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Stream Mixing Zones and TRC Determinations: Christian Wiberley (Arkansas Department of Environmental Quality Office of Water Quality) 2016 Arkansas Water Works & Water Environment Association Presentation

Arkansas Environmental, Energy, and Water Law Blog

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Arkansas Department of Environmental Quality ("ADEQ") Office of Water Quality Permit Engineer Christian Wiberley undertook a presentation at the 2016 Arkansas Water Works & Water Environment Association titled *Stream Mixing Zones and TRC Determinations* ("presentation").

Mr. Wiberley's presentation addressed a number of issues related to Clean Water Act National Pollution Discharge Elimination System permits and water quality standards.

The presentation discussed:

- What is a mixing zone?
- Why use mixing zones?
- How does ADEQ use mixing zones?
- Overview of RP/Limit Calculations
- Types of toxicity criteria
- Mixing zones for aquatic life toxicity
- Zone of initial dilution for aquatic life toxicity
- Mixing zones for lakes and reservoirs for aquatic life toxicity
- Mixing zones for WET testing
- Total residual chlorine determination
- Why is TRC important?
- TRC reasonable potential analysis
- How is ADEQ addressing TRC?
- TRC limit determination (including an example with a mixing zone)

[A copy of the slides from the presentation can be downloaded below.](#)