



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: First Line of Defense: The Industrial Pretreatment Program

Presenter: Jolene Willis-Lujan Title: Environmental Services Manager

Employer: City of Albany Address: 310 Waverly Dr NE

City: Albany State: OR Zip: 97321 Phone: 541-220-7500

Summary of Lesson content: Introduction to the Industrial Pretreatment Program and how it works to keep pollutants out of the wastewater treatment plant.

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: Manage the City of Albany Industrial Pretreatment Program which has 25 active permits. ACWA Pretreatment Committee Co-Chair.

Education (High School, Upgrades, Colleges and Degrees): M.S in Environmental Science from Brooklyn College, Bachelor's degree in Environmental Science from The University of Tampa.

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities: ACWA Member Date: July 2020

ACWA Pretreatment Committee Co-Chair Date: July 2022

Course sponsor: AWWA/PNCWA Cascade to Coast short school

Signature of Instructor: Jolene Willis-Lujan Digitally signed by Jolene Willis-Lujan
Date: 2024.01.30 14:22:04 -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
Phone: 503-698-6486



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

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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: Stormwater Storage Solutions in Oregon

Presenter: Joe Cotton Title: Stormwater Specialist - Pacific Northwest

Employer: Ferguson Waterworks Address: 9129 N. Tyndall Ave.

City: Portland State: OR Zip: 97217 Phone: 503-528-6190

Summary of Lesson content: Stormwater Detention/Retention product solutions from local manufacturers, including Advanced Drainage Systems, Contech and Ferguson Waterworks.

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: 16 years in the stormwater business focused on agency and r

Education (High School, Upgrades, Colleges and Degrees): Bachelor of Arts & Sciences - Western Washington University

Professional Registration/Certification: N/A

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: J. Cotton Date: 1/30/24

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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

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Presenter: Patrick Miller

Employer: Cimco-GC Systems

2310 Inter Ave

Puyallup, WA 98372

Position: Technical Sales & Engineering Support

Phone: 253-263-3099

Primary Knowledge/Skills/Abilities: Training in valve dynamics and hydraulics. Cal-Valve service experience in troubleshooting and rebuilding hydraulic control valves.

Education: High school diploma

Related papers/instruction you have presented:

If Check Valves Were Cars: Style, Selection, Performance on 2/6/24 at ERWOW Spring Conference

Locating 101: The Science behind Using Tracer Wire to Locate Pipelines on 2/7/24 at ERWOW Spring Conference

Presentation Title:

If Check Valves Were Cars: Style, Selection, Performance

Authors Job Title:

Regional Manager; Engineering Support

Abstract:

Check valves perform a basic function: They open during forward flow and close to prevent reverse flow. Cars perform a basic function: They get you from "A" to "B". Check valves, like cars, come in a variety of styles and perform differently in different situations. Some are certainly "sportier" than others! Your check valve choice is critical for efficient system performance and to prevent accidents/slam. In this course we discuss available options to get you the best car, er, check valve for your applications.

CEU Relevancy Statement:

A check valve's function seems simple: It opens during forward flow and closes quickly (or slowly) in instances of pressure reversal or flow reversal to prevent reverse flow. Like cars, style, performance, and therefore selection of check valves is critical to prevent system damage and subsequent failure due to slamming. Excessive head loss through check valves will also reduce water/wastewater districts' efficiency. Check valves continue to develop to improve system performance and prevent damage.



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: SEWER AND STORM SYSTEM EVALUATION AND ASSESMENT

Presenter: MICHAEL MCCOY Title: PRESIDENT

Employer: CMORE PIPE SERVICES Address: 9350 RICKREALL RD

City: RICKREALL State: OR Zip: 97371 Phone: 503-871-6503

Summary of Lesson content: TIPS AND TRICKS TO GAIN INSIGHT INTO THE OVERALL QUALITY OF YOUR SEWER AND STORM STRUCTURES: PIPELINES, MANHOLES, LATERALS AND LIFT STATIONS AND WHAT TO DO NEXT...

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 AS OWNER OF CMORE PIPE SERVICES. SEWER AND STORM SYSTEM ASSESMENT AND REHABILITATION OF UNDERGROUND STRUCTURES.

Education (High School, Upgrades, Colleges and Degrees): BS BUSINESS FROM OREGON STATE UNIVERSITY.

Professional Registration/Certification: NASSCO CERTIFIED, AVANTI CHEMICAL GROUTING CERTIFICATION.

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

NASSCO Date: _____

APWA Date: _____

Course sponsor: MATTHEW ETZEL, AUMSVILLE PUBLIC WORKS

Signature of Instructor: *Michael McCoy* Date: 2/21/2024

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Alternative to Gravity Sewer - Pressure Sewer

Presenter: Tim owens Title: _____

Employer: Correct Equipment Address: 300 S Redwood Street #135

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

Summary of Lesson content: The Industry Misunderstanding of Low-Pressure Sewer: Flow Study and Analysis of Gravity vs Low Pressure Collection 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: _____

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

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: Smart Water Meters and Acoustical L Date: 2021-2023 Event: ERWOW, OAWU, AWWA/PNCWA

Title: Cellular Based Telemetry Date: 2015-2023 Event: ERWOW, OAWU, AWWA/PNCWA

Professional Organizations/Activities: _____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: Tim Owens Digitally signed by Tim Owens Date: 2023.10.30 16:29:59 -07'00' Date: 10/30/2023

DO NOT WRITE BELOW THIS LINE

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Certification Basics and Your DEQ Online at the Cascade to Coast Short School

Presenter: Tiffany Yelton Bram Title: Manager

Employer: Oregon Dept of Environmental Quality Address: 700 NE Multnomah St., Suite 600, Portland OR 97218

City: Portland State: OR Zip: 97218 Phone: 503 229 5219 or 503 975 0046

Summary of Lesson content: Certification Basics: This one hour presentation provides an overview of the process for getting certified as a Wastewater Operator in Oregon. Your DEQ Online: covers the process of setting up an account in this system so applications and renewals can be submitted and paid for 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've managed the program and staff for the past 10 years

Education (High School, Upgrades, Colleges and Degrees): Bachelors of Arts in Environmental Policy from The Evergreen State College and 33 years in state and local government environmental programs

Professional Registration/Certification: Certificates in Business Administration and Project Management

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: _____ Date: _____

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Presenter: Tiffany Yelton Bram Title: Manager

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Primary Knowledge/Skills/Abilities related to presentation: I've managed the program and staff for the past 10 years

Education (High School, Upgrades, Colleges and Degrees): Bachelors of Arts in Environmental Policy from The Evergreen State College and 33 years in state and local government environmental programs

Professional Registration/Certification: Certificates in Business Administration and Project Management

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities: _____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: _____ Date: _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Trenchless Technologies

Presenter: Scott Bevesn Title: Territory Sales Manager

Employer: Ditch Witch West Address: 7909 N. Upland Dr.

City: Portland State: OR Zip: 97203 Phone: 971-678-3464

Summary of Lesson content: Will touch on trenchless utility construction methods currently in use, including horizontal directional drilling, pipe bursting, cast in place pipe (CIPP), piercing tools, auger boring

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've been in the trenchless utility construction industry for 31 years. I currently work for one of the largest trenchless equipment companies in the US.

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

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: Pipe Bursting Date: 12/2022 Event: OAWU End of Year Operators Conference

Title: Pipe Bursting & Piercing Tools Date: 9/13/23 Event: OAWU Florence Conference

Professional Organizations/Activities: Board Member with Oregon Landscape Contractor Assoscaiaton Date: 2018 to present

Date: _____

Course sponsor: _____

Signature of Instructor: *Scott Bevesn* Date: 02-01-2024

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: Pipe Bursting and Piercing Tools For Wastewater and Water Applications

Presenter: Scott Bevesn Title: Territory Sales Manager

Employer: Ditch Witch West Address: 7909 N Upland Dr.

City: Portland State: OR Zip: 97203 Phone: 971-678-3464

Summary of Lesson content: This presentation covers the different types fo pipe bursting methods and equipment for each I also cover minimum requirements needed for both pipe bursting and piercing tools

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've been int he trenchless utility construction industry for 31 years. I currently work for one of the largest trenchless equipment dealers in the US

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

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: Pipe Bursting Date: 12/2022 Event: OAWU End of Year Operators Conference

Title: Pipe Bursting & Piercing Tools Date: 09-13-23 Event: OAWU Florence Conference

Professional Organizations/Activities: Board Member with Oregon Landscape Contractors Association Date: 2018 to Present

Date: _____

Course sponsor: _____

Signature of Instructor: *Scott Bevesn* Date: 02/05/2024

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: Impacts to the project and General Contractor when sole-sourcing suppliers for a collection system pro

Presenter: Trevor Spires Title: Project Manager

Employer: HP Civil Inc. Address: 8795 Aumsville Hwy SE

City: Salem State: OR Zip: 97317 Phone: 503-769-2466

Summary of Lesson content: Learn how sole-sourcing of material suppliers for a collection system project impacts the contractual relationship between the contractor the the selected vendor. Who is left holding the bag when delivery schedules are not meet and/or the scope is incomplete?

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: 37 years of construction experience delivering public works projects in the water and wastewater industry.

Education (High School, Upgrades, Colleges and Degrees): Bachelor of Science Oregon State University Construction Engineering Management

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

Association of General Contracts, Oregon Columbia Chapter _____ Date: _____

Course sponsor: HP Civil Inc.

Signature of Instructor: Trevor Spires Digitally signed by Trevor Spires
DN: C=US, E=trevors@hpcivil.com, O="HP Civil, Inc.",
CN=Trevor Spires
Date: 2024.02.06 08:35:20-08'00' Date: 2-02-2024

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: DYI Smoke Testing

Presenter: Jonathan Gasik, MS, PE Title: Senior Environmental Engineer

Employer: Oregon DEQ Address: 221 Stewart Ave

City: Medford State: OR Zip: 97501 Phone: 541-776-6242

Summary of Lesson content: Instruction on how a small city can smoke test a sewage collection system and prepare a written report without a hiring a consultant.

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: _____ Date: _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Effective Utility Management

Presenter: Jonathan Gasik, MS, PE

Title: Senior Environmental Engineer

Employer: Oregon DEQ

Address: 221 Stewart Ave

City: Medford

State: OR

Zip: 97501

Phone: 541-776-6242

Summary of Lesson content: Instruction on the basics of Effective Utility Management based on EPA's Effective Utility Management primer.

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:

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_____ Date: _____

Course sponsor: _____

Signature of Instructor: _____ Date: _____

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Jonathan Gasik, MS, PE

Jon has been a senior environmental engineer with the Oregon Department of Environmental Quality since 1994. Jon has a bachelor's degree in biochemistry from the University of California at Los Angeles and a master's degree in Civil Engineering from the University of Southern California. Jon is an Oregon registered professional engineer and has a certificate in project management from Portland State University. Prior to his current position, Jon has been a hazardous waste inspector, a pollution liability specialist, and a laboratory supervisor.

Jon is a principle author of the following DEQ documents:

- Preparing Hauled-Waste Acceptance Plans, October 2015 (Oregon ACWA and Oregon DEQ)
- Natural Treatment Systems – A Water Quality Match for Oregon's Cities and Towns (A report on Natural Treatment Systems prepared jointly by Oregon DEQ and the Oregon ACWA, July, 2014)
- Guidelines for the Preparation of Wastewater Planning Documents (Oregon DEQ, 2013).
- Preparation of Operations and Maintenance Manuals for Domestic Wastewater Treatment Facilities (Oregon DEQ, 2012)
- Instructions for Completing Discharge Monitoring Reports (DMRs) (Oregon DEQ, 2012)
- Internal Management Directive for implementing Oregon's Recycled Water Use Rules (Oregon DEA, 2009). System design section.
- Oregon Standards for Design and Construction of Wastewater Pump Stations (Oregon DEQ, 2001)

Jon has presented the papers above at PNCWA conferences and short schools, and has also instructed courses on NPDES basics, laboratory QA, TMDLs, and other topics at various gatherings.

Professional Organizations:

- Oregon Registered Professional Engineer 17037
- Water Environment Federation
- Pacific Northwest Clean Water Association
- South Central Oregon Section of The Pacific Northwest Clean Water Association



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: CIPP CURED IN PLACE PIPE AND OTHER METHODS OF PIPE REHABILITATION
Presenter: KC SCHARF Title: PRESIDENT
Employer: WEST COAST CIPP SUPPLY Address: 4470 60TH AVE NE
City: SALEM State: OR Zip: 97305 Phone: 503-383-8412
Summary of Lesson content: CIPP CURED IN PLACE PIPE. THE COST-EFFICIENT METHOD OF PIPELINE REPAIR

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: 16 YEARS WORKING FOR MAJOR CORPORATIONS IN THE CIPP BUSINESS. HE HAS INSTALLED OVER 1,000,000 FEET OF CIPP RANGING IN SIZES FROM 3IN TO 120IN

Education (High School, Upgrades, Colleges and Degrees): 16 YEARS OF PRACTICAL, REAL WORLD EXPERIENCE IN PIPELINE REHABILITATION.

Professional Registration/Certification: NASSCO CERTIFIED, HAZMAT CERTIFICATION

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities: NASSCO Date: _____

Date: _____

Course sponsor: MATTHEW ETZEL, AUMSVILLE PULIC WORKS

Signature of Instructor:  Date: 2/21/2024

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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: 1/09/2024

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Max H. Hildebrand

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

Level IV Certification in Wastewater Treatment, State of California. Certificate # 44195

Professional Associations

Pacific Northwest Clean Water Association, 2001 to present

Water Environment Federation, 2004 to present

Mr. Hildebrand specializes in the Startup and Commissioning of water and wastewater treatment systems. He has over 34 years of experience including more than 23 years of hands-on operational experience at four Class IV Wastewater Treatment Facilities in Oregon. His recent startup and commissioning experience includes:

- Morenci Water Treatment Plant in Morenci, Arizona.
- Water Pollution Control Plant West County Wastewater District in Richmond California.

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 Writing Technical Documents that include O&M Manuals, SOPs, APES, Staffing Evaluations, Unit Process Operating Strategies, and Treatment Plant Audits.

In addition to Startup and Commissioning services, he has performed Condition Assessments, conducting Operability Reviews of complex drawings and 3D Models, provided troubleshooting of wastewater systems and optimizing facility processes.

Startup and Commissioning Services

- Performed startup and commissioning for West County Wastewater District, Wastewater Pollution Control Plant in Richmond California.
- 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 Management Commission, Eugene/ Springfield, Oregon.

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

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.

Electronic Operations and Maintenance Manuals

- Prepared an OMSSConnect Electronic Operations and Maintenance Manual (EOM) for the Lake Oswego/igard Water Program.
- Prepared an OMSSConnect 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.

Max H. Hildebrand

- 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

- Operating Strategies for Salem WTP including SOPs
- 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

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: 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: _____

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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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: 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

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Phone: 503-698-6486



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

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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

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

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

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



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Maintenance and Trouble Shooting Electric Motors
 Presenter: Jerrad Collis Title: President / Owner
 Employer: RPM Electric Motor Address: 1400 Tinker St. SE
 City: Albany State: OR Zip: 97322 Phone: 503-510-2764
 Summary of Lesson content: An overview of in field and in house motor troubleshooting and discussion of basic motor maintenance techniques.

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: Electric motor repair as employee, manager & owner with 20 yrs experience

Education (High School, Upgrades, Colleges and Degrees): Texline HS, Texline, TX 1998, University of Idaho, 2003, Agricultural Education

Professional Registration/Certification: EASA member, Vibration Analysis Level II certification, Thermography Certification, advanced controls Troubleshooting

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____
 Title: _____ Date: _____ Event: _____

Professional Organizations/Activities: _____ Date: _____
 _____ Date: _____

Course sponsor: _____

Signature of Instructor: J.C. Date: 1/31/2024

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 Phone: 503-698-6488



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Wastewater Sludge Pumping Solutions

Presenter: Rich Owens Title: President

Employer: Owens Pump & Equipment Address: 138 S Hazel Dell Way, Suite 112

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

Summary of Lesson content: Introduce operators and maintenance persons about the different technologies of sludge pumps available and why to use them for different applications. The pro's and con's of each technology.

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: 25+ years in the pump business working for distributors and manufactures.

Education (High School, Upgrades, Colleges and Degrees): 1992 Graduate, Western University

Professional Registration/Certification: Certified Level 2 Training Vogelsang Pumps, Barnes Pump Technical School. Ebara Technical Training School

Related papers/instruction you have presented:
Title: Collections Plugging Solutions Date: 7/2023 Event: ERWOW
Title: Water Booster Pump Improvements Date: 8/2023 Event: OAWU Seaside

Professional Organizations/Activities: _____ Date: _____
_____ Date: _____

Course sponsor: _____

Signature of Instructor:  Date: 2/2/24

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Canby, OR 97013-0577



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Hach Wims First Impressions and Initial Setup

Presenter: James Green Title: Wastewater Operator

Employer: City of Corvallis Address: 1304 NE 2nd st

City: Corvallis State: OR Zip: 97339 Phone: 5038811951

Summary of Lesson content: Every Plant Stores data whether it is pen/paper, microsoft excel, hach wims, custom built DB

This is our story of our transition to Hach Wims DB from a SQL DB, what we learned, what we would have done different,

What hach wims reports look like, how to build the reports, how to setup variables, how to create a location heirarchy.

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: Database development skills, data analysis, excel skills, software configuration, troubleshooting, Laboratory information system, Scada Data and historian, sql queries, w/ww data

Education (High School, Upgrades, Colleges and Degrees): HS Diploma, BA Graphic Design, AAS Water & Wastewater technology

Professional Registration/Certification: Grade IV WW Treatment

Related papers/instruction you have presented:

Title: Impacts of Hypochlorite Degradation Date: 2014 Event: PNCWA

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities: AWWA Committee Date: 2015-2017

Date: _____

Course sponsor: WCOS

Signature of Instructor: James Green Digitally signed by James Green Date: 2024.01.30 07:01:55 -08'00' Date: 1/30/2024

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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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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Flammable gas systems purging practices incorporating federal standards

Presenter: Spencer Goodro Title: Renewable Natural Gas Plant Lead Operator

Employer: City of Eugene Address: 410 River Ave

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

Summary of Lesson content: Purging flammable gas systems in and out of service using federal standards found in NFPA 56 and AGA Purging Principles and Practice.

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: Lead Operator RNG system, 3 years. Certified Wastewater T1

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

Professional Registration/Certification: Oregon Wastewater Treatment System Operation Grade 2

Related papers/instruction you have presented:

Title: MWMC Renewable Natural Gas Project Date: Feb 28, 2023 Event: AWWA/PNCWA Cascade to Coast Short School

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities: PNCWA WCOS Board Member Date: July 2023 - Present

Date: _____

Course sponsor: AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: Spencer Goodro Digitally signed by Spencer Goodro Date: 2024.01.30 12:45:05 -08'00' Date: 01/30/2024

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Mastering Municipal Master Planning - Capital Projects / Wastewater & Storm water Systems

Presenter: Mouhamad Zaher Title: Public Works Director

Employer: City of St. Helens Address: 265 Strand Street

City: St. Helens State: OR Zip: 97051 Phone: 503-366-8235

Summary of Lesson content: Master Planning is very critical part of any agency (City / State / Federal).

How to best plan and execute a successful Master Plan is a vital process to the health and prosperity of communities.

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: Civil Engineering / Project Management / Construction Manag
Capital Improvement Projects / Infrastructure Planning / Public Works Operation & Engineering Management.

Education (High School, Upgrades, Colleges and Degrees): Bachelor of Science Civil Engineering
Master of Science Engineering & Technology Management.

Professional Registration/Certification: CPWP-M (Certified Public Works Executive) / CESL (Erosion & Sediment Control
PMP (Project Management Professional). / FE (Fundamentals of Engineering Registered/License).

Related papers/instruction you have presented:

Title: Wastewater Master Planing Date: 03-2023 Event: APWA - American Public Works Association

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities: APWA - American Public Works Association Date: Active - Present

ASCE - American Society of Civil Engineering Date: Active - Present

Course sponsor: Mouhamad Zaher & Sharon Darroux

Signature of Instructor: *Mouhamad Zaher* Date: 12/11/2023

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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

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Oregon NPDES Individual Permits

Presenter: Jeffrey Navarro Title: Senior Water Quality Permit Program Analyst

Employer: State of Oregon - DEQ Address: 700 NE Multnomah st., Suite 600

City: Portland State: OR Zip: 97232 Phone: 503-229-5257

Summary of Lesson content: Overview of individual NPDES permit development, planning, and processes.

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 bio

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: _____

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Phone: 503-698-6486

SPEAKER

Name: Jeffrey Navarro

Employer: Oregon DEQ

Address: 700 NE Multnomah Street, Suite 600. Portland, OR 97232

Phone: 503-229-5257

Email: Jeffrey.Navarro@DEQ.Oregon.gov

SPEAKER CREDENTIALS (Short paragraph describing background, education, experience, etc.)

Jeff Navarro is a Senior Water Quality Permit Program Analyst who works with agency permit writers to issue consistent and defensible permits in the State of Oregon.

Jeff graduated from Western Oregon University in 2005 and earned an executive degree in LEAN Management from The Ohio State University in 2011. Before starting with Oregon DEQ in 2016, Jeff worked for 12 years as an environmental, health, and safety leader and a manager for a metals manufacturing facility. After a successful career helping the regulated community meet compliance and sustainability goals, Jeff now works for the State of Oregon on implementation of new and existing policies, processes, and continuous improvement for issuance of wastewater discharge permits.

Jeff enjoys spending time with his family hunting, fishing, and camping in the Pacific Northwest.



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Nutrient Water Recovery from Anaerobic Effluent through the Integration of Electrodialysis (ED) with Fc

Presenter: Xue Jin Title: Assistant Professor

Employer: Oregon State University Address: 105 SW 26th St

City: Corvallis State: OR Zip: 97331 Phone: 541 737 7968

Summary of Lesson content: With increasing water shortages, irrigation with reclaimed water is necessary to secure agricultural production in many regions. This study investigated the feasibility of a novel hybrid ED-FO process designed to recover nutrients and clean water from anaerobic digester effluent to produce food crops safely.

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): Ph.D., National University of Singapore

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

Vice President, AWWA Membrane Processes and Research Committee Date: 2023-present

Course sponsor: _____

Signature of Instructor: Xue Jin Digitally signed by Xue Jin Date: 2024.01.24 22:07:19 -08'00' Date: 1/24/24

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Laboratory Quality Analysis and Control

Presenter: Jonathan Gasik, MS, PE Title: Senior Environmental Engineer

Employer: Oregon DEQ Address: 221 Stewart Ave

City: Medford State: OR Zip: 97501 Phone: 541-776-6242

Summary of Lesson content: Instruction on the fundamentals of laboratory quality analysis and control.

Overview of DEQ's guidance and templates.

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: _____ Date: _____

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Phone: 503-698-6486

Jonathan Gasik, MS, PE

Jon has been a senior environmental engineer with the Oregon Department of Environmental Quality since 1994. Jon has a bachelor's degree in biochemistry from the University of California at Los Angeles and a master's degree in Civil Engineering from the University of Southern California. Jon is an Oregon registered professional engineer and has a certificate in project management from Portland State University. Prior to his current position, Jon has been a hazardous waste inspector, a pollution liability specialist, and a laboratory supervisor.

Jon is a principle author of the following DEQ documents:

- Preparing Hauled-Waste Acceptance Plans, October 2015 (Oregon ACWA and Oregon DEQ)
- Natural Treatment Systems – A Water Quality Match for Oregon's Cities and Towns (A report on Natural Treatment Systems prepared jointly by Oregon DEQ and the Oregon ACWA, July, 2014)
- Guidelines for the Preparation of Wastewater Planning Documents (Oregon DEQ, 2013).
- Preparation of Operations and Maintenance Manuals for Domestic Wastewater Treatment Facilities (Oregon DEQ, 2012)
- Instructions for Completing Discharge Monitoring Reports (DMRs) (Oregon DEQ, 2012)
- Internal Management Directive for implementing Oregon's Recycled Water Use Rules (Oregon DEA, 2009). System design section.
- Oregon Standards for Design and Construction of Wastewater Pump Stations (Oregon DEQ, 2001)

Jon has presented the papers above at PNCWA conferences and short schools, and has also instructed courses on NPDES basics, laboratory QA, TMDLs, and other topics at various gatherings.

Professional Organizations:

- Oregon Registered Professional Engineer 17037
- Water Environment Federation
- Pacific Northwest Clean Water Association
- South Central Oregon Section of The Pacific Northwest Clean Water Association



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Impacts to the project and General Contractor when sole-sourcing suppliers for a treatment facility project

Presenter: Trevor Spires Title: Project Manager

Employer: HP Civil Inc. Address: 8795 Aumsville Hwy SE

City: Salem State: OR Zip: 97317 Phone: 503-769-2466

Summary of Lesson content: Learn how sole-sourcing of material suppliers for a treatment facility project impacts the contractual relationship between the contractor the the selected vendor. Who is left holding the bag when delivery schedules are not meet and/or the scope is incomplete?

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: 37 years of construction experience delivering public works projects in the water and wastewater industry.

Education (High School, Upgrades, Colleges and Degrees): Bachelor of Science Oregon State University Construction Engineering Management

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities: _____ Date: _____

Association of General Contracts, Oregon Columbia Chapter _____ Date: _____

Course sponsor: HP Civil Inc.

Signature of Instructor: Trevor Spires Digitally signed by Trevor Spires
DN: C=US, E=trevors@hpcivil.com, O="HP Civil, Inc.",
CN=Trevor Spires
Date: 2024.02.06 08:35:20-08'00' Date: 2-02-2024

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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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: Process Control: How do I know if my plant is working correctly?

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 the functionality of each process and how to track performance.

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: 1/09/2024

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Canby, OR 97013-0577

Max H. Hildebrand

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

Level IV Certification in Wastewater Treatment, State of California. Certificate # 44195

Professional Associations

Pacific Northwest Clean Water Association, 2001 to present

Water Environment Federation, 2004 to present

Mr. Hildebrand specializes in the Startup and Commissioning of water and wastewater treatment systems. He has over 34 years of experience including more than 23 years of hands-on operational experience at four Class IV Wastewater Treatment Facilities in Oregon. His recent startup and commissioning experience includes:

- Morenci Water Treatment Plant in Morenci, Arizona.
- Water Pollution Control Plant West County Wastewater District in Richmond California.

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 Writing Technical Documents that include O&M Manuals, SOPs, APES, Staffing Evaluations, Unit Process Operating Strategies, and Treatment Plant Audits.

In addition to Startup and Commissioning services, he has performed Condition Assessments, conducting Operability Reviews of complex drawings and 3D Models, provided troubleshooting of wastewater systems and optimizing facility processes.

Startup and Commissioning Services

- Performed startup and commissioning for West County Wastewater District, Wastewater Pollution Control Plant in Richmond California.
- 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 Management Commission, Eugene/ Springfield, Oregon.

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

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.

Electronic Operations and Maintenance Manuals

- Prepared an OMSSConnect Electronic Operations and Maintenance Manual (EOM) for the Lake Oswego/igard Water Program.
- Prepared an OMSSConnect 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.

Max H. Hildebrand

- 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

- Operating Strategies for Salem WTP including SOPs
- 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

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: Chlorine Pump- Sizing and troubleshooting

Presenter: Phil Pelletier Title: Sales

Employer: Furrow Pump Address: 8525 SW St. Helens Drive

City: Wilsonville State: OR Zip: 97070 Phone: 503-682-4411

Summary of Lesson content: Chlorine Pumps are notorious for losing prime and failing to function on a reliable basis. .
Part of that is the initial design process. We will do some design work and some troubleshooting after the fact.

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: 24 years of chlorine system design-s of chlorine systems
Hundreds of presentations for various water associations in the NW

Education (High School, Upgrades, Colleges and Degrees): BA Degree in Communication and Film
Making with a Minor in History from Townson State University in Baltimore, MD

Professional Registration/Certification: None

Related papers/instruction you have presented:

Title: OAWU Date: Lots of them Event: _____

Title: ERWOW Date: Lots of them Event: _____

Professional Organizations/Activities: _____ Date: _____
_____ Date: _____

Course sponsor: _____

Signature of Instructor: *Phil Pelletier* Date: _____

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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P.O. Box 577 Phone: 503-698-6486
Canby, OR 97013-0577



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Cascade to Coast Facility Tour

Presenter: Spencer Goodro Title: RNG Lead Operator/Operations Technician 3

Employer: City of Eugene Address: 410 River Ave.

City: Eugene State: OR Zip: 97402 Phone: (541) 682-8620

Summary of Lesson content: Tour of a Class IV activated sludge facility for water treatment. The solids treatment system is accomplished through anaerobic digestion, the biogas produced is then processed through a renewable natural gas 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: _____

Presenter has 20 + years of experience in the field of wastewater treatment; is currently the project specialist for the RNG

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

Professional Registration/Certification: State of Oregon Wastewater Treatment II certification

Related papers/instruction you have presented:

Title: MWMC Renewable Natural Gas Project Date: Feb 28, 2023 Event: AWWA/PNCWA Cascade to Coast Short School

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities: PNCWA WCOS Board Member Date: July 2023 - present

Date: _____

Course sponsor: AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: Spencer Goodro Digitally signed by Spencer Goodro Date: 2024.01.30 14:29:45 -08'00' Date: 01/30/2024

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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P.O. Box 577
Canby, OR 97013-0577
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Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Valve Maintenance and Backflow

Presenter: Carl Schaumburg Title: Cross Connection Control Inspector

Employer: City of Corvallis Address: 1245 NE 3rd

City: Corvallis State: Or Zip: 97330 Phone: 541-754-6916

Summary of Lesson content: Importance of Valve exercising and Maintenance

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 and Waste Water Plant Operator
Distribution Specialist and Back Flow Cross Connection Inspector

Education (High School, Upgrades, Colleges and Degrees): _____
High School Grad and LBCC WET Program

Professional Registration/Certification: Distribution #09397 Back flow and Treatment #009193

Related papers/instruction you have presented:

Title: PRESENTER Date: 2020 Event: AWWA SHORT SCHOOL

Title: PRESENTER Date: 2022 Event: AWWA SHORT SCHOOL

Professional Organizations/Activities: _____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: Carl Schaumburg Date: 10-24-2023

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: Online pH 101

Presenter: Frank M. Spevak Title: Application Engineer

Employer: Rosemount Address: 4618 51st St. Court East

City: Tacoma State: WA Zip: 98443 Phone: (206) 979-1953

Summary of Lesson content: To explain how the glass and reference electrodes operate, their relationship and use in combination electrodes, what slope and reference offset are, the effects of temperature, proper maintenance, troubleshooting and a live buffer calibration. Will also show some installations NOT to do.

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: 25+ years of instrumentation experience both as technician, sales and application engineering assistance with both gas and liquid analytical measurements in AK, WA, OR & ID.

Education (High School, Upgrades, Colleges and Degrees): Associates Degree in Instrumentation and Control Technology, Bellingham, WA

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: Online pH 101 Date: May, 2019 Event: Alaska AWWA Annual Conference

Title: Reagentless free chlorine Date: March, 2017 Event: Washington Operators Workshop

Professional Organizations/Activities: AWWA Member Date: 12/01/14

Date: _____

Course sponsor: _____

Signature of Instructor: Frank Spevak Digitally signed by Frank Spevak Date: 2017.11.21 05:58:42 -08'00' Date: Dec. 26, 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: Reagentless Free Chlorine

Presenter: Frank Spevak Title: Application Engineer

Employer: Rosemount Analytical Address: 4618 51st St. Court East

City: Tacoma State: WA Zip: 98443 Phone: 206-979-1953

Summary of Lesson content: Fundamentals of measurement, technology comparison, troubleshooting techniques, calibration procedures and various installation ideas in Oregon. Effects of pH, flow and temperature are also discussed.

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: 25+ years of instrumentation experience both as technician, sales and application engineering assistance with both gas and liquid analytical measurements in AK, WA, OR & ID.

Education (High School, Upgrades, Colleges and Degrees): Associates Degree in Instrumentation and Control Technology Bellingham, WA;

Professional Registration/Certification: Not sure how to answer this.

Related papers/instruction you have presented:

Title: Reagentless Free Chlorine Date: June, 2016 Event: NW Oregon AWWA Short School

Title: Reagentless Free Chlorine Date: March, 2020 Event: Idaho Rural Water Association

Professional Organizations/Activities: AWWA Member Date: 12/01/14

Date: _____

Course sponsor: _____

Signature of Instructor: Frank Spevak Digitally signed by Frank Spevak Date: 2017.11.21 05:48:49 -08'00' Date: Dec. 26, 2023

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: LCR Water Service Line Inventory - 189 days until Submission Deadline

Presenter: Patrick Craney Title: Water Resources Engineer

Employer: City of Vancouver Address: 4500 SE Columbia Way

City: Vancouver State: WA Zip: 98661 Phone: 360.487.7130

Summary of Lesson content: The presentation covers the different methods used to perform the City of Vancouver water service line inventory. A combination of field and GIS tools were utilized to meet the State of Washington,

Department of Health guidance while building the inventory. Multiple Public Works groups were needed for this effort.

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: Planning and executing to meet a water distribution system regulatory requirement. Awareness and experience with water service line materials.

Education (High School, Upgrades, Colleges and Degrees): BS & MS in Civil Engineering, Texas A&M University

Professional Registration/Certification: California & Washington, Civil Engineer P.E.

Related papers/instruction you have presented:

Title: 77,000 Servicelines in 1,000 days Date: May 2023 Event: AWWA PNWS Annual Conference

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities: AWWA PNWS Date: 2013 - current

Date: _____

Course sponsor: _____

Signature of Instructor: Patrick Craney Digitally signed by Patrick Craney Date: 2024.01.31 12:09:13 -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: 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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Canby, OR 97013-0577



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Leak Detection 101

Presenter: Tim owens

Title: _____

Employer: Correct Equipment

Address: 300 S Redwood Street #135

City: Canby

State: OR

Zip: 97013

Phone: 503.582.0555

Summary of Lesson content: _____

Understanding the basics of leak detection, discussing methodology, and covering best practices to achieve consistent results.

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: Smart Water Meters and Acoustical L Date: 2021-2023

Event: ERWOW, OAWU, AWWA/PNCWA

Title: Cellular Based Telemetry Date: 2015-2023

Event: ERWOW, OAWU, AWWA/PNCWA

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: Tim Owens

Digitally signed by Tim Owens

Date: 2023.10.30 16:29:59 -07'00'

Date: 10/30/2023

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: Best Practices for Field Dechlorination

Presenter: Spencer Adams Title: Water Project Manager

Employer: Jacobs Address: 1100 NE Circle, Suite 300

City: Corvallis State: OR Zip: 97330 Phone: 214-335-7810

Summary of Lesson content: Review of best practices for field dechlorination of hydrant flushing water or pipeline disinfection water based on AWWA standard C655 Field Dechlorination. Presentation will explore the challenges for field dechlorination of chlorinated and chloraminated waters which must be discharged to the environment.

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): Bachelor of Science in Civil Engineering, Georgia Tech
Currently pursuing Master of Science in Environmental Engineering at Oregon State University

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: _____ Date: _____ Event: _____

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 Adams* Date: January 12, 2024

DO NOT WRITE BELOW THIS LINE
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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: Water Meter GPS Collection Project

Presenter: Corie Clark Title: GIS Application Analyst II

Employer: EWEB Address: 4200 Roosevelt Blvd

City: Eugene State: OR Zip: 97402 Phone: 541-685-7006

Summary of Lesson content: Describe the purpose of the water meter collection project.

Talk about the tools being used to collect and analyze data including best practices and lessons learned.

Discuss on-going project monitoring, documentation and resources for field collectors, supervisors and staff.

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: Creating and maintaining GIS data sets and web applications using ESRI software and ArcGIS Online.

Education (High School, Upgrades, Colleges and Degrees): Oregon State University Bachelors of Science, Minor in GIS

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities: _____ Date: _____

ORURISA member _____ Date: _____

Course sponsor: EWEB

Signature of Instructor: Corie Clark Digitally signed by Corie Clark
Date: 2024.01.29 10:34:06 -08'00' Date: 01/29/2024

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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P.O. Box 577 Phone: 503-698-6486
Canby, OR 97013-0577



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

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Phone: 503-698-6486



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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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: Oregon Dig Laws

Presenter: Jason Williams Title: Damage Prevention Specialist

Employer: NW Natural Address: 790 Goodpasture Loop

City: Eugene State: Or Zip: 97401 Phone: 541-954-6977

Summary of Lesson content: Update on Oregon Digs Laws and discussion on how to prevent damages to public 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: I have 26 years in the natural gas industry. I have been in the Damage prevention department for the past five years.

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: PNWS-AWWA Cascade to Coast Subsection

Signature of Instructor: _____ 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: All's Well that Ends Well

Presenter: Jeannine Parisi (with Nathan Endicott) Title: Resiliency Program Manager

Employer: EWEB Address: 4200 Roosevelt Blvd

City: Eugene State: OR Zip: 97402 Phone: 541.685.7451

Summary of Lesson content: Developing community partnership for emergency drinking water sites, design considerations 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: 16 years utility experience, 25 years in community education and outreach including public events/functional exercises at emergency well sites.

Education (High School, Upgrades, Colleges and Degrees): Master's Degree in Community and Regional Planning; UO

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: Lisa Erkert

Signature of Instructor: Jeannine paris Digitally signed by Jeannine paris
Date: 2024.01.26 12:30:41 -08'00' Date: _____

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: All's Well That Ends Well - Emergency Drinking Water

Presenter: Nathan Endicott Title: Staff Engineer

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

City: Eugene State: Or Zip: 97402 Phone: 541-685-7367

Summary of Lesson content: EWEB's approach to a community based emergency water supply 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: Design and implementation of emergency water systems.

Education (High School, Upgrades, Colleges and Degrees): Bachelor of Science in Civil Engineering

Professional Registration/Certification: 84737PE

Related papers/instruction you have presented:

Title: Preparing an Emergency Water Prog Date: June, 2023 Event: Journal AWWA

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

AWWA PNWS C2C - President Date: 05/01/2022 to present

Course sponsor: _____

Signature of Instructor: Nathan W. Endicott Digitally signed by Nathan W. Endicott
Date: 2024.01.26 11:51:40 -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: Tackling Water Loss with New Innovations

Presenter: Mike Uthe Title: Western US Manager

Employer: Mueller Water Products Address: 19019 Frontage Road

City: Belgrade State: MT Zip: 59714 Phone: 406-223-2192

Summary of Lesson content: In this presentation I will discuss approaches for reducing non-revenue water in a distribution system. We will look at available technologies for leak detection, both portable and permanent. We will also discuss the effects of pressure on water loss and how to effectively manage system pressures.

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 working in municipal water for the last decade. Mueller for the last 4 years, and prior to that as an application engineer for a rep firm.

Education (High School, Upgrades, Colleges and Degrees): I have a Master's in Mechanical Engineering and a Bachelor's in Petroleum Engineering.

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: Many if needed Date: _____ Event: _____

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

AWWA, WEF, ASCE Date: _____

Course sponsor: _____

Signature of Instructor: Mike Uthe Digitally signed by Mike Uthe Date: 2023.10.31 15:57:36 -06'00' Date: _____

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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: _____

DO NOT WRITE BELOW THIS LINE

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: Management Strategies for Ageing Infrastructure

Presenter: Leo Newberg Title: Manager

Employer: Inn at Otter Crest Water Address: 301 Otter Crest Drive

City: Otter Rock State: OR Zip: 97369 Phone: 541-351-1403

Summary of Lesson content: Discuss strategies , resources , and tools for overcoming the numerous challenges associated with running an ageing Water or Wate Water 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: See Resume

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

Professional Registration/Certification: PWS # OR-41-01527 Inn at Otter Crest

CCB # 198689

Related papers/instruction you have presented:

Title: Managing Ageing Infrastructure Date: 2020 - 2024 Event: Various OAWU Conferences (7 conferences)

Title: Managing Ageing Infrastructure Date: 2022 Event: Eastern Oregon Operators Conference

Professional Organizations/Activities:

OAWU Date: current

CCB Date: current

Course sponsor: _____

Signature of Instructor: [Signature] Date: 1-16-2024

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Leo Newberg

11567 NE Beverly Drive
Newport, OR 97365

Newberg.L.G@gmail.com

(541) 351-1403

Summary

Specializing in Project and Program Management with a focus on the pragmatic management of aging infrastructure. I have extensive experience in business management, maritime trades and the construction industry. I am passionate about building partnerships and finding solutions.

Experience

- **Facilities and Engineering Manager**
 - Sep 2016 – Present
 - Managing the structural and seismic upgrades to the existing facility to bring the property up to modern engineering safety standards. Implemented modern CCMS project and asset management software. Implemented GIS system to map all existing assets. Developed 25-year master plan for infrastructure evaluation, maintenance and modernization.
- **Water District Executive Board Member**
 - **Beverly Beach Water District** – June 2021 – present
 - **Johnson Creek Water District** – Jan 2019 – present
 - Currently executing 5 million dollar replacement of water treatment plant and distribution system. Includes close coordination with federal, state and local regulatory and funding agencies, as well as local stake holders.
- **Owner/ Operator**
 - **Woodmark Cabinets** – Jan 2002 – Jan – 2004
 - Ran an off-grid cabinet shop that specialized in traditional construction and reclaimed lumber.
 - **Yaquina Bay Woodworks** - Nov 2012 – present
 - Own and operate custom woodworking shop that specializes in unique and challenging woodworking projects. Focus on sustainable and renewable building practices.
- **Executive Committee Chair, Surfrider Foundation**
 - Dec 2014 – Dec 2017
 - Actively executed local environmental and educational programs promoting clean beaches and oceans as the chair of the local Surfrider nonprofit.
- **General Manager**
 - **Toledo Shipyard** – Jan 2013 – May 2015
 - **M-Yacht Services** – Jan 2011 – Nov 2012
 - **Zimmerman Marine** – Jan 2004 – Dec 2010
 - **Campbell's Bachelor Point Yacht Company** – Jan 1995 – Dec 2001

- **Oxford Boatyard** – Jan 1989 – Jan 1995
 - Extensive experience running all aspects of large, high end custom boatbuilding and repair facilities. Managed crews of 50+ employees. Expanded facilities, designed boats, ran multi-million-dollar refits and new builds. Implemented innovative proprietary project management, scheduling and crew incentive programs. Skilled in all shipwright trades.
- **DOD – NSA**
 - Jun 1985 – Jan 1989
 - Served as a field agent for NSA - foreign and domestic stations.

Education

- **Salisbury University**
 - Vernacular Architecture
 - 1990-1994
- **University of Maryland**
 - AA , Computer Science
 - 1985-1992

Licenses and certifications

- **CCB License** – 2012 – present
- **AHERA Building Inspector license** – Dec 2020 – present
- **Water System Operator license – Oregon Drinking Water Services** – Jan 2015 – present
- **Lead Rennovator License – DEQ** – Mar 2015 – present
- **ABYC Master Electrician Certification (American Boat and Yacht Council)** – 2004-2012



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Introduction to Drinking Water Protection Plans in Oregon

Presenter: Zach Pike-Urlacher Title: Water Resource Consultant

Employer: GSI Water Solutions, Inc. Address: 1600 SW Western Boulevard

City: Corvallis State: OR Zip: 97333 Phone: 541-753-0933

Summary of Lesson content: Overview of Drinking Water Protection Plans in Oregon

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 Resources Consultant focusing on water supply planning and water rights.

Education (High School, Upgrades, Colleges and Degrees): Master of Science in Water Resource Policy and Management, Oregon State University

Professional Registration/Certification: Water Conflict Management and Transformation Certificate;
Geographic Information Science Certificate

Related papers/instruction you have presented:

Title: "Water 101" Date: August 16, 2023 Event: Pathways to Farming Working Group Meeting

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities: GSI Water Solutions, Inc. Date: 2019 to present

Date: _____

Course sponsor: Lisa Erkert, Eugene Water and Electric Board

Signature of Instructor:  Date: 1/26/24

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Phone: 503-698-6486

Zach Pike-Urlacher

Project Water Resources Consultant



EDUCATION

MS, Water Resources Policy and Management, Oregon State University

GIS Certificate, Oregon State University

Water Conflict Management and Transformation Certificate, Oregon State University

BA, Human Ecology & The Integrative Approach to Personal, Population, and Environmental Health, Western Washington University

DISTINGUISHING QUALIFICATIONS

- ✓ Knowledgeable about Oregon water rights management and permitting for water resources projects
- ✓ Proficient in Microsoft Office software, ArcGIS, ENVI, and Python

Zach specializes in water resource planning, water rights, and watershed management. He is knowledgeable about Oregon water policy and helps clients to characterize their water resources and plan for long-term sustainability. He is experienced in installing and maintaining streamflow monitoring stations and associated data systems, conducting due diligence research, and assisting clients with water right extensions, beneficial use claims, applications, transfers, and water management and conservation plans.

REPRESENTATIVE PROJECTS

Water Right Consulting and Claims of Beneficial Use, Left Coast Cellars, Rickreall, Oregon.

Zach managed a project to help Left Coast Cellars certify two water rights permits. Zach prepared and submitted Claims of Beneficial Use (COBUs) to the Oregon Water Resources Department and provided support for certifying requests for both permits. Work included gathering and reviewing water supply and water use information, documenting compliance with terms and conditions in the permit, completing a site visit to inspect and document water use, preparing the draft COBUs for client review, finalizing and submitting the documents to OWRD, and communicating with OWRD during processing.

Water Right Consulting Quandary Vineyards, Yamhill, Oregon.

Zach managed a project to help Quandary Vineyards obtain the appropriate water rights for expanding the storage of an existing pond and using the additional stored water for irrigation. Zach prepared water right applications for a permit to store water in the expanded pond and a permit for use of the stored water for irrigation. For the storage permit, he facilitated the review of the applications with the local OWRD Watermaster and the Oregon Department of Fish and Wildlife prior to submittal to OWRD. He also worked with OWRD to facilitate review of the permits and to cancel the existing storage permits after the new permit was approved.

Water Rights Consulting, Harper Farms Inc., Junction City, Oregon.

Zach managed a project to assist with water rights transactions for three of the farm's properties. This included assessing the ability to obtain a new permit to use groundwater at one property, filing a water rights transfer to add a well to an existing water right certificate on another property, and filing a Groundwater Registration Modification to add a well on a third property. For the first property, Zach worked with OWRD to determine that it was possible to obtain a new water right for use of groundwater. He then completed the groundwater permit application, water right transfer application, and Groundwater Registration Modification and worked with OWRD through the review process.

Water Right Permit Applications, Various Clients, Oregon.

Zach has led and assisted in the preparation of water rights permit applications for the use of stored surface water, live flow surface water, and groundwater. Developing applications involves reviewing basin programs and water availability, projecting the client's water demand, carefully addressing application requirements, and clearly justifying the need for a water right permit. Clients include Westwood Farms, Quandary Vineyards, Seaview Cranberries, and Martin Rapids Farms.

Water Right Permit Extension Applications, Various Clients, Oregon.

Zach has led and assisted in the preparation of applications for extension of time for water use permits for agricultural, industrial, and municipal use. Developing applications involves collecting information from the client, analyzing water rights and water use data, carefully addressing application requirements, and clearly justifying the need for the extensions. Clients include Avion Water Company, City of Waldport, City of Philomath, City of Ashland, and Green Springs Farms.

Permit Amendments and Water Rights Transfers, Various Clients, Oregon.

Zach has led and assisted in the preparation of permit amendment applications and water rights transfer applications for the use of stored surface water, live flow surface water, and groundwater. Developing applications involves reviewing restrictions on source and place of use changes, clearly justifying the need for a change in source, place of use, or character of use. Clients include Green Springs Farms, Westwood Farms, City of Bend, City of Prineville, and City of Salem.

Oregon Food Bank Pathways to Farming Program, Portland, Oregon.

Zach developed a presentation for the Oregon Food Bank Pathways to Farming workshop that addressed irrigation water rights. The presentation, which Zach led during the workshop in Portland, Oregon, focused specifically on surface water and storage water rights.

Zach Pike-Urlacher

Project Water Resources Consultant

Integrated Water Resources Plan, Marion County, Oregon. Zach provided technical support for the development of an Integrated Water Resources Plan (IWRP) for Marion County. The purpose of the IWRP was to identify water resource issues affecting Marion County; relevant information for the County to make water resource policy decisions to address these issues; and further planning and implementation needs. The IWRP reviewed consumptive and environmental water demands and reliability of water supplies relative to these water needs. The IWRP also evaluated how water quality affects the adequacy and reliability of these water resources.

Water Rights Projects, Westwood Farms, St. Paul, Oregon. Zach helped develop water right projects on three Westwood Farms properties. This included developing a Claim of Beneficial Use (COBU) and a certificate request for transfer, preparing a groundwater registration modification to amend the authorized location of a well, and identifying any potential hurdles to obtaining a new permit to use groundwater from two specific wells for supplemental irrigation. Zach also worked with one of the properties to assess which acres are currently covered by water rights, the status of those rights, and if it was possible to obtain or modify any water rights to authorize irrigation of all areas on the property using any well. This project also required close work with the OWRD to obtain water rights certificates and information.

Streamflow Monitoring, City of Waldport, Oregon. Zach manages a project to help the City monitor streamflow on surface water streams authorized for use under the City's water rights. As part of this work, Zach helped the City with the installation of a Stilling well and solar-enabled streamflow gaging station near the City's point of diversion on Eckman Creek and upgrade of the existing Southworth Creek gaging station with a cellular data collection system. He provides ongoing field support for collecting streamflow measurements and compiles and documents the data.

Streamflow Monitoring, Seal Rock Water District, Seal Rock, Oregon. Zach manages ongoing streamflow monitoring services on Beaver Creek to help the Seal Rock Water District meet the requirements outlined in its water use permit. This work includes maintaining and operating the streamflow monitoring station, installed by GSI in 2019, near the District's proposed intake to monitor streamflow and water depth. Zach helps collect streamflow measurements (at various rates of flow) every four to six weeks during the required monitoring period and prepares an annual report using the collected data, which is submitted to Oregon Water Resources Department (OWRD).

Streamflow Monitoring, Pacific City Joint Water Sanitary Authority, Pacific City, Oregon. Zach is leading an effort to help the Pacific City Joint Water Sanitary Authority satisfy the conditions of its water use permit by conducting streamflow monitoring on Horn Creek. The work has included installing a streamflow monitoring station on Horn Creek and conducting field visits to measure streamflows to develop a rating curve that will relate river stage height (water depth) to streamflow.

Water Management Conservation Plan (WMCP) Progress Report, City of Prineville, Oregon. Zach helped develop the 5-year WMCP progress report for the City of Prineville. This report described progress toward meeting the City's conservation benchmarks, average monthly and average daily diversions by water rights, a comparison of water consumption by customer category over the past 5 years to consumption reported in the City's WMCP, and annual water audit results.

EXPERIENCE

(Before joining GSI, Zach's experience included the following.)

Teaching and Research Assistant, OSU, Corvallis, Oregon. Zach assisted OSU professors in teaching geography and water resources classes.

Water Resources Projects, The Mandorla Project, Washington. Zach did general construction work for this nonprofit organization on Shaw Island. This work included working with local engineers to install a rainwater catchment system, desalination-reverse-osmosis back-up system, septic system, electrical wiring, framing, and general construction work.

Water Resources Projects, Stream Wise, California, Nevada, and Oregon. Zach designed and implemented water resource projects in rural and wildland settings to return disturbed streams to natural form and function. The process involved traditional land survey and drone-powered three-dimensional modeling, the integration of hydrologic and geomorphologic principles in design, site planning using ArcGIS and related software, and collaboration with state permitting and natural resource agencies and other private and professional organizations.



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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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: A PFAS Journey - Vancouver's Approach to Widespread Source Detection

Presenter: Mehrin Selimgir Title: Civil Engineer

Employer: City of Vancouver Address: 4500 SE Columbia Way

City: Vancouver State: WA Zip: 98661 Phone: 360-487-7128

Summary of Lesson content: How Vancouver is dealing with widespread PFAS contamination in our water supply

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: Drinking water treatment design & construction
emerging contaminants pilot testing

Education (High School, Upgrades, Colleges and Degrees): Master of Engineering in Civil and Environmental Engineering
Bachelor of Science in Petroleum and Natural Engineering from Penn State University, graduated in 2017

Professional Registration/Certification: WA PE; license # 23001649

Related papers/instruction you have presented:

Title: PFAS: Developing a Drinking Water Date: 5/3/23 Event: PNWS-AWWA 2023 Section Conference

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities:
PNWS-AWWA Membership Chair for NWOR Subsection and LCSS Subsection Date: Active Member

Date: _____

Course sponsor: _____

Signature of Instructor: Mehrin Selimgir Digitally signed by Mehryn Selimgir
DN: C=US, E=mehryn_selimgir@cityofvancouver.us,
CN=Mehryn Selimgir * Date: _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Emerging Contaminants in Drinking Water

Presenter: Gregg Baird Title: Emerging Contaminants Specialist

Employer: Oregon Health Authority Address: 800 NE Oregon St. Suite 640

City: Portland State: OR Zip: 97232 Phone: 503-936-1657

Summary of Lesson content: This presentation will provide and overview of emerging contaminants in drinking water, drinking water health advisories, emerging contaminants of concern at public water systems in Oregon, challenges around dealing with emerging contaminants, and funding available for water systems to address emerging contaminants.

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 for Oregon Health Authority, Drinking Water Services for 16 years; 11 yrs as a public water system regulator and 5 yrs as the Emerging Contaminants Specialist.

Education (High School, Upgrades, Colleges and Degrees): High School diploma (1991), B.S in Soil Science from Oregon State University (1995)

Professional Registration/Certification: Registered Environmental Health Specialist (REHS) since 2000 - License# EH-S-224131

Related papers/instruction you have presented:

Title: Emerging Contaminants in DW Date: 6/22/23 Event: CCC Waterworks School - Oregon City

Title: PFAS in DW at PWS in Oregon Date: 9/7/23 Event: PNWS-AWWA PFAS Workshop - Vancouver

Professional Organizations/Activities: AWWA Member Date: Current

Date: _____

Course sponsor: PNWS-AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: Date: 1/2/24

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: SCADA Basics: From Button Click to Pump Start

Presenter: Matt Vohs Title: Water Controls Electrician

Employer: Eugene Water & Electric Board Address: 3957 Hayden Bridge Rd.

City: Springfield State: OR Zip: 97477 Phone: 541-685-7136

Summary of Lesson content: A brief description of the history of SCADA and it uses. Overview of typical architectures and industry trends.

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: Electrician and primary SCADA programmer for EWEB's Hayden Bridge Filtration Plant since 2018.

Education (High School, Upgrades, Colleges and Degrees): Taft High School - 2005 Graduate.
Central Electrical Training Center - 2012 Graduate.

Professional Registration/Certification: General Journeyman Electrician (25392J)
General Supervising Electrician (6511S)

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

Inductive Automation: Ignition Core, Database, and Perspective Training Date: 2018-2023

Rockwell Automation: FactoryTalk SE, Studio 5000 Level 1-3, and PowerFlex Traini Date: 2014-2018

Course sponsor: _____

Signature of Instructor: Matt Vohs Digitally signed by Matt Vohs Date: 2024.01.26 09:53:56 -08'00' Date: _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Long Term Cost Realities of PFAS Treatment

Presenter: Andrew Nishihara Title: Civil Engineer

Employer: Stantec Address: 601 SW 2nd Ave. Suite 1400

City: Portland State: OR Zip: 97204 Phone: 503.220.5432

Summary of Lesson content: Presenting construction and operations and maintenance costs of different PFAS treatment options using real-world case studies and how utilities are working towards maintaining affordable water rates while absorbing these unanticipated costs. Review of PFAS treatment technologies that have been implemented at 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: Professional Civil Engineer with over 8 years of PFAS specific treatment experience and overall 15 years in the drinking water industry.

Education (High School, Upgrades, Colleges and Degrees): Oregon State University, B.S. Bioengineering - 2008

Professional Registration/Certification: Professional Engineer, Civil - Oregon, Idaho, Arizona, Washington, Hawaii

Related papers/instruction you have presented:

Title: What's next for PFAS and Gen-X Date: April, 2023 Event: E. Oregon Operators Conference

Title: Treating Contaminants of Concern Date: January, 2023 Event: Association of Idaho Cities - Water Summit

Professional Organizations/Activities:
AWWA - Member, NW OR Subsection past president, Pacific NW Research Chair Date: 2013-present
Date: _____

Course sponsor: _____

Signature of Instructor: *Andrew Nishihara* Date: 6/4/2023

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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

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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

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

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: Mountain blues to blue greens?: the drivers and dynamics of harmful cyanobacteria blooms in Cascade

Presenter: Dr. Lara Jansen Title: Postdoctoral researcher

Employer: Oakridge Institute for Science & Education Address: 200 SW 35th Street

City: Corvallis State: OR Zip: 97333 Phone: 925-413-5586

Summary of Lesson content: Overview of key factors for toxic cyanobacteria prevalence and blooms in Cascade mountain lakes. The presentation will also cover possible indicators of toxic blooms in mountain lakes as well as potential

management applications.

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: Please see attached CV/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: _____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: LARA JANSEN (Affiliate) Digitally signed by LARA JANSEN (Affiliate)
Date: 2023.10.25 14:48:02 -07'00' Date: _____

DO NOT WRITE BELOW THIS LINE

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Lara S Jansen

Oak Ridge Institute for Science & Education (ORISE) | US EPA Pacific
Ecological Systems Division 200 SW 35th St, Corvallis, OR 97333 | Phone: 925-
413-8856 | Email: Jansen.Lara@epa.gov

EDUCATION

- Portland State University**, *Doctorate in Earth, Environment and Society*, August 2023.
Dissertation: Abiotic & biotic drivers of cyanobacterial blooms in mountain lakes. Advisor: Dr. Angela Strecker
- Humboldt State University**, *Masters of Science in Natural Resources*, August 2018
Thesis: Impacts of flow regulation on productivity. Advisor: Dr. Alison O'Dowd; Graduated with honors
- University of California-San Diego**, *Bachelor of Science in Environmental Systems, Minor in Urban Studies & Planning*, June 2014; Graduated *cum laude*

SELECT PROFESSIONAL EXPERIENCE

- ORISE Postdoctoral fellow**, US Environmental Protection Agency 2023-present
• Develops predictive models of aquatic communities in relation to landscape factors across the US
- Research Assistant**, Portland State University 2022-2023
• Validates remote sensing water quality data for Great Basin terminal lakes for NASA-funded project (summers only)
- Water Resources Intern**, Lake Oswego Corporation, OR 2021-2023
• Samples lake for chemistry and plankton; developing an SQL database for time series analyses
- Hydrology Intern**, Chicago Botanic Garden & Bureau of Land Management, Baker City OR, 2015
• Conducted stream and riparian plant species composition surveys
- Summer Research Intern**, Sandia National Laboratories 2012
• Supported and contributed to an algal biofuel project, focused on algae pathogen detection

SELECT PUBLICATIONS

- Jansen LS**, Sobota D, Pan, Y, Strecker, AS. *In review*. Watershed, lake and food web factors influence diazotrophic cyanobacteria in mountain lakes. *Limnology & Oceanography*.
- Jansen LS**, Gregson, KB, O'Dowd, AP. 2020. A comparison of benthic algal and macroinvertebrate communities in a dammed and undammed Mediterranean river (Eel River watershed, California, USA). *River Research & Applications*. doi.org/10.1002/rra.3695
- Jansen LS**, Pierre S, Boughton E. 2019. Interactions of fire, grazing, and pasture management: Short-term and long-term responses of water quality to management regimes in wetlands. *Agriculture, Ecosystems and Environment*. doi.org/10.1016/j.agee.2019.04.026
- Carney, LT, Reinsch, SS, Lane, PD, Solberg, OD, **Jansen, LS**, Williams, KP, Trent, JD, Lane, TW. 2014. Microbiome analysis of a microalgal mass culture growing in municipal wastewater in a prototype OMEGA photobioreactor. *Algal Research*. doi.org/10.1016/j.algal.2013.11.006

SELECT PRESENTATIONS

- Jansen LS**, Strecker AS, Tromas N, Shapiro JB. 2023. Differing dynamics & toxicity of cyanobacterial blooms are reflected in bacterioplankton of mountain lakes. Ecological Society of America Annual

Meeting. Portland, OR.

Jansen LS, Strecker AS, Shapiro JB. 2022. The spatial and temporal variation in cyanotoxin prevalence and bacterioplankton in mountain lakes. GRIL: Interuniversity Research Group in Limnology Annual Symposium. Montréal, QC, CA.

Jansen LS. 2022. The influences of lake, food web, & watershed factors on N-fixing cyanobacteria in mountain lakes. Oregon CyanoHABs Annual Stakeholder Meeting. Virtual.

Jansen LS, Strecker AS. 2020. Spatial prevalence of cyanotoxins in montane lakes in the Oregon Cascades.” USGS Northwest-Pacific Island's Spring 2020 HABs Science Meeting. Virtual.

Jansen LS, Wilzbach M, Ward D, O’Dowd A. 2018. A comparison of community structure in regulated and unregulated reaches of the Eel River, CA. Society for Freshwater Science Annual Meeting. Detroit, MI.

Jansen LS, Hutchins, L. 2017. Assessing ecosystem health on the Upper Eel River: Integration of Western and Indigenous Science.” California Chapter of the Society for Freshwater Science Annual Meeting. Davis, CA.

SELECT FELLOWSHIPS AND GRANTS

- 2022-2023 Global Lake Ecological Observatory Network (GLEON) Graduate Student Fellow-*Lake Expedition 2022: NASA GLEON Network Science Training*
- 2022-2024 NASA Earth Science-A.33 The Science of Terra, Aqua, and Suomi-NPP: *Using MODIS, VIIRS, ASTER and other Remote-Sensing Data Products to Assess the Status and Fate of Terminal Lakes in the Great Basin of the Western U.S.* co-author (\$707,839; \$20,725 to PSU)
- 2021-2022 USGS-Portland State University Partnership Seed Grant: *Willamette Water Quality Past and Present.* co-author (\$29,704)

AWARDS AND SCHOLARSHIPS

2020 Society of Freshwater Science General Endowment Award (\$1,000); 2019 Oregon Lakes Association Graduate Student Scholarship (\$1,000); 2018-2020 Dean’s Oregon Lottery Graduate Scholarship (\$10,000); 2019 Ed & Olive Bushby Scholarship (\$1,570); 2017 Federal Work Study Grant-Research Scholarship for Graduate Studies (\$3,000); 2018 COAST Graduate Student Travel Award (\$1,000); 2018 COAST Graduate Student Research Award (\$3,000); 2013 Ledell Family Endowed Research Scholarship (\$3,000)

PROFESSIONAL SERVICE

Recent outreach

Northwest Science Expo, judge & mentor	2021-2023
Oregon Lakes Association, student director	2020-2022
PSU Association of Environmental Science Students, officer	2018-2022

Journal Reviewer

Ecological Applications, Freshwater Biology, Water Resources Research



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: How to Operate a PFAS Treatment System

Presenter: Amy Gao Title: Water Engineer

Employer: Jacobs Address: 1100 112th Ave SE

City: Bellevue State: WA Zip: 98004 Phone: 9172169135

Summary of Lesson content: This presentation will focus on operating a PFAS treatment system, specifically media conditioning at startup and changeout, backwash management, media disposal, and how to sample.

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: Design of drinking water treatment systems, including PFAS, ozone, flocculation, sedimentation, filtration, UV and chemical feed systems.

Education (High School, Upgrades, Colleges and Degrees): BS - Environmental Engineering - Columbia University and MS - Environmental Engineering from University of Texas - Austin

Professional Registration/Certification: _____
Professional Engineer: WA (No. 23004512), NV (No. 030876), NY (No. 095193)

Related papers/instruction you have presented:
Title: Accelerating Design and Construction Date: 5/5/23 Event: PNWS - AWWA Conference
Title _____ Date: _____ Event: _____

Professional Organizations/Activities: _____ Date: _____
American Water Work Association Date: 5/2010 to present

Course sponsor: PNWS-AWWA

Signature of Instructor: Qiao H Gao Date: 1/16/24
Digitally signed by Qiao H Gao
DN: cn=Qiao H Gao, c=US, o=Washington,
email=gaosiling@gmail.com
Date: 2024.01.16 21:46:11 -08'00'

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Source Water Protection Planning and Risk Assessment for Oregon's Largest Watershed

Presenter: Joanna Lewis Title: Water Resource Professional

Employer: Geosyntec Consultants Address: 920 SW 6th Ave

City: Portland State: OR Zip: 97204 Phone: 971-271-5899

Summary of Lesson content: We will present an overview of the Willamette Intake Facilities Commission's Watershed, Monitoring, and Outreach Plan for the Willamette River, including a quantitative risk assessment of potential point contamination sources upstream of the intake. The Plan concludes with strategic recommendations based on 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: Seven years of research, volunteer, and consulting experience in environmental emergency planning, rural and urban water supply, and water resource management.

Education (High School, Upgrades, Colleges and Degrees): B.S. Environmental Engineering (2017) University of New Hampshire

Professional Registration/Certification: Engineer In Training, New Hampshire (#06775)

Related papers/instruction you have presented:

Title: Source Water Protection Plan for the Date: 5/5/2023 Event: PNWS-AWWA Annual Conference

Title: Risk Assessment and Source Water f Date: 4/5/2023 Event: New England Water Works Association

Professional Organizations/Activities:

Women in Environment Date: 2020 - 2021

Course sponsor: PNWS-AWWA Cascade to Coast Subsection

Signature of Instructor: Joanna Lewis Digitally signed by Joanna Lewis Date: 2024.01.31 09:25:33 -08'00' Date: 1/31/2024

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Fires in the Watershed - Lessons Learned from the PNW (and beyond!)

Presenter: Jude D Grounds Title: Senior Vice President

Employer: Carollo Engineers Address: 707 SW Washington St, Suite 500

City: Portland State: OR Zip: 97205 Phone: 503.936.1112

Summary of Lesson content: Presentation will focus on five case studies of watershed wildfires, and their associated impacts on raw water quality... Lessons learned will focus on water quality and treatment strategies to monitor and mitigate the impact of raw water quality 'challenges' on finished water quality and, ultimately, public health.

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: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities: _____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: _____ Date: _____

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Jude D. Grounds, PE

Jude Grounds has 26 years of experience in water treatment plant (WTP) design, construction, start-up/commissioning and process optimization. His treatment design experience covers various technologies, including conventional treatment; high-rate clarification; ozone; biological, high-rate and slow sand filtration; membranes and UV disinfection. Jude's extensive experience as a resident engineer during the construction and commissioning of his designs helps him bring both a contractor's and operator's perspective to planning and design projects. Jude has focused his career on emergency preparedness and has led some of the largest and most complicated resilient infrastructure projects in the Pacific Northwest, which will result in over **\$3 billion** in constructed resilient infrastructure.

Education

BS Civil Engineering,
University of Colorado,
Boulder, 1998

MS Civil Engineering,
University of Colorado,
Boulder, 1999

Licenses

Civil Engineer, Oregon

Civil Engineer,
Washington

Water Treatment Planning and Design

→ Design manager for the Portland Water Bureau, Oregon, Bull Run Projects – Filtration Facility. Carollo, in association with our teaming partner Stantec, is assisting the Portland Water Bureau to improve their Bull Run Watershed – the last large, unfiltered municipal water supply – by integrating a new, greenfield 510 MLD Filtration Facility. The project includes design of all on-site treatment facilities, while collaborating with pipeline designers, the CM/GC contractor, and PWB's Program Manager to integrate the proposed Filtration Facility with Bureau's existing infrastructure. Jude managed the design of the new infrastructure, including conventional treatment process facilities (pre-ozonation, flocculation/sedimentation, filtration, chlorine disinfection and residuals handling); operations, maintenance, administration and visitor buildings; and associated civil work. The finished design will be designed for resilience, and will not only survive, but continue service throughout anticipated future catastrophic events, including seismic, wildfire, landslides and other climate-related water quality challenges.

→ Project manager for the City of Salem, Oregon, Cyanotoxin Mitigation and WTP Improvements Projects. The project initially provided emergency support services for analyzing, recommending, designing, and implementing an immediate response plan for removal of cyanotoxins from the City's raw water. High levels of cyanotoxins in the raw water at Salem's Geren Island Water Treatment Plant (GIWTP) led to the exceedance of health advisory levels during the early summer of 2018, leading to the longest

'do not drink' advisory in our region's history. The team assisted in the development of near-term mitigation strategies for the cyanotoxins, including bench-scale, pilot-scale, demonstration-scale (40 MLD), and ultimately the full-scale (190 MLD), and was implemented in under 3 weeks. Throughout, the team provided 24/7 operational support services, working hand-in-hand with plant staff to manage the crisis. Once in place, the team focused on a long-term solution for the City's water treatment plant, consisting of intermediate ozonation, and a conversion of the existing slow sand filtration facilities to a two-stage filtration process. These long-term solutions were designed to address, not only the cyanotoxin issues, but all water quality challenges anticipated in the City's watershed, significantly increasing the overall resilience of the City's water system. The project was awarded the Excellence in Engineering Award in 2023, in recognition of these accomplishments.

→ Water treatment plant lead for the Tualatin Valley Water District, Oregon, Willamette Water Supply Program. This \$1.6-billion Program represents one of the largest wet infrastructure undertakings in the Pacific Northwest's history and will include a 300 MLD greenfield design/construction of the Willamette Water Supply System Water Treatment Plant, 30+ miles of 1,676-mm transmission piping, two 76 ML terminal storage reservoirs, and associated ancillary facilities. Once completed, this Program will be the backbone of a seismically resilient treatment, transmission, and storage system for the Portland metro area. Jude served as Project Manager for the treatment project through conceptual design and engineer/contractor procurement

Awards

Washington State DOH
2022 Drinking Water
Week – Most Innovative
Award

Other Accomplishments

University of Portland, OR
– Adjunct Professor

Open for Quote

Jude D. Grounds, PE

where he led the development of the overall system Level of Service Goals and facilitated a Blue Ribbon Panel of advisors. He remains a technical advisor for the decade-long project.

→ Project manager for the Eugene Water and Electric Board, Oregon, New Water Treatment Plant Predesign. This project included the preliminary design of the new water treatment plant with an initial capacity of 40 MLD with provisions to expand to 110 MLD, to serve as an alternative water supply for EWEB, currently limited to a single source of supply. The project involved the development of Level of Service Goals, alternatives treatment analysis, preliminary layouts and site utilization planning, project implementation and overall schedule and permitting requirements. Once completed, the project will serve as a resilient supply for the Eugene community, capable of treating the challenging water quality conditions associated with future catastrophic events, including seismic, wildfire, landslides and other climate-related water quality challenges. Mr. Grounds managed the engineering team, supported EWEB's public outreach/involvement efforts, including leading a Blue Ribbon Panel, and presentations to the EWEB Board.

→ Project manager for the Lake Oswego/Tigard (LOT) Water Partnership's \$87M (CAD) expansion of the LOT Water Treatment Plant. The overall program involved the replacement of an existing water supply with a new, seismically resilient intake, raw and finished water pipeline, treatment facility and storage reservoirs, and continues to serve as the model of seismic resilient design in the region. The treatment system expansion involved the replacement of an existing 60 MLD direct filtration plant with a new 145 MLD conventional treatment process, including Actiflo™ HCS Ballasted Flocculation, Intermediate Ozonation and GAC Filtration – all within the same footprint, and without interrupting operations of at the plant. Jude is primarily responsible for overall project management, design coordination and contractor procurement. The

project was awarded the Awards for Excellence in Engineering, Concrete Construction and Communications Awards in 2016.

→ Technical advisor for the City of Houston, Texas, Northeast Water Purification Plant Improvements. Carollo is acting as the owner's agent and technical reviewer for the \$2.54B (CAD) expansion of the Northeast Water Purification Plant, a conventional filtration treatment plant. Jude served as a technical advisor/reviewer during procurement of the progressive design-build team, as well as participating in the independent 30% value engineering workshop.

→ Project Engineer and Construction Coordinator for Tacoma Water's \$180M (US) Green River Filtration Facility (GRFF), a fast-track conversion of one of the last unfiltered water supplies in the US. To meet an aggressive schedule, the project was executed using the General Contractor/Construction Manager (GC/CM) form of project delivery. In his role as GC/CM Coordinator, Mr. Grounds helped author the procurement documents, testified on behalf of the design team to the Washington State Capital Projects Advisory Review Board (CPARB), sat on the for GC/CM procurement selection panel, assisted with Partnering Workshops and facilitated Contractor/Design team coordination during design and (currently) construction. The final treatment process consists of pre-ozonation, high-rate clarification and deep-bed media filtration. At 600 MLD, this conventional WTP is the largest in the Pacific Northwest.

→ Project engineer during design and resident engineer during construction of the 60 MLD Willamette River WTP for the City of Wilsonville, Oregon. The \$45M WTP was constructed under a Design Build contract with the City of Wilsonville. The plant employs ballasted flocculation/sedimentation (Actiflo), intermediate Ozonation, and GAC filtration. Mr. Grounds assisted in the design of the Actiflo and chemical feed systems, performed on-site engineering during construction and startup and prepared the plant's Operations and Maintenance Manual.



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 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: Incident Preparedness for Water and Wastewater Facilities Tabletop Exercise

Presenter: Leslie Ann Kainoa Title: Cybersecurity State Coordinator

Employer: CISA Address: 915 2nd Ave, Suite 3440,

City: Seattle State: WA Zip: 98174 Phone: 503-462-5626

Summary of Lesson content: Tabletop exercise to discuss and practice incident preparedness based on an organization's incident response plan. This is an interactive session that will require participation and information sharing. Bring incident management plans.

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: Cybersecurity with an OT focus and ICS and SCADA experie

Education (High School, Upgrades, Colleges and Degrees): Masters of Science in Information Systems

Professional Registration/Certification: CISSP, CISA, CDPSE, GICSP

Related papers/instruction you have presented:

Title: Cybersecurity Best Practices and Inci Date: 12/12/2023 Event: OAWU End of Year Operators Conference

Title: Cybersecurity Threats and Best Pract Date: 9/21/2023 Event: AWWA Cascade to Coast

Professional Organizations/Activities: MS-ISAC Date: _____

Date: _____

Course sponsor: _____

Signature of Instructor: LESLIE ANN Y KAINOA Digitally signed by LESLIE ANN Y KAINOA Date: 2023.12.01 15:47:13 -08'00' 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: Portland Water Bureau Seismic Resiliency

Presenter: Tim Collins Title: Engineering Supervisor

Employer: Portland Water Bureau Address: 1220 SW 5th Avenue

City: Portland State: OR Zip: 97204 Phone: 503422-9173

Summary of Lesson content: Presentation discusses seismic hazards in the Portland area, how these hazards impact the Portland Water Bureau infrastructure and what the PWB is doing to reduce our risks to these hazards.

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: 25 years working for the PWB. Inhouse geotechnical subject matter expert

Education (High School, Upgrades, Colleges and Degrees): Master degree Civil Engineer from OSU with focus in geotechnical engineering.

Professional Registration/Certification: Professional engineering and professional geotechnical engineer.

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

AWWA and ASCE _____ Date: _____

Course sponsor: _____

Signature of Instructor: Tim Collins Digitally signed by Tim Collins
Date: 2023.11.29 10:33:34 -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.

Hydraulic Control Valve Basics: Function and Troubleshooting

Presentation Title: _____

Presenter: Patrick Miller Title: Technical Sales & Engineering Support

Employer: Cimco-GC Systems Address: 2310 Inter Ave

City: Puyallup State: WA Zip: 98372 Phone: 253-263-3099

Summary of Lesson content: Basic hydraulics, valve function, pilot system function, valve components, pressure reducing,

and relief valves, troubleshooting of common valves.

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.

Training in valve dynamics and hydraulics. Cal-Val Service

Primary Knowledge/Skills/Abilities related to presentation: _____

experience in troubleshooting and rebuilding hydraulic control valves.

High School Diploma

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

Professional Registration/Certification: _____

Related papers/instruction you have presented:

If Check Valves Were Cars: Style, Selection, Performance

Title: _____ Date: 2/6/24 Event: ERWOW Spring Conference

Locating 101: The Science Behind Using Tracer Wire to Locate Pipelines

Title: _____ Date: 2/7/24 Event: ERWOW Spring Conference

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: _____ Date: _____

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Hayden Bridge WTP Tour

Presenter: Justin Doan Title: Water Treatment Operator

Employer: EWEB Address: 3957 Hayden Bridge Road

City: Springfield State: OR Zip: 97477 Phone: 5417711202

Summary of Lesson content: Tour of the treatment facilities at the Hayden Bridge Water Treatment Plant.

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: Operator at Hayden Bridge- Knowledge of treatment processes; Coagulation, Flocculation, Sedimentation, Filtration, and Disinfection.

Education (High School, Upgrades, Colleges and Degrees): Associate's Degree in Water and Environmental Technology

Professional Registration/Certification: Level 2 Water Treatment, Filtration Endorsement, and Level 1 Water Distribution.

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities:

Date: _____

Date: _____

Course sponsor: _____

Signature of Instructor: *Justin Doan* Date: 1/28/2024

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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: Tour of EWEB's Hayden Bridge Water Treatment Facility

Presenter: Mark McGuire Title: Water Treatment Plant Operator

Employer: EWEB Address: 3957 Hayden Bridge Rd

City: Springfield State: OR Zip: 97477 Phone: 541-556-9024

Summary of Lesson content: Tour of the Water treatment plant and various systems that are used to supply and treat McKenzie river water into tap water for the city of Eugene.

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: OHA water treatment IV and distribution certification IV, Hayden Bridge water treatment plant operator for 21 years

Education (High School, Upgrades, Colleges and Degrees): BS in Business Information Systems - Linfield

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

AWWA Cascade to Coast subsection director _____ Date: _____

Course sponsor: AWWA Cascade to Coast short school 2024

Signature of Instructor: Mark McGuire Date: 1-29-24

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: Hayden Bridge Filtration Plant Tour

Presenter: Scott Brown Title: Water Treatment Plant Operator

Employer: EWEB Hayden Bridge Water Filtration Plant Address: 3957 Hayden Bridge Rd

City: Springfield State: OR Zip: 97477 Phone: 541-554-9626

Summary of Lesson content: Tour of the WTP including; Ponds, chemical feed systems, SCADA controls, pilot filters, basins, filtration, SHC disinfection, laboratory, finished water pumping. SHC generation.

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 working as a water treatment operator.

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

Bachelor of Science in Psychology from Western Oregon University, High School Diploma from Pleasant Hill High School

Professional Registration/Certification: Water Treatment IV, and Water Distribution IV

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: [Signature] Date: 1-24-24

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Phone: 503-698-6486



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

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Presenter: Patrick Miller

Employer: Cimco-GC Systems

2310 Inter Ave

Puyallup, WA 98372

Position: Technical Sales & Engineering Support

Phone: 253-263-3099

Primary Knowledge/Skills/Abilities: Training in valve dynamics and hydraulics. Cal-Valve service experience in troubleshooting and rebuilding hydraulic control valves.

Education: High school diploma

Related papers/instruction you have presented:

If Check Valves Were Cars: Style, Selection, Performance on 2/6/24 at ERWOW Spring Conference

Locating 101: The Science behind Using Tracer Wire to Locate Pipelines on 2/7/24 at ERWOW Spring Conference

Presentation Title: Locating 101: The Science Behind Using Tracer Wire to Locate Pipelines

Authors Job Title: Regional Manager & Engineering Support

Abstract:

Nearly a billion dollars in damages occur to underground water utilities each year in the USA due to inability or failure to locate pipelines. Some municipalities use a variety of different locating methods to find pipelines both young and old, made from various materials. Damages still occur. One of these methods involves the use of tracer wire to find pipelines which comes with its own challenges.

CEU Relevancy Statement:

Underground utility locating continues to challenge water districts due to its time consuming, unpredictable, and inexact process. With the various pipeline materials, sizes, and ages in the ground, different methods are used with varying results. One of the most common methods is the placing of tracer wire during pipe installation and directly connecting to that tracer wire years later to locate pipe. Sometimes the pipeline can be found easily using tracer wire and other times, well, the exact location of the pipe and wire baffles district personnel. This class breaks down different locating methods, how tracer wire works, how the common use of tracer wire only *sometimes* produces reliable results, and how to build a robust tracer wire system that will last the life of the pipeline.



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

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