

From: Mr. Paul Roden
Sent: Thursday, November 07, 2013 12:45 PM
To: Hanlon, Edward
Subject: Public meeting and comment

Dear Mr. Hanlon:

I wish to register to attend the public teleconference and make public comment to the Hydraulic Fracturing Research Advisory Panel scheduled for Wednesday, November 20, 2013 from 12:00 Noon to 5 p.m EST.

My questions to the panel are as follows concerning the process of hydraulic fracturing:

1. Where is all this water to be used in fracking coming from?
2. Where will all of this water going to be stored once it is contaminated with fracking fluid chemicals?
3. What happens when this "produced water" or "well brine" or "flowback" waste water is injected in deep injection wells underground?
4. What happens to the well casings after the well is spent? Who will inspect the well casings for cracks and leaks and what will that cost?
5. If the chemicals in fracking fluid are so safe, why is the industry exempt from the provisions of the Clean Water, Safe Drinking Water, Clean Air and Superfund Acts?
6. How can the gas and oil drilling industry justify calling some of the chemicals "proprietary" and exempt themselves from disclosing the chemical name and the amount from the public?
7. Who from the industry or the government stopped the previous health and environmental impact studies on the fracking industry?
8. What about the radioactive materials found in both the drill cuttings and in waste water released into the Pittsburgh rivers as documented in the recent Duke University study?
9. Are these NORM or other radioactive salts and materials being measured and studied for their health effects?
10. If the radioactive drill cuttings are being sent to sanitary landfills, how can we be sure they are not leaking or leaching into the water tables or tributaries or rivers?
11. How can VOC's volatile organic compounds filtered out or removed from waste fracking fluids?
12. How can this been done with anisotropic mixtures of fracking fluids in a cost effective way?

13. How can we be sure that this is being done and not just dumped into the rivers, municipal water and waste treatment plants?

14. How can we test for contamination when the industry can say the names of some of the chemicals is proprietary and they don't have to disclose the names and the amounts in the fracking fluid?

15. How do you clean up spills and leaks from a well or well pad waste pond or truck?

16. How do you clean a contaminated water shed or aquifer from fracking chemicals?

17. How do you justify reversing your decision on Dimock, PA saying the water is now safe, and the residents can resume drinking water that was previous contaminated by fracking chemicals and leaking methane?

18. What about the environmental impact of burning or flaring at wells, pumping stations and leaks of methane along pipeline routes?

Mr. Paul Roden

Yardley, PA (Lower Makefield Township)

Bucks County, Pennsylvania

Customer of Falls Township Water and Sewer Supply Company, which gets its water from the Delaware Downstream of the Marcellus Shale Delaware Water Shed