

Water Infrastructure & Cyber Resilience Division (WICRD)

Risk Management Agency For Water Sector





Creation of Water Laboratory Alliance

Homeland Security Presidential Directive 9 (HSPD-9), directs the EPA to:

"...develop nationwide laboratory networks for . . . water quality that integrate existing Federal and State laboratory resources, are interconnected, and utilize standardized diagnostic protocols and procedures."





WLA's Connection to ICLN

Integrated Consortium of Laboratory Networks (ICLN) NAHLN Vet-LIRN NPDN DLN LRN **ERLN FERN** DoD National Food **National** Laboratory Environmental Veterinary Animal Laboratory Plant Response Response **Emergency** Laboratory Health Network Network Laboratory Diagnostic Response Investigation Network Network Network Laboratory & Response Network Network

Water Laboratory Alliance



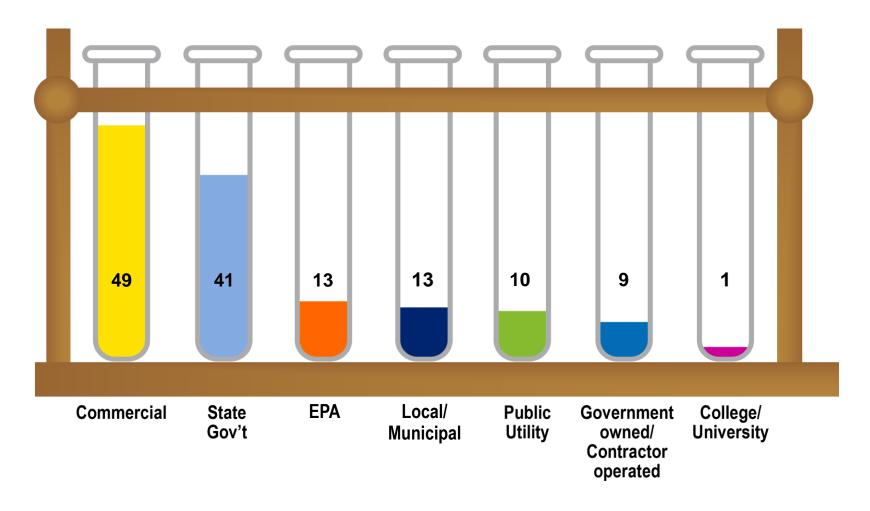
WLA Benefits

WLA is a program that helps the Water Sector figure out what's in their water and how to be ready to deal with it. Efforts include: Sampling **WLA Training WLA Security** Guidance Center Summits Water **Analytical Preparedness** Laboratory Contaminant Full-Scale Exercise Compendium Information Tool (WCIT) (AP-FSE) Toolkit **Association of Public Analytical Health Laboratories Preparedness** Accessing (APHL) Partnership Laboratory Support Self-Assessment (APS)





WLA Laboratory Members





Total Members: 137



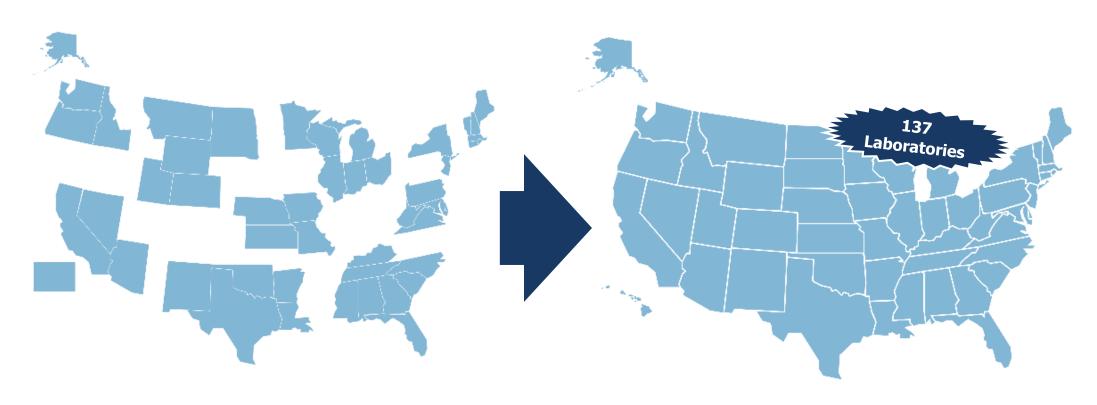
WLA Resource Areas

- Emergency Preparedness **Activities**
- Laboratory Support
- Contaminant Sampling & **Analysis**





WLA Response Plan (WLA-RP)



11 Regional Plans

(A plan for each EPA region, and a Hawaii-specific plan)

National WLA Response Plan

(WLA-RP)





WLA Response Plan (WLA-RP)

- Establishes a comprehensive, national approach to laboratory response to intentional or unintentional water contamination incidents
- Can be used to coordinate laboratory response for multi-regional and smaller scale incidents
- Provides guidance on communication, sample analyses and data reporting issues







Analytical Preparedness Full-Scale Exercise **Toolkit**

- Comprehensive guide that stakeholders can use to develop and lead their own tabletop or fullscale exercises
- Includes complete documentation for two sample scenarios (chemical, biological threat)
- Includes customizable forms, checklists, etc.
- Flexible and scalable





Analytical Preparedness Full-Scale Exercises

- Two separate AP FSEs, taking place this month
- Utilities, laboratories, and response partners collaborating in a week-long exercise
- Partnering organizations will:
 - Identify gaps in their emergency response plans
 - Incorporate EPA tools in their plans and operating procedures
 - Build relationships within their organization & between utilities, labs, and response partners





Water Contamination Incident Remediation Plan (WaterCIRP)

- EPA developed the WaterCIRP to advise remedial action
- Intended audience is water utilities and other emergency response personnel
- Developed in collaboration with water sector stakeholders
 - Functional exercise to test value and applicability
- Gives examples, possible considerations, and resources to learn more



Water Contamination Incident Remediation Plan (WaterCIRP)

Guide and Template for Drinking Water and Wastewater Utilities

[Department/Agency Name]

ent/Agency Address (Street, City, State, Zip Code)

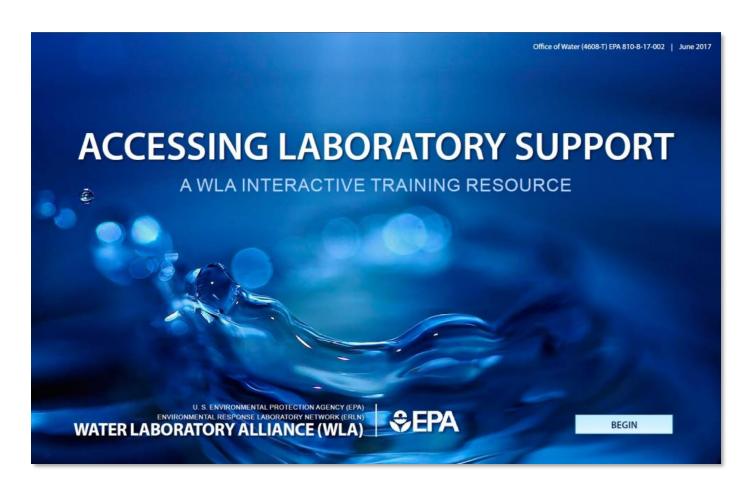
EPA 810-E-23-025 October 2023

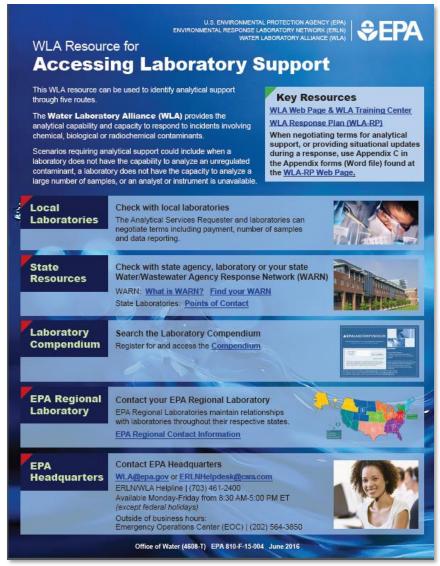






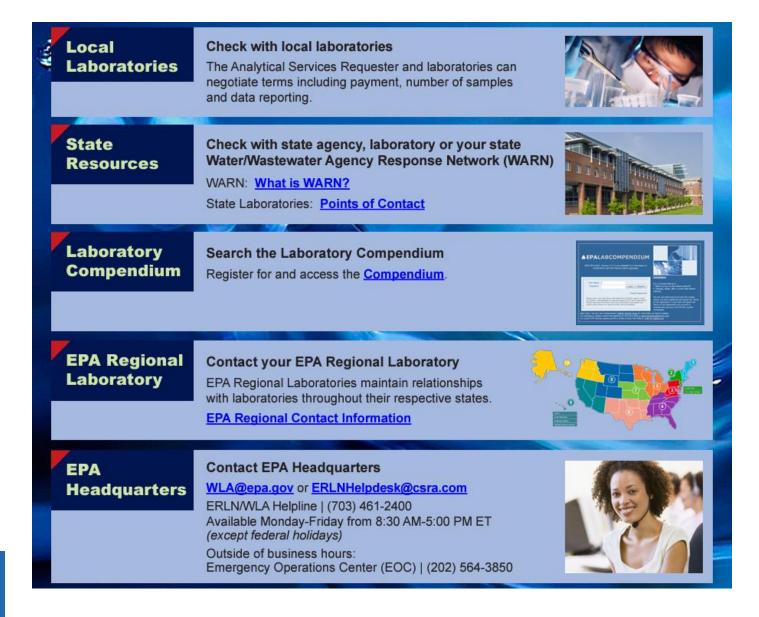
Identifying Analytical Support: An Interactive Guide







Accessing Laboratory Support Steps





Identifying Analytical Support: Laboratory Compendium





Methods for Environmental Restoration following Homeland Security Events

EPA's Water Infrastructure Security Web Page

Response Protocol Toolbox: Planning for and Responding to Contamination Threats to Drinking Water Systems

National Environmental Method Index for Chemical, Biological, and Radiological Methods

EPA's Compendium of Environmental Testing Laboratories

Welcome to the EPA's Compendium of Testing Laboratories (Laboratory Compendium). The Laboratory Compendium is a secure web-based network which identifies laboratories with the capability and capacity to analyze chemical, biological, and radiochemical agents. This network has been established to provide emergency responders with an efficient mechanism to obtain essential laboratory capability and capacity Standardized Analytical information during emergency situations, such as response to acts of terrorism.

Laboratory Compendium network includes the following features:

- Provides the most relevant and up-to-date information available to Laboratory Compendium users.
- Users can perform customized searches for laboratories based on various criteria, including type of laboratory, state, region, matrix, analytical capabilities, support services and special sample handling capabilities. Customizable searches provide the user with access to complete laboratory
- Full access to the Laboratory Compendium is available to EPA, state/local and federal emergency response and laboratory personnel. Limited access is available to water utilities.

The Laboratory Compendium provides the necessary laboratory support for emergency response efforts.

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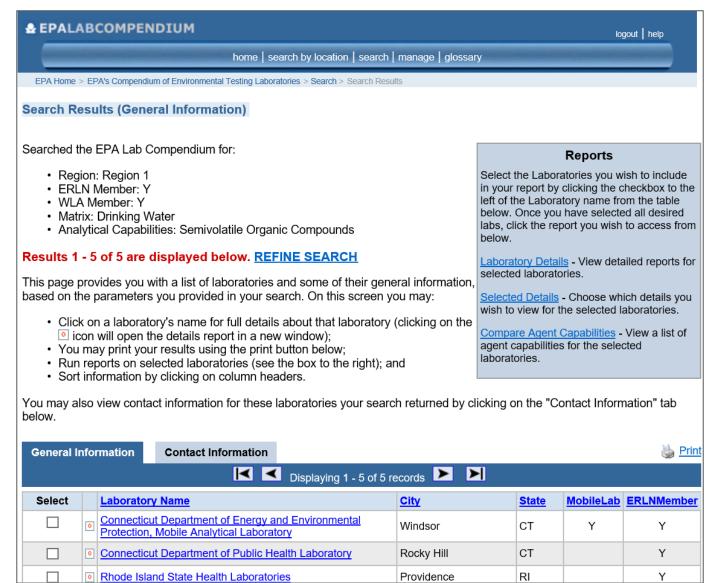
Identifying Analytical Support: Laboratory Compendium





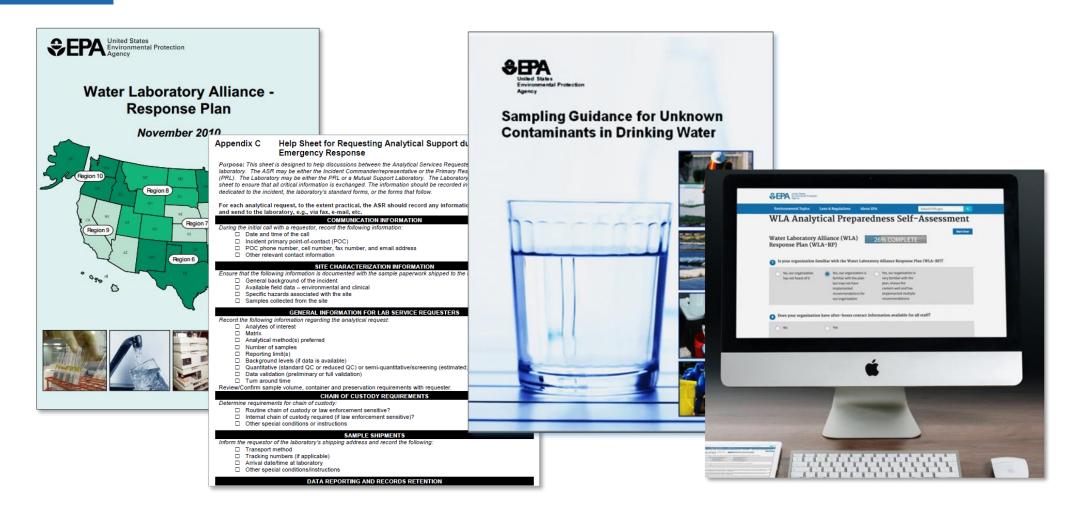


Identifying Analytical Support: Laboratory Compendium





Other Laboratory Support Resources







Water Contaminant Information Tool (WCIT)

WCIT is EPA's secure, online database containing information on contaminants of concern to drinking water and wastewater systems

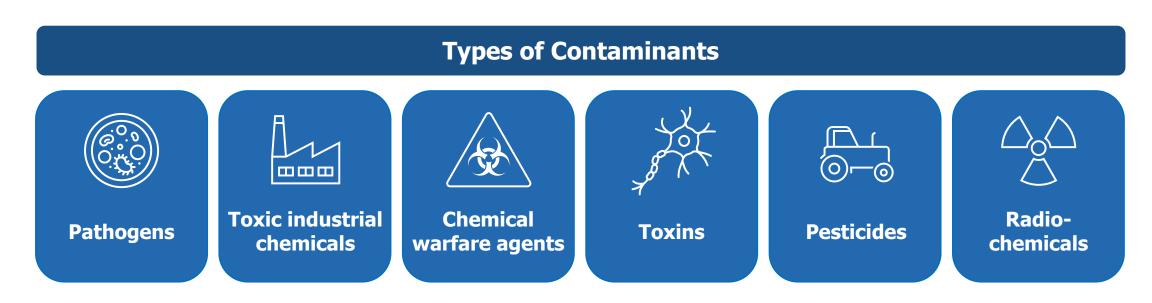
- Initially developed from the perspective of intentional incidents
- Updated to take on an all-hazards approach (intentional, unintentional, and natural events)
- Developed in collaboration with utilities, labs, academia, and more





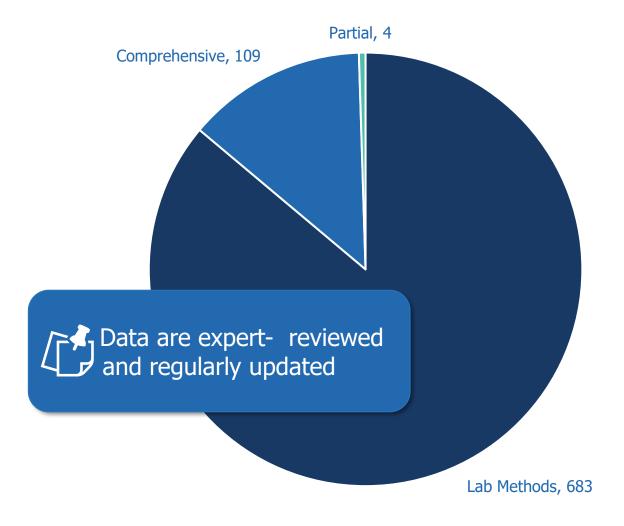
WCIT Content

Contains information on nearly 800 contaminants of concern to the Water Sector





Contaminant Profiles



Profile Topics

- General Information
- **Contaminant Summary**
- Other Names/Forms
- **Physical Properties**
- **Availability**
- Fate and Transport
- Medical Information
- Toxicity Information
- Laboratory Methods and Field Tests
- **Drinking Water Treatment**
- Water Quality Indications
- **Environmental Indicators**
- Wastewater Treatment
- Infrastructure Decontamination





How can the Water Sector use WCIT?

Remediation

- Emergency drills
- Tabletop exercises
- Full-scale exercises



Preparedness

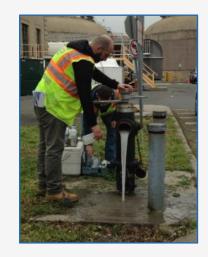
- Characterize contaminant
- Extent of contamination
- Field and Laboratory Methods
- Public Information
- Clearance Goals

Characterization

- Drinking Water Treatment
- Wastewater Treatment
- Infrastructure Decontamination

Clean Up

Monitoring



Recovery

Takeaways

- EPA's WLA is built on a foundation of collaboration and strong partnerships
- Our resources and tools improve collaboration and promote communication and preparedness
- Emergency preparedness is a constant process
- Next Analytical Preparedness Tabletop Exercise will be September 5, 2024 at 1:00 PM Eastern / 10:00 AM Pacific

ACTION ITEMS:

Complete the **Analytical** Preparedness-Self **Assessment**

Consider participating in a future Tabletop Exercise or AP FSE





Our Resources





Contact Information

For more information on the WLA, please contact:



General Email: WLA@epa.gov

Latisha Mapp

WLA Team Leader Office of Ground Water and Drinking Water

Phone: (202) 564-1930

Email: mapp.latisha@epa.gov

Peter Roumeliotis

ORISE Fellow

Office of Ground Water and Drinking Water

Phone: (202) 564-1991

Email: roumeliotis.peter@epa.gov

