



ITRC (Interstate Technology & Regulatory Council). 2023. *Contaminants of Emerging Concern Framework CEC-1*. Washington, D.C.: Interstate Technology & Regulatory Council, CEC Team. <https://cec-1.itrcweb.org/>.



Contaminants of Emerging Concern (CEC) require a clear technical approach on how to identify and evaluate them while acknowledging uncertainties in their environmental fate and transport, receptor exposure, and/or toxicity. Such an approach can be conducive to improved allocation of regulatory response resources and provide a foundation for communicating potential risk to stakeholders.

The ITRC CEC framework is comprised of a white paper and four associated fact sheets. In the white paper, CEC are defined as: **“substances and microorganisms including physical, chemical, biological, or radiological materials known or anticipated in the environment, that may pose newly identified risks to human health or the environment.”** The framework is meant to help environmental regulatory agencies and other stakeholders identify examples of CEC monitoring programs; evaluate potential hazard by systematically applying key CEC characteristics; communicate real and perceived risk from CEC to the public; and understand how laboratory analytical methods can be used in the identification process.

⇐ **ONLINE DOCUMENT:** On this web page, use the Table of Contents shown in the left-hand navigation column to select a specific section of interest

- Full Guidance Document PDF
- CEC White Paper
- **Fact Sheets:**
 - Identification of Key Variables
 - Risk Perception and Communication
 - Adoption of Analytical Methods for Identifying CEC
 - Case Study: Effect-Directed Nontarget Analysis Identifies 6PPD-q as Cause of Urban Runoff Mortality Syndrome
 - CEC Monitoring Programs

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