asset failure mitigation.
- Evaluated and prioritized system repairs and replacements.
- Created and updated standard operating procedures for new and existing systems.

### **Maintenance Division Manager**

Clean Water Services (CWS), Hillsboro, Oregon

- Responsible for facilities and mechanical maintenance including pump stations.
- Developed pump station O&M manual for CMOM compliance.
- Identified required critical spares and developed budget for procurement.
- Defined and updated predictive maintenance and condition assessment protocols.

### **Manufacturer's Equipment Representative**

Beaver Equipment Specialty Company, Inc., Vice President

Goble Sampson Associates, Sales Engineer

- Evaluated feasibility of various equipment applications.
- Developed comparative equipment lifecycle cost reports for evaluation.
- Performed equipment commissioning and training services.



### **Project Manager**

CH2MHill, Operations Management International, Inc  
City of Lebanon, City of Philomath and Freeway Properties

- Supervision and management of two water and three wastewater treatment systems.
- Identified and coordinated improvement projects between CH2MHill and clients.
- Performed offsite O&M evaluations and support of other CH2MHill facilities.

### **Operations Supervisor**

CH2MHill, Operations Management International, Inc  
Gresham Wastewater Treatment Plant

- Coordinated operations and maintenance activities.
- Developed O&M programs and provided staff training.

### **Wastewater Treatment Plant Operator**

- Clackamas County Department of Utilities, Oregon City, Oregon
- Orange County Sanitation District, Fountain Valley, California
- Michelson Water Reclamation Plant, Irvine, California

### **CERTIFICATION**

- Wastewater Treatment System Operation, Oregon Grade IV #7091
- Wastewater Collection System Operation, Oregon Grade IV #12219
- Oregon Emerging Small Business Certification # 10792 Waterdude Solutions, LLC.

### **EDUCATION**

Clackamas Community College and Chemeketa College, Oregon

- Water Quality, Management, Human Relations, and Business Law

### **Professional Development**

- EPA Advanced Asset Management Training; Managing Multiple Projects; Conflict Resolution; Effective Negotiating; Project Management; Coaching and Teambuilding; Building Better Training Programs; Emergency Response Planning; Leading with Emotional Intelligence; Performance Management; Technology of Participation (ToP) Facilitation; Taylor Protocols Core Value Index (CVI) facilitation.

### **REGIONAL LEADERSHIP**

- Presenter and trainer at regional and national technical and management conferences.
- Pacific Northwest Clean Water Association (PNCWA: Past President, Operations Challenge Chair, Awards Committee Chair, Plant Operations and Maintenance Committee Chair, Oregon Region Director; Lower Columbia Section President.
- Past Director, Chair of Oregon Water Education Foundation Water Environment School.

### **VETERAN**

United States Army

- 82<sup>nd</sup> Airborne Division, Paratrooper/Infantryman
- 104<sup>th</sup> Training Brigade, Infantry Patrolling Instructor



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Operational Strategies: Part of the big picture

Presenter: Max Hildebrand Title: Operations Supervisor

Employer: City of Corvallis Address: 1304 NE 2nd St.

City: Corvallis State: Or Zip: 97339 Phone: 541-754-1757

Summary of Lesson content: To help O&M staff understand the importance of how each unit process should be operated.

We will discuss, Key Performance Indicators, goals, and expectations.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: See Attached Resume

Education (High School, Upgrades, Colleges and Degrees): \_\_\_\_\_

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities:

PNCWA, WEF, AWWA Date: \_\_\_\_\_

Date: \_\_\_\_\_

Course sponsor: Cascade to Coast Subsection, AWWA

Signature of Instructor: Max Hildebrand Digitally signed by Max Hildebrand  
DN: cn=Max Hildebrand, o=Carollo Engineers, ou,  
email=mhildebrand@carollo.com, c=US  
Date: 2018.01.09 11:57:15 -08'00' Date: \_\_\_\_\_

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

Return Completed Form To: **OESAC CEU COMMITTEE** Email: [info@oesac.org](mailto:info@oesac.org)  
P.O. Box 577 Phone: 503-698-6486  
Canby, OR 97013-0577

# Max H. Hildebrand

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## **Education**

*BS Business Management, Linfield College, 2003*

*AS Associate of Applied Sciences, Water/Wastewater Technology, Linn-Benton Community College, 1992*

*AS Associate of Liberal Arts, St. Leo College, Ft. Eustis, Virginia, 1990*

## **Certifications**

*Level IV Certification in Wastewater Treatment, State of Oregon. Certification # 7447 issued 7/95*

*Level IV Certification in Wastewater Treatment State of Washington Certification # 8321*

## **Professional Associations**

*Pacific Northwest Clean Water Association, 2001 to present*

*Water Environment Federation, 2004 to present*

Mr. Hildebrand specializes in the operation and maintenance of water and wastewater treatment systems. He has over 32 years of experience including more than 22 years of hands-on operational experience at four Class IV Wastewater Treatment Facilities in Oregon. His latest experiences include managing and supervising the Corvallis WWRP for the last 4+ years, as well as owning and managing The Ops Doc, LLC, which is an Environmental Operations and Maintenance consulting business. Other pertinent experience includes: Writing Technical Documents that include O&M Manuals, SOPs, APES, Staffing Evaluations, Unit Process Operating Strategies, and Treatment Plant Audits. Recently, Max has worked for over two years in a \$2 B CIP Program for San Jose California. He was engaged in helping to prepare the O&M Staff as they move forward on 36 different projects effecting the Regional Wastewater Facility.

His experiences also include Start up and Commissioning services, performing Condition Assessments, conducting Operability Reviews of complex drawings and 3D Models, providing troubleshooting of wastewater systems and optimizing facility processes.

Max has operated four different Wastewater Treatment Facilities, including a Trickling Filter/Activated Sludge Process, a HPO Activated Sludge Facility, and two Activated Sludge Facilities. All four facilities utilized Anaerobic Digester processes.

Additional experiences include completing a Reclaimed Water Audit for the Eugene-Springfield Water Pollution Control Facility, the design-build process for Influent Pump Station Seal Water and Air Supply Systems, design-build for Waste Activated Sludge Pump Station, and design-build process for piping modification/control valves/vault placement for Anaerobic Digested Sludge systems for the City of Corvallis.

He also managed the Brown and Caldwell Operations Services Team for the Pacific Northwest and Hawaii, as well as being

the National Leader of the Operations/Management Community of Practice (CoP) for Brown and Caldwell.

Lastly, Max has sat on the Pacific Northwest Clean Water Association (PNCWA) Board of Directors as well as having been a Water Environment Federation (WEF) House of Delegates member.

## **Plant Operations**

- Operational lead for the City of Grants Pass Operational Strategies Initiative.
- Operational lead for the City of Grants Pass migration to the NetDMR electronic regulatory reporting requirement.
- Operations lead in the Clean Water Services Actiflo™ O&M/ APE Project.
- Task lead for the SJCWTP Strategic Initiatives for Albuquerque Bernalillo County Water Utility Authority (ABCWUA), New Mexico.
- Operational lead for Wastewater Treatment Plant Audits for California American Water. The treatment plants included: Indian Springs, Las Palmas, Carmel Valley Ranch, and Pasadera.
- Task lead for the City of Modesto, California's Staffing Evaluation for the Sutter Avenue and Jennings Road Wastewater Treatment Facilities.
- Task lead for the City of Sunnyvale, California's Wastewater Treatment Plant Staffing Evaluation.

## **Startup and Commissioning Services**

- Performed startup and commissioning for the Morenci Water Treatment Plant in Morenci, Arizona.
- Performed startup and commissioning for the Design Build Biosolids Management Program for DC Water, Washington DC.
- Performed Progressive Design Build Construction Manager/ General Contractor (CMGC) startup and commissioning Influent Pump Station and Pretreatment Structure, Metropolitan Wastewater

# Max H. Hildebrand

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Management Commission, Eugene/ Springfield, Oregon.

- Developed startup and commissioning specifications, and language for the Construction Administration Plan for the San Jose Capital Improvement Program.

## ***Electronic Operations and Maintenance Manuals***

- Prepared an OMSConnect Electronic Operations and Maintenance Manual (EOM) for the Lake Oswego/Igard Water Program.
- Prepared an OMSConnect EOM LOIS Project for the City of Lake Oswego Oregon.
- Prepared a Wastewater Treatment Plant Operation and Maintenance (EOM) Manual for Three Rivers Longview/Kelso, Washington.
- Prepared an EOM for the Central Wastewater Treatment Facility, City of Tacoma, Washington.
- Prepared an EOM for the Alderwood Water and Wastewater District, Washington.

## ***Operations and Maintenance Manuals***

- Prepared an O&M Manual for the City of Redmond, Oregon's Wastewater Treatment Facility.
- Prepared an O&M Manual for the Odor Control System for Metropolitan Wastewater Management Commission (MWMC), Eugene-Springfield, Oregon.
- Prepared an O&M Manual for the Linneman Pump Station, City of Gresham, Oregon.
- Prepared an O&M Manual for Foothills Road Pump Station for the City of Lake Oswego, Oregon.

## ***Technical Reports***

- Prepared Sampling Analysis Plan for the City of Grants Pass WRP.
- Prepared Unit Process Operating Strategies for San Jose-Santa Clara Regional Wastewater Facility, San Jose California.
- Prepared Unit Process Isolation Analysis for San Jose-Santa Clara Regional Wastewater Facility, San Jose California.
- Prepared O&M Data, Work Sequence and Restriction, Training, Testing, and Startup Specifications for San Jose-Santa Clara Regional Wastewater Facility, San Jose California.
- Prepared
- Prepared the Laboratory Testing Evaluation for Clackamas County Water Environment Services, Oregon.
- Performed an Operational Audit for the Starlink Facility for the City of Portland, Oregon.
- Prepared a Plan of Operation for the Alderwood Water and Wastewater District, Washington.

## ***Owners Representative***

- Served as San Jose-Santa Clara Regional Wastewater Facility CIP Operations Coordinator for the San Jose-Santa Clara Regional Wastewater Facility, San Jose California.
- Served as San Jose-Santa Clara Regional Wastewater Facility CIP Operations and Maintenance Liaison for the San Jose-Santa Clara Regional Wastewater Facility, San Jose California.
- Served as Owner's Representative for the Wilsonville Wastewater Treatment Facility, City of Wilsonville.
- Served as Owner's Representative for the Lake Oswego, Oregon Water and Wastewater Systems.
- Provided project management for DC Water, Washington, DC
- Served as Owner's Representative for the SCADA System Upgrade for the City of Newport, Oregon.
- Provided Program Management services for San Jose California Capital Improvement Program.

## ***Operability Design Review***

- Grants Pass Wastewater Restoration Plant Upgrade, Grants Pass Oregon.
- Influent Pump Station and Pretreatment Structure, Metropolitan Wastewater Management Commission, Eugene/Springfield, Oregon.
- Odor Control, Metropolitan Wastewater Management Commission (MWMC), Eugene-Springfield, Oregon.
- Biosolids Management Program, DC Water, Washington DC.

## ***Troubleshooting***

- City of Wilsonville, Headworks and Barscreen issues.

## ***Awards***

2002 Oregon Operator of the Year  
2006 WEF Hatfield Award Recipient

# Max H. Hildebrand

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## ***Presentations:***

- March 2017 AWWA Coast to Cascade Short School "Math for Operators, O&M Project Engagement"
- August 2014 Oregon Region Operators Conference "Math for Operators, "There is an App for that."
- May 2013 WEA of Utah: "There is an App for that."
- March 2013 Cascade to Coast Subsection Short School: Math for Operators.
- March 2012 Clackamas Short School: O&M Manuals: Good-Better-Best.
- March 2011 Cascade to Coast Subsection Short School: "The Wastewater Way."

## ***Publications:***

02/2013 WE&T Magazine: What every operator should know about Standard Operating Procedures (SOPs).



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Alternatives to SO2 for Dechlorination

Presenter: Matt Barrier Title: Sales Team Leader Industrial Products Group

Employer: Northstar Chemical Address: 14200 SW Tualatin Sherwood Road

City: Sherwood State: OR Zip: 97140 Phone: 503-793-4516

Summary of Lesson content: To provide a current market snapshot for SO2 and what is driving the challenges with price and availability. We will review Sodium Bisulfite as an alternative and provide a market update for that chemistry as well.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: My primary responsibility and knowledge is on the marketing side. Over the last 23 years I have been directly involved with a good number of conversions from SO2 to SBS.

Education (High School, Upgrades, Colleges and Degrees): BA in Business Finance

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: \_\_\_\_\_ Date: December 28, 2022

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Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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Phone: 503-698-6486



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Lagoon Rehabilitation Including Cold Weather Nitrification by MBBR

Presenter: Tom Daugherty Title: Western Region Manager

Employer: Triplepoint Environmental Address: 6586 S Kenton St

City: Centennial State: CO Zip: 80111 Phone: 208-699-7090

Summary of Lesson content: This presentation will profile real world case studies to evaluate the performance of lagoon th  
rehabilitation alternatives with the view of lowering maintenance, energy inputs, and improving treatment. It is common

knowledge that wastewater infrastructure is aging. Given the limitations of conventional lagoon aeration technologies,

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data.  
Please be sure the resume includes all requested information. Qualifications should be related to your presentation.)  
Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Tom Daugherty is Triplepoint Environmental's Western Regio

Education (High School, Upgrades, Colleges and Degrees): MBA

Professional Registration/Certification: WA State wastewater operator 8782

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities:  
WEF Date: \_\_\_\_\_

Idaho Rural Water Date: \_\_\_\_\_

Course sponsor: Triplepoint Environmental

Signature of Instructor: Tom Daugherty Digitally signed by Tom Daugherty  
Date: 2022.12.10 11:26:16 -08'00' Date: \_\_\_\_\_

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Compliance Pitfalls

Presenter: Johnny Leavy Title: WRD Manager

Employer: City of Medford Address: 1100 Kirtland Road

City: Central Point State: OR Zip: 97502 Phone: 541-774-2750

Summary of Lesson content: How to avoid pitfalls of commonly overlooked NPDES permit requirements

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: See Resume

Education (High School, Upgrades, Colleges and Degrees): See Resume

Professional Registration/Certification: See Resume

Related papers/instruction you have presented:

Title: Compliance Pitfalls Date: Mar.26-28, 2019 Event: Water Environment Short School 2019

Title: Compliance Pitfalls Date: Sep.12-14,2019 Event: Pacific NW Pretreatment Workshop 2019

Professional Organizations/Activities: Oregon ACWA, Co-Chair Pretreatment Committee Date: Jul.2018-Jun.2020

Oregon ACWA, Secretary/Treasurer Date: Jul.2022-current

Course sponsor: AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: [Signature] Date: 12 / 09 / 2022

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**August 2019 - Present: WRD Lab Supervisor, City of Medford RWRE** - Organizes, develops, and monitors analytical procedures and standards with a focus on improving efficiency and effectiveness for process control and regulatory compliance reporting. Assigns and schedules work, provides guidance and assistance, prepares and delivers performance evaluations, and develops employees through coaching. Participates in discussions and decisions to optimize treatment processes and meet objectives of NPDES compliance schedule. Manages 1200-Z NPDES Industrial Stormwater Permit and provides training to staff for permit compliance activities. Prepares monthly and quarterly compliance reports to regulatory agencies. Serves as Chair of WRD Safety Committee and SHARP program, coordinates implementation of safety programs with City Health and Safety Manager. Conducts tours of facility for public outreach.

- Improved worker safety by addressing unsafe handling and storage of lab chemicals and coordinating StaySafe lone worker monitoring service for off shifts.
- Increased accuracy of compliance reporting by reconfiguring pH, temperature, and rainfall instrumentation.
- Modified computerized data management processes to reduce data entry errors and improve data quality.
- Revised laboratory inventory and purchasing procedures to minimize supply issues.
- Updated Laboratory Quality Assurance Manual; includes development of QA/QC for compliance reporting, implementing Chain-of-Custody documentation, and incorporating Job Hazard Analyses (JHAs) into Standard Operating Procedures.

**October 2015 - August 2019: WWTP Operator III / Pretreatment Coordinator, City of St. Helens, Oregon** - Responsible for the daily review and evaluation of plant operation, maintenance, laboratory data, and information pertaining to the pretreatment program and NPDES permit compliance. Provides status reports and recommendations to the Superintendent. Performs daily collection and analysis of compliance and process samples and coordinates contract laboratory services for Industrial compliance monitoring. Coordinates the implementation of the City's pretreatment program among users, other governmental agencies, and City staff.

- Coordinated revision of an Intergovernmental Agreement between the City and a contributing sewer use jurisdiction.
- Organized and implemented major revision to the City's sewer use ordinance for improved pretreatment program legal authority.
- Updated Pretreatment Program Implementation manuals to incorporate revised legal authority and improve procedures.
- Coordinated interagency cooperation for overlapping FOG regulations from state, county, and local jurisdictions.
- Improved worker safety and OSHA compliance by proposing and implementing safer maintenance procedures at lift stations.
- Increased revenue for the Pretreatment Program by performing a rate study and proposing a fee schedule to management.
- Improved data collection from a remote hauled waste receiving station by installing and configuring a wireless access point.

**April 2011 - June 2015: Operator II, CH2M, Spokane County Regional Water Reclamation Facility** - Performed daily operation & maintenance of wastewater treatment equipment & processes at an advanced MBR activated sludge treatment facility. Interpreted laboratory & instrumentation data and made process adjustment recommendations to Operations Supervisor. Diagnosed operating problems; directed and performed corrective actions to equipment & online instrumentation, and maintained the facility computerized maintenance management system (CMMS). Conducted staff meetings and training sessions for safety and equipment maintenance. Maintained operations data management system & software.

- Programmed and maintained the operations data management and facility maintenance record keeping databases and worked directly with SCADA programmers to integrate the software for automatic data retrieval and report generation.
- Wrote and revised Standard Operating Procedures & Job Hazard Analyses and conducted staff training for various operations and maintenance activities.
- Drafted the facility Biosolids Management Plan for submission to the Washington Department of Ecology.
- Served as project Sustainability Coordinator; responsible for implementing the company's sustainability goals at the project level and organizing community involvement efforts for CH2M staff.
- Created an asset management database to record equipment inspections and assessments.

**October 2004 - April 2011: Operator-in-Training / Operator I / Operator II, CH2M Hill / OMI, Coos Bay** - Directed daily operation & maintenance of wastewater treatment equipment & processes at two activated sludge facilities. Interpreted laboratory results and adjusted treatment processes to maintain NPDES permit compliance. Conducted meetings and training sessions pertaining to safety and permit compliance. Diagnosed operating problems; directed and performed corrective actions and made recommendations to upper management. Processed, hauled, and applied biosolids to agricultural land.

- Supervised a staff of three and was responsible for daily operations and maintenance activities at Plant II, a 5MGD conventional activated sludge treatment facility.
- Improved aeration control and energy efficiency at Plant II by reprogramming aeration equipment VFD controllers and integrating a dissolved oxygen online instrument.
- Improved process control at Plant II by relocating the WAS discharge point, re-engineering the WAS sample collection, and implementing weekly analysis of primary system effluent BOD to improve solids removal by co-thickening and increase accuracy of MCRT and secondary system loading calculations.
- Served as Safety Committee Chairperson for two years; conducted monthly committee and safety training meetings, worked towards obtaining OSHA SHARP certification by addressing various safety issues, and revised written plans and procedures to meet OSHA and company standards.

## **EDUCATION**

Office of Water Programs, California State University, Sacramento - March 2006, August 2007, and April 2014

AAS Manufacturing Technologies: Industrial Electronics, Southwestern Oregon Community College, Coos Bay - June 2000



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Chlorine Chemistry  
 Presenter: Brian Stevens Title: WRF Treatment Plant Supervisor  
 Employer: City of Albany Address: 405 Davidson St. NE  
 City: Albany State: OR Zip: 97321 Phone: 541-990-7749  
 Summary of Lesson content: I will be presenting on the basics of chlorine chemistry pertaining to water & wastewater treatment. Chlorine math will be included

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Knowledge of water/ww chemistry, chemical dosing, math, safety, & chemical handling.

Education (High School, Upgrades, Colleges and Degrees): Siuslaw High School (2005), LBCC Water/WW Tech AAS (2009)

Professional Registration/Certification: WW Treatment Grade IV, Wastewater Collections Grade IV

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: PNCWA - WCOS Date: 2017

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: [Signature] Date: 12-7-2022

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Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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 Phone: 503-698-6486



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Fundamentals of Oxygen Transfer and Biological Growth Kinetics

Presenter: Chris Maher Title: Senior Operations Analyst

Employer: Clean Water Services Address: 2550 SW Hillsboro Hwy

City: Hillsboro State: OR Zip: 97123 Phone: 5036813600

Summary of Lesson content: Lesson covers oxygen transfer with two film theory, alpha and beta coefficients, fouling and diffuser measurements, Monod kinetics, and phases of biological growth.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 20 years experience as Certified Wastewater Treatment Operator. Operation of advanced activated sludge and biological nitrogen and phosphorus removal processes.

Education (High School, Upgrades, Colleges and Degrees): Diploma, Douglas County High School; BS Chemistry, Colorado State University; MSEE, Illinois Institute of Technology

Professional Registration/Certification: Oregon DEQ Wastewater System Operator, Treatment, Grade IV, 12610

Related papers/instruction you have presented:

Title: Secondary Fundamentals Date: 8/2019 Event: Corvallis/CWS Joint Training Project

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: WEF, PNCWA Date: 8/1/2000

Plant Operations and Maintenance Committee Date: 9/1/2008

Course sponsor: Clean Water Services

Signature of Instructor: Chris Maher Digitally signed by Chris Maher Date: 2023.01.03 09:40:24 -08'00' Date: 1/3/2023

**DO NOT WRITE BELOW THIS LINE**  
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Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Sampling wastewater and streams for NPDES and WPCF permits

Presenter: Emma Prichard Title: NPDES Permit Writer - Oregon DEQ

Employer: Oregon DEQ Address: 700 NE Multnomah St. Ste 600

City: Portland State: OR Zip: 97232 Phone: 503-875-7301

Summary of Lesson content: Training on DEQ's new Guidance Document titled

"Guidance for NPDES and WPCF Permit Monitoring". Sampling of pH, temperature, BOD, TSS, and bacteria.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 7 years of experience in municipal wastewater operations and environmental monitoring for a major municipality prior to current role writing NPDES permits at DEQ.

Education (High School, Upgrades, Colleges and Degrees): Portland State University

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: Emma C Prichard Digitally signed by Emma C Prichard  
Date: 2022.12.06 15:51:56 -08'00' Date: 12/6/2022

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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Phone: 503-698-6486



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Chemical Treatment Fundamentals

Presenter: Chris Maher Title: Senior Operations Analyst

Employer: Clean Water Services Address: 2550 SW Hillsboro Hwy

City: Hillsboro State: OR Zip: 97123 Phone: 5036813600

Summary of Lesson content: Lesson covers chemical concentration calculations, dosing calculations, stoichiometry, reaction orders and kinetics, chemical reactions and safety.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 20 years experience as Certified Wastewater Treatment Operator. Operation of advanced activated sludge and biological nitrogen and phosphorus removal processes.

Education (High School, Upgrades, Colleges and Degrees): Diploma, Douglas County High School; BS Chemistry, Colorado State University; MSEE, Illinois Institute of Technology

Professional Registration/Certification: Oregon DEQ Wastewater System Operator, Treatment, Grade IV, 12610

Related papers/instruction you have presented:

Title: Secondary Fundamentals Date: 8/2019 Event: Corvallis/CWS Joint Training Project

Title: Anaerobic Digestion Theory and Prac Date: Online Event: Clean Water Services

Professional Organizations/Activities: WEF, PNCWA Date: 8/1/2000

Plant Operations and Maintenance Committee Date: 9/1/2008

Course sponsor: Clean Water Services

Signature of Instructor: Chris Maher Digitally signed by Chris Maher Date: 2023.01.03 09:36:27 -08'00' Date: 1/3/2023

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

Return Completed Form To: OESAC CEU COMMITTEE  
P.O. Box 577  
Canby, OR 97013-0577  
Email: [info@oesac.org](mailto:info@oesac.org)  
Phone: 503-698-6486



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Wastewater Operator Roundtable

Presenter: Brian Stevens Title: WRF Plant Supervisor

Employer: City of Albany Address: 405 Davidson St. NE

City: Albany State: OR Zip: 97321 Phone: 541-990-7749

Summary of Lesson content: Offer a collaborative environment among operators to discuss and learn from each others facilities and events.

Topics include operations, maintenance, chemicals, permit renewal, etc. ..

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Knowledge of WW treatment/collections O&M, skilled in presenting & moderating.

Education (High School, Upgrades, Colleges and Degrees): Siustaw High School (2005)  
AAS Water /WW Tech. LBCC (2009)

Professional Registration/Certification: Oregon DEQ WW Treatment Grade IV  
Oregon DEQ WW Collections Grade IV

Related papers/instruction you have presented:

Title: Utility Operator Math Date: March 2022 Event: Cascade to Coast /PNCWA Short School

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities:

\_\_\_\_\_ Date: \_\_\_\_\_  
WCOS PNCWA Senetary / Treasurer Date: 2017

Course sponsor: AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: [Signature] Date: 01/05/2023

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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Phone: 503-698-6486



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Albany WRF Dewatering and Compost Upgrade

Presenter: Charles Wright Title: Senior Associate Engineer

Employer: Kennedy Jenks Address: 240 Country Club Road, Suite A

City: Eugene State: OR Zip: 97401 Phone: 541-915-4155

Summary of Lesson content: Present steps taken by the City of Albany in developing a Class A biosolids composting program. Describe composting as a biosolids treatment process including regulatory requirements for achieving Class A standards. Review design, construction, and startup of the Albany facility and present lessons learned.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Process mechanical engineer with 25 years experience in the planning and design of wastewater treatment facilities. Project engineer who led design of the Albany composting facility.

Education (High School, Upgrades, Colleges and Degrees): B.S. in Civil Engineering University of Wyoming, M.S. Environmental Systems Engineering Clemson University

Professional Registration/Certification: PE Oregon and Hawaii

Related papers/instruction you have presented:

Title: Pivoting into a Sustainable Class A B Date: 9/14/22 Event: PNCWA 2022 - Spokane

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities:

\_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: Charles L. Wright Jr. Digitally signed by Charles L. Wright Jr. Date: 2022.12.29 10:48:16 -08'00' Date: 12-29-22

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Albany - Millersburg WRF Compost Upgrade Project

Presenter: Brian Stevens Title: AM WRF Treatment Plant Supervisor

Employer: City of Albany Address: 405 Davidson St. NE

City: Albany, OR State: OR Zip: 97321 Phone: 541-990-7749

Summary of Lesson content: This lesson will chronicle the history behind the need for a composting project, compost facility construction, facility start-up, and composting basics.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: I am the current supervisor at the AM WRF and have been involved with the composting project since August

Education (High School, Upgrades, Colleges and Degrees): Graduated from Siuslaw High School (2004)  
Graduated with an AAS in Water/WW Tech from CBCC (2009)

Professional Registration/Certification: WW Treatment Grade III, WW Collections Grade III, Water Treatment Level 1, Water Distribution Level 1

Related papers/instruction you have presented:

Title: Math For Operators Date: 03/2018 Event: AWWA Cascade to Coast short school

Title: Math For Operators Date: 03/2019 Event: AWWA Cascade to Coast short school

Professional Organizations/Activities: PNCWA West Central Operators Section Date: April 2018 - Present

AWWA Cascade to Coast Section Date: April 2018 - April 2020

Course sponsor: AWWA / PNCWA Short School Albany, OR

Signature of Instructor: Brian Stevens Date: 1-4-2022

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: DEQ Operator Certification Basics

Presenter: Kimi Grzyb Title: Program Coordinator

Employer: DEQ Address: Multnomah Ave.

City: Portland State: OR Zip: 97232 Phone: 5032295349

Length of Lesson: 1hr Lesson applies to:  Water  Wastewater  Both  Online Option:

Summary of Lesson content: Content will cover how to get and stay certified, reciprocity, and opportunity for program feedback/questions.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Coordinator of DEQ OpCert Program

Education (High School, Upgrades, Colleges and Degrees): PhD Environmental Science, MS Applied Biotechnology/Molecular Biology, BS Biology

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

**OESAC Board Member** Date: current

Course sponsor: DEQ

Signature of Instructor: Kimi Grzyb Digitally signed by Kimi Grzyb Date: 2022.09.30 15:28:29 -07'00' Date: \_\_\_\_\_

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Your DEQ Online Account Registration

Presenter: Jessica Lorenz Title: Training and Development Specialist

Employer: DEQ Address: 700 NE Multnomah

City: Portland State: Or Zip: 97232 Phone: 503-701-7829

Summary of Lesson content: The Wastewater Operator Certification program will be transitioning in February 2023 to the new cloud-based system called Your DEQ Online. This presentation will provide a demonstration of how to register and set up an account in Your DEQ Online.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: I am the Your DEQ Online trainer for the Oregon Department of Environmental Quality

Education (High School, Upgrades, Colleges and Degrees): Doctor of Education (EdD), University of Portland

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: Introduction to Your DEQ Online Date: 8/23/22 Event: OAWU

Title: Introduction to Your DEQ Online Date: 6/16/22 Event: ORWEF

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: Jessica Lorenz Digitally signed by Jessica Lorenz Date: 2022.12.07 11:40:12 -08'00' Date: 12/7/2022

**DO NOT WRITE BELOW THIS LINE**  
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Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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Canby, OR 97013-0577



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Plant profile of the City of Salem's Willow Lake Water Pollution Control Facility

Presenter: Daniel Hill Title: Operations Shift Supervisor

Employer: City of Salem Address: 5915 Windsor Island Road N.

City: Salem State: OR Zip: 97303-6179 Phone: 503-763-3483

Summary of Lesson content: Lead the plant profile tour of the Willow Lake Water Pollution Control Facility

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 11 years of Wastewater Treatment knowledge and experience in a Class IV Wastewater Treatment facility

Education (High School, Upgrades, Colleges and Degrees): AAS-Water/Wastewater Technology (2011)

Professional Registration/Certification: Wastewater Treatment System Operation, Grade IV, #13372

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities:

\_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: Daniel Hill Digitally signed by Daniel Hill  
Date: 2022.12.08 13:10:09 -08'00' Date: 12/08/2022

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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Phone: 503-698-6486



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: City of Jefferson Wastewater Treatment facility tour

Presenter: Kyle Ward Title: Utility Foreman

Employer: City of Jefferson Address: 150 North 2nd Street

City: Jefferson State: OR Zip: 97352 Phone: 541-971-0953

Summary of Lesson content: Review City of Jefferson Wastewater Treatment system processes and equipment.

The facility is a intermittent cycle extended aeration system with aerobic digestion and solids holding lagoon.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: \_\_\_\_\_

Wastewater and Water treatment system operations and maintenance for 9 years.

Education (High School, Upgrades, Colleges and Degrees): High School

Professional Registration/Certification: Wastewater Treatment Grade 3, Collections Grade 2, Water Treatment Grade 2

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: Kyle Ward Digitally signed by Kyle Ward Date: 2022.12.08 14:40:15 -08'00' Date: 12/08/2022

**DO NOT WRITE BELOW THIS LINE**  
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Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: What if Your Meters Could Hear the Leaks You Can't See

Presenter: Tim Owens Title: VP

Employer: Correct Equipment Address: 300 S Redwood Street 135

City: Canby State: OR Zip: 97013 Phone: 503.582.0555

Summary of Lesson content: Acoustics are extensively used for locating leaks within a water grid. A new approach is used in an ultrasonic sensor housed inside of a water meter. Since meters are installed at every customer location, operators will have greater coverage to monitor the system for leaks in service lines as well as the distribution lines.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: I have worked in and with water utilities for over 13 years, helping them make good decision on equipment including measuring water more accurately with metering and technology solutions.

Education (High School, Upgrades, Colleges and Degrees): PCC

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: What if Your Meters Could Hear the Leaks You Can't See Date: 11/17/21 Event: Umpqua Operator Conference

Title: What if Your Meters Could Hear the Leaks You Can't See Date: 10/27/21 Event: OAWU

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

AWWA Member Date: Current

Course sponsor: \_\_\_\_\_

Signature of Instructor: Tim Owens Digitally signed by Tim Owens Date: 2021.12.03 14:47:08 -08'00' Date: 12/3/21

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Extending the useful life of your existing concrete tank infrastructure

Presenter: Daniel Gancher Title: Regional Manager - Concrete Tank Services

Employer: DN Tanks Address: \_\_\_\_\_

City: Portland State: OR Zip: 97218 Phone: 503-476-6688

Summary of Lesson content: The presentation will discuss condition assessment, common rehabilitation and retrofit scopes of work on all types of concrete tanks. This includes both water and wastewater storage tanks.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: I manage per-construction services for rehabilitation and retrofit services on concrete tanks, that DN Tanks performs repair and retrofit services.

Education (High School, Upgrades, Colleges and Degrees): Bachelors Degree in Civil Engineering from Oregon State  
Minor in Business

Professional Registration/Certification: E.I.T

Related papers/instruction you have presented:

Title: Extending useful life of concrete tank Date: June 28th, 2022 Event: Waterworks School - 2022

Title: Concrete Tank Rehabilitation Date: April 28, 2022 Event: PNWS Conference

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_  
\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: Daniel Gancher Digitally signed by Daniel Gancher  
DN: cn=Daniel Gancher, o=DN Tanks, ou,  
email=dan.gancher@dn tanks.com, c=US  
Date: 2022.11.09 16:44:48 -08'00' Date: 11/09/2022

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: The Tale of Two Tanks: Sometimes Its a Blast Sometimes Its Not

Presenter: Laura Farthing Title: Senior Engineer - Water

Employer: EWEB Address: 4200 Roosevelt Blvd

City: Eugene State: OR Zip: 97402 Phone: 541-685-7464

Summary of Lesson content: The presentation will discuss EWEB's recent experiences with construction two 7.5 million gallon water tanks in a developed residential neighborhood. The presentation will cover the planning, land use, public outreach, coordination with operators, construction phasing and sequencing, and lessons learned to date.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: \_\_\_\_\_

My primary job responsibilities include design of pump station and reservoir improvements, facility planning, construction management, and project management.

Education (High School, Upgrades, Colleges and Degrees): Master's Degree in Civil Engineering

Professional Registration/Certification: P.E.

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: AWWA, ASCE, and Engineers Without Borders Date: \_\_\_\_\_

Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: Laura Farthing Digitally signed by Laura Farthing Date: 2022.11.17 08:03:30 -08'00' Date: \_\_\_\_\_

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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# Instructor Background And Information Form

Thank you for

filling out this form.

Presentation Title: New Developments for the Humble Butterfly Valve

Presenter: Wade Esplin Title: Area Sales Manager

Employer: Av-Tek Valves Address: 3023 E Copper Point Dr #208

City: Meridian State: ID Zip: 83642 Phone: (208)258-1500

Summary of Lesson content: Teach the differences between Zero, Single, Double, and Triple-Offset Butterfly Valves. Explain their history, primary functions, strengths and weaknesses, and why you would use one type, instead of another in different applications.

Professional Background:

Primary Knowledge/Skills/Abilities related to presentation: Spent a decade working in the industry as a Certified Backflow Assembly Tester, where I worked with valves every day. Currently work as an Area Sales Manager for a valve manufacturer.

Education (High School, Upgrades, Colleges and Degrees) Bachelor's Degree in Professional Studies, with a Certificate in Commercial Fundamentals from BYU-Idaho.

Professional Registration/Certification: Have taught similar classes or done presentations for Idaho Rural Water, Utah Rural Water, Wyoming Rural Water, Evergreen Rural Water, Colorado Rural Water, Tri-State Seminar, AWWOA - Canada

Related papers/instruction you have presented:

Title (Same Presentation) Date: 5/25/2021 Event: Idaho Rural Water Association Conference

Title (Same Presentation) Date: 9/1/2021 Event: Evergreen Rural Water of Washington

Professional Organizations/Activities:

Idaho Rural Water Show - Coeur d'Alene, Idaho Date: 10/4-6/2022

Tri-State Seminar - Las Vegas, NV Date: 8/8-11/2022

Course sponsor: Correct Equipment

Signature of Instructor: *R. Wade Esplin* Date: 9/6/2022

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: The Mystery of Water Samples

Presenter: Rebecca Picton Title: Analyst 1

Employer: Edge Analytical Labs Address: 1100 NE Circle Blvd, Ste 130

City: Corvallis State: OR Zip: 97330 Phone: 541-753-4946

Summary of Lesson content: Learn how samples need to be collected, stored, and transported. Find out what goes on in the laboratory where the samples are analyzed.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Helped establish Pacific Analytical Lab in 1998; continued working after it was bought by Edge Analytical.

Education (High School, Upgrades, Colleges and Degrees): Chadron State College (Nebraska) BA Biol & Chem  
Oregon State Univ MS in Veterinary Sciences - Immunology

Professional Registration/Certification: Edge Lab is accredited by ORELAP (#OR100009) as an environmental laboratory

Related papers/instruction you have presented:

Title: Survey of Llama Antibodies Date: 1993 Event: MS degree thesis defense

Title: The Mystery of Water Samples Date: 2017,2019,2021 Event: AWWA; Oregon Parks and Rec Dept

Professional Organizations/Activities: Co-founder and Past Assistant Director - Chintimini Wildlife Center Date: 1989-1999

Corvallis Independent Business Alliance Date: 2005-2010

Course sponsor: AWWA/PNCWA

Signature of Instructor: Rebecca Picton Date: Nov. 1, 2022

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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Phone: 503-698-6486



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Understanding the Lead and Copper Rule Revisions

Presenter: Pierre Kwan Title: Water Treatment Leader

Employer: HDR Address: 600 University Street, Suite 500

City: Seattle State: WA Zip: 98101 Phone: 206-826-4735

Summary of Lesson content: This presentation provides a summary of all the changes in the federal Lead and Copper Rule and the steps that all drinking water utilities throughout the country, including Oregon, have to implement to maintain regulatory compliance

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 22 years of helping utilities address Lead and Copper Rule compliance issues in Oregon and elsewhere around the country

Education (High School, Upgrades, Colleges and Degrees): BS in Civil Engineering, Ohio State University  
MS in Civil Engineering, University of Washington

Professional Registration/Certification: Licensed professional engineer - Oregon, Washington, New Mexico

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities:

\_\_\_\_\_ Date: \_\_\_\_\_  
AWWA Water Treatment Committee Date: 2000 to Present

Course sponsor: American Water Works Association Cascade to Coast Subsection

Signature of Instructor: Kwan, Pierre Digitally signed by Kwan, Pierre  
Date: 2022.01.13 12:58:28 -08'00' Date: Jan. 13, 2022

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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## Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: \_\_\_\_\_

Presenter: \_\_\_\_\_ Title: \_\_\_\_\_

Employer: \_\_\_\_\_ Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Phone: \_\_\_\_\_

Summary of Lesson content: \_\_\_\_\_

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: \_\_\_\_\_

Education (High School, Upgrades, Colleges and Degrees): \_\_\_\_\_

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities:

\_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: \_\_\_\_\_ Date: \_\_\_\_\_

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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Phone: 503-698-6486



# Chass Jones

**U.S. Department of Homeland Security, Protective Security Advisor- Oregon**



**Homeland Security**

Chass Jones is a Department of Homeland Security Protective Security Advisor (PSA) assigned to Oregon. In this capacity, Chass serves as a critical infrastructure security and resiliency subject matter expert and is the Department's liaison with private, federal, state, local, tribal, and territorial organizations as well as other infrastructure mission partners. Additionally, Chass is responsible for the identification of critical infrastructure, analysis of interdependencies, and mitigation of consequences from potential all-hazards or man-made threats. PSAs perform

vulnerability and security assessments on a variety of critical infrastructure to identify security gaps and vulnerabilities while coordinating training and mitigation techniques in support of special events and during incidents.

Prior to becoming a PSA, Chass served for over 4 years as a Department of Defense (DoD) technical expert on the Defense Critical Infrastructure Program (DCIP). Within that capacity, he supported the Joint Chiefs of Staff, leading DoD Mission Assurance (MA) Assessment Teams on over 15 assessments around the world analyzing critical missions and assessing reliance on infrastructure, such as electric power, petroleum/fuels, telecommunications, industrial systems, chemical, water and transportation.

In addition, Chass deployed with the Joint Program Office (JPO), Mine Resistant Ambush Protected (MRAP) to Afghanistan for 6 months, serving as the J6 Information Technology/Information Assurance/ Communications Security Lead (IT/IA/COMSEC), and Information Management Officer Forward. In this role, Chass directed 53 DoD contractors located in Afghanistan, Kuwait, and the United States and was responsible for providing telecommunications and information technology support to JPO MRAP at 10 separate Forward Operating Bases in Afghanistan serving over 4000 DoD personnel. Prior to becoming, a MA Team Lead Chass served for over 2 years as a DoD Critical Infrastructure Sector Program Manager. Coordinating sector vulnerability assessments across 60 separate DoD components managing a \$600K budget to identify critical infrastructure, analyze interdependencies, capability gaps, and mission dependence on external non-DoD critical infrastructure.

Lastly, Chass served 22 years in the United States Army and the National Guard primarily as a US Army Scout and Pathfinder with an overseas tour supporting Operation Iraqi Freedom. Chass is the recipient of the Bronze Star and US Army Combat Infantry Badge for his combat experience and was awarded the Meritorious Service Medal for his distinguished career upon his retirement in 2009.

Chass earned a Master's Degree in Strategic Planning for Critical Infrastructures (MSPCI) from the University of Washington and Bachelor's Degree in Management Information Systems from Eastern Washington University.



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Leveraging GIS for Lead pipe tracking and Water Meter GPS locating

Presenter: Caleb Anderson Title: GIS Supervisor

Employer: Eugene Water and Electric Board Address: 4200 Roosevelt Blvd

City: Eugene State: OR Zip: 97402 Phone: 541-685-7747

Summary of Lesson content: Using web-based Geographic Information Systems (GIS) for tracking and sharing lead pipe information and GPS equipment to capture Water Meter locations.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: GIS, Water, Federal Lead Pipe Requirements, GPS, Water Meter, Locating, AMI

Education (High School, Upgrades, Colleges and Degrees): Masters in GIS from University of Washington

Professional Registration/Certification: DEQ Level I Wastewater, UAS (drone) license, GISP

Related papers/instruction you have presented:

Title: Using GIS for tracking Lead Pipe Date: 2022 Event: URISA

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities:

\_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: Lisa Erkert - EWEB

Signature of Instructor: Caleb Anderson Digitally signed by Caleb Anderson  
Date: 2022.11.02 10:35:00 -07'00' Date: 11/2/2022

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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Phone: 503-698-6486



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: iHydrant Technology

Presenter: Vaughn Barber Title: District Sales Manager

Employer: Kennedy / M&H Valve Address: 2517 39th Street

City: Washougal State: WA Zip: 98671 Phone: 2066022457

Summary of Lesson content: This will be a presentation on iHydrant technology for pressure and temperature monitoring.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: \_\_\_\_\_

Education (High School, Upgrades, Colleges and Degrees): Bachelors Degree, Washington State Univeristy

Professional Registration/Certification: Water Distribution Manager Level 4 Washington State, C2EP PO level 3

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: \_\_\_\_\_ Date: 2008 - Present

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: Kennedy / M&H Valve

Signature of Instructor: \_\_\_\_\_ Date: 12/20/2022

**DO NOT WRITE BELOW THIS LINE**

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Phone: 503-698-6486

Vaughn Barber

I began my water works career with the City of Washougal in 2004 as an entry level employee in the water and wastewater division. I began learning all aspects of the distribution system and obtaining certifications. In 2008 I was promoted to supervisor and functioned in that capacity until I resigned in April of 2022. Through the years at Washougal I worked on all aspects of the water utility, from production to water quality, SCADA system operation and distribution system repairs. My passion was always water main repair as well as valve and hydrant repair and replacement. I received an opportunity with Kennedy and M&H valve to become District sales manager for Oregon, Washington and North Idaho. This is an opportunity to pass on knowledge, assist in repairs and training for those in need and has been a much needed career change in pace.



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Confined Spaces and Excavation Hazards

Presenter: Christian M. James Title: Senior Occupational Health Consultant

Employer: Oregon OSHA Address: 1340 Tandem Avenue; Suite 160

City: Salem State: OR Zip: 97301 Phone: 503.798.2407

Summary of Lesson content: Identify many of the hazards associated with confined spaces and excavations.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Three years as an Oregon OSHA Health Compliance Officer followed by over 5 years as an Oregon OSHA Health Consultant. Prior work with demolition and renovation operations.

Education (High School, Upgrades, Colleges and Degrees): B.A. Degree; SUNY at Oswego (1983)  
JFK High School; Somers, NY (1979)

Professional Registration/Certification: N/A

Related papers/instruction you have presented:

Title: Confined Spaces Presentation Date: 3/18/2021 Event: OROSHA Public Education

Title: Consultations involving C/S Date: 2017- Present Event: OROSHA Consultations

Professional Organizations/Activities: American Industrial Hygiene Association Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: AWWA

Signature of Instructor: *Christian M. James* Date: 11/29/22

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**SUMMARY OF PROFESSIONAL EXPERIENCE**

- Over 8 years of experience with Oregon OSHA. First three years as a Health Compliance Officer performing comprehensive, emphasis, referral or complaint inspections as well as accident investigations. Subsequent years as a Senior Occupational Health Consultant providing a wide variety of comprehensive and topic specific consultation services with Oregon employers, employees and various organizations. This would include participation on Voluntary Protection Program (VPP) Audits and Safety and Health Achievement Recognition Program (SHARP) evaluations as well as Public Education and Presentation provision.
- Over 24 years of experience in performing, managing, supervising, and developing business for various industrial hygiene and other environmental and safety-related inspections and projects associated with active site operations, renovation and demolition operations.
- Well-developed communication, assessment, and computer skills (MS Word, Excel, and PowerPoint).
- Ability to work independently/autonomously and with multi-disciplinary teams to accomplish the mission.
- Experienced business development, marketing, presentation, supervision and group facilitation across client spectrum.
- Use of Thermal Imaging cameras; conducted moisture mapping and preparation of psychrometric charts associated with restoration operations following Hurricane Katrina; Gulfport to New Orleans.
- IH sampling for silica and asbestos of utility workers in Staten Island following Hurricane Sandy.
- Site Safety Officer for restoration, excavation and demolition operations following Hurricane Sandy in Staten Island.

**EMPLOYMENT HISTORY**

2018- Present	<u>Oregon OSHA</u> ; Salem, OR Senior Occupational Health Consultant
2014- 2017	<u>Oregon OSHA</u> ; Salem, OR Health Compliance Officer
2013- 2014	<u>Applied Solutions, LLC</u> ; Woodbury, CT Member
2010- 2012	<u>ENVIRON International Corporation</u> ; Woodbury, CT Senior Manager
2003- 2010	<u>LFR (subsequently acquired by ARCADIS)</u> ; Sandy Hook, CT Senior Associate
2002- 2003	<u>Professional Service Industries (PSI)</u> ; New York, NY Branch/Department Manager
1995- 2002	<u>FUGRO/ENSR Corporation</u> ; Plainsboro, NJ; Langhorne, PA, Hawthorne, NY Senior Program Manager
1992- 1995	<u>Practical Environmental Solutions</u> ; Flemington, NJ Vice President/Co-founder
1991- 1992	<u>Omni Environmental Corporation</u> ; Princeton, NJ Environmental Scientist
1990- 1991	<u>PT&amp;L Environmental Consultants</u> ; Paramus, NJ Field Technician- Project Manager
1983-1990	<u>United States Army</u> , Overseas and Fort Bragg, NC; Regular Army Commissioned Officer; Nuclear, Biological and Chemical MOS; Airborne, Ranger and Special Forces Assessment and Selection/ Survival Evasion Resistance Escape (SERE)/ Psychological Operations

**SELECTED PRIOR PROJECT EXPERIENCE****New York City Transit (NYCT), Asbestos/Lead Consulting Services, Five Boroughs of New York City**

Performed as Account Manager for Contracts CM-1084 and CM-1174. These contracts were multi-million dollar contracts directly working for the Office of System Safety at NYCT. Performance of asbestos and lead consulting services for emergency abatement or other immediate directives, scheduled and conducted subway track walks as well as scheduled non-Capital Program projects. Directed the activities and overall management of the account from a logistical and financial standpoint. Performed noise dosimetry monitoring to measure noise exposure of deployed personnel performing track walks/inspections.

**Waldorf-Astoria Hotel, Asbestos Consulting Services, New York, New York**

Performed a comprehensive asbestos survey of the hotel building as well as specific pre-renovation asbestos investigations to ensure that applicable NYC asbestos regulations and codes were adhered to prior to renovation activities by other trades. Developed and implemented an Asbestos Operations & Maintenance Program as well as the performance of Two-Hour Awareness Training for Union Maintenance and Trades Personnel.

**United States Postal Service (USPS), Asbestos, Lead-Based Paint, & Lead in Water Investigations, Multiple Locations, New York City and New Jersey**

Performed as Senior Project Manager for over 29 separate USPS facilities in the New York Metropolitan Area and 19 separate facilities in New Jersey as part of a Three-Year Contract for the conduct of asbestos, lead-based paint and lead in water investigations.

**Miles Laboratories, Pre-Demolition Hazardous Materials Disposition and Disposal, N. Haledon, New Jersey**

Performed as Project Manager for pre-demolition activities involving complete razing of 23 interlocking buildings on a site immediately proximal to residential and school grounds. Contaminants of concern included asbestos, lead-based paint, hazardous materials inventory (PCB, mercury) as well as for wood preservative waste classification, organic pigment contamination of building materials and other contaminants for appropriate waste classification prior to disposal. The inventory was used to develop and document waste for classification, technical specification and detailed scope of work development, performance of contractor pre-bid walkthroughs, plant decommissioning oversight responsibility, with resulting documentation to be used for historical accountability of activities on-site. Responsibilities also included the installation and operation of ambient air monitoring stations (PM-10's) surrounding the site to monitor airborne concentrations or particulates as well as materials and metals of concern and their potential for migration off-site.

**Bank of America, Environmental Consulting; New York-New Jersey**

Performed as the Regional Manager for New York and New Jersey for environmental issues at bank-owned or operated facilities relating to asbestos, lead, mold, indoor air quality, water intrusion, drinking water issues, pigeon guano, aboveground/underground storage tank issues, blood borne pathogen concerns, and hydraulic fluid releases from garbage compactors. Responded to associate and/or customer complaints, and worked with client and management for resolution as part of business as usual and/or pre-renovation or pre-demolition operations.

**C&B Disaster Services, Moisture Mapping and Psychrometric Chart Preparation; Mississippi and Louisiana**

Provided moisture mapping and data collection associated with and inclusion of the preparation of Psychrometric Charts on behalf of C&B Disaster Services following Hurricane Katrina.

**National Grid Utility, Environmental Consulting; New York City**

Provided services on behalf of National Grid regarding concerns for asbestos and silica exposure to Utility Workers in New York City following Hurricane Sandy. Services included stationary and personal air monitoring for asbestos and silica with utility workers/teams during home gas operational repairs to single family and multi-family homes.



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Amador Water Agency Disinfection Byproduct Study

Presenter: Dylan Carey, EI; Bryan Phinney, PE Title: Project Engineer; Senior Water Engineer

Employer: Keller Associates, Inc. Address: 1325 Airmotive Way, Suite 375

City: Reno State: NV Zip: 89502 Phone: (702) 343-3383

Summary of Lesson content: Amador Water Agency has experienced violations in disinfection byproducts (DBPs) in their distribution system. This presentation overviews the causes of DBP formation in water systems and recommends actionable steps to maintain regulatory standards in finished water.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Water Treatment Systems Improvements, DBP formation modeling, and distribution systems for small municipal water systems

Education (High School, Upgrades, Colleges and Degrees): \_\_\_\_\_  
See resumes

Professional Registration/Certification: \_\_\_\_\_  
See resumes

Related papers/instruction you have presented:  
Title: Disinfection Byproduct Formation in [ ] Date: 2/01/2022 Event: NWEA Conference - Las Vegas, NV  
Title: Disinfection Byproduct Formation in [ ] Date: 8/17/2022 Event: Amador Water Authority Training

Professional Organizations/Activities:  
AWWA - Bryan Phinney Date: \_\_\_\_\_  
ASCE - Dylan Carey Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: Dylan Carey  Digitally signed by Dylan Carey  
DN: C=US, E=dcarey@kellerassociates.com, CN=Dylan Carey  
Date: 2022.11.10 09:19:13-08'00' Date: \_\_\_\_\_

**DO NOT WRITE BELOW THIS LINE**  
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# Dylan Carey, EI | Project Engineer

**Role:** Project Engineer



Dylan Carey is a project engineer in the Reno, Nevada office and specializes in Water Treatment Planning and Design. He is involved in work completed in Nevada, California, and Idaho water and wastewater disciplines, providing technical expertise developed during his Master's degree and research as well as previous work in civil engineering and surveying.

Dylan's master's research investigated disinfection byproduct formation in the Truckee Meadows Water Authority distribution system, sampling for trihalomethanes and haloacetic acids, bench testing alternative disinfection strategies, and developing a centralized database for historical water quality data throughout the region. His research has contributed to mitigating disinfection byproduct formation in the Truckee Meadows water systems.

Dylan's responsibilities in water and wastewater projects with Keller and UNR has included planning studies, sample collection, bench testing, developing detailed sampling plans, data collection and analysis, modeling, and project design. Below is a sample list of these projects and services.

- **Amador Water Agency Disinfection Byproducts Study (Amador, CA)**
  - Project Engineer for two-phase disinfection byproducts study
  - Review of system operations, sampling data, and reservoir as-built drawings
  - Drafting sampling protocol Agency use
- **UNR-TMWA Disinfection Byproducts Study for the Aquifer Storage and Recovery Program (Reno, NV)**
  - Compiled 16,000 water quality data points into centralized database
  - Ran bench study for alternative disinfection strategies
  - Investigated model formation for trihalomethanes and haloacetic acids
- **Upper Pressure Zone Water Storage Tank (Emmett, ID)**
  - Project Engineer for 350,000 gallon storage tank and pressure relief station
  - Prepared preliminary engineering report and design drawings
  - Establish cost estimate for tank site and water utilities
- **Truckee Meadows Water Reclamation Facility - Odor Control Pilot Study (Reno, NV)**
  - Development of sampling plan for 3-week pilot study with 23 parameters
  - Collecting and handling biosolids and vapor samples
  - Analysis of over 1200 data points
  - Delivered technical memo summarizing pilot study results
- **Copper Cove Wastewater Treatment Facility Planning Study (Copperopolis, CA)**
  - Historical influent data collection and analysis
  - Projecting future planning flow and constituent loading criteria
  - Process capacity evaluation

## CREDENTIALS

### Education

Master of Science  
Civil and Environmental  
Engineering  
University of Nevada, Reno

### Years of Experience

1

### Work Experience

2021 – Present  
Keller Associates, Inc.  
*Project Engineer*

2020 – 2021  
University of Nevada, Reno  
*Graduate Research Assistant*

2018 – 2020  
Wood Rodgers, Inc.  
*Civil Engineering Intern*

2017 – 2018  
Summit Engineering, Inc.  
*Land Survey Field Technician*

2014 – 2016  
Diamondback Land  
Surveying, Inc.  
*Land Surveying Field*

### Organizations

American Society of  
Civil Engineers

## **Bryan Phinney, PE, D.WRE |** **Senior Water Engineer**

**Role:** Water Treatment



Bryan Phinney is a civil and environmental engineer with experience in the planning, designing, and operation of municipal water systems. He leads Keller's drinking water pumping and treatment team. His experience includes source water planning, analysis, design, and construction, water treatment, reuse, and raw water irrigation. Bryan has developed a thorough understanding of the municipal water industry through his 24 years of working in the Pacific Northwest.

He has experience working with regulatory agencies at the state and federal levels for rulemaking and project review. Bryan is familiar with current pumping, valve, and pipe network study and design approaches and industry standards as a member of the National Technical and Education Council of the American Water Works Association. In this role, Bryan has literally worked on "writing the book" for water system challenges.

Bryan spends time understanding his client's needs and then uses his experience to develop answers by working with them. He has learned that a successful project meets the client's financial, operational, and regulatory needs. This is accomplished through constant and consistent communication between the client and the consultant. He has had success using consistent project team meetings that include the project stakeholders, facilitating interaction within the project team.

Recent project experience includes:

- ▶ **Ashland, OR – Pump Stations**
  - Senior project engineer for the evaluation of three ultrafiltration membrane pilots
- ▶ **Amity, OR – Water System Improvements**
  - Senior technical design lead for 600 gpm plant expansion, solids contact clarification, dual media filtration, process and controls integration with existing processes
- ▶ **Beaverton, OR – TVWD Fluoridation Facility**
  - Senior process engineer for 17 MGD finished water fluoridation facility appurtenant to a new water booster station
- ▶ **Ontario, OR – Water Treatment Plant**
  - 2 MGD expansion of a 10 MGD facility, including a new river intake facility
- ▶ **Stayton, OR – Water Treatment Support**
  - Surface water treatment facility master planning

### **CREDENTIALS**

#### **Education**

Master of Science  
Civil Engineering  
University of Wyoming

#### **Years of Experience**

24

#### **Professional Registrations**

Oregon: 73236PE  
Idaho: 10394  
Nevada: 028664  
Utah: 12234177  
Washington: 56762  
Wyoming: 9515

#### **Work Experience**

2001 – Present  
Keller Associates, Inc.

1998 – 2001  
Richard P. Arber  
Associates, Inc.



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Shutoff and Check Valves

Presenter: Matthew McQuillan Title: Territory Manager

Employer: Mueller Water Products Address: 1769 W. Bridge Ave

City: Spokane State: WA Zip: 99201 Phone: 509-638-2737

Summary of Lesson content: An overall look into the different shutoff and check valves and which application they can be used in These applications can include media, high pressure, confined spaces, and pipe sizes with each one affecting which options can be utilized.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Over 6 years as an Application Engineer for Val-Matic Valve and Mfg. as well as Henry Pratt

Education (High School, Upgrades, Colleges and Degrees): Bachelor of Liberal Arts and Science in Chemical Engineering from the University of Illinois CHampaign-Urbana

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: Matthew McQuillan Digitally signed by Matthew McQuillan Date: 2022.10.24 13:31:06 -07'00' Date: 10/24/22

**DO NOT WRITE BELOW THIS LINE**  
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Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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Matthew McQuillan  
Infrastructure Territory Manager  
Mueller Water Products  
2021

**Summary of Lecture Content**

An overall look into the different shutoff and check valves and which application they can be used in. These applications can include media, high pressure, confined spaces, and pipe sizes with each one affecting which options can be utilized.

**Primary Knowledge and Skill**

Education

- Bachelor's of Arts and Science in Chemical Engineering from the University of Illinois in 2014.

Experience

- (2014-2018) – Application Engineer at Val-Matic Valve and Mfg.
  - Role included inside sales supporting sales representatives with a wide array of products including butterfly valves, plug valves, check valves, air valves, and large ball valves
- (2018-2020) – Application Engineer at Henry Pratt Company
  - Supporting a similar array of products including cone, sleeve, metal-seated ball valves as well as cylinder-operated valves
- (2020-Present) – Infrastructure Territory Manager
  - Supporting Mueller distribution channel and providing training classes on iron and brass products for the Inland Northwest including Eastern WA, Northern ID, and MT.



## Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: ORWARN Tabletop Exercise

Presenter: Jeremiah Hunt Title: Water Construction & Distribution Supervisor

Employer: Eugene Water & Electric Board (EWEB) Address: 4200 Roosevelt Blvd.

City: Eugene State: OR Zip: 97402 Phone: 541-685-7602 / 541-852-8187

Summary of Lesson content: Using the ICS structure and ORWARN resources, participants of the class will work through a scenario coordinating water distribution recovery after a massive event. This will be a very interactive class as the group will brainstorm, plan and react to injects of the event.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: See attached

Education (High School, Upgrades, Colleges and Degrees): High School

Professional Registration/Certification: OHA Water Distribution Grade 3 Certification, Arizona Department of Environmental Quality Grade 4 Water Distribution, Grade 4 Wastewater Collections & Grade 2 Water Treatment.

Related papers/instruction you have presented:

Title: Water Main Breaks BMP Date: March 2015/2016 Event: Cascade to Coast Short School

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: ORWARN Board Member and current Chair Date: 2013 to Present

Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: Jeremiah Hunt Digitally signed by Jeremiah Hunt Date: 2022.01.06 12:24:25 -08'00' Date: \_\_\_\_\_

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Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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### Brief Bio for Jeremiah Hunt

I've been working in water distribution for 25 years and have 13 years' experience in Wastewater Collections. I started my career in the field working in all parts of the water distribution and wastewater collection systems. My career started in Arizona where I worked for two utilities, Citizens Utility and The City of Goodyear. Then I pulled my roots to work for Eugene Water & Electric Board (EWEB). I've been with EWEB for 12 years and have been a supervisor for the past 11. I've been on the Oregon Water/Wastewater Agency Response Network (ORWARN) Board for 9 year and currently serving as the Chair of the Board. I've also completed FEMA, ICS 100, 200, 300, 400, 700, & 800 courses. This presentation is geared around the NIMS/ICS structures and utilizing utility to utility resources to accomplish goals outlined by the group.



## Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Wildfire Water Quality and Infrastructure Impacts: Research Findings and Colorado Experience

Presenter: Frank J. Blaha, P.E. Title: Regional Liaison - Central States

Employer: The Water Research Foundation (WRF) Address: 6666 W. Quincy Avenue

City: Denver State: CO Zip: 80235 Phone: 303-347-6244

Summary of Lesson content: This lesson will address water quality and infrastructure-focused wildfire research, with an emphasis on the several projects funded by The Water Research Foundation (WRF). It will also highlight the utility

experience with recent Colorado Front Range wildfires. Emphasis on practical resilience planning insights for utilities.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 26-year employee of WRF. Interest/focus on infrastructure resilience issues for over 20 years, and wildfire water utility impacts for over 10 years. Frequent conference presenter.

Education (High School, Upgrades, Colleges and Degrees): BS in Engineering from Northwestern University, MS in Civil & Environmental Engineering from the University of Wisconsin-Madison.

Professional Registration/Certification: Registered Professional Engineer in Colorado (26026)

Related papers/instruction you have presented:

Title: Effects of Extreme Weather-Related Date: 5/5/2017 Event: AZ Water Annual Conference

Title: Events on Water Utilities Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities:

Member of AWWA and ASCE. With AWWA a member of the Water Main Condition Date: AWWA since 2010.

Assessment Committee and the Water Loss Control Committee. Date: ASCE since 2017.

Course sponsor: Pacific Northwest Clean Water Association

Signature of Instructor: Frank J. Blaha Digitally signed by Frank J. Blaha Date: 2022.11.28 11:40:18 -07'00' Date: 11/28/2022

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## Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: A Multi-Barrier Drinking Water Treatment Process during Harmful Algal Bloom

Presenter: Xue Jin Title: Assistant Professor

Employer: Oregon State University Address: 105 SW 26th St

City: Corvallis State: OR Zip: 97331 Phone: 5417377968

Summary of Lesson content: Well-controlled laboratory experiments were performed to investigate the performance of chitosan as an alternative to traditional metallic coagulants in a hybrid coagulation-ultrafiltration (UF) process for addressing multiple HABs impacts in drinking water treatment.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Water and wastewater treatment; Membrane technology; Water-Energy Nexus; Environmental application and implication of nanomaterials; Nutrients recovery

Education (High School, Upgrades, Colleges and Degrees): PhD

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: Xue Jin Digitally signed by Xue Jin Date: 2022.10.17 19:57:16 -07'00' Date: 10/17/22

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

Return Completed Form To: OESAC CEU COMMITTEE  
P.O. Box 577  
Canby, OR 97013-0577  
Email: [info@oesac.org](mailto:info@oesac.org)  
Phone: 503-698-6486



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Augmenting Operator Knowledge and Experience with AI and Analytics for Improved Decision-Making

Presenter: Keaton Lesnik Title: Principal Engineer/Founder

Employer: Maia Analytica Address: 4547 NE Campaign St

City: Portland State: OR Zip: 97218 Phone: (619) 895-9992

Summary of Lesson content: Lesson will highlight how analytics and advanced modeling techniques are used to augment decision-making in water/wastewater industry with a demonstration of new tools and approaches on how to best incorporate them into one's own decision-making process.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Led the development of Advanced AI software for training and operations tools at multiple wastewater treatment facilities over past 5 years.

Education (High School, Upgrades, Colleges and Degrees): PhD in Biological and Ecological Engineering from Oregon State University (2017) with emphasis on Machine Learning/Hybrid Modeling of Environmental Biotechnologies

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: Forecasting BPR Performance Date: 10/21 Event: WEFTEC

Title: Development of WWTF Hybrid Model Date: 08/21 Event: WRRMOD21

Professional Organizations/Activities: PNCWA Date: 09/2018

WEF Date: 09/2018

Course sponsor: \_\_\_\_\_

Signature of Instructor: Keaton Lesnik Digitally signed by Keaton Lesnik Date: 2022.10.24 13:26:43 -07'00' Date: \_\_\_\_\_

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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Canby, OR 97013-0577



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Groundwater Basics and Source Water Protection

Presenter: Tom Pattee Title: Groundwater Coordinator

Employer: Oregon Health Authority Address: 2080 Laura St

City: Springfield State: OR Zip: 97477 Phone: (541) 684-2440

Summary of Lesson content: Basic introduction to the occurrence and movement of groundwater. Overview of well construction and OHA/DEQ produced Source Water Assessments. Introduction to basic elements of Drinking Water

Source protection and how to make use of the Source Water Assessments.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Have worked in the field of Hydrogeology and Drinking Water Source Protection for 28 years. 24 years working at OHA-DWS, 14 years as Groundwater Coordinator.

Education (High School, Upgrades, Colleges and Degrees): M.S., Northern Illinois University, 1994; B.S., University of Oregon, 1990.

Professional Registration/Certification: Oregon Registered Geologist: G-1874

Related papers/instruction you have presented:

Title: Same presentation Date: 11/03/2022 Event: OAWU Spirit Mtn Casino Conference

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: Charles Thomas Pattee Digitally signed by Charles Thomas Pattee Date: 2022.11.30 11:12:25 -08'00' Date: 11/30/2022

**DO NOT WRITE BELOW THIS LINE**  
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Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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Canby, OR 97013-0577



## Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Water Use and Well Level Monitoring

Presenter: Ted Ressler (DeEtta Fosbury co-presenter) Title: Senior Hydrogeologist and Water Resource Consultant

Employer: Summit Water Resources Address: PO Box 11268

City: Portland State: OR Zip: 97211 Phone: 503-967-7050, ext 204

Summary of Lesson content: Attendees will learn about basic water level monitoring methods and best-practice procedures and receive hands-on practice making manual water level measurements. The presentation will include a discussion of record-keeping and water use reporting requirements, and the practical value of tracking water levels and use.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 20 years of experience providing groundwater resource evaluations for municipalities, water districts, agriculture, and private industry, including groundwater supply development, water well design and testing, well performance evaluations, and ASR system testing and operations.

Education (High School, Upgrades, Colleges and Degrees): BS in Environmental Geology from Bucknell University and MS in Geological Sciences from The University of Texas at Austin.

Professional Registration/Certification: Registered Geologist in Oregon (G2066), Certified Water Rights Examiner in Oregon (78185), Professional Geoscientist in Texas (1963)

Related papers/instruction you have presented:

Title: Well Rehabilitation Date: 10/20/2021 Event: AWWA PNWS (Inland Empire)


Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities:

National Groundwater Association Member Date: 2000 - Present

Rules Advisory Committee Member for OSBGE Date: 2014 - Present

Course sponsor: AWWA/PNCWA Cascade to Coast

Signature of Instructor:  Theodore R Ressler  
2022.12.07 15:56:21-08'00' Date: 12/7/2022

**DO NOT WRITE BELOW THIS LINE**

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Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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## Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Using satellite imagery and national surveys to identify lakes at risk for toxic cyanobacteria blooms

Presenter: Amalia Handler Title: Biologist

Employer: US EPA Address: 200 SW 35th St

City: Corvallis State: OR Zip: 97330 Phone: 5417548423

Summary of Lesson content: Identify lakes at risk using the Cyanobacteria Assessment Network satellite imagery and US EPA National Lakes Assessment field surveys to model the probability of large lakes exceeding lower and higher demonstration thresholds of microcystin toxin, cyanobacteria, and chlorophyll a.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: See attached abbreviated CV

Education (High School, Upgrades, Colleges and Degrees): \_\_\_\_\_

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities:

\_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: AMALIA HANDLER Digitally signed by AMALIA HANDLER  
Date: 2022.09.19 09:06:29 -07'00' Date: 09/19/2022

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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Phone: 503-698-6486

# Amalia Handler

## Education

- 2019 Ph.D., Environmental Life Science**, Arizona State University, Tempe, AZ  
Dissertation title: Watershed Nitrogen Transport, Retention, and Fate in Dryland and Urban Ecosystems. Advisor: Nancy Grimm
- 2013 B.A., Environmental Science** Franklin & Marshall College, Lancaster, PA

## Professional

- 2022–Present Biologist, US Environmental Protection Agency**, Office of Research and Development, Pacific Ecological Systems Division, Corvallis, OR.
- 2020–2022 Postdoctoral Scientist, Environmental Protection Agency**, Office of Research and Development, Pacific Ecological Systems Division, Corvallis, OR. Mentor: Jana Compton
- 2019 Summer Fellow, Environmental Data Initiative**, Flathead Lake Biological Station, Polson, MT  
Mentor: Bob Hall
- 2015–2018 National Science Foundation Graduate Research Fellow**

## Research

### Publications

- Handler, A.M., J. Compton, R. Hill, S. Leibowitz, and B. Schaeffer. Remotely sensed cyanobacterial intensity predicts likelihood of lake blooms and toxins across the contiguous U.S. In revision for Science of the Total Environment.
- Handler, A.M., A.K. Suchy, and N.B. Grimm (2022). Nitrate reduction capacity and pathways of urban accidental wetlands in Phoenix, Arizona. *Journal of Geophysical Research: Biogeosciences*, 127, e2021JG006552. <https://doi.org/10.1029/2021JG006552>
- Ribot, M., N.B. Grimm, L.D. Pollard, D. von Schiller, A.M. Handler, E. Marti (2022). Consequences of an ecosystem state shift for nitrogen cycling in a desert stream. *Limnology and Oceanography*, 9999, 1-13. <https://doi.org/10.1002/lno.12076>
- Handler, A.M., E.V. Lonsdorf, D.R. Ardia (2020). Evidence for red fox (*Vulpes vulpes*) exploitation of anthropogenic food sources along an urbanization gradient from stable isotope analysis. *Canadian Journal of Zoology*, 98(2): 79-87. <https://doi.org/10.1139/cjz-2019-0004>

### Selected Presentations at National Meetings

- Handler, A.M., J. Compton, R. Hill, S. Leibowitz, and B. Schaeffer. Using satellite imagery and national surveys to identify lakes at-risk for toxic cyanobacteria blooms in the U.S. Joint Aquatic Sciences Meeting, Grand Rapids, MI, May 16-20, 2021.
- Handler, A.M., J. Compton, R. Hill, S. Leibowitz, and B. Schaeffer. Remotely sensed cyanobacterial intensity predicts likelihood of lake blooms and toxins across the contiguous U.S. North American Lake Management Symposium, Nov 15-18, 2021.



- Handler, A.M., J. Compton, R. Hill, and S. Leibowitz. Interannual mean summer cyanobacteria algae blooms in lakes across the contiguous U.S. as measured by remote sensing predicts risk for algal toxins. American Geophysical Union Virtual Fall Meeting, Dec 1-18, 2020.
- Handler, A.M. and N. B. Grimm. Pulse dynamics at the catchment scale: Precipitation-driven carbon and nitrogen flood export in a desert stream. American Geophysical Union Fall Meeting, Washington D.C., Dec 9-13, 2019.
- Handler, A.M., A.M. Helton, N.B. Grimm. Effect of distinct rainy and dry seasons on nitrate inputs and retention in a dryland watershed. American Geophysical Union Fall Meeting, Washington D.C., Dec 10-14, 2018.

### **Seminars**

- Handler, A.M., J. Compton, R. Hill, S. Leibowitz, B. Schaeffer. Using satellite imagery and national surveys to identify lakes at-risk for toxic cyanobacteria blooms in the US. Pacific Ecological Systems Division Science Seminar, Apr 28, 2022 (Invited).
- Handler, A.M., J. Compton, R. Hill, S. Leibowitz. Remote sensing cyanobacteria to understand patterns, risk, and drivers of lake harmful algal blooms. Seminar to Portland State University's Environmental Science Department and the Association of Environmental Science Students, Feb 26, 2021 (Invited).
- Handler, A.M. and N.B. Grimm. Nitrogen movement and transformation: A journey from slopes through stream to urban wetlands in the Arizona desert. Oregon State University Water Seminar, Apr 28, 2020 (Invited).
- Handler, A.M. and N.B. Grimm. Nitrogen movement and transformation: A journey along slopes, streams, and wetlands in the Arizona desert. Franklin & Marshall College Biology Department Special Seminar, Oct 24, 2019.

### **Workshops**

- Handler, A.M. (lead organizer), A.K. Suchy (co-organizer), and J. Duncan (co-organizer). Identifying trends in nitrogen cycling across LTER sites controlled by local and regional factors. Synthesis workshop held at the Long-Term Ecological Research Network All Scientists Meeting, Pacific Grove, CA. Sep 30 – Oct 3, 2018.

## **Teaching**

- |            |  |
|------------|--|
| 2016–2019  | Co-Director and Instructor, Prison Biology Education Program, ASU  |
| 2018–2019  | Co-Founder and Instructor, Prison Planetary Science and Astronomy Education Program, ASU                       |
| 2018, Fall | Laboratory Instructor, Biology 361: Animal Physiology, ASU   |
| 2017, Fall | Recitation Instructor, Biology 189: Life Sciences Career Paths, ASU  |
| 2013–2014  | Ecology Explorers, K-12 education program of the Central Arizona-Phoenix Long-Term Ecological Research Program |

## **Service**

- |              |   |
|--------------|---|
| 2021–Present | Founder and Leader, Early Career Knowledge Exchange, Pacific Ecological System Division, U.S. EPA |
| 2020–Present | Member, Diversity, Equity, and Inclusion Committee, Pacific Ecological System Division, U.S. EPA  |



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: SAFE, NON-CONTACT TROUBLESHOOTING OF MOTORS AND CONTROLS

Presenter: CHUCK ARRERA Title: OWNER

Employer: ARRERA ENGINEERING Address: 85350 S VARYERUD RD.

City: EUGENE State: OR Zip: 97405 Phone: 541-501-9904

Summary of Lesson content: SEE ATTACHED

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: SEE ATTACHED

Education (High School, Upgrades, Colleges and Degrees): B.S. OREGON STATE, 1967

Professional Registration/Certification: OREGON PROFESSIONAL ENGINEER 1976 - 2008 (RETIRED)

Related papers/instruction you have presented:

Title: SAME Date: 2017 Event: AWWA SHORT SCHOOL

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: AWWA Date: CURRENT

Date: \_\_\_\_\_

Course sponsor: CASCADE TO COAST SUB-SECTION

Signature of Instructor: [Signature] Date: 7/30/22

DO NOT WRITE BELOW THIS LINE

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

Return Completed Form To: OESAC CEU COMMITTEE P.O. Box 577 Canby, OR 97013-0577 Email: [info@oesac.org](mailto:info@oesac.org) Phone: 503-698-6486

## Safe, Non-Contact, Troubleshooting of Motors and Controls

Operators can significantly improve the reliability of their treatment plants and pumps stations by improving their understanding of plant electrical and control systems. Many valuable troubleshooting tasks can be completed without the specialized training of an electrician or controls specialist. When things do go wrong, the operator must decide when to call in the appropriate specialist and how to explain the problem.

This one-hour presentation will focus on information that will lead to safe, non-contact troubleshooting that will prove valuable in day to day operations and shorten down time during emergencies.

Topics covered will include:

- Understanding the layout of your plant electrical system.
  - Example: Do I call the power company or an electrician?
- What visual indicators do I have to assist me in trouble shooting:
  - Example : Is that LED on my VFD normally red?
- Observing operating temperatures, sounds and smells
  - Example: What is the normal operating temperature for that motor and what is too hot?
- Understanding documentation and reading drawings.
  - Example: During an emergency is not the time to decide if these are the "real" As-built drawings.

Operators will leave with significant homework assignments if they choose to learn more about the inner workings of their plant.

## Bio for Chuck Arrera

Chuck has worked in utility operations for over 50 years. He is a retired Civil and Control Systems engineer and Industrial Plant electrician. Chuck has taught continuing education classes for utility plant operators, mechanics, electricians, and instrument technicians. Classes and have been presented from coast to coast on the mainland United States and throughout the Pacific Islands.



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Using ESRI Mobile Applications for Water Quality Source Protection.

Presenter: David Richey Title: GIS Analyst II

Employer: Eugene Water & Electric Board Address: 3957 Hayden Bridge Rd

City: Springfield, OR 97477 State: OR Zip: 97477 Phone: 541-685-7723

Summary of Lesson content: This presentation will introduce attendees to the suite of ESRI mobile applications in use by EWEB as part of a collaborative group of watershed stewardship organizations, the Pure Water Partners. The applications were developed and deployed following the Holiday Farm Fire of 2020.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: See attached.

Education (High School, Upgrades, Colleges and Degrees): \_\_\_\_\_

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities:

\_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: David Richey Date: 12/8/2022

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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## EXPERTISE

- Program Management & Staff Development
- Project Development & Management
- GIS Data Development, Spatial Analysis, & Cartography
- Watershed Hydrologic Modeling & Landscape Analysis
- Natural Systems Education & GIS Technology Training
- Public Presentation, Participation, & Facilitation
- Urban Planning, Active Transport, & Public Health
- Rural Land Use & Agricultural Systems
- Lidar Point cloud (.las) analysis
- ArcGIS, Python, SQL

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## EDUCATION

**Master of Landscape Architecture**, University of Oregon, Eugene, Oregon, 2000

**Bachelor of Landscape Architecture**, University of Oregon, Eugene, Oregon, 1997

**Bachelor of Arts**, Biology, Oberlin College, Oberlin, Ohio, 1990

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## PROFESSIONAL EXPERIENCE

**GIS Analyst II**, *Eugene Water & Electric Board*; July 2022 – present.

- Provide GIS support services as a member of the Water Quality and Source Protection Team for the Water Operations Division in promoting water quality in the McKenzie River Watershed, the source of drinking water for 200,00 people in the Eugene-Springfield Area.

**Owner**, *Land Craft Design & Consultation LLC*; November 2019 – June 2022.

- Provide comprehensive geographic information system services to public agency and non-profit clients.

**GIS Program Manager**, *Lane Council of Governments (LCOG), Eugene, Oregon*; September 2018 – December 2019;

**Principal GIS Analyst**, *LCOG*, 2017-2018; **Senior GIS Analyst**, *LCOG*, 2012 – 2017; **GIS Associate**, *LCOG*, 2007 – 2012; **GIS Assistant**, *LCOG*, 2004 – 2007.

- Manage a long-term, multi-agency cooperative regional GIS program providing a range of geo-spatial data products and services to county and city governments, public safety districts, and private businesses such as title companies, real estate agents, and development professionals. Responsibilities include inter-governmental coordination; development and implementation of policies, procedures, and budget; personnel management; identifying potential work; securing resources; and representing the organization at various community, state, federal, and other agency meetings.
- Supervise staff in the execution of contract-based activities providing a range of geo-spatial services and products to member agencies of LCOG (Public Utilities, Municipalities, School Districts, etc.) and private-sector clients.
- Perform a wide variety of GIS-based cartographic and analytic tasks in support of urban and regional landscape planning projects, active transport modeling, public school management, and other spatial analyses.
- Conduct urban land and transportation analysis and planning: Building Lands Inventory, Housing Needs Assessment, Urban Growth Expansion, Transportation Analysis, and Transportation Growth Management, and Active Transport.
- Conduct landscape and natural resource analysis and planning: watershed hydrologic modeling, monitoring, and management; land cover classification; Lidar analysis; nitrate groundwater modeling; agricultural landscape analysis; and food system research.
- Administer databases and programs using Python and ESRI Model Builder; GRID and LiDAR analysis; data acquisition & quality assurance; spatial database design, maintenance, and analysis using several platforms: T-SQL, MS Access, MS SQL Server (user), ESRI Personal, File, & SDE databases.
- Organize regional meetings around GIS training and data development; train internal staff, interns, colleagues at collaborating agencies and organizations in GIS technologies; make presentations to local and regional meetings and conferences.

**Adjunct Assistant Professor**, *University of Oregon, Eugene, Oregon*; 2000 – 2003; 2018

- Instructed in the theory and application of Geographic Information Systems.
- Produced student familiarity with ESRI's ArcGIS package of software, student ability to apply it to answer well-framed geographic questions and relate results in verbal and graphic format.
- Class materials for 2018 available at [https://davidjrichey.github.io/UO\\_Geography\\_4-581/](https://davidjrichey.github.io/UO_Geography_4-581/)

**Instructor, Lane Community College Eugene, Oregon; Fall 2010**

- Instructed a course in cartographic methods.

**Project Staff II, Satre Associates, P.C., Eugene, Oregon; 2000 - 2003**

- Executed spatial modeling, analysis and provided GIS technical support.
- Conducted urban planning and document composition and layout, including Environmental Assessment and Comprehensive Refinement Plans.
- Prepared landscape designs, contract documentation, and literature and code research.

**Graduate Research Fellow, Institute for a Sustainable Environment (ISE), University of Oregon, Eugene, Oregon; 1996 - 2000**

- Participated in a five-year, EPA-funded multidisciplinary research investigating projects in regional and landscape studies, GIS, and landscape ecology, the *Alternative Futures for the Willamette River Basin* project.
- Learned and executed numerous GIS-based tasks: data digitization, manipulation, analysis, modeling of both natural and cultural systems including intensive use of ARC/Info Arc Macro Language coding.
- Conducted literature research; cartographic and document layout; made presentations to a variety of scientific research, planning, and community groups on a range of natural resource and planning topics.

**Graduate Teaching Fellow, University of Oregon Department of Landscape Architecture, Eugene, Oregon; 1996 - 2000**

- Instructed 15-20 graduate and undergraduate students in the Plants curricula and GIS.
- Supervised newer graduate teaching fellows and contributed significantly to curriculum development.

**Nurseryman/Equipment Operator, Plant World Inc., Albuquerque, NM; 1993 - 1994**

- Salesperson, nurseryman, heavy equipment operator, and delivery person for the largest horticultural supply center in New Mexico at the time.

**Landscape Crew Foreman, Heads Up Landscaping, Albuquerque, NM; 1992 - 1993**

- Hired into the foreman training program and running a crew within six months.
- Numerous responsibilities including crew training, communication, and coordination.
- Irrigation installation, heavy equipment operation, and daily paperwork, working primarily on US Federal Air Force and National Laboratory installations

**Greenhouse Assistant, Harvest Hill Gardens, Geneva, NY; 1991 - 1992**

- Performed a variety of horticultural, sales display, and grounds maintenance tasks for a family-owned 21 greenhouse nursery in rural New York.

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## COMMUNITY SERVICE

- Cascade Pacific Resource Conservation & Development Board of Directors, Oregon, October 2013-Present
- BRING Recycling Board of Directors, Eugene, Oregon, September 2012-November 2015
- Oregon Country Fair, Lane County, Oregon, 1997-present
- Lane County Food Policy Council, Eugene, Oregon, 2007-2011
- Growers Market Board of Directors, Eugene, Oregon, 1997-98

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## PUBLICATIONS

- Evers C., S. Boles, D. Johnson-Shelton, D. Richey, J. Blair. "Parent Safety Perceptions of Child Walking Safety." *Journal of Transport and Health*, Volume 1, Issue 2, June 2014, Pages 108–115.
- Richey, D., "Land Ownership"; Richey, D., "USGS Topographic maps"; C. Enright, D. Hulse, D. Richey, "Soils"; Richey, D., J. Goicochea Dulcos, "General Land Use Zoning"; in *Willamette River Basin: Trajectories of Environmental and Ecological Change* (2002) Pacific Northwest Ecosystem Research Consortium, Hulse, D., S. Gregory, & J. Baker, (eds.) Corvallis, OR: OSU Press .
- Poole, K., D. Richey, et al, (2002) "Building Ecological Understandings in Studio" in *Ecology and Design: Frameworks for Learning* Johnson, B. & K. Hill (eds.), Washington D.C: Island Press
- Hulse, D., L. Goorjian, D. Richey, et al, *Possible Futures for the Muddy Creek Watershed, Benton County, Oregon*, (1997) University of Oregon: Institute for a Sustainable Environment

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## PRESENTATIONS & POSTERS

- "*Managing Spatial Analysis Projects*" (presentation, guest speaker). GIS Sciences I, University of Oregon, May 22, 2017.
- "*Using Collector for ArcGIS Online and Python Toolbox to Facilitate Riparian Condition Assessment*" (presentation) Southern Willamette Valley GIS Users Group Quarterly Meeting, August 31, 2016, Salem, Oregon.
- "*Geography of Food*" University of Oregon GIS Day (presentation to area high school students); November 2014, Eugene, Oregon.
- "*Estimating Riparian Canopy Cover for the McKenzie Voluntary Incentive Program*" (presentation) Southern Willamette Valley GIS Users Group Quarterly Meeting, May 2012, Eugene, Oregon.
- "*Built Environment, Perceptions of Risk, and Safe Routes to School*" (presentation) Bicycle Transportation Alliance, Oregon Active Transport (OATS) Conference, April 2012, Salem Oregon. [<http://oat-summit.com/>].
- "*Active Neighborhoods: Connecting Kids to School*" (poster) Transportation Research Board, 2010, Washington D.C. [<http://www.trb.org>].
- "*Measuring Children's Activity & Food environments: Community-Based Participatory Research*" (poster) International Conference on Diet and Activity Methods, 2009, Washington D.C. [<http://www.icdam.org/>].
- "*Evaluating Residential Development Impacts to Drinking Water Quality in the McKenzie River Watershed*" (presentation) Water & Land Use in the Pacific Northwest, 2009, Skamania, Washington [<http://conferences.wsu.edu/conferences/waterland>].
- "*Communities and Schools Together for Obesity Prevention*" (presentation) Urban and Regional Information Systems Association, 2009, Anaheim, California.
- "*Watershed Modeling for Drinking Water Source Protection in the McKenzie Watershed*" (poster) Water & Land Use in the Pacific Northwest, 2007, Skamania, Washington [<http://conferences.wsu.edu/conferences/waterland>].
- "*A Simple Nitrate Budget Model for the Southern Willamette Valley Groundwater Management Area*" (poster) Water & Land Use in the Pacific Northwest, 2007, Skamania, Washington [<http://conferences.wsu.edu/conferences/waterland>].
- "*Design & Prioritized Implementation of Woody Riparian Buffers for Increasing Effective Shade in Small Agricultural Watersheds in the Willamette Valley*" (poster) Riparian Ecology & Management in Multi-land Use Watersheds, American Water Resources Association, 2000, Portland, Oregon.





# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Collaborating on Source Water Protection

Presenter: Kim Swan Title: Water Resource Manager

Employer: Clackamas River Water Providers Address: 14275 S Clackamas River Dr

City: Oregon City State: OR Zip: 97202 Phone: 503-723-3510

Summary of Lesson content: Why collaborating on Source Water Protection efforts is valuable and can provide economies of scale and save money by sharing implementation costs.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: \_\_\_\_\_

Education (High School, Upgrades, Colleges and Degrees): \_\_\_\_\_

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: Kimberly Swan Digitally signed by Kimberly Swan Date: 2022.11.01 08:59:43 -07'00' Date: 11-1-22

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Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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Canby, OR 97013-0577

# Kimberly Swan Pryor

3424 SE Brooklyn St.  
Portland, OR 97202

503.775.6864

[kims@clackamasproviders.org](mailto:kims@clackamasproviders.org)

<b>EDUCATION</b>	<b>POSTGRADUATE STUDIES</b> <b>Portland State University</b> , Portland, Oregon <ul style="list-style-type: none"><li>• Graduate Certificate in Public Management (2011)</li><li>• River Restoration Professional Certificate Program (2011)</li></ul> <b>MASTER OF ENVIRONMENTAL STUDIES</b> , Water Resource Policy (1996) <b>Evergreen State College</b> , Olympia, Washington <b>BACHELOR OF ARTS</b> , Majors in French and International Studies; Minor in Business (1992) <b>University of Oregon</b> , Eugene, Oregon
<b>EXPERIENCE</b>	<b>WATER RESOURCE MANAGER</b> <b>Clackamas River Water Providers</b> , Oregon City, Oregon (2007 – Present) <ul style="list-style-type: none"><li>• Responsible for the day to day operations of the organization which represents a coalition of six water providers</li><li>• Oversees the development and implementation of the watershed and conservation program</li><li>• Coordinates water supply, source water protection and emergency response planning</li><li>• Manages one staff person</li></ul> <b>WATER ENVIRONMENT COORDINATOR</b> <b>South Fork Water Board</b> , Oregon City, Oregon (2001 – 2007) <ul style="list-style-type: none"><li>• Planned, developed, and implemented youth education, public outreach water conservation programs for the Cities of Oregon City and West Linn</li><li>• Coordinated South Fork’s watershed sampling program</li></ul> <b>WATER QUALITY AND CONSERVATION PROGRAM COORDINATOR</b> <b>City of Tigard, Public Works</b> , Tigard, OR (1998-2001) <ul style="list-style-type: none"><li>• Chair of the Consortium Conservation Committee; coordinated implementation of regional conservation programs.</li><li>• Planned, developed, and implemented youth education, public outreach water conservation programs.</li><li>• Managed the City’s water quality programs, including taking weekly, monthly and quarterly samples.</li></ul> <b>WATER QUALITY AND CONSERVATION PROGRAM ASSISTANT</b> <b>City of Gresham</b> , Gresham, OR (1997-1998) <ul style="list-style-type: none"><li>• Planned and implemented Youth Education and Public Outreach programs and promotions.</li><li>• Implemented Columbia-Willamette Water Conservation Coalition programs as the representative for the City of Gresham.</li></ul>
<b>HOBBIES AND INTERESTS</b>	Running, biking, hiking, gardening, a good book.
<b>AFFILIATIONS</b>	Member of the American Water Works Association, PNWS – AWWA Water Resources Committee and the Oregon Water Utility Council



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: What can gaseous chemicals tell us about toxic HABs?

Presenter: Kimberly Halsey Title: Associate Professor

Employer: Oregon State University Address: 226 Nash Hall

City: Corvallis State: OR Zip: 97333 Phone: 541-737-1831

Summary of Lesson content: New monitoring strategies are needed to protect the public and understand the complex factors leading to toxic HABs. Volatile organic compounds may be effective indicators of toxicity, ecosystem stress, and microbial composition. New instrumentation and data analysis tools are enabling rapid evaluation of water samples.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: \_\_\_\_\_

Education (High School, Upgrades, Colleges and Degrees): \_\_\_\_\_

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: Kimberly Halsey Date: 12/14/2022

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Phone: 503-698-6486

## **KIMBERLY H. HALSEY**

### **(a) Professional Preparation**

Oregon State University Microbiology B.S. 1988

Oregon State University Crop and Soil Science M.S. 2001

Oregon State University Molecular and Cell Biology Ph.D. 2007

Oregon State University Phytoplankton Ecophysiology post-doc 2007-2011

### **(b) Appointments**

Excellence in Microbiology Faculty Scholar, Oregon State University 2021-2026

Associate Professor Dept. Microbiology, Oregon State University 2018-present

Assistant Professor Dept. Microbiology, Oregon State University 2012-2018

### **(c) Products –most closely related to the proposed project**

**Halsey, K.H.**, S.J. Giovannoni, C.L. Davie-Martin. *In Review*. Biological controls on marine volatile organic compound emissions: A balancing act at the air-sea interface. *Earth – Science Reviews*.

Fox, J., Kramer, S., Graff, J.R., Behrenfeld, M.J., Boss, E., Tilstone, G., and **K.H. Halsey**. (2022). An absorption-based approach to improved estimates of phytoplankton biomass and net primary production. *Limnology and Oceanography Letters*. 7(5):419-426. doi/10.1002/lol2.10275

Moore, E.R., Weaver, A.J., Davis, E.W., Giovannoni, S.J., and **K.H. Halsey** (2021). Metabolism of key atmospheric volatile organic compounds by the marine heterotrophic bacterium *Pelagibacter* HTCC1062 (SAR11). *Environmental Microbiology*. doi: 10.1111/1462-2920.15837

Behrenfeld, M.J., **Halsey, K.H.**, Boss, E.S., Karp-Boss, L., Milligan, A., Peers, G. (2021). Thoughts on the evolution and ecological niche of diatoms. *Ecological Monographs*. Article e01457 doi: 10.1002/ECM.1457

Davie-Martin, C.L. Giovannoni, S.J., Behrenfeld, M.J., Penta, W., and **K.H. Halsey** (2020). Seasonal and spatial variability in the biogenic production and consumption of volatile organic compounds (VOCs) by marine plankton in the North Atlantic Ocean. *Frontiers in Marine Science*. doi.org/10.3389/fmars.2020.611870

Moore, E.R., Davie-Martin, C., Giovannoni, S.J., and **K.H. Halsey** (2020). *Pelagibacter* metabolism of diatom-derived volatile organic compounds imposes an energetic tax on photosynthetic carbon fixation. *Environmental Microbiology*. 22(5):1720-1733 doi: 10.1111/1462-2920.14861

**Halsey, K.H.**, Giovannoni, S., Graus, M., Zhao, Y., Landry, Z. Thrash, J.C., and J. de Gouw. (2017). Biological cycling of volatile organic carbon by phytoplankton and bacterioplankton. *Limnology and Oceanography*. 62(6):2650-2661. doi: 10.1002/lno.10596

**Halsey, K.H.** and B.M. Jones (2015) Phytoplankton strategies for photosynthetic energy allocation. *Annual Review of Marine Science*. Vol 7. doi:10.1146/annurev-marine-010814-015813

### **(d) Scientific, Technical and Management Experience on Relevant Prior Efforts**

1. Led collection and analysis of in-water VOCs by PTR-ToF/MS during four one-month field campaigns in the North Atlantic Ocean as part of the NAAMES, NASA sponsored program.
2. Developed new water sampling approaches for measuring VOCs across the 30-300 a.m.u mass spectrum and net rates of VOC production.
3. Oversee and collaborate on lab and field-based research to estimate phytoplankton growth and standing stocks through the use of remote sensing technologies.



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Amity Water System Improvements Project

Presenter: Bryan Phinney and Jesse Fields Title: Senior Project Manager and Project Engineer

Employer: Keller Associates Address: 245 Commercial St SE Suite 210

City: Salem State: OR Zip: 97301 Phone: 503 999 1434 (cell)

Summary of Lesson content: A review of the needs, problems, and solutions associated with Amity's raw water intake, treatment plant improvements (pretreatment, new backwash ponds, finish water tank and pumps, chemical storage, and electrical), and storage reservoir circulation improvements.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Surface water intake, treatment, and storage for a small municipality.


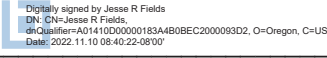
Education (High School, Upgrades, Colleges and Degrees): \_\_\_\_\_  
See resumes

Professional Registration/Certification: \_\_\_\_\_  
See resumes

Related papers/instruction you have presented:  
Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_  
Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities:  
AWWA members (Both Bryan and Jesse) Date: Current  
Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor:   Date: \_\_\_\_\_

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## Jesse Fields, PE | Water Engineer

**Role:** Project Engineer



Jesse Fields is a project engineer with Keller in our Salem, Oregon office. Jesse's experience includes municipal projects in the areas of project management, water, wastewater, and civil site engineering. Jesse enjoys working closely with public works staff to engineer quality solutions in a cost-effective manner. He has been involved in many project phases, from feasibility and planning to design, bidding, and construction; and is also experienced in alternative project delivery methods such as CM/GC and Design-Build.

Jesse's experience outside of Keller has been in process and facilities engineering. During his time at WaterTectonics and Fluids Manufacturing, he focused on process design of unit operations and facilities design for a wide range of applications, from mobile turnkey field units for construction stormwater treatment to fixed processing plant unit operations, facilities, and integration.

Currently, Jesse is serving as lead project engineer for the construction administration of TVWD's Farmington Fluoridation Facility project. Jesse also provides ongoing city engineering services for the City of Willamina, OR, and is a lead project engineer for an Oregon Military Department project encompassing holistic site improvements and equipment washing facilities. Recent project experience includes:

- ▶ **Beaverton, OR – Farmington Fluoridation Facility**
  - Lead project engineer on a facility project that had a design flow of 17 MGD
  - Facility design included civil site, stormwater, yard piping, mechanical piping, a new concrete masonry unit (CMU) structure, fluoridation process equipment, and a pressure reducing and flow control valve
- ▶ **Beaverton, OR – TVWD Grabhorn Reservoir**
  - Project engineer on 5 MG water reservoir replacement
  - Assisted with schedule development and update; completed stormwater conveyance, treatment, and detention design and drainage report preparation meeting Clean Water Services requirements; provided design support, including civil site design, reservoir overflow conveyance, and dissipation
- ▶ **Wilsonville, OR – Elligsen Well Rehabilitation**
  - Lead project engineer on evaluation of existing equipment, mechanical piping, pressure relief valve sizing, chlorine injection, instrumentation and controls, new electrical, and roof replacement
- ▶ **Sheridan, OR – Main Lift Station**
  - Provided design support for 6,000 gallons per minute (gpm) lift station, including a triplex submersible pump system with variable-frequency drive (VFD) controls, wet well rehab and retrofit, yard piping and vault design, and civil and electrical site design

### CREDENTIALS

#### Education

Bachelor of Science  
Environmental Engineering  
Oregon State University

#### Years of Experience

6

#### Professional Registrations

Oregon: 91548PE

#### Work Experience

2019-Present

**Keller Associates, Inc.**

2018

**Fluids  
Manufacturing, Inc.**

2016-2018

**Keller Associates, Inc.**

2014-2015

**Water Tectonics, Inc.**



## Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Source Water Protection – Evaluating Risks and Building Water System Resiliency using Natural Infras

Presenter: Julie Harvey Title: Drinking Water Protection Program Coordinator

Employer: Oregon DEQ Address: 700 NE Multnomah, Suite 600

City: Portland State: OR Zip: 97232 Phone: 503-229-5664

Summary of Lesson content: \_\_\_\_\_

(see attached for full description) In this session, we will share tools to inform community-led discussions on groundwater

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: (see attached for full description) 23 years in Oregon's Drinki  
Oregon Drinking Water Protection Program Coordinator for the past 4 years. 10 years of environmental consulting.

Education (High School, Upgrades, Colleges and Degrees): BA from Whitman College with a major in Geology and Mathe

Professional Registration/Certification: Professional Registered Geologist in Oregon since 1998 (License #G1856)

Related papers/instruction you have presented:

Title: see attached Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities:

\_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: Julie Harvey Digitally signed by Julie Harvey  
Date: 2022.11.20 12:37:19 -08'00' Date: \_\_\_\_\_

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Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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## Abstract for 2023 AWWA/PNCWA Cascade to Coast Short School

### **Source Water Protection – Evaluating Risks and Building Water System Resiliency using Natural Infrastructure**

Julie Harvey, Oregon DEQ

#### **Abstract:**

Your community's drinking water source area is the first line of a multi-barrier defense for economically keeping your drinking water clean, reliable, and safe. Public water system officials and staff can rarely develop and implement strategic plans for pollutant reduction without detailed information on their watershed, assistance from partner organizations, and links to funding sources. In this session, we will share tools to inform community-led discussions on groundwater and surface water protection and restoration; examples of partnerships that can be transferred to other areas; and sources of funding for watersheds and groundwater source areas. Highlights will include an overview of Oregon's Updated Source Water Assessments that provide the base data; information on how to identify and prioritize various risks within your watershed such as harmful algal blooms, land management, and emerging contaminants; how to identify partners for local collaboration; and details on funding resources available for source water protection. Through source water protection, water systems can also enhance community involvement and support and leverage many different resources to lower long-term treatment costs, build resilience, and lower the risk to public health.

#### **Short Bio:**

Julie Harvey is a registered geologist with over 30 years of experience in environmental assessment and protection. She is currently the Oregon Department of Environmental Quality Drinking Water Protection Program Coordinator where she focuses on assisting public water system officials, local government officials, State/Federal agencies, and other interested partners develop local strategies for protecting their drinking water sources. She has been with DEQ 23 years. Prior to joining the drinking water team, she spent 10 years completing environmental assessments and remedial actions at industrial and commercial sites for an environmental engineering and consulting firm. Julie is also a Registered Geologist in Oregon.

#### **Primary Knowledge/Skills/Abilities related to presentation:**

Julie Harvey has been part of Oregon's Drinking Water Protection team for over 20 years and has been the coordinator for the past 4 years. In this role she is lead worker and agency principal representative for all aspects of DEQ's role in the drinking water protection program. She maintains extensive knowledge of procedures, principles, and regulations governing drinking water protection and water quality improvement and coordinates drinking water source protection activities with local governments as well as other state and federal agencies. She develops cross-program strategies to evaluate emerging contaminants and other risks to drinking water sources and is the subject matter expert assigned to multi-agency, multi-jurisdiction state lead task force addressing potable water needs. She has assisted multiple public water systems as they negotiate with private property owners, or local, Federal, or tribal government planners to modify their plans to minimize adverse impact on drinking water sources and natural resources. As program coordinator, Julie directs the technical work of 5 other staff at DEQ completing complex natural resource projects and technical assistance. Prior to joining DEQ, Julie spent



10 years completing environmental assessments and remedial actions at industrial and commercial sites for an environmental engineering and consulting firm. Julie also maintains professional Registered Geologist license in Oregon.

**Education (High School, Upgrades, Colleges and Degrees** BA from Whitman College with a major in Geology and Mathematics.

**Professional Registration/Certification:** Professional Registered Geologist in Oregon since 1998 (License #G1856)

**Related papers/instruction you have presented:**

<b>Title</b>	<b>Date</b>	<b>Event</b>
Source Water Protection Planning Resources	November 1 and 3, 2022	Oregon Land Conservation Workshops, Newport and North Bend
Communicating about PFAS in Drinking Water	October 4, 2022	ATSDR Regional Partner Meeting:
Identifying Susceptible Sources for HABs in Oregon	October 7, 2021	EPA Region 8, 9, 10 Area Wide Optimization Program Meeting
Oregon's State Partnerships with NRCS - NWQI SWP Projects	June 10, 2021	EPA National Source Water Collaborative Webinar
Source Water Protection Tools and Technical Assistance for Small Water Systems	May 26, 2021	Training seminar for Oregon Health Authority and County Drinking Water Regulators
Partnerships and Funding Opportunities with Drinking Water Providers	May 13, 2021	Oregon CONNECT Conference
Funding Opportunities with Drinking Water Providers	April 28, 2021	Protecting Drinking Water Sources from Cyano-HAB Impacts in the Willamette Basin
Conservation Management and Land Ownership in Drinking Water Source Areas	February 24, 2021	Oregon Coalition of Land Trusts Webinar
Funding Opportunities with Drinking Water Providers	January 13, 2021	Rogue Basin Wildfires and Drinking Water Workshop



# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: WWSP, Raw Water Facility, Geotechnical & Seismic Improvements

Presenter: Jason Bock, PE Title: Principal

Employer: GRI Address: 16520 SW Upper Boones Ferry Road, Suite 100

City: Tigard State: OR Zip: 97224 Phone: 503-641-3478

### Summary of Lesson content:

The Willamette Water Supply Program is a consortium of local agencies in the Tualatin Valley that aim to develop a new resilient water supply for the region. This work involves new pipelines, reservoirs, water treatment plants, and seismic retrofits/expansions to existing raw water facilities. This presentation will focus on the existing Raw Water Facility and present design efforts to retrofit and expand the facilities at the crest of the Willamette River near Wilsonville, Oregon. The presentation will focus on how the design incorporated the program's unique level of service goals into a site-specific basis of design that met the intent of ASCE design guidelines for both retrofit and new structures, including a 56-foot diameter embedded caisson.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Jason brings 19 years of experience with all phases of investigation, design, reporting, construction specifications, and contract administration for a variety of projects. Jason's core focus is on seismic engineering and seismic resiliency. Jason is actively involved with Earthquake Engineering Research Institute and ASCE 7-22 subcommittees, he is shaping the profession's understanding of the interaction of seismic forces on soil and structures and brings a deep understanding of complex methodologies and equipment.

Primary Knowledge/Skills/Abilities related to presentation:

Education (High School, Upgrades, Colleges and Degrees): BS, Civil Engineering, Portland State University; and MS, Civil Engineering (Geotechnical Specialty), Portland State University

Professional Registration/Certification: Professional Engineer (#85582)

Related papers/instruction you have presented:

Title: Earthquake Engineering Research In Date: 2/11/22 Event: ASCE Lifelines Conference


Title: Ground Motion Directionality for Large Date: 3/16/20 Event: EERI 2020 National Earthquake Conference a

Professional Organizations/Activities:

ASCE-7 Seismic Ground Motions Committee (2017), Earthquake Engineering Rese Date: \_\_\_\_\_

ASCE Standard - Foundations for Buildings and Other Structures Committee (2022) Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: Jason Bock  Date: 11-7-22

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Basics of Ozone Disinfection in Drinking Water Treatment

Presenter: Spencer Adams Title: Water Project Manager

Employer: Jacobs Address: 1100 NE Circle Blvd, Suite 300

City: Corvallis State: OR Zip: 97370 Phone: 214-335-7810

Summary of Lesson content: "Back to the Basics" style presentation on ozone disinfection including biological oxidation and basic disinfection chemistry, and covering the major components of typical ozone generation systems found at drinking water plants

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Licensed as a drinking water treatment operator at a plant using ozone disinfection, 11 years in water sector consulting and at a public utility (Gwinnett County Water, in Georgia)

Education (High School, Upgrades, Colleges and Degrees): Bachelor of Science in Civil Engineering, Georgia Tech

Professional Registration/Certification: Professional Engineer (Oregon, Washington, Georgia, Texas, Nevada) Water Operator Class 3 (Georgia); Certified Construction Contracts Administrator; Designated Design-Build Professional

Related papers/instruction you have presented:

Title: <same presentation as above> Date: July 2019 Event: Internal presentation, Gwinnett County Water

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: AWWA, Capital Project Delivery Committee Chair Date: 2022-Present

AWWA, Georgia Section, Distribution System Committee Chair Date: 2019-2021

Course sponsor: \_\_\_\_\_

Signature of Instructor: Spencer D Adams Date: 11/28/2022

Digitally signed by Spencer D Adams  
DN: cn=Spencer D Adams, o=Jacobs Engineering Group Inc, L=Englewood,  
st=Colorado, c=US  
Reason: I am the author of this document  
Date: 2022.11.28 22:05:14 -0800

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# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Planning a Full-Scale Plant Hydraulic Test at Maximum Instantaneous Capacity

Presenter: Spencer Adams Title: Water Project Manager

Employer: Jacobs Address: 1100 NE Circle Blvd, Suite 300

City: Corvallis State: OR Zip: 97370 Phone: 214-335-7810

Summary of Lesson content: Case study of planning a full-scale hydraulic test of a 150 MGD water filtration plant to validate a computer model produced for a water system master plan. Discuss how to plan the test, mitigate risk, conduct a Go/No-Go review, collect testing data, and gain the confidence of operations a maximum capacity.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Employed by the water utility and led the planning effort for the case study project, and licensed as a drinking water operator with experience at the same plant.

Education (High School, Upgrades, Colleges and Degrees): Bachelor of Science in Civil Engineering, Georgia Tech

Professional Registration/Certification: Professional Engineer (Oregon, Washington, Georgia, Texas, Nevada)

Water Operator Class 3 (Georgia); Certified Construction Contracts Administrator; Designated Design-Build Professional

Related papers/instruction you have presented:

Title: <same presentation as above> Date: April 2022 Event: AWWA Pacific Northwest Section Conference

Title: <same presentation as above> Date: July 2020 Event: AWWA Georgia Section Conference

Professional Organizations/Activities:

AWWA, Capital Project Delivery Committee Chair Date: 2022-Present

AWWA, Georgia Section, Distribution System Committee Chair Date: 2019-2021

Course sponsor: \_\_\_\_\_

Signature of Instructor: Spencer D Adams Date: 11/28/2022

Digitally signed by Spencer D Adams  
DN: cn=Spencer D Adams, o=Jacobs Engineering Group Inc, L=Englewood,  
st=Colorado, c=US  
Reason: I am the author of this document  
Date: 2022.11.28 22:01:26 -0800

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# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Steigerwald Reconnection Project

Presenter: Chris Collins Title: Restoration Program Lead

Employer: Lower Columbia Estuary Partnership Address: 400 NE 11th Ave

City: Portland State: OR Zip: 97206 Phone: 971-645-2105

Summary of Lesson content: The Steigerwald Reconnection Project is the largest restoration project ever implemented in the lower Columbia River. The presentation will provide an overview of the project, including site history, project goals, design approach, benefits, permitting, construction, and carbon emissions and sequestration.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Project management, fisheries biology, construction management, aquatic/restoration ecology

Education (High School, Upgrades, Colleges and Degrees): B.S. Biology, M.S. Water Resources

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: Presentations on Steigerwald Date: Multiple Event: Multiple conferences

Title: Presentations on cold water refuge Date: Multiple Event: Multiple conferences

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: Chris M. Collins Digitally signed by Chris M. Collins Date: 2022.11.11 14:41:01 -08'00' Date: \_\_\_\_\_

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Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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## Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Preparing for the Big One: Integrating Earthquake Early Warning Technology into Your Infrastructure

Presenter: Kelly Missett Title: ShakeAlert Technical Engagement Regional Coordinator

Employer: Oregon Hazards Lab Address: 100 Cascade Hall, 1272 University of Oregon

City: Eugene State: OR Zip: 97403 Phone: 541-346-4654

Summary of Lesson content: Lesson will explain how utilities can use ShakeAlert-powered technology to protect workers and infrastructure. It will describe how utilities are currently using ShakeAlert and identify steps to implementation, funding sources, and cybersecurity efforts. Attendees will be encouraged to participate in discussion about how ShakeAlert could

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Earthquake preparedness and resilience, environmental policy, partnerships, natural hazard monitoring and detection, seismology

Education (High School, Upgrades, Colleges and Degrees): Amherst College, B.A. Environmental Studies  
Western Albemarle High School

Professional Registration/Certification: \_\_\_\_\_

Related papers/instruction you have presented:

Title: Using Earthquake Early Warning to E Date: 10/26/2022 Event: ShakeAlert Critical Lifeline Resilience Workshp

Title: ShakeAlert System Overview Date: 10/13/2022 Event: EPA Earthquake Resilience Workshop for Wa

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: 2023 AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: \_\_\_\_\_ Date: 10/19/2022

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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## **“Preparing for the Big One: Integrating Earthquake Early Warning Technology into Your Infrastructure”**

### **2023 AWWA/PNCWA Cascade to Coast Short School**

#### **Lesson Summary:**

The ShakeAlert earthquake early warning system can detect earthquakes so quickly that alerts can reach critical infrastructure operators before they experience shaking. ShakeAlert can also trigger automated actions that reduce the impact of earthquakes to critical infrastructure and speed communities' return to normal water and wastewater service. Examples of ShakeAlert-powered automated actions include triggering a PA announcement, closing a valve, or slowing down pumps and quickly rotating equipment.

This lesson would explain how water and wastewater utilities can use ShakeAlert-powered technology to protect workers and critical infrastructure during an earthquake. This first part of the lesson will be a presentation, which will describe how utilities are currently using earthquake early warning technology as well as identify the steps to implementation, available funding sources, and cybersecurity efforts. The second part of the lesson will be facilitated discussion. Participants will be encouraged to brainstorm ShakeAlert-powered automated actions that could reduce their organizations' unique vulnerabilities, potential obstacles to implementation, and pathways to overcoming them. The presentation will be followed by a Q&A period.

## **Kelly Missett**

ShakeAlert Technical Engagement Regional Coordinator

Oregon Hazards Lab at the University of Oregon

(541) 346-4654 | [kmissett@uoregon.edu](mailto:kmissett@uoregon.edu)

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### **Professional Experience**

#### **ShakeAlert Technical Engagement Regional Coordinator**

June 2022 – Present

University of Oregon | Oregon Hazards Lab

- Recruits and supports community lifelines in using earthquake early warning technology to protect people and critical infrastructure.
- Presents about earthquake science and preparedness at industry conferences and events.
- Creates case studies, start-up guides, and other informational resources about ShakeAlert.
- Maintains the Oregon Hazards Lab website and contributes to ShakeAlert and Pacific Northwest Seismic Network social media channels.

#### **Visitor Information Specialist**

August 2020 – June 2022

U.S. Forest Service | Umpqua National Forest

- Developed and maintained the Umpqua National Forest website and social media platforms.
- Assisted Forest Public Affairs Officer in writing and sharing news releases.
- Represented the agency at public meetings and community events.
- Supported Forest administrative needs, including managing datasets and records as well as serving as the Cottage Grove Ranger District's purchasing coordinator.
- Sold Forest permits and passes and answered visitor questions while staffing the Cottage Grove Ranger Station.

#### **Partnership Coordinator (120-Day Temporary Promotion)**

Nov 2021 – Feb 2022

U.S. Forest Service | National Partnership Office

- Wrote a toolkit of resources for new Partnership Coordinators, including creating two dozen one-pagers and infographics about partnership agreements and program management.
- Provided communications support for the office, including publishing articles on the agency website.
- Collaborated with staff specialists to develop and manage datasets for partnership agreements.

#### **Interpretive Park Ranger**

May 2019 - Apr 2020

National Park Service | Grand Canyon National Park and Effigy Mounds National Monument

- Developed and presented ranger programs on diverse natural resource topics to large audiences.
- Communicated complex technical and scientific information in understandable and engaging terms.
- Informed the public about park programs and policies by updating park websites, creating social media posts, and designing educational brochures.
- Assisted supervisor in organizing a lecture series on indigenous stories featuring artists and leaders from park tribal partners.



## Research Assistant

Jan 2018 - May 2019

Department of Environmental Studies | Amherst College | Amherst, MA

- Wrote an annotated bibliography about environmentally just tribal consultation on public lands.
  - Compiled a dataset of Congressional votes on environmental laws to analyze the relationship between partisanship and environmental policy.
  - Conducted archival research on government documents to understand the development of water and air pollution legislation in the 1950s.
- 

## Education

**Bachelor of Arts in Environmental Studies**, Amherst College

- Recipient of the 2019 Jan E. Dizard Prize for Excellence in Environmental Studies
  - Member of Phi Beta Kappa National Honor Society
  - Coursework in geology, hydrogeology, volcanology, environmental law, and environmental policy
- 

## Related Presentations

**Critical Lifeline Resilience Workshop Series**, Using Earthquake Early Warning to Enhance Water and Sewer System Resilience, October 2022

**EPA Earthquake Resilience Workshop for Water and Wastewater Utilities**, ShakeAlert System Overview, October 2022

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## Professional Writing Samples

[ShakeAlert Start-Up Guide for Prospective Technical Partners](#)

[ShakeAlert Licensing Pathway: Step-By-Step Guide](#)

[ShakeAlert Earthquake Early Warning Case Studies](#)

[ShakeAlert Tests, Drills, and Exercises Toolkit](#)



### Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Genon Island water Treatment Plant Tour

Presenter: Cody Marrs Title: Supervisor

Employer: City of Salem Address: 2700 E. Santiam

City: Stayton State: OR Zip: 97383 Phone: 503-932-3892

Summary of Lesson content: 20 min. overview of the treatment plant. Tour Intake, Filters, Ozone, Pump station, Chemical Building and Lab.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 15 years experience at the treatment facility.

Education (High School, Upgrades, Colleges and Degrees): AAS water/wastewater Treatment Linn Benton Community College

Professional Registration/Certification: Level 4 water Treatment

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_  
Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_  
\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: [Signature] Date: 3-16-22

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Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: City of Jefferson Water Treatment facility tour

Presenter: Alex Kemmer Title: Utility Operator

Employer: City Of Jefferson Address: 150 North 2nd Street

City: Jefferson State: OR Zip: 97352 Phone: 541-971-2553

Summary of Lesson content: Review City of Jefferson Water Treatment system processes and equipment.

This facility is a Pall Membrane treatment plant with UV and chlorine for disinfection, ACH for coagulation

Soda Ash for pH control

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: \_\_\_\_\_

Water and wastewater system operations and maintenance for 3 years

Education (High School, Upgrades, Colleges and Degrees): \_\_\_\_\_

High school and some college

Professional Registration/Certification: \_\_\_\_\_

Water Treatment Grade 2, Distribution Grade 2

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: Alex Kemmer Digitally signed by Alex Kemmer Date: 2022.12.19 13:39:20 -08'00' Date: 12/08/2022

**DO NOT WRITE BELOW THIS LINE**  
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Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Water Operators Roundtable

Presenter: Mark McGuire/Lisa Erkert Title: Water Treatment Operator/Environmental Technician

Employer: EWEB Address: 3957 Hayden Bridge Rd

City: Springfield State: OR Zip: 97477 Phone: 541-685-7124

Summary of Lesson content: Interactive course to have water operators discuss technologies, equipment, processes that contributed to plant improvements. Also discuss common issues at water treatment plants to see how others address the issues and make improvements.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Mark is level 4 treatment operator at Hayden Bridge Treatment Plant. Lisa 3 years operator to small public water systems and 3.5 years in source protection

Education (High School, Upgrades, Colleges and Degrees): Lisa Bachelor of Science in Environmental Science

Professional Registration/Certification: Mark level 4 treatment operator, Lisa level 1 treatment operator

Related papers/instruction you have presented:

Title: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities:

\_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Course sponsor: \_\_\_\_\_

Signature of Instructor: Lisa Erkert Digitally signed by Lisa Erkert Date: 2023.01.03 16:19:20 -08'00' Date: 1/3/22

**DO NOT WRITE BELOW THIS LINE**

Date Evaluated: \_\_\_\_\_ By: \_\_\_\_\_ Approved: Yes \_\_\_\_\_ No \_\_\_\_\_

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# Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: City of Aumsville WWTP tour

Presenter: Matthew Etzel Title: Assistant Public Works Director

Employer: City Of Aumsville Address: 595 Main St.

City: Aumsville State: OR Zip: 97325 Phone: 503-749-1185

Summary of Lesson content: Give tour and describe treatment flow and process of a lagoon and reuse site.

Professional Background: ( Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: I have been operating this treatment plant for the last 8 years  
Prior to Aumsville I worked at a level 4 treatment facility in Silverton.

Education (High School, Upgrades, Colleges and Degrees): High School grad Stayton High School 2005.

Professional Registration/Certification: Level 3 WWT, Level 2 WC, Level 1 WT, Leave 2 WD, Backflow inspector/speciali

Related papers/instruction you have presented:

Title: N/A Date: \_\_\_\_\_ Event: \_\_\_\_\_

Title: N/A Date: \_\_\_\_\_ Event: \_\_\_\_\_

Professional Organizations/Activities: President of the West Central Section PNCWA Date: 1/2021

Board of Directors West Central Section PNCWA Date: 11/2015

Course sponsor: AWWA/PNCWA Cascade to Coast School

Signature of Instructor: Matthew Etzel Digitally signed by Matthew Etzel Date: 2022.12.27 13:54:43 -08'00' Date: \_\_\_\_\_

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