

# National Pretreatment Virtual Event

## PART 1

### Pretreatment Regulatory Update: What You Need to Know Now



**The National Association of Clean Water Agencies**

May 12, 2020 | 2:00 PM - 3:30 PM EST

50 | NACWA

# Moderators



## **Frank Dick, Moderator**

*NACWA Pretreatment & Pollution  
Prevention Committee Chair*

Wastewater Engineering Supervisor  
Department of Public Works  
City of Vancouver  
Vancouver, WA



## **Kerry Britt, Moderator**

*NACWA Pretreatment & Pollution  
Prevention Committee Vice Chair*

Pretreatment Manager  
Narragansett Bay Commission  
Providence, RI

# Featured Speakers



**Jan Pickrel**

National Pretreatment Team Coordinator  
Water Permits Division  
US Environmental Protection Agency  
Washington, DC



**Phillip Flanders**

Office of Science and Technology  
US Environmental Protection Agency  
Washington, DC



**Todd Doley**

Acting Chief  
Engineering and Analytical Support Branch  
Engineering and Analysis Division  
US Environmental Protection Agency  
Washington, DC



**Jeffrey Lape**

National Program Leader for  
Water Reuse  
Office of Water  
US Environmental Protection Agency  
Washington, DC

# NACWA's Pretreatment Virtual Event: Pretreatment Regulatory Update

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JAN PICKREL , NATIONAL PRETREATMENT PROGRAM COORDINATOR  
EPA OFFICE OF WATER, OFFICE OF WASTEWATER MANAGEMENT

MAY 12, 2020



# From Covid-19 to PFAS

<https://www.epa.gov/coronavirus>



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## Coronavirus (COVID-19)

This is an emerging, rapidly evolving situation and the [Centers for Disease Control and Prevention](#) will provide updated information as it becomes available, in addition to updated guidance. This website provides key EPA resources on the coronavirus disease (COVID-19).

**NEW** [Read Joint Guidance from CDC and EPA on Cleaning and Disinfecting.](#)

**Information on  
Disinfectants**

**Information on  
Drinking Water and  
Wastewater**

### Related Resources

#### State, Local and Tribal

- [Coronavirus Resources for State, Local, and Tribal Agencies and Associations](#)
- [Frequent Questions from State, Local and Tribal Leaders about](#)

# Topics

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## CoViD-19

- Don't Flush WIPES!
- Utility Resources
- Worker Safety/ CoViD-19 in Wastewater Guidance
- Research / Webinar
- Compliance Guidance

## NPDES Updates Rule and Applications

Hazardous Waste Pharmaceuticals – Don't Flush!/Sewer Ban

CROMERR

NPDES Electronic Reporting Rule

## EPA Encourages Americans to Only Flush Toilet Paper

03/30/2020

- <https://www.epa.gov/newsreleases/epa-encourages-americans-only-flush-toilet-paper>



### Frequent Questions about Wastewater and Septic Systems and Coronavirus (COVID-19)

#### Is it okay to flush disinfecting wipes?

<https://www.epa.gov/coronavirus/it-okay-flush-disinfecting-wipes>

EPA urges Americans to only flush toilet paper. Disinfecting wipes and other items should be properly disposed of in the trash, not the toilet. These wipes and other items do not break down in sewer or septic systems and can damage your home's internal plumbing as well as local wastewater collection systems. As a result, flushing these wipes can clog your toilet and/or create sewage backups into your home or your neighborhood. Additionally, these wipes can cause significant damage to pipes, pumps, and other wastewater treatment equipment. Sewer backups can be a threat to public health and present a challenge to our water utilities by diverting resources away from the essential work being done to treat and manage our nation's wastewater. Disinfecting wipes, baby wipes, and paper towels should NEVER be flushed.

# Water Utility Resources for the COVID-19 Pandemic

<https://www.epa.gov/coronavirus/water-utility-resources-covid-19-pandemic>

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## **Water and Wastewater Agency Response Networks (WARN)**

If resource needs arise for any reason, the [Water and Wastewater Agency Response Network \(WARN\)](#) provides water and wastewater utilities with the means to quickly obtain help in the form of personnel, equipment, materials and associated services from other utilities to restore critical operations impacted during any type of emergency, big or small. Utilities can find [contact information for their WARN on each state's website](#) or can [contact EPA via email](#).

## **Emergency Management Assistance Compact (EMAC)**

EMAC is the only congressionally ratified mutual aid & assistance compact between all 50 states plus the D.C., the U.S.V.I., Puerto Rico and Guam. EMAC allows states to send personnel, equipment and commodities to other states to help during governor-declared states of emergency. [View additional information on EMAC and how it can support utilities.](#)

## **U.S. Department of Agriculture (USDA) Circuit-Rider Program**

USDA funds Circuit Riders to respond to natural disasters and emergencies in the regular line of duty. Under this program, certified Circuit Riders can be deployed to provide technical assistance and expertise to support systems in need, including providing temporary operational assistance. The EPA will work with USDA, states, and systems to connect small systems to this resource. Water systems must be eligible for USDA funding in order to receive assistance. [Learn more about circuit riders.](#)

## **Water Sector Technical Assistance Programs**

Organizations such as the [National Rural Water Program \(NRWA\) EXIT](#) and the [Rural Community Assistance Partnership \(RCAP\) EXIT](#) may be able to provide technical assistance through water and wastewater Circuit Riders that may work onsite with utility system personnel to troubleshoot problems and respond to natural disasters and other emergencies. They may not be able to provide extended coverage but may be available to assist as necessary.

# Frequent Questions about Wastewater and Septic Systems and Coronavirus (COVID-19) POTW Worker Safety

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Can the COVID-19 Virus Spread through Sewerage Systems?

Is the virus that causes CoVID-19 found in feces?

Will my septic system treat COVID-19?

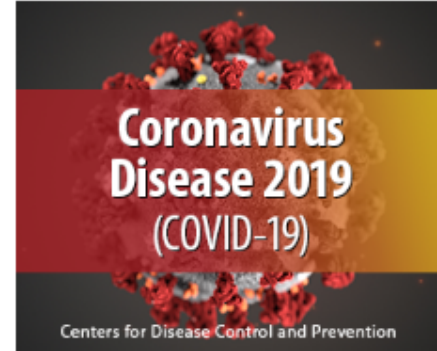
Do wastewater treatment plants treat COVID-19?

Can I get COVID-19 from wastewater or sewage?

Should wastewater workers take extra precautions to protect themselves from the virus that causes COVID-19?



# EPA Research on SARS-CoV-2 in the Environment Webinar: May 27, 2-3pm



This webinar will highlight research EPA is working on with CDC including the following:

**Environmental Cleanup and Disinfection:** EPA researchers are assessing the use of disinfectants on many different surfaces and objects. They will also determine the best environmental sample collection methods and the limits of detection for SARS-CoV-2. To determine the effectiveness of these approaches, researchers are also developing a method to quickly analyze surface samples for the live virus, both before and after the disinfection process. Strategies to decontaminate PPE will also be developed.

**Wastewater Virus Detection:** Researchers are studying whether SARS-CoV-2 can be detected in wastewater. This work will focus on understanding viral loads, or how much of the virus is present, whether it is in an infectious state, and how it moves through the wastewater system. This information could help public health agencies by acting as an 'early warning system' and can identify if there is an outbreak in a specific community.

**Salivary Antibody Assay Development:** Researchers are developing an easy, non-invasive, and reliable antibody assay as a tool for public health agencies to help determine the true rate of infection across the country.

To Register: <https://www.epa.gov/healthresearch/research-covid-19-environment>

# CoViD-19 Compliance Considerations

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Memorandum Dated: March 26, 2020:

## **“COVID-19 Implications for EPAs Enforcement and Compliance Assurance Program”**

From: Susan Parker Bodine

To: All Governmental and Private Sector Partners

### ["Temporary Enforcement Policy"]

1. Entities should make every effort to comply with their environmental compliance obligations.
  2. If compliance is not reasonably practicable, facilities with environmental compliance obligations should:
    - a. Act responsibly under the circumstances in order to minimize the effects and duration of any noncompliance caused by COVID-19;
    - b. Identify the specific nature and dates of the noncompliance;
    - c. Identify how COVID-19 was the cause of the noncompliance, and the decisions and actions taken in response, including best efforts to comply and steps taken to come into compliance at the earliest opportunity;
    - d. Return to compliance as soon as possible; and
    - e. Document the information, action, or condition specified in a. through d.
- Temporary Advisory for NPDES Reporting in Response to COVID-19 Pandemic
  - Frequent Questions About the Temporary COVID-19 Enforcement Policy

## **Pandemic Incident Action Checklist**



# Water Infrastructure Improvement Act

**Public Law No: 115-436 (01/14/2019)**

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Amends the Clean Water Act to allow municipalities to develop a plan that integrates wastewater and stormwater management

NPDES Permit may incorporate the integrated plan, including requirements related to CSOs, SSCS, TMDLs, green infrastructure, and **projects to reclaim, recycle, or reuse water**

Establishes Office of the Municipal Ombudsman in EPA, to provide:

- Technical assistance to municipalities seeking to comply with the CWA
- Information to EPA to ensure policies are implemented
- <https://www.epa.gov/ocir/municipal-ombudsman>
- Introducing: **Jamie Piziali, Municipal Ombudsman**



# NPDES Applications and Program Updates Rule

Focus: Eliminate inconsistencies between regulations and application forms

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Final Rule Published: Federal Register on February 12, 2019, 84 FR 3324

Effective: **June 12, 2019**

Changes to: 40 CFR 122, 124, 125

40 CFR 122.21 – NPDES Application form contents



<https://www.epa.gov/npdes/npdes-applications-and-forms>

# Management Standards for Hazardous Waste Pharmaceuticals and Amendment to the P075 Listing for Nicotine, 84 FR 5816

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Federal Register: 02/22/2019

**Rule Effective Date: 08/21/2019**

Rulemaking affected the following CFR parts:

- [40 CFR Part 261-265](#)
- [40 CFR Part 268](#)
- [40 CFR Part 270](#)
- [40 CFR Part 273](#)
- [40 CFR Part 266](#)



[Webinar archived on March 4, 2019](#)

<https://www.epa.gov/hwgenerators/final-rule-management-standards-hazardous-waste-pharmaceuticals-and-amendment-p075>

# Management Standards for Hazardous Waste Pharmaceuticals

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40 CFR 261.4(a)(2)(ii) and 40 CFR 266.505: **Sewer Ban**

## **§ 266.505 Prohibition of sewerage hazardous waste pharmaceuticals.**

*All healthcare facilities—including very small quantity generators operating under § 262.14 in lieu of this subpart—and reverse distributors are prohibited from discharging hazardous waste pharmaceuticals to a sewer system that passes through to a publicly-owned treatment works. Healthcare facilities and reverse distributors remain subject to the prohibitions in 40 CFR 403.5(b)(1).*

**Healthcare facilities and pharmaceutical reverse distributors** are banned from sewerage **hazardous waste pharmaceuticals**

*Terms defined in 40 CFR 266.500*

# CROMERR = CROss Media Electronic Reporting Rule

Guidance issued May 2018

[https://www.epa.gov/sites/production/files/2018-05/documents/cromerr\\_potw\\_1.pdf](https://www.epa.gov/sites/production/files/2018-05/documents/cromerr_potw_1.pdf)

“Roles and Responsibilities: POTW Pretreatment Program” . . . *for POTWs that want to receive reports from their Industrial Users*

- Verify Legal Validity of Electronic Signatures
- Prepare CROMERR System Documentation, If Needed
- Review and Update Pretreatment Program Requirements

The screenshot shows a document from the EPA titled "Publicly-Owned Pretreatment Works (POTW) Programs and Electronic Reporting". It includes sections for "EPA Pretreatment Program", "EPA Cross-Media Electronic Reporting Rule (CROMERR)", and "Is My Electronic Reporting Subject to CROMERR?". The document outlines the process for POTW Pretreatment Programs to obtain approval for CROMERR-subject electronic reporting and provides a table of contents with links to various sections.

**EPA Pretreatment Program**  
Under the authority of the Clean Water Act (CWA), the Pretreatment Program regulates pollutants from industrial and commercial sources that discharge into locally managed sewer systems.

**For General Information:**  
[www.epa.gov/npdes/pretreatment](http://www.epa.gov/npdes/pretreatment)

**For e-Reporting Inquiries:**  
[CromerrPOTWrequest@epa.gov](mailto:CromerrPOTWrequest@epa.gov)

**EPA Cross-Media Electronic Reporting Rule (CROMERR)**  
CROMERR provides the legal framework for electronic reporting under EPA's regulatory programs. The Rule sets performance-based, technology-neutral system standards to ensure the enforceability of regulatory information collected electronically.

**For General Information:**  
[www.epa.gov/cromerr/](http://www.epa.gov/cromerr/)

**For e-Reporting Inquiries:**  
[cromerr@epa.gov](mailto:cromerr@epa.gov)

**Publicly-Owned Pretreatment Works (POTW) Programs and Electronic Reporting**

This document outlines the process that Pretreatment Authorities<sup>1</sup> should follow when seeking to ensure their electronic reporting plans are compliant with Cross-Media Electronic Reporting Rule (CROMERR) standards as well as applicable Pretreatment Program requirements.

**Table of Contents**

- [Is My Electronic Reporting Subject to CROMERR?](#)
- [Background: CROMERR Application and Approval](#)
- [Overview: CROMERR Electronic Reporting Standards and Pretreatment Program Requirements](#)
- [Steps for POTW Pretreatment Programs to Obtain Approval for CROMERR-subject Electronic Reporting](#)
- [Roles and Responsibilities: POTW Pretreatment Program](#)
- [Roles and Responsibilities: EPA CROMERR Program](#)
- [Roles and Responsibilities: EPA or Approved State Pretreatment Program Approval Authority](#)
- [Definitions](#)

**Is My Electronic Reporting Subject to CROMERR?**

CROMERR applies if:

- you receive submissions electronically from regulated facilities,
- those submissions are requirements of an EPA-authorized program, and
- electronic submissions are accepted in lieu of paper submissions.

EPA developed a [chart to help states, tribes, and local governments determine if CROMERR applies to their electronic reporting system](#).

It is also important to note that attaching reports to emails is not considered to be CROMERR-compliant because it fails to meet numerous CROMERR requirements. This is true regardless of how the document is signed. However, CROMERR does not prevent programs from receiving non-CROMERR compliant regulatory data submissions by email as a "courtesy" copy, so long as paper-based records of this data are separately retained as the legal copy of record.

<sup>1</sup> EPA, Approved State Pretreatment Programs, and Approved Publicly Owned Treatment Works (POTW) Pretreatment Programs

May 2018 1 OFFICE OF WATER OFFICE OF ENVIRONMENTAL INFORMATION

# NPDES Electronic Reporting Rule: 40 CFR 127

NPDES programs submit NPDES program data to EPA (data they collect and generate, such as inspections and enforcement actions).

DMRs reporting began Dec. 21, 2016  
Biosolids reporting began Feb. 19, 2017

Pretreatment Annual Reports to begin reporting electronically December 21, 2020 ??\*

\*NPDES Electronic Reporting Rule –Phase 2 Extension

<https://www.federalregister.gov/documents/2020/02/28/2020-02889/npdes-electronic-reporting-rule-phase-2-extension>





# Contact Information:

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Jan Pickrel

[Pickrel.jan@epa.gov](mailto:Pickrel.jan@epa.gov)







# Update: Effluent Guidelines Program and Planning

U.S. EPA, Office of Water, Engineering and Analysis Division

Phillip Flanders, Ph.D., P.E., ELG Planning Team Lead

[flanders.phillip@epa.gov](mailto:flanders.phillip@epa.gov)

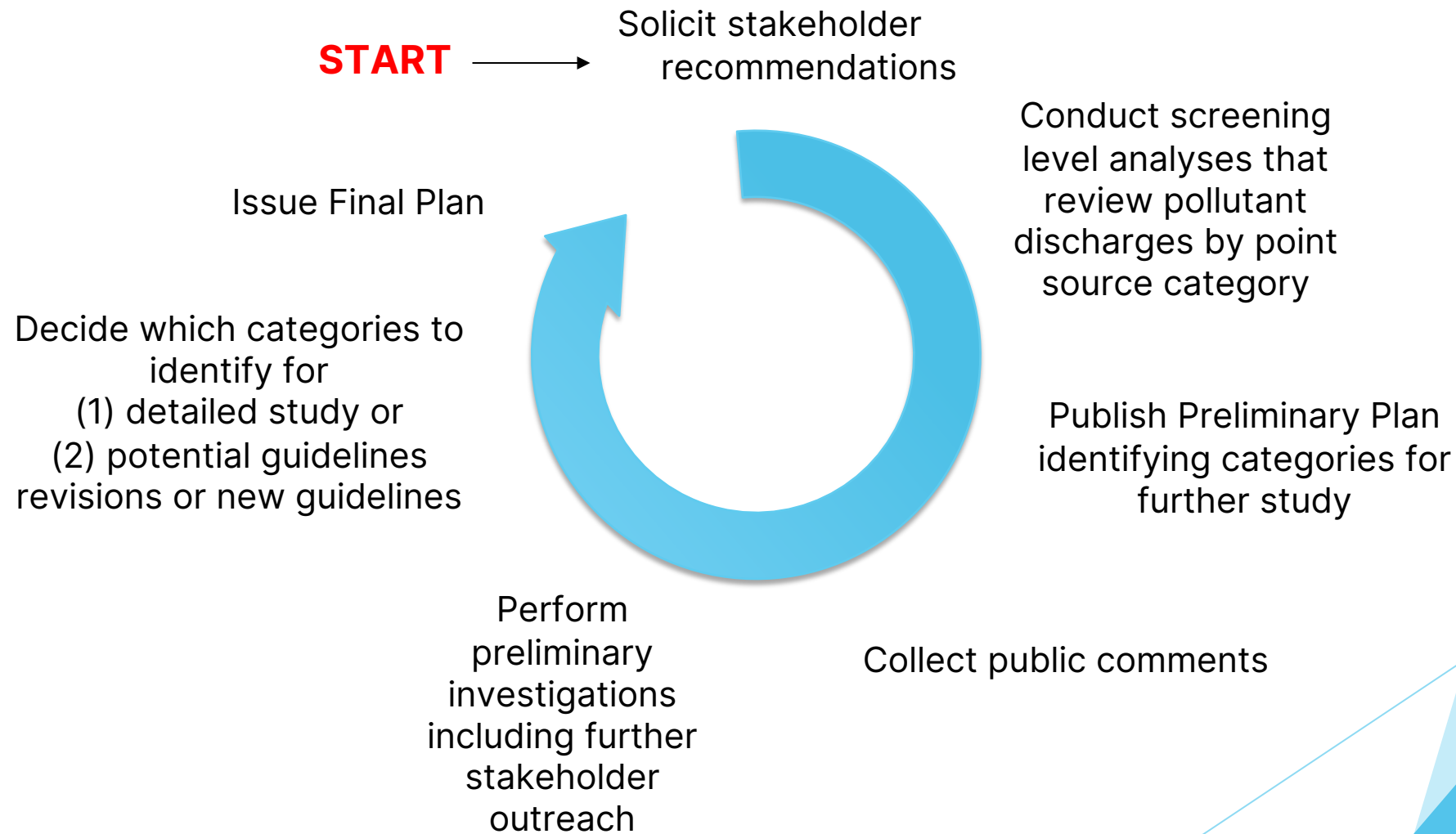
May 12, 2020

# What is Effluent Guidelines Planning?

- The 1987 Clean Water Act Amendments added Section 304(m), which re-enforced Congress' intent that effluent guidelines keep pace with pollution prevention and treatment technology
- EPA must review all promulgated effluent guidelines annually
- Every other year: after proposal and public comment, EPA must publish a plan for the guidelines program which:
  - Identifies and establishes a schedule for any effluent guidelines revisions that have been identified
  - Identifies any industries not currently subject to effluent guidelines that discharge nontrivial amounts of toxics and establishes a schedule to take final action

***We call these Effluent Guidelines Programs Plans***

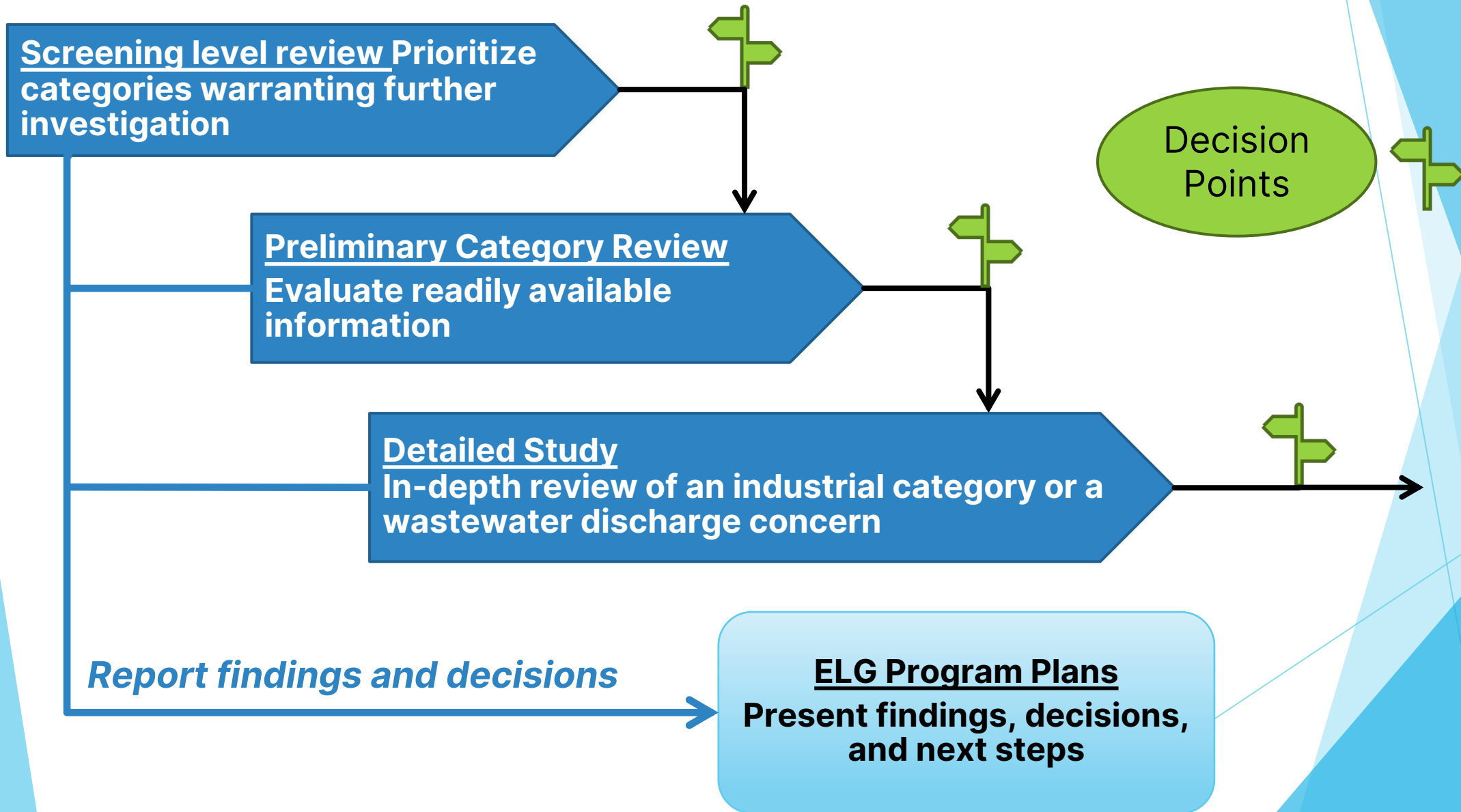
# Review & Planning Process



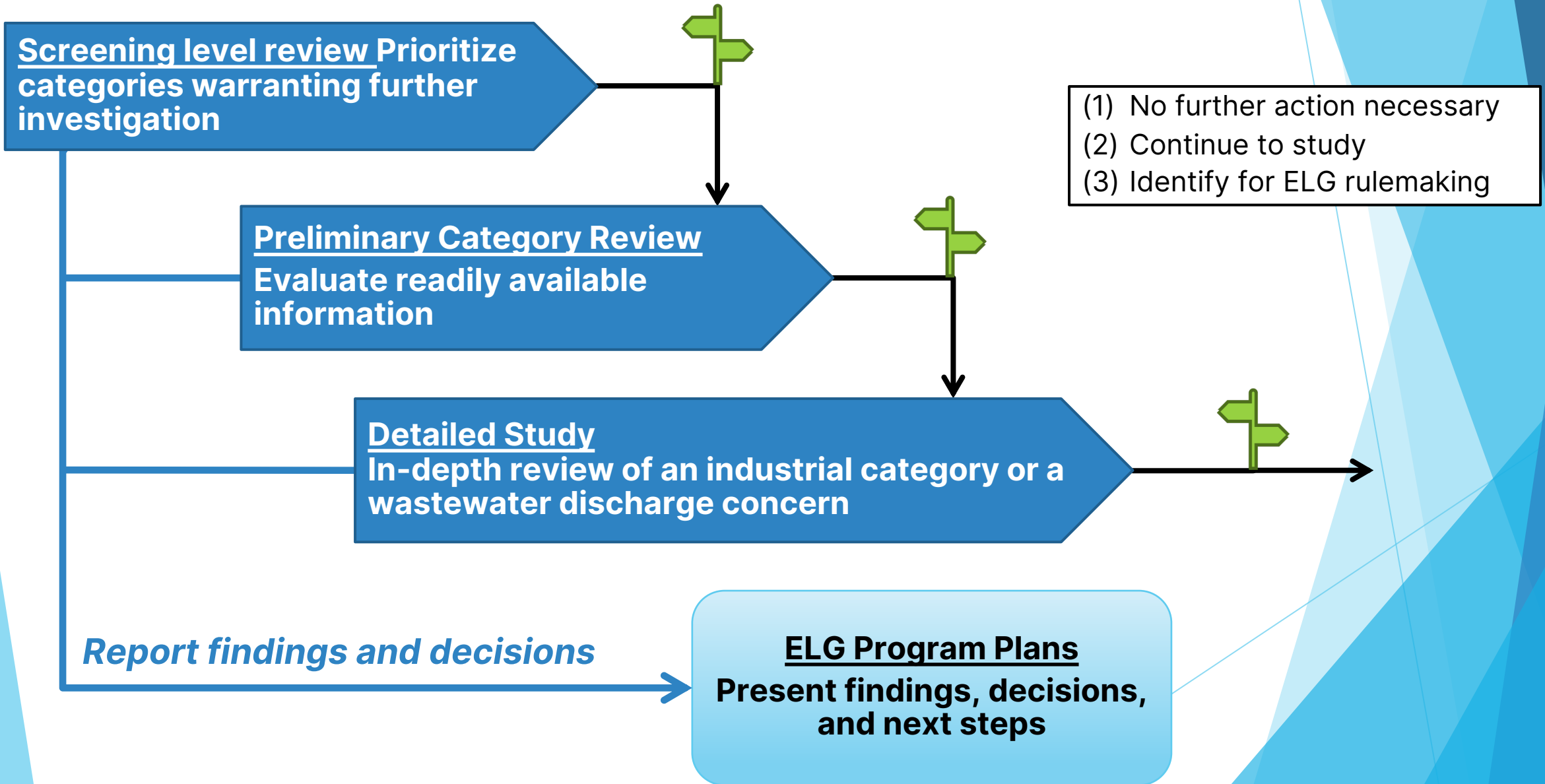
# Outreach is important!



# Review of Existing Effluent Guidelines:

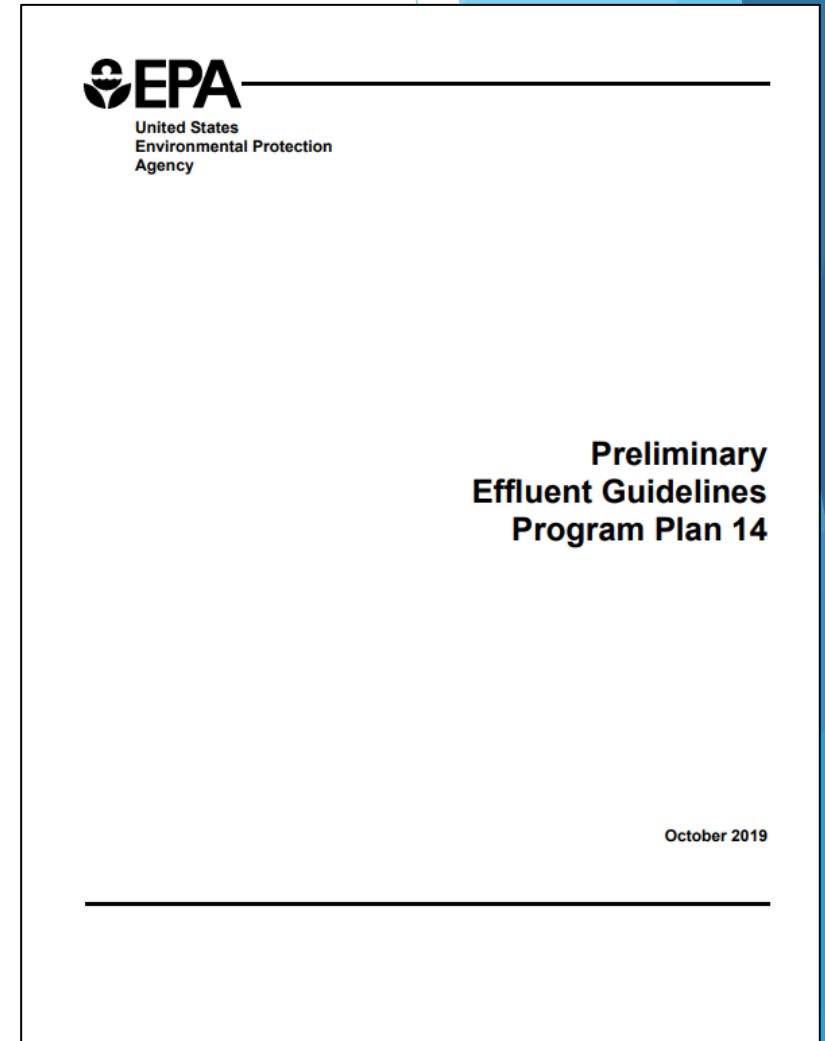


# Review of Existing Effluent Guidelines:



# Preliminary ELG Program Plan 14

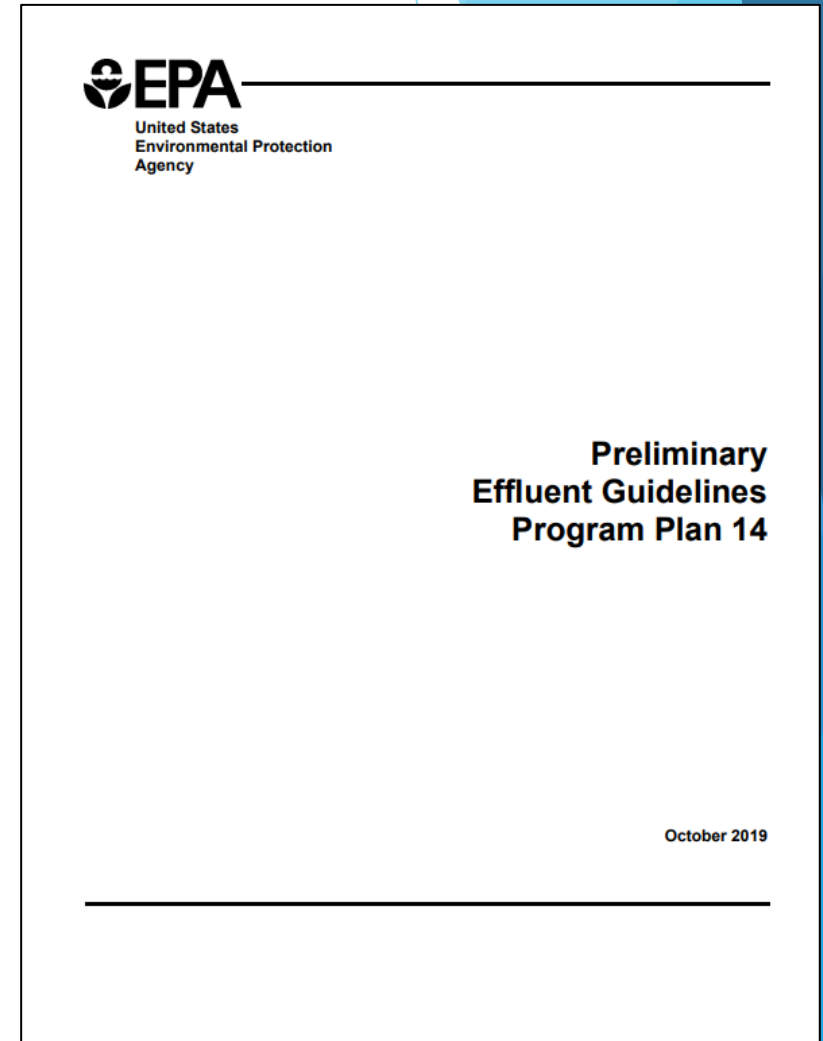
- ▶ Where we are in the planning cycle:
- ▶ Preliminary Effluent Guidelines Program Plan 14
  - ▶ Published in the FR on October 24, 2019
  - ▶ The comment period ended on November 25, 2019
- ▶ Note: We simplified the naming convention:
  - ▶ The most recently published plan was the Final 2016 Plan and was the 13th that EPA has published,
  - ▶ Thus this is plan the 14th plan.
- ▶ Preliminary Plan 14 discussed:
  - ▶ Ongoing rulemaking
  - ▶ Reviews of Industrial Wastewater Treatment Technology
  - ▶ Updates on ongoing studies





# Ongoing ELG Rulemaking

- ▶ Revisions to the Steam Electric Power Generating Effluent Guidelines
  - ▶ Proposed rule published in the FR on November 24, 2019
  - ▶ The comment period ended on January 21, 2020
  - ▶ EPA proposed to reconsider limitations for
    - ▶ Flue gas desulphurization wastewater
    - ▶ Bottom ash transport water
  - ▶ EPA intends to publish a final rule in 2020
- ▶ No other categories warrant revisions or new ELGs at this time.



# Reviews of Industrial Wastewater Treatment Technology

- ▶ Effluent Limitations Guidelines Database
  - ▶ Will allow users to search the regulations for a specific point source category or compare ELG regulations.
- ▶ Nutrient Review
  - ▶ This is a cross-industry review of DMR and TRI data on nutrient discharges
  - ▶ Additional review on nutrient discharges of:
    - ▶ Pulp and Paper
    - ▶ Meat and Poultry Products
- ▶ Per- and Polyfluoroalkyl Substance (PFAS) Review
  - ▶ Multi-Industry study on PFAS surface water discharges.
  - ▶ EPA plans to conduct a detailed study focusing on airports, organic chemical manufacturers, paper and paperboard manufacturers, and textiles and carpet manufacturers.
  - ▶ Announced in EPA's PFAS action plan.



## **Preliminary Effluent Guidelines Program Plan 14**

October 2019

# Reviews of Industrial Wastewater Treatment Technology

- ▶ Industrial Wastewater Treatment Technology Database (IWTT)
  - ▶ [www.epa.gov/iwtt](http://www.epa.gov/iwtt)
- ▶ Industrial Wastewater Treatment Technology Reviews
  - ▶ A new technology review methodology to gather information earlier in its screening process on industrial wastewater treatment technology capabilities.
- ▶ Economic Screening Analysis
  - ▶ A screening-level prioritization based on economic factors of three industrial sectors: manufacturing, mining, and utilities.



## **Preliminary Effluent Guidelines Program Plan 14**

October 2019

# Updates on Ongoing Studies

- ▶ Detailed Study of the Petroleum Refining Category
  - ▶ This study evaluated the discharges associated with Petroleum refining. Program Plan 14 announced EPA is concluding the study.
- ▶ Detailed Study of the Electronics and Electrical Components Category
  - ▶ This study is intended to identify the population of facilities and review manufacturing techniques, chemicals used, wastewater treatment technologies, and changes to the industry since the ELGs were promulgated.
- ▶ Study of Oil and Gas Extraction Wastewater Management
  - ▶ Preliminary Plan 14 directed readers to the May 15, 2019 draft study report which describes the outreach activities that the EPA conducted during the study period and potential next steps.



**Preliminary  
Effluent Guidelines  
Program Plan 14**

October 2019

# Public Comments (Closed November 25, 2019)

- ▶ 17 unique comment submissions received of which 10 were substantive letters
- ▶ Commenters consisted of trade groups, environmental organizations, and public citizens
- ▶ Popular topics included
  - ▶ PFAS study
    - ▶ General support of efforts
    - ▶ Support for development of method
  - ▶ Meat and Poultry Products (AKA slaughterhouses)
  - ▶ Nutrients Review



## **Preliminary Effluent Guidelines Program Plan 14**

October 2019



We are working to publish  
Effluent Guidelines Plan 14 this fall

We appreciate any Feedback

[www.epa.gov/eg/effluent-guidelines-plan](http://www.epa.gov/eg/effluent-guidelines-plan)

Contact me directly: [flanders.phillip@epa.gov](mailto:flanders.phillip@epa.gov)

1

## Effluent Limitations Guidelines and Standards Dental Category: Overview



Standards to be achieved by July 14, 2020



Requires dental offices to use amalgam separators and two best management practices recommended by the American Dental Association (ADA)



Contains provisions that significantly reduce oversight and reporting requirements



Dental dischargers that do not place or remove dental amalgam (with certain exceptions) exempt from further requirements by certifying such in Compliance Report



# study updates Wastewater sources to POTWs

Wastewater Type	Units
Residential <input type="text"/>	<input type="checkbox"/> Percent of flow <input type="checkbox"/> MGD
Commercial/Institutional (e.g., schools, hotels, restaurants) <input type="text"/>	<input type="checkbox"/> Percent of flow <input type="checkbox"/> MGD
Septage <input type="text"/>	<input type="checkbox"/> Percent of flow <input type="checkbox"/> MGD
Industrial <input type="text"/>	<input type="checkbox"/> Percent of flow <input type="checkbox"/> MGD
Stormwater and other <input type="text"/>	<input type="checkbox"/> Percent of flow <input type="checkbox"/> MGD
Describe other: <input type="text"/>	



# study updates Industrial sources of nutrients

17. Did your treatment works receive process wastewater from one or more of the following industrial sources in 2018? Select all that apply.

- ☐ No significant industrial sources
- ☐ Unknown
- ☐ Decline to Respond
- ☐ Airport deicing
- ☐ Dairy products (e.g. milk or cheese), animal processing (e.g., meat processing, poultry processing, aquaculture)
- ☐ Breweries/microbreweries
- ☐ Chemical, fertilizer, or phosphate manufacturing
- ☐ Grain milling
- ☐ Metals manufacturing and processing (e.g., electroplating, smelting, iron and steel)
- ☐ Non-animal food processing
- ☐ Petroleum refining
- ☐ Pharmaceutical manufacturing
- ☐ Pulp and paper manufacturing
- ☐ Steam electric power
- ☐ Oil and gas
- ☐ Other significant industrial source of nutrients


Describe 'Other significant industrial source of nutrients:' \_\_\_\_\_

study updates

# National Study of Nutrient Removals and Secondary Technologies


- Study benefits:
  - Help POTWs optimize nutrient removal by providing operation and performance information
  - Technical assistance and peer resources
  - Some programs now loan equipment for pursuing facility optimization
  - Significant cost-savings opportunities
  - Help stakeholders evaluate and develop achievable nutrient reduction values
  - Reduced nutrients in effluent
  - Provide a rich database of nutrient removal performance for POTWs, states, academic researchers, and other interested parties



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## POTW Nutrient Survey



### Screening Questionnaire

**Open Now!**


EPA's voluntary screener questionnaire collecting basic information from U.S. secondary treatment facilities is now available. The initial collection completed on November 26. EPA is continuing to accept late submissions—please submit your surveys as soon as possible.

To respond to the online survey, please register your POTW using its NPDES ID at the link below:

[Register for the survey](#)

**Related Information**

- [National Study of Nutrient Removal and Secondary Technologies](#)  
(Overview)



[www.epa.gov/eg/potw-nutrient-survey](https://www.epa.gov/eg/potw-nutrient-survey)

# National Water Reuse Action Plan

Improving the Security, Sustainability, and Resilience of  
Our Nation's Water Resources

NACWA's National Pretreatment  
Virtual Event

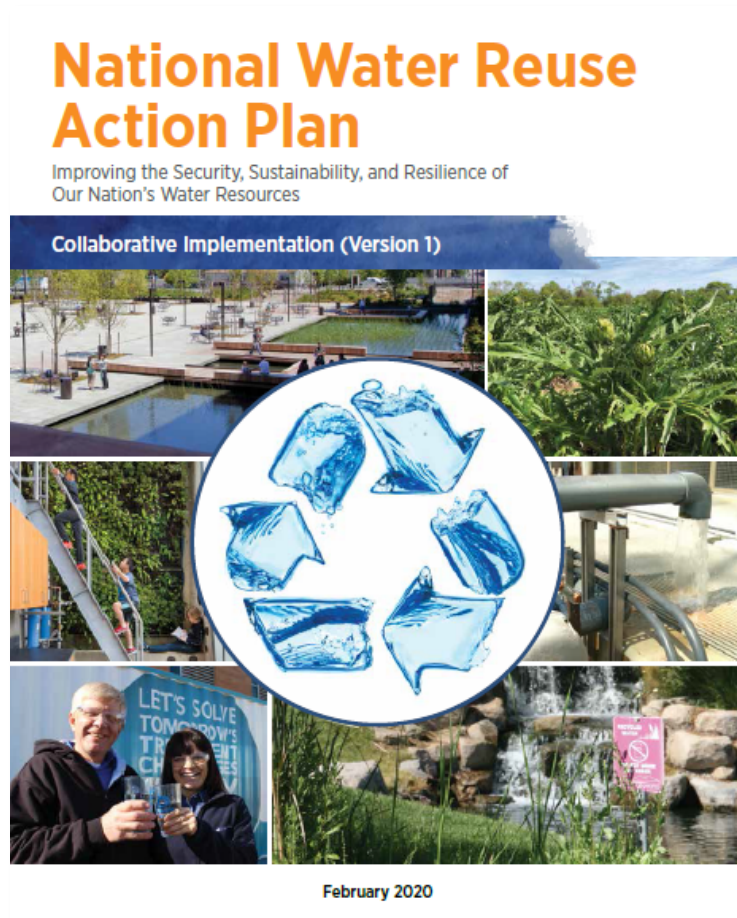
Jeff Lape  
May 12, 2020

[waterreuse@epa.gov](mailto:waterreuse@epa.gov)





# The Vision



“ Our goal is to issue a[n]...Action Plan that includes clear commitments and accountability for actions that will further water reuse and help [ensure] the sustainability, security, and resilience of the nation's water resources. Water quantity, supply, and quality decision-makers have historically worked through independent management regimes. Addressing future water resource challenges will require more holistic thinking that embraces the 'convergence of water' through more integrated action.<sup>1</sup> ”

–David Ross, Assistant Administrator for Water,  
U.S. EPA

## Section 2

# Water Reuse Collaborative Action Implementation

### The WRAP features 11 strategic themes:

- 2.1 Integrated Watershed Action
- 2.2 Policy Coordination
- 2.3 Science and Specifications
- 2.4 Technology Development and Validation
- 2.5 Water Information Availability
- 2.6 Finance Support
- 2.7 Integrated Research
- 2.8 Outreach and Communications
- 2.9 Workforce Development
- 2.10 Metrics for Success
- 2.11 International Collaboration



*Public landscapes throughout Northern California's City of Roseville are irrigated with recycled water.*



# Action Implementation Plans

- Demonstrate leadership for action.
- Promote partnerships and collaboration to leverage resources and expertise of many stakeholders.
- Demonstrate progress and accountability for actions.
- Initiate an enduring, dynamic, and iterative approach that will lead to subsequent versions of the WRAP.



# National Water Reuse Action Plan: Collaborative Implementation (Version 1)

- **Print** and **online** versions released on 2/27/20
- **37 developed actions** across **11 strategic themes**
- **WRAP Online Platform**
  - Repository for all actions (developed and undeveloped)
  - Provides background and opportunities to be gained
  - Identifies leaders, partners, interested collaborators
  - Captures milestones and progress
  - Helps form the pipeline of new actions and collaboration

The image displays three overlapping screenshots of the 'National Water Reuse Action Plan: Online Platform' interface. The background screenshot shows a list of actions under the 'Strategic Theme Area' filter. The middle screenshot shows the 'Enhance State Collaboration on Water Reuse' action page, highlighting the 'Action Attributes' section which includes the action's status, leaders, and key contacts. The foreground screenshot shows the 'Implementation Milestones' section for the same action, listing specific milestones, their completion dates, and the status of each.

**National Water Reuse Action Plan: Online Platform**

Instructions: Click on an action in the table to display detailed

Strategic Theme Area: [Show all](#)

Show 10 entries

Strategic Theme Area	Action
Integrated Watershed Action	Develop a Federal Policy State Consideration of Water Reuse
Integrated Watershed Action	Prepare Case Studies of Successful Integrated Water Resources Management
Integrated Action	Incorporate Water Reuse and Planning Efforts at the Local Level
Integrated Watershed Action	Leverage EPA's Water Partners the Context of Integrated Watershed Scale
Policy Coordination	Compile Existing State Policies
Policy Coordination	Enhance State Collaboration on Water Reuse
Policy Coordination	Complete the EPA Study of Oil Management
Policy Coordination	Enhance Wastewater Source Control Programs to Support Water Reuse
Policy Coordination	Compile and Develop Protected Waters for Potential Reuse
Policy Coordination	Develop Informational Materials Can Facilitate Water Reuse

Showing 1 to 10 of 58 entries

**Enhance State Collaboration on Water Reuse**

Enhance State Collaboration on Water Reuse (Action 2.2.2)

[Action Attributes](#) [Action Team](#) [Implementation Milestones](#) [Outputs and References](#)

**Action Attributes**

Status: Developed

Action Leaders and Key Contacts:

U.S. Environmental Protection Agency (EPA)

Jeff Lape

[jeff.lape@epa.gov](mailto:jeff.lape@epa.gov)

Association of Clean Water Administrators (ACWA)

Jake Adler

[jake@acwa-us.org](mailto:jake@acwa-us.org)

Association of State Drinking Water Administrators (ASDWA)

Wendy Wilkes

[wendy@asdwa.org](mailto:wendy@asdwa.org)

**Description:** Provide forums and opportunities for states to discuss water reuse. Some states, particularly in arid and semi-arid areas, have well-established opportunities to exchange ideas, experiences, successes, and challenges. Opportunities to learn from each other (2) identify common needs to of water reuse.

**Background:** The Annual WaterReuse Pacific Northwest Conference, organized by the policies and strategies. This conference provides a useful model and a coordinated state focused forum to encourage states to come together. In September 2015, ACWA and ASDWA co-organized and facilitated the representatives from 18 state water programs participated in this event engagement of additional state associations to engage in future state.

**Opportunities:**

- Increase state collaboration on water reuse across the spectrum
- Share experiences across state organizations.
- Enable water reuse discussions and networking opportunities.

**Enhance State Collaboration on Water Reuse**

Enhance State Collaboration on Water Reuse (Action 2.2.2)

[Action Attributes](#) [Action Team](#) [Implementation Milestones](#) [Outputs and References](#)

**Implementation Milestones**

Expand all

1. Convene the 1st state summit on water reuse at the 34th Annual WaterReuse Symposium in San Diego, CA.  
**Lead(s):** ACWA (Julia Anastasi, [julianastasi@acwa-us.org](mailto:julianastasi@acwa-us.org)), ASDWA (Wendy Wilkes, [wendy@asdwa.org](mailto:wendy@asdwa.org))  
**Partners:** EPA, WaterReuse  
**Target Completion Date:** September 2019  
**Actual Completion Date:** September 2019  
**Milestone Complete:** Yes  
**Status/Updates:** Completed (20 representatives from 18 states attended)
2. Secure meeting facilitation and notetaking support for the 2nd state summit on water reuse.
3. Conduct water reuse focused discussions at a session at the ASDWA Member Meeting.
4. Conduct water reuse focused discussions at a session at the ACWA Midyear Meeting.
5. Initiate planning for next annual state summit on water reuse.
6. Compile a list of state water reuse contacts and roles and post in an accessible location online.
7. Convene the 2nd state summit on water reuse at the 2019 WaterReuse Symposium in Denver, CO.
8. Prepare state summit on water reuse meeting summary for state representatives.
9. Additional milestones to be determined.

Use the arrows to navigate between actions.

[Previous Action](#) [Next Action](#)

## 2.1

# Integrated Watershed Action

### Example Action:

Prepare Case Studies of Successful Water Reuse Applications Within an Integrated Water Resources Management (IWRM) Framework (Action 2.1.2)

*Action Leader: WaterReuse*

**“We support this plan because it integrates water reuse opportunities across multiple sectors including drinking water, agriculture, industry, recreation, and environmental protection.”**

–State of Oklahoma, Office of the Secretary of Energy & Environment



Rainwater catchment project near Pennington Creek, California, installed in partnership with the Morro Bay National Estuary Program, stores up to 296,000 gallons of rainwater for cattle troughs in the dry season.



# Federal Policy Statement on Water Reuse

Water is critical to our nation's health, strength, security, and resilience, but the solutions available to manage water and its availability are often complex. When incorporated into an integrated water management plan, water reuse can be a valuable tool to enhance the availability and effective use of water resources. The federal government recognizes, acknowledges, and respects the primacy of states in the management of water resources within their borders.

The federal government supports the consideration of water reuse to increase water security, sustainability, and resilience, especially when considered through integrated and collaborative water resource planning approaches, typically at the watershed or basin-scale.

This policy statement is intended to guide federal agencies to:

- Encourage consideration of water reuse and integrated watershed-scale planning approaches;
- Communicate the value and benefits of water reuse; and
- Leverage existing programmatic, funding, and technical resources.

## 2.2 Policy Coordination – Action 2.2.4

### Enhance Wastewater Source Control through Local Pretreatment Programs to Support Water Reuse Opportunities for Municipal Wastewater (Action 2.2.4)

**DESCRIPTION:**

Develop case studies of examples of how local pretreatment programs can mitigate and reduce problematic pollutants discharged into publicly owned treatment works and enhance reuse opportunities for reclaimed wastewater.

**ACTION LEADER(S):**

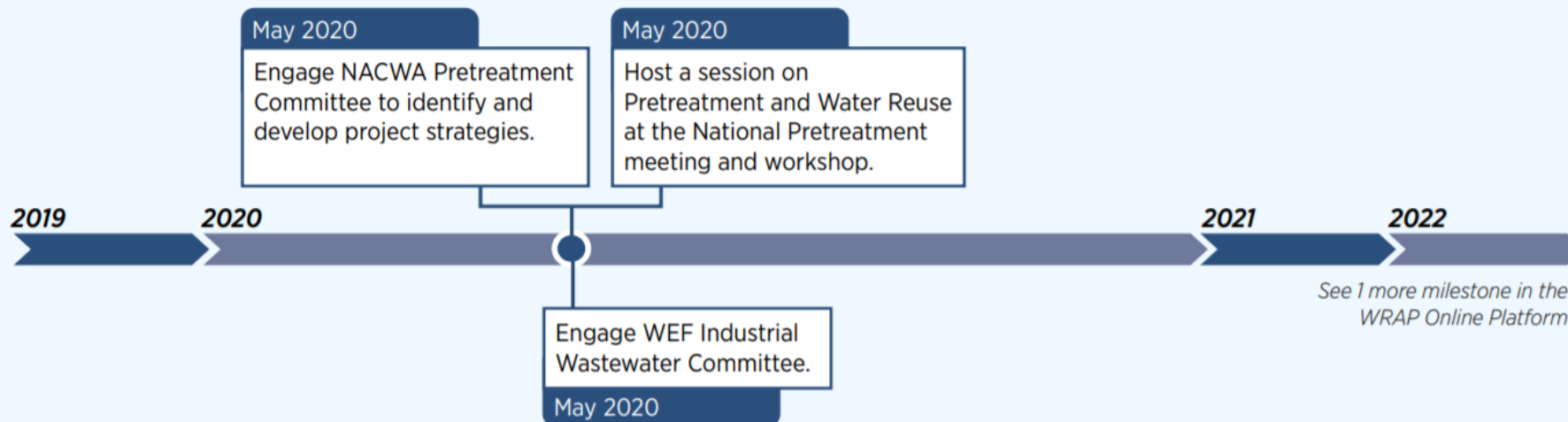
- NACWA—Cynthia Finley
- WEF—Claudio Ternieden

**PARTNER(S):**

ACWA, AMWA, AWWA, NWRI, WaterReuse, EPA



*Denver Water's Recycling Plant treats and delivers billions of gallons of water every year for industrial and outdoor irrigation uses.*



# Action 2.11.2 Showcase: Global Water Reuse Webchat

- World Water Day: March 19, 2020
- Co-hosted by State Department's Bureau of Oceans and International Environmental and Scientific Affairs & the Bureau of Global Public Affairs
- Panel
  - Moderated by Jeff Lape
  - Featured Lynn Spivey from Plant City, Florida
  - Featured Ted Henifin from Hampton Roads Sanitation District in Virginia
- 11 different countries hosted watch parties at embassies, consulates, and American Spaces



*Clockwise from top left: Ted Henifin, Lynn Spivey, and State Department webinar team, just prior to the current social distancing norms.*

[Webinar Recording](#)

# Supporting Water Reuse through Source Control

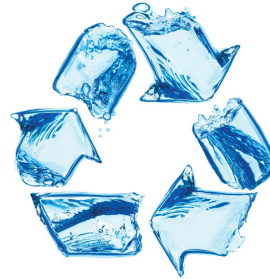
## Framing the Discussion:

- How are pretreatment program tools (source investigation, local limits, permit conditions, etc.) being used to protect wastewater quality for potential reuse?
- What source control strategies can help ensure that municipal wastewater effluent is of the quality needed for reuse applications (e.g. aquifer recharge and recovery)?
- How do we share experiences and best practices across the Water Resource Recovery Facility community?
- Other key questions or opportunities?



# Thank You!

**Jeff Lape**, National Program Leader for Water Reuse  
EPA Office of Water  
[lape.jeff@epa.gov](mailto:lape.jeff@epa.gov)

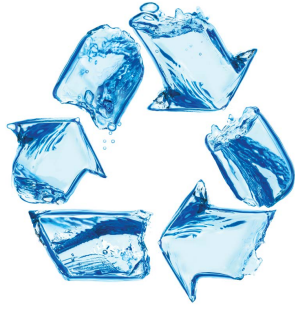


<https://www.epa.gov/waterreuse/water-reuse-action-plan>

[waterreuse@epa.gov](mailto:waterreuse@epa.gov)

*Together, we can ensure the sustainability, security, and resilience of our Nation's water resources.*





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*Only Flush the 3 Ps: Pee, Poop, and Toilet Paper*

## Water Reuse Action Plan

- Enhance wastewater source control through local pretreatment programs to support water reuse opportunities for municipal wastewater
- Align Policies and Communication Tools to Promote Best Management of Unused and Expired Pharmaceuticals to Support Water Reuse and Recycling

## Wipes Legislation

- Washington state labeling bill signed by governor on March 25, 2020
- California legislation still progressing
- Public education and media coverage of issue during coronavirus pandemic

# Q & A



**Frank Dick**



**Kerry Britt**



**Jan Pickrel**



**Todd Doley**



**Phillip Flanders**



**Jeffrey Lape**

UPCOMING 2020

# Conferences & Events

## **Strategic Communications: H2O Virtual Event**

June 1 – June 2, 2020

## **Dealing with Disruption: Operationalizing Resilience in the Water Sector Webinar Part 4**

June 3, 2020

## **Hot Topics in Clean Water Law Webinar**

June 10, 2020

## **Hot Topics in Clean Water Law Webinar**

September 16, 2020

## **2020 National Clean Water Law & Enforcement Seminar**

Charleston SC

November 18 - November 20, 2020

Learn More and Register at [www.nacwa.org/events](http://www.nacwa.org/events)

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The AECOM logo is displayed in a bold, black, sans-serif font. The letter 'E' is stylized with three horizontal bars.

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Look for the survey in the follow-up email!