

Produced Water Roundup

Welcome to the Produced Water Roundup, a proposed quarterly update from the Ground Water Research and Education Foundation and the Ground Water Protection Council Produced Water Taskforce.

The recently published studies represent work started in 2020 to the present. They include ongoing produced water research, treatment, regulatory, and data collection across multiple universities. This clearinghouse effort is intended to share information about ongoing research and foster collaboration between researchers, regulatory agencies, industry, and other stakeholders.

So, **Kick Up Your Heels** and enjoy the Quarterly Roundup!

1. **Akob, Denise M., Mumford, Adam C., Fraser, Andrea, Harris, ,Cassandra R., Orem, William H., Varonka, Matthew S., Cozzarelli, Isabelle. (2021).**, *“Oil and Gas Wastewater Components Alter Streambed Microbial Community Structure and Function;”* [“\(https://www.frontiersin.org/articles/10.3389/fmicb.2021.752947/full?utm_source=Email to authors &utm_medium=Email&utm_content=T1 11.5e1 author&utm_campaign=Email publication&field=&journalName=Frontiers in Microbiology&id=752947\).”](https://www.frontiersin.org/articles/10.3389/fmicb.2021.752947/full?utm_source=Email%20to%20authors&utm_medium=Email&utm_content=T1_11.5e1_author&utm_campaign=Email_publication&field=&journalName=Frontiers%20in%20Microbiology&id=752947)
2. **Schreiber, Madeline E., Cozzarelli, Isabelle. (2021).**, *“Arsenic release to the environment from hydrocarbon production, storage, transportation, use and waste management;”* [“\(https://www.sciencedirect.com/science/article/abs/pii/S0304389420330041\).”](https://www.sciencedirect.com/science/article/abs/pii/S0304389420330041)
3. **Cozzarelli, Isabelle., Kent, Douglas B., Briggs, Martin, Engle, Mark A., Benthem, Adam, Skalak, Katherine J., Mumford, Adam C., Jaeschke, Jeanne, Farag, Aida, Lane Jr, John Wayne, Akob, Denise M., (2021).**, *“Geochemical and geophysical indicators of oil and gas wastewater can trace potential exposure pathways following releases to surface waters;”* [“\(https://www.sciencedirect.com/science/article/pii/S0048969720364391\).”](https://www.sciencedirect.com/science/article/pii/S0048969720364391)
4. **Adam C. Mumford, Kelly O. Maloney, Denise M. Akob, Sarah Nettemann, Arianne Proctor, Jason Ditty, Luke Ulsamer, Josh Lookenbill, Isabelle M. Cozzarelli. (2020).**, *“Shale gas development has limited effects on stream biology and geochemistry in a gradient-based, multiparameter study in Pennsylvania;”* [“\(https://www.pnas.org/content/117/7/3670.short\).”](https://www.pnas.org/content/117/7/3670.short)

5. Yiqian Liu, Hao, Lu., Yudong, Li., Hong, Xu., Zhicheng, Pan., Pinyi, Dai., Hualin, Wang., Qiang, Yang. (2021)., *“A review of treatment technologies for produced water in offshore oil and gas field;”*
<https://www.sciencedirect.com/science/article/abs/pii/S0048969721005532>.”

Additional information for your leisure:

<https://nm.waterstar.org/>

<https://nmpwrc.nmsu.edu/news/>

<https://producedwatersociety.com/library/>

Upcoming February 2022 Seminar Registration

<https://producedwatersociety.com/>

Energy Strong Produced Water Podcast

https://www.youtube.com/watch?v=nUh3Xq_1JL0