



Request for Wastewater Training Continuing Education Units

Request Date October 5, 2023

Course Title Pacific Northwest Pretreatment Workshop Course Location _____

Heathman Lodge 7801 NE Greenwood Drive Vancouver, Washington 98662

Start Date November 6, 2023 End Date November 8, 2023

Total Classroom Hours 20

CEUs Requested (1 hour class time = 0.1 CEU) 2.0

Course format: Classroom Correspondence On- Conference Recurring line

Explain how this course meets the professional growth criteria to operate and maintain a domestic wastewater treatment plant or to manage the operation and maintenance of a domestic wastewater treatment plant. Please see accompanying course outline

How will attendance be monitored/verified? Registration

Contact Name Patrick Bryan

Company Western States Alliance

Mailing address 8620 Holly Drive, Suite 250

City Everett

State WA

Zip 98208

Phone Number (559) 940-5270

e-mail pbryan@pprc.org

Required Attachments:

- Course Agenda with timeline – include start and end times, breaks & lunch
- Course Summary or Brochure w/course summaries
- Instructor Information – short biography and credentials or Brochure w/instructor bios

Return completed form and required attachments to:

Department of Ecology
Wastewater Operator Certification
PO Box 47696
Olympia, WA 98504-7696

Or email completed form and attachments to: <mailto:opcercert@ecy.wa.gov>

Accommodation Requests:

To request ADA accommodation including materials in a format for the visually impaired, call Ecology at 360-407-6600. Persons with impaired hearing may call Washington Relay Service at 711. Persons with

OpCert Staff Use

CEUs _____

Course ID _____

Approval Date _____

~~Expiration Date _____~~

~~Reviewed by _____~~

speech disability may call TTY at 877-833-6341.
ECY 040-201 (7/14)



10/6/23

OESAC / CEU Committee
P.O. Box 577
Canby, OR 97013-0577

Dear CEU Committee:

The Pacific Northwest Pretreatment Workshop continues to bring together municipal, state, and federal wastewater and pretreatment staff from cities in Oregon, Idaho, Washington, and Alaska this year at for its 30th annual workshop. Attendees are mostly municipal employees responsible for administering Industrial Pretreatment Programs under 40 CFR 403. Under this program, pretreatment staff administer and enforce industrial discharge permits, monitor industrial discharges, develop local limits and implement other programs as needed to protect the publicly owned treatment plants, collection system, and workers.

This year, the pretreatment workshop is applying for 2.0 Wastewater and Collection System CEU's with the Oregon Environmental Services Advisory Council (OESAC). The 2022 Pacific Northwest Pretreatment Workshop will be held in-person in Vancouver, WA. The following is a brief outline of the presentations for the 29th Annual Pacific Northwest Pretreatment Workshop and course timelines:

Monday, November 6, 2023:

01-EPA Update

A presentation on the status of EPA's pretreatment program from a national perspective. He will discuss the status of categorical pretreatment regulations as well as any new proposed regulations or changes to existing standards. Mr. Garcia will also provide insight on the direction of the program and oversight activities.

(1.0 Hour)

02-How Pre-treatment Intersect and supports One Water Goals

Michael Simpson, Principal Environmental Engineer, Pre-Treatment Manager

A 2022 WRF Report detailed the evolution of the pretreatment program in the fifty plus years since the passing of the Clean Water Act in 1972. Increasingly pretreatment programs are exceeding the original goals of protecting POTW from pass-through or interference from pollutants; their focus now includes sustainability, community resilience, beneficial reuse, and one water. In this presentation, we will discussed LASAN shifting focus to include One Water, Environmental Justice, Economic Development, and other green initiatives in their pretreatment program planning. This presentation will outline how the LASAN's pretreatment program is driving sustainable water management and a one water future for the City of Los Angeles.

(1.0 Hour)

03-A Loaded Question: How do we develop mass-based local limits?

Elizabeth Toot-Levy, Geosyntec Consultants

Abstract: Concentration based local limits (whether they are based on uniform flow or contributory flow) are often preferred by local control authorities for ease of program management. However, many POTWs are finding that allocating local limits based on mass can results in more achievable local limits for industrial users that may struggle to meet a uniform concentration limit while still providing protection for the POTW. This presentation will review the federal pretreatment regulations and guidance as they relate to the development of local limits and walk through the calculation framework for developing mass-based allocations. The presentation will then provide case studies illustrating examples of where mass-based local limits have been developed and are currently being utilized.

(1.0 Hour)

04 EPA Enforcement Case Study, Industrial Pretreatment

Eric Martinson, Resident Agent in Charge Criminal Investigation Division, US EPA Portland, OR

Mr. Martinson will give a presentation on a plating shop that was discharging to an approved POTW in violation of pretreatment standards after employees tried to fool inspectors with non-functioning equipment. The plating shop's owner also made multiple false statements in an attempt to illegally dispose of hazardous wastes as non-hazardous waste in order to save money.

(1.0 Hour)

05-PFAS Update and Compliance

Kevin Masterson,

The presentation will look at the latest information related to PFAS regulations, state and EPA, and how the water and wastewater industry is reacting. In an effort to address PFAS early on, some states are looking at PFAS limits for drinking water as well as land applied biosolids. We will also examine the potential impact of PFAS on the beneficial use of biosolids in agriculture and other reuse options based on the latest data and research. The presentation will review upcoming studies related to PFAS in biosolids and how to stay up-to-date on these efforts, and potential technologies that can address emerging contaminants such as PFAS.

(1.0 Hour)

06-NELAC - Benefits of field quality systems

John Mormon,

This constant state of change causes a need for continuous updates to lab analysis. Analytical methodologies available from both the USEPA and Department of Defense (DOD) can dictate PFAS sampling and reporting requirements for drinking water and wastewater facilities. In this presentation, Lindsay Boone, a PFAS expert and Technical Program Manager at Enthalpy Analytical will cover PFAS methodologies and how they can impact facilities and their permit requirements. Don't miss this informative presentation on PFAS that will help answer all the questions that make PFAS requirements feel like it's the wild, wild west...or is it?

(1.0 Hour)

07-Data Integrity Ethics

Silvia Labie, Statewide Pretreatment Lead Washington Department of Ecology Olympia, WA

A guidance for evaluating if an industry is covered under a categorical effluent guideline and how to incorporate this into a permit. This is a crucial part of a successful pretreatment program due to the risk to treatment plant interference or passthrough from some Categorical Users.

(1.0 Hour)

08- Local Limits - Mass based limits

Jason Flowers, Geo Syntec

Traditional local limit development may not meet all of these needs, so flexibility and creativity are needed to protect the utility without imposing unnecessarily stringent limits. In this session, new

strategies for approaching local limit development will be presented, along with case studies on how the strategies have been used in communities. (1.0 Hour)

Tuesday, November 7, 2023:

09- Legacy of a manufacturing facility and the unknown dangers to pretreatment inspectors

Angela Walker, Brunswick - Glynn County Joint Water & Sewer Commission

Industrial manufacturing and the demands for products adds additional responsibilities to wastewater treatment personnel. On top of these additional responsibilities, the various types of water pollution from the waste released from various sectors like industry and agriculture has greatly contributed to the need for skilled pretreatment inspectors. Therefore, the proper treatment of wastewater before disseminating it into water bodies has become indispensable to maximize the quality and quantity of potable water. Water pollution generally results from human activity, and the pollutants released mostly come from industrial dumps, sewage leakages, oil spillages, heavy metals, animal wastes, chemical wastes, eroded sediments, deforestation, littering, fertilizers, herbicides, pesticides, etc.

(1.0 Hour)

10 'PFAS Sampling and Analytical Considerations and the Next Frontier

Taryn McKnight, Eurofins

How to make an Industrial user survey work for your POTW. Will share guidance for managing a successful survey effort. This presentation will also include discussion of how to move forward after the POTW has performed the survey and generated findings.

(1.0 Hour)

11 State Updates / WA - OR – ID

Maia Hoffman & Terry Alder, State Pretreatment Coordinator

State Pretreatment Coordinator Washington State Department of Ecology Idaho Department of Environmental Quality

State pretreatment update

(1.0 Hour)

12 Clean Sampling

ALS

As changes occur in communities and their industries, changes may also need to occur with a utility's local limits to prevent pass-through and interference while still facilitating their community's economic development. Traditional local limit development may not meet all of these needs, so flexibility and

creativity are needed to protect the utility without imposing unnecessarily stringent limits. In this session, new strategies for approaching local limit development will be presented, along with case studies on how the strategies have been used in communities. The technical basis for the allocations and the negotiations with regulators and local industries will be discussed.

(1.0 Hour)

13 Sampling, Monitoring and Pretreatment Perfection

Morgan Crowell, SWIFT Comply

A present an overview of best practices for industrial wastewater sample collection using the ultra-clean sampling method. How to prepare, clean sampling equipment and perform Low Level Metals Sampling using clean hands/dirty hands.

(1.0 Hour)

14 Wipes

Frank Dick

Will discuss how wastewater treatment plants and disposable waste loading into plant and share insight for developing a program for municipal agencies.

(1.0 Hour)

15 Table Topics

Tables will be set up with a facilitator who will lead the discussion on specific topics that attendees will participate in. The table topics include:

- | | | |
|---------------------------|---|---------------------------|
| Pollution Prevention | Best Management Practices | Site-Specific Limits |
| Flushable Wipes | Local Limits Development | Extra-Strength Surcharges |
| Incentive Awards Programs | Hauled Waste Mercury Minimization Plans | FOG Programs |
| Laboratory Issues | Non-Discharging CIUs | |

(2.0 Hour)

Wednesday, November 8, 2023:

16 PFAS Communicating about PFAS While Maintaining Public Trust

Libby Barg Bakke

In an effort to address PFAS early on, some states are looking at PFAS limits for drinking water as well as land applied biosolids. We will also examine the potential impact of PFAS on the beneficial use of biosolids in agriculture and other reuse options based on the latest data and research. Finally, the webinar will review upcoming studies related to PFAS in biosolids and how to stay upto-date on these efforts, and potential technologies that can address emerging contaminants such as PFAS

(1.0 Hour)

18 PFAS and Emerging Pollutants

David James, Texas

45 years' experience providing environmental technical and compliance assistance to public and private entities, specializing in developing and implementation of SSO and FOG abatement and pollution prevention programs, 26 years with Texas Commission on Environmental Quality, 12 years as WWTP O & M Services, BS and MS, Civil Engineering, Texas A & M. Texas Class A Wastewater Operator, life time member of the American Water Works Association and the Water Environment Federation

(1.0 Hour)

19 EcoBiz

Fran Gilliland, Oregon's EcoBiz

Program and How Green Business Certification Programs Can Work with Pretreatment Programs.

(1.0 Hour)

20 Amalgam Waste Management

Trestan Fairweather

Trestan Fairweather is currently an Environmental Compliance Inspector in the Dental/Admin group in IWMD (Industrial Waste Management Division). He graduated from California State Polytechnic University, Pomona with his degree in Botany. Trestan has been with the city of Los Angeles for approximately 2 years now and is ultimately an environmentalist. Trestan makes efforts to make sure dental offices are in compliance with their permits, and make sure that they understand all the discharges to the sewer system their office generates that may cause harm to our oceans and streams. In his spare time, Trestan likes to take up gardening and take long hikes in nature with his family and 2 dogs Apollo and Louie.

(1.0 Hour)

It is at this time that the Pacific Northwest Pretreatment Workshop Planning Committee would like to ask that you consider the 2023 Pacific Northwest Pretreatment Workshop eligibility for 2.0 CEU's. We are offering 20 hours of instruction and have enclosed paid on line;

10.0 Hours	\$ 75
<u>10.0 Hours (@\$10/hr)</u>	<u>\$ 100</u>
	\$ 175

If there are any questions about the Pacific Northwest Pretreatment Workshop, please contact Patrick Bryan at (559) 940-5270 or at pbryan@pprc.org. Thank you again.

Sincerely,

Patrick Bryan

Patrick Bryan, PNPW Planning Committee

Attached: Workshop Agenda Speaker Biography (separate PDFs)



2023 Pacific Northwest Pretreatment Workshop

November 6, 7 & 8, 2023

Workshop Agenda *(subject to change)*

Monday - November 6, 2023			Tuesday - November 7, 2023			Wednesday - November 8, 2023		
Time	Sect.	Session Title	Time	Sect.	Session Title	Time	Sect.	Session Title
8:00 - 8:15		Welcome, Opening Announcements	8:00 - 8:15		Opening Announcements	8:00 - 8:15		Opening Announcements
8:15 - 9:00	1	<u>EPA Update</u> US Environmental Protection Agency Representative	8:15 - 9:00	9	TOPIC TBD Angela Walker, Brunswick - Glynn County Joint Water & Sewer Commission	8:15 - 9:15	17	PFAS Communicating about PFAS While Maintaining Public Trust Libby Barg Bakke and
9:00 - 10:00	2	How Pre-treatment Intersect and supports One Water Goals Michael Simpson, Principal Environmental Engineer, Pre-Treatment Manager	9:00 - 10:00	10	'PFAS Sampling and Analytical Considerations and the Next Frontier Taryn McKnight, Eurofins	9:15 - 10:00	18	PFAS and Emerging Pollutants David James
10:00 - 10:15		BREAK	10:00 - 10:15		BREAK	10:00 - 10:15		BREAK
10:15 - 11:00	3	A Loaded Question: How do we develop mass-based local limits? Elizabeth Toot-Levy, Geo Syntec Consultants	10:15 - 11:00	11	State Updates / WA - OR - ID Maia Hoffman, WA Department of Ecology, Genet B, Terry Alber	10:15 - 11:00	19	EcoBiz Fran Gilliland
11:00 - 12:00	4	POTW Criminal Case Study Eric Martenson, EPA Criminal Investigation Division	11:00 - 12:00	12	Clean Sampling ALS	11:00 - 12:00	20	Amalgam Waste Management Trestan Fairweather

12:00 - 1:00		LUNCH	12:00 - 1:00		LUNCH	12:00 - 12:15		Workshop Wrap-Up
1:00 - 2:00	5	PFAS Update Kevin Masterson TBD	1:00 - 2:00	13	Sampling, Monitoring and Pretreatment Perfection Morgan Crowell, SWIFT Comply			
2:00 - 3:00	6	NELAC - Benefits of field quality systems John Mormon TBD	2:00 - 3:00	14	Wipes Frank Dick			
3:00 - 3:15		BREAK	3:00 - 3:15		BREAK			
3:15 - 4:00	7	Data Integrity Ethics Silvia Labie	3:15 - 4:15	15	Round Table Discussion Table Topics Announced at Workshop Topics FOG, PFAS, MMP, Dental, Emerging Pollutants, Wipes, Food trucks, Incentive programs			
4:00 - 5:00	8	Topic, TBD Jason Flowers, Geo Syntec	4:15 - 5:00	16	Round Table Discussion Table Topics Continued			

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<p>Presentation Title & Abstract:</p>	<p>PFAS While Maintaining Public Trust, In an effort to address PFAS early on, some states are looking at PFAS limits for drinking water as well as land applied biosolids. We will also examine the potential impact of PFAS on the beneficial use of biosolids in agriculture and other reuse options based on the latest data and research. Finally, the webinar will review upcoming studies related to PFAS in biosolids and how to stay up-to-date on these efforts, and potential technologies that can address emerging contaminants such as PFAS.</p>
<p>Name & Title</p>	<p>Libby Barg Bakke Technology Integration Lead</p>
<p>Employer</p>	<p>Carollo Engineers</p>
<p>Address</p>	<p>3150 Bristol St. Suite 500, Costa Mesa, CA 92626</p>
<p>Phone & Fax</p>	<p>714-593-5100</p>
<p>e-mail Address</p>	<p>libby.bakke@consoreng.com</p>
<p># years in field</p>	<p>10</p>
<p align="center">Professional Association Memberships</p>	
<p>Water Environment Federation (WEF); WEF Residuals and Biosolids Committee; WEF RBC Solids Separation Subcommittee (Past Chair); WEF RBC Bioenergy Subcommittee</p>	

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Education (degree)	School Name	Year
BS – Civil and Env. Engineering	Univ. of California, Davis	1999
Work History	Company	Year

Other Biographical Information (Interests, Hobbies, etc.)

Water for People; adopting difficult-to-place/senior dogs

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Biographical Information


Speaker biographical information will be used by the Conference Planning Committee to apply for conference Continuing Educational Units (CEU) certification. Biographical information may also be used during speaker introductions. Please e-mail this information to Ken Grimm at keng@pprc.gov before **October 1, 2023**. If you have any questions, you may contact your PNPW sponsor.

Name & Title	Eric Martenson Resident Agent in Charge EPA-CID will give a presentation on a plating shop that was discharging to an approved POTW in violation of pretreatment standards after employees tried to fool inspectors with non-functioning equipment. The plating shop's owner also made multiple false statements in an attempt to illegally dispose of hazardous wastes as non-hazardous waste in order to save money.	
Employer	Environmental Protection Agency – Criminal Investigation Division	
Address	Portland, OR	
Phone & Fax	503 326 3275	
e-mail Address	Martenson.eric@epa.gov	
# years in field	14	
Professional Association Memberships		
Education (degree)	School Name	Year

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B.S.	US Coast Guard Academy	1997
Work History	Company	Year
	US Coast Guard – Active Duty	1993-2002
	US Coast Guard – Reserve	2003-Present
	US EPA	2002-Present
Other Biographical Information (Interests, Hobbies, etc.)		
- Youth Sports Coach		
- Active Hiker and Skier		
- Enjoys walking his three dogs		

Education (degree)	School Name	Year
None	Thomas Edison University	2014
	Northern Arizona University	2012
Work History	Company	Year
	Clean Water Services	2016 - Present
	City of Maupin	2014
	Grand Canyon National Park- AZ	2011
Pacific Northwest Pretreatment Workshop September 12, 13, and 14, 2022		

	Kellogg Brown and Root- Iraq	2010
	City of Azle-Texas	2008
Other Biographical Information (Interests, Hobbies, etc.)		

Pacific Northwest Pretreatment Workshop September 12 -14, 2022		
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Presentation and Biographical Information

Presentation and Speaker biographical information will be used by the Conference Planning Committee to apply for conference Continuing Educational Units (CEU) certification. Biographical information may also be used during speaker introductions. Please e-mail this information to **Ken Grimm** at keng@pprc.org before **October 1, 2023**. If you have any questions, you may contact your PNPW sponsor.

Presentation Title & Abstract:	Implementing and Updating Enforcement Response Plans This presentation will focus on helping sewer agency's pretreatment staff to craft an enforceable and legally defensible enforcement response plan.	
Name & Title	Al Garcia – Pretreatment Coordinator	
Employer	EPA Region 8	
Address	1595 Wynkoop	
Phone & Fax	303.312.6382	
e-mail Address	garcia.al@epa.gov	
# years in field	24	
Professional Association Memberships		
Education (degree)	School Name	Year
Bachelor of Science degree	U. of Northern Colorado	
Work History	Company	Year
	Littleton Englewood Pretreatment Program	1995 to 2007
	EPA Region 8 Pretreatment Coordinator	2008 to present
Other Biographical Information (Interests, Hobbies, etc.)		
Music, Mountain biking, snowboarding, other sports and life activities where you crash hard		

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<p>Presentation Title & Abstract:</p>	<p>PFAS Sampling and Analytical Considerations and the Next Frontier</p> <p>The chemistry of PFAS is unique and challenging and the regulatory approach to addressing PFAS is rapidly evolving. There is currently no consensus on a best analytical method for all matrices or all PFAS, but a multitude of varying approaches. This soup of non-standard methods and emerging analytical approaches has left stakeholders with the challenging job of navigating the options that will best meet their objectives. In addition to the analytical challenges, with their widespread distribution and target detection limits in parts per trillion (ppt), there is heightened concern regarding the potential for sample contamination during sampling.</p> <p>This presentation will begin with a look at some of the regulatory drivers and then review what is being utilized today, from standard and draft methods to user-defined techniques, to comply with these regulations. This discussion will also include available guidance and research studies addressing the concerns around sample collection protocols.</p>
<p>Name & Title</p>	<p>Taryn McKnight, PFAS Practice Leader</p>
<p>Employer</p>	<p>Eurofins</p>
<p>Address</p>	<p>880 Riverside Parkway, West Sacramento, CA 95630</p>
<p>Phone & Fax</p>	<p>916-347-6815</p>
<p>e-mail Address</p>	<p>Taryn.mcknight@et.eurofinsus.com</p>

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# years in field	22	
Professional Association Memberships		
A&WMA, NGWA, ASTM, ITRC		
Education (degree)	School Name	Year
AA Biology	Mesa College	2000
Work History	Company	Year

Other Biographical Information (Interests, Hobbies, etc.)		
I taught myself how to quilt during the first few months of the pandemic when we couldn't leave our houses, something I don't think I would have ever found the time to do until I was retired!		

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<p>Presentation Title & Abstract:</p>	<p>You Won't Get There without us! How Pre-treatment Intersect and supports One Water Goals</p> <p>A 2022 WRF Report detailed the evolution of the pretreatment program in the fifty plus years since the passing of the Clean Water Act in 1972. Increasingly pretreatment programs are exceeding the original goals of protecting POTW from pass-through or interference from pollutants; their focus now includes sustainability, community resilience, beneficial reuse, and one water. In this presentation, we will discussed LASAN shifting focus to include One Water, Environmental Justice, Economic Development, and other green initiatives in their pretreatment program planning. This presentation will outline how the LASAN's pretreatment program is driving sustainable water management and a one water future for the City of Los Angeles.</p>
<p>Name & Title</p>	<p>Michael Simpson, Principal Environmental Engineer, Pre-Treatment Manager</p>
<p>teEmployer</p>	<p>LASAN and Environment</p>
<p>Address</p>	<p>2714 Media Center Drive , Los Angeles Ca</p>

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Phone & Fax	323-342-6047, 3233426111	
e-mail Address	Michael.Simpson@lacity.org	
# years in field	25 yrs	
Professional Association Memberships		
California Water Environmental Association		
National Society of Professional Engineer		
Board Member for National Stewardship Action Foundation		
National Society of Black Engineers		
Education (degree)	School Name	Year
Civil Engineering	Cal-Poly Pomona	1984
Work History	Company	Year
Pre-Treatment Manager	LASAN	25 yrs
Other Biographical Information (Interests, Hobbies, etc.)		
<i>Interest in gardening, jazz music, circular economy and biomimicry.</i>		

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Presentation Title & Abstract:	1. Washington state pretreatment update	
Name & Title	Maia Hoffman, P.E., Statewide Pretreatment Lead	
Employer	Washington State Department of Ecology	
Address	15700 Dayton Ave N, Shoreline, WA 98133 (physical) PO Box 330316, Shoreline, WA 98133-9716 (mailing)	
Phone & Fax	(425) 507-5681	
e-mail Address	maia.hoffman@ecy.wa.gov	
# years in field	8	
Professional Association Memberships		
Education (degree)	School Name	Year
Bachelor of Science; Chemical Engineering	University of Pittsburgh	2014

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Work History	Company	Year
Environmental Engineer	General Motors	2015-2017
Environmental Engineer (municipal facility permit manager (2 years); pretreatment (4 years))	Ecology	2017-present
Other Biographical Information (Interests, Hobbies, etc.)		
Enjoys hiking and skiing in the mountains, gardening, and spending time with family		

Presentation and Biographical Information

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Presentation Title & Abstract:	Oregon's EcoBiz Program and How Green Business Certification Programs Can Work with Pretreatment Programs.	
Name & Title	Frances Gilliland, Associate Director	
Employer	Pacific Northwest Pollution Prevention Resource Center	
Address	8620 Holly Drive, Suite 250, Everett, WA 98208	
Phone & Fax	(805) 705-1686	
e-mail Address	fgilliland@pprc.org	
# years in field	30+	
Professional Association Memberships		
Certified TRUE Zero Waste Advisor		
Education (degree)	School Name	Year
Bachelors degree in Environmental Science	University of California, Santa Barbara	
Work History	Company	Year
Air Quality Specialist	Santa Barbara County Air Pollution Control District, Santa Barbara, CA	

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Principal/Owner	Gilliland Environmental	
Program Director	Green Business Program of Santa Barbara County	
Associate Director	Pacific Northwest Pollution Prevention Resource Center	
Other Biographical Information (Interests, Hobbies, etc.)		
Hiking, traveling, cooking, spending time with family, and volunteering in my community as a Rotarian.		

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Presentation Title & Abstract:	POTW Criminal Case Study	
Name & Title	Eric Martenson	
Employer	EPA Criminal Investigation Division	
Address	805 SW Broadway, Portland, OR 97205	
Phone & Fax	503 326 3275	
e-mail Address	martenson.eric@epa.gov	
# years in field	22	
Professional Association Memberships		
Education (degree)		
School Name		Year
B.S. Government	US Coast Guard Academy	1997

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Work History	Company	Year
Officer	US Coast Guard	1997-2002
Reserve Officer	US Coast Guard	2003-2020
Special Agent	US EPA	2002-Present
Other Biographical Information (Interests, Hobbies, etc.)		
Enjoys football season, grilling, skiing, and fly fishing.		

Presentation and Biographical Information

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Presentation Title & Abstract:	<p>A Loaded Question: How do we develop mass-based local limits?</p> <p>Abstract: Concentration based local limits (whether they are based on uniform flow or contributory flow) are often preferred by local control authorities for ease of program management. However, many POTWs are finding that allocating local limits based on mass can results in more achievable local limits for industrial users that may struggle to meet a uniform concentration limit while still providing protection for the POTW. This presentation will review the federal pretreatment regulations and guidance as they relate to the development of local limits and walk through the calculation framework for developing mass-based allocations. The presentation will then provide case studies illustrating examples of where mass-based local limits have been developed and are currently being utilized.</p>	
Name & Title	Elizabeth Toot-Levy	
Employer	Geosyntec Consultants	
Address	500 West Wilson Bridge, Columbus, Ohio 43085	
Phone & Fax	440-227-9181 (cell)	
e-mail Address	etootlevy@geosyntec.com	
# years in field	22	
Professional Association Memberships		
Ohio Water Environment Association (OWEA)		
Appointed Chair of OWEA Government and Regulatory Affairs Committee		
National Association of Clean Water Agencies (NACWA)		
Education (degree)	School Name	Year
MA Environmental Studies	Cleveland State University	2009

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BA Water Resources Biology and Environmental Science	Heidelberg University	2001
Work History	Company	Year
Scientist	Geosyntec Consultants	2015 - Present
Environmental Specialist	Northeast Ohio Regional Sewer District	2001 - 2015

Other Biographical Information (Interests, Hobbies, etc.)

Elizabeth (Beth) Toot-Levy is a senior scientist with Geosyntec Consultants where her practice focuses on Clean Water Act Compliance. She began her Industrial Pretreatment Program career in 2001 working as an Investigator in the Water Quality and Industrial Surveillance at the Northeast Ohio Regional Sewer District, the largest wastewater utility in the state of Ohio. In addition to conducting annual inspections at the numerous industrial users, she was also responsible for developing and implementing the District's mercury program addressing nearly 500 dental facilities, 10 hospitals, numerous schools, and households that had mercury containing devices. After 14 years at the District, she joined Geosyntec and has been instrumental in the growth of Geosyntec's industrial pretreatment practices. She works with municipal clients to develop or update their pretreatment programs, from revising sewer use ordinances to calculating local limits and developing industrial user permitting programs. Recently she has been assisting municipalities to incorporate growing industries such as EV batteries and microchip manufacturers into their programs. She also supports Geosyntec's industrial clients with compliance with municipal pretreatment programs.

Beth has recently been awarded the state of Ohio's F.H.Waring award for her contributions to the industrial pretreatment programs in Ohio.

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Presentation and Biographical Information

Presentation and Speaker biographical information will be used by the Conference Planning Committee to apply for conference Continuing Educational Units (CEU) certification. Biographical information may also be used during speaker introductions. Please e-mail this information to **Ken Grimm**, kgrimm@pprc.org or Patrick Bryan, pbryan@pprc.org. If you have any questions, you may contact your PNPW sponsor.

<p>Presentation Title :</p> <p>Abstract:</p>	<p>Legacy of a manufacturing facility and the unknown dangers to pretreatment inspectors</p> <p>Industrial manufacturing and the demands for products adds additional responsibilities to wastewater treatment personnel. On top of these additional responsibilities, the various types of water pollution from the waste released from various sectors like industry and agriculture has greatly contributed to the need for skilled pretreatment inspectors. Therefore, the proper treatment of wastewater before disseminating it into water bodies has become indispensable to maximize the quality and quantity of potable water. Water pollution generally results from human activity, and the pollutants released mostly come from industrial dumps, sewage leakages, oil spillages, heavy metals, animal wastes, chemical wastes, eroded sediments, deforestation, littering, fertilizers, herbicides, pesticides, <i>etc.</i></p> <p>One of these industrial manufacturing facilities in Georgia has a long history of contributing complicated waste streams to the sewage treatment plant. This facility burned earlier this year and some interesting details of the environmental impacts of this one facility has left some questions concerning the safety of both pretreatment inspectors and the public. This talk will cover this facility and take a look at a few other incidents of major problems with this type of facility and the wastewater generated from these facilities.</p>
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# years in field	25 +	
Professional Association Memberships		
Pacific Northwest Pretreatment Workshop Committee		
Georgia Association of Water Professional- Women's Making Waves Committee		
WEFTEC Pretreatment Committee		
Education (degree)		
School Name		
Year		
Bach. Of Psychology	Liberty University, Virginia	2016
Juris master's in international law	Liberty University, Virginia	2018
Work History		
Company		
Year		
Pretreatment Compliance Coordinator	BGJWSC	2014-Present
Other Biographical Information (Interests, Hobbies, etc.)		
I enjoy visiting with my family and spending time in nature. I spend some of my off hours selling jewelry and makeup at various festivals and online.		

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I am currently studying to take my real estate license in Georgia. I love learning about most anything. I am an environmentalist at heart, so I work to preserve our water sources.