



09/28/2020

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

Dear CEU Committee:

As has been the case for past 27 years, the Pacific Northwest Pretreatment Workshop has brought together municipal, state, and federal wastewater and pretreatment staff from cities in Oregon, Idaho, Washington, and Alaska. The attendees (approximately 150) 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 2020 Pacific Northwest Source Control Workshop will be held as a virtual training event held as a five part webinar series on November 2nd, 5th, 9th, 11th and 16th. The following is a brief outline of the presentations for the Annual Pacific Northwest Source Control Workshop and course timelines:

Industrial Pretreatment Program Overview: Field and Administration Considerations

Al Garcia
National Pretreatment Coordinator
EPA Region 8
Denver, CO

This two part series of 1-hour presentations is intended to discuss the regulatory background of the Pretreatment program and the authority that the Pretreatment personnel to implement the field and programmatic activities of the Pretreatment program.

Pretreatment is a diverse program that requires a person to know the regulations and legal authorities while gathering expertise in the art of communicating to the public, government, and different levels and positions at industry. In addition to discussing the regulations and authority to implement the Pretreatment field and administrative activities, the presenter will provide real life and humbling stories about trying to gather expertise in the program.

(2.0 Hour)

Working Towards Compliance: Permitting a Large Brewery While Establishing a New Pretreatment Program

Stephanie Kerns
Environmental Compliance Specialist
City of Newport, OR

A look into the process that the City of Newport has been implementing to get a single large Industrial User, a brewery, into compliance while simultaneously starting a new Pretreatment Program. This is a look into the challenges and successes of dealing with a difficult industry while building a pretreatment program.

(1.0 Hour)

Effective Industrial User Site Inspections

Lisa Lucht, P.E.
Baxter and Woodman, Inc.
Chicago, IL

Unauthorized wastewater discharge from industries and other non-domestic sources can cause significant problems at wastewater treatment plants, including hazardous conditions, interference of operations, and pass-through of pollutants. Site inspections are essential to fully understand an industry's process and to correctly classify an industry for both approved and non-approved pretreatment programs. This talk's focus will present guidance from the 2017 "USEPA Industrial User Inspection and Sampling Manual for POTWs", and suggestions for key questions to ask of several industrial user types for classification and confirmation of compliance.

(1.0 Hour)

Industry Specific Inspection

Lindsay Cowles
Industrial Pretreatment Program Coordinator
Salt Lake City Corporation
Salt Lake City, UT

Conducting inspections is part art, science, communication, and a large part preparation. Inspections are a fundamental tool for evaluating user compliance with federal, state, and local pretreatment standards and regulations and help accomplish the Pretreatment Program goal of preventing pass-through and interference at POTWs. While the fundamentals of an inspection remain, the vastly different industry types and wastewater treatment processes encountered can each present a unique challenge to Pretreatment Program inspectors. This presentation highlights various categorical processes found within any sewer jurisdictions and provides some important questions to ask to help inspectors focus on specific needs of those industries and identify possible deficiencies.

(1.0 Hour)

Industrial User Classification Guidance

**Nichole Shafer,
Environmental Department Manager
Baxter and Woodman, Inc
Chicago, IL**

This presentation will provide a basic template of the steps required to sort out the classification (or not) of an industry, resources that are available to understand background and context of categorical processes, and will walk through several examples of classification to provide tools and tips that can be applied to Industrial Users in a POTW collection system.

(1.0 Hour)

Building Support for a Pretreatment Program

**Cynthia Finley, PhD
Director, Public Affairs
National Association of Clean Water Agencies
Washington, DC**

Pretreatment programs have multiple benefits for clean water utilities and their communities. Analyzing and communicating these benefits, relative to the costs, is vitally important to gaining support for a pretreatment program both within the utility and the local government. This presentation will provide perspectives of utilities from across the U.S. on the benefits of their pretreatment programs and how to build support for the programs.

(1.0 Hour)

Hazardous Waste and Pretreatment Considerations

**Frank Dick
Wastewater Engineering Supervisor
City of Vancouver, WA**

This presentation will provide a high level overview of EPA and state-level hazardous waste management regulations. Discuss relationship with those regulations with the pretreatment regulations in 40 CFR 403 and present practical implementation methods for effective monitoring and allowance for discharges into POTW.

(1.0 Hour)

A Primer on Pretreatment Technologies

Dan Parnell
Industrial Permitting Manager
City of Portland, OR

Mr. Parnell will cover common pretreatment technologies employed by industries. The presentation will provide the basic functioning of pretreatment systems as well as inspection tips for each type of technology.

(1.0 Hour)

Understanding High BOD in Food and Beverage Wastewater Characterization and Treatment Processes

Robert Smith
Western Region Sales Manager
Cambrian Innovations
Umpqua, OR

High BOD wastewater contributions from food and vegetable processing, soft drink production and bottling, alcoholic beverage manufacture, dairy operations for milk, cheese and ice cream, are often highly impactful sources of load for a municipal wastewater treatment plant. However, even though there may be a basic understanding of how some of these operations can generate high loads, there is often a dearth of specific knowledge when it comes to understanding the loads, the sources, and the impacts. With this presentation Mr. Smith intends to do a quick introduction/review of wastewater treatment, constituents and units used to measure those constituents. Then, using that as a base, will present examples of high strength contributions to a wastewater stream. The goal of the presentation will be for the audience to gain a better contextual understanding of just how great an impact these sources of load can have on a WWTP. Lastly, he will present some of the processes that are employed to treat these particular waste streams, as many of the processes are specialized toward a particular constituent or class of constituents.

(1.0 Hour)

Enhancing Pretreatment Program with Smart Utilities and Digital Solutions

Joshua Balentine
Industrial Pretreatment Program Technical Lead
Brown and Caldwell
Memphis, TN

This presentation will discuss the status quo for pretreatment programs across the country, and detail how these programs can be enhanced with digital solutions. These digital solutions include smart sensors which provide real-time and continuous analysis of water quality parameters such as BOD, TSS, COD, nutrients, and pH. This smart utility network can be expanded to serve as an early warning system for the POTW, such as detecting abnormal loadings discharged from industrial users.

(1.0 Hour)

Pretreatment Program Management Software Analysis

Betsy Hansen
Product Owner, Wastewater
SwiftComply
Portland, OR

This presentation will cover what industrial pretreatment programs are utilizing and give recommendations on when a program should be thinking about investing in software? Survey results of attendees' software usage by #CIUs, #SIUs, years as delegated program, # staff, ordinance types, and more will be used develop this presentation. Attendees will learn which aspects of pretreatment programs can be digitized and automated.

(1.0 Hour)

Milk and Beer – With a Smear of Margarine on Top

Stacey Lamar
Regional Food and Beverage Industry Lead
HDR
Boise, ID

A case-study in solutions derived from effective industrial wastewater sampling techniques. From raw material to product manufacturing to waste treatment and disposal, sampling plays an integral role in the design and operation of both the industrial facility and the receiving POTW. Creative sampling and testing techniques help accurately quantify constituents and loading for industrial waste equalization, pretreatment, and recovery facility design. These same techniques can also help troubleshoot and improve industrial and POTW operations.

(1.0 Hour)

Enforcement Case Studies

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)

Enforcement Case Study: Oregon Oils

Brittany Huls
Environmental Specialist
City of Portland, OR

Repeated interference from fats, oils, and grease at a Portland pump station launched an investigation that led to hundreds of enforcement actions and thousands in penalties.

(1.0 Hour)

The Molybdenum Search Chronicle With a Local Limits Subplot

Gene Bennett
Pretreatment Manager
City of Everett, WA

When a significant upward trend in molybdenum loading to the wastewater treatment plant caused a near violation of the biosolids limit the City had to find the source. This presentation will discuss strategies and decisions made and how this pushed the pretreatment program into doing a Local Limits study.

(1.0 Hour)

Washington's Human Health Criteria changes and Local Limits Impacts

David J. Knight, P.E.
Industrial Pretreatment Coordinator
Washington State Department of Ecology
Olympia, WA

On August 1, 2016, WDOE adopted Human Health Criteria for 192 pollutants. The next month, EPA rejected 143 of these, codifying its own more stringent criteria for WA at 40 CFR 131.45 for the rejected criteria. May 6, 2019, EPA reversed this decision, and on May 13, 2020 they rescinded all but two of the criteria applicable to Washington State. The presentation clarifies the criteria presently in force, describes how the changes apply to POTW effluents, and in turn affect local limits development and pretreatment programs. The presentation will also revisit how local limits are developed for protection against vapor toxicity and explosivity using a compound's Henry's number, vapor pressure and exposure limit criteria, and how to apply such limits.

(1.0 Hour)

Using Wastewater as a COVID-19 Surveillance Method in the Corvallis, OR Community

Tiffany Garcia
Professor
Oregon State University
Corvallis, OR

This cooperative effort between Oregon State University and the City of Corvallis samples the Corvallis sewer shed at specific locations each week to identify changes in when and where infections are detected. This is useful because fecal shedding of SARS-Cov-2 RNA can be detected in asymptomatic as well as symptomatic individuals, and shedding can occur up to 7 weeks after symptom onset. This disease monitoring tool is being used in municipalities around the world and can be paired with individual-based testing to corroborate results and expand monitoring coverage. Our spatial approach allows us to monitor sewer basins areas within the city for differences in SARS-CoV-2 detection rates, to gauge consistency in seasonal trends of detection across neighborhoods, and monitor effectiveness of COVID-19 guidelines and restrictions.

(1.0 Hour)

Michigan Industrial Pretreatment Program PFAS Initiative - Identified Industrial Sources of PFOS to Municipal Wastewater Treatment Plants

Carla Davidson, IPP Regional Specialist
Anne Tavalire, IPP PFAS Regional Specialist
Michigan Department of Environment, Great Lakes, and Energy
Lansing, MI

Michigan required 95 WWTPs with required IPPs to evaluate their industrial users as potential sources of perfluorooctane sulfonic acid (PFOS) and perfluorooctanoic acid (PFOA). The majority of significant PFOS sources to WWTPs were landfills that accepted industrial wastes containing PFOS, metal finishers with a history of fume suppressant use, and contaminated sites associated with industries or activities with PFOS usage. Other sources found included centralized waste treaters (CWTs), paper manufacturing/packaging, commercial industrial laundries, chemical manufacturers, and sewers contaminated with AFFF. Michigan has effectively worked with WWTPs that have exceeded the PFOS water quality values to implement source reduction to decrease the PFOS concentrations in the influent, effluent, and biosolids/sludge. All effective treatment has been conducted at the source rather than at the municipal WWTP.

(1.0 Hour)

Implementation of Local Limits and Other Compliance Strategies to Meet Stringent Effluent Copper and Zinc

Jay Swift, P.E.
Grey and Osborne, Inc
Seattle, WA

This presentation provides an evaluation of various means to comply with stringent WWTP effluent copper and zinc limits. Potential measures considered include: control of industrial sources through of local limits, control of corrosion in the water distribution system and household plumbing, augmentation of wastewater treatment, control of domestic sources, and development of site-specific standards.

(1.0 Hour)

On behalf of the Pacific Northwest Pollution Prevention Resource Center (PPRC), the Workshop Planning Committee would like to extend our sincere appreciation for taking the time to make our workshop a great success. For more information about our workshop, please visit our website at www.pnscta.org.

It is at this time that the Pacific Northwest Pretreatment Workshop Planning Committee would like to ask that you consider the 2020 Pacific Northwest Pretreatment Workshop eligibility for 2.0 CEU's. We are offering 20 hours of instruction and have enclosed paid online;

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 Andria Swann at 253-299-5713 or at andrias@sumnerwa.gov. Thank you again.

Determination Letter may be sent to:
City of Sumner, WA
Attention: Andria Swann, Pretreatment Coordinator
1104 Maple St,
Sumner, WA 98390

Sincerely,
Andria Swann

Andria Swann, PNPW Planning Committee Chair

- Attached: Course Brochure**
- Course Time Schedule**
- Course Agenda**
- Attendance Monitoring Standard Procedure**
- Speaker Biography (20 PDF Documents)**