

Unregulated Contaminants Response Measures

House Select Committee on North Carolina River Quality
Cape Fear Public Utility Authority HB 56 Interim Report

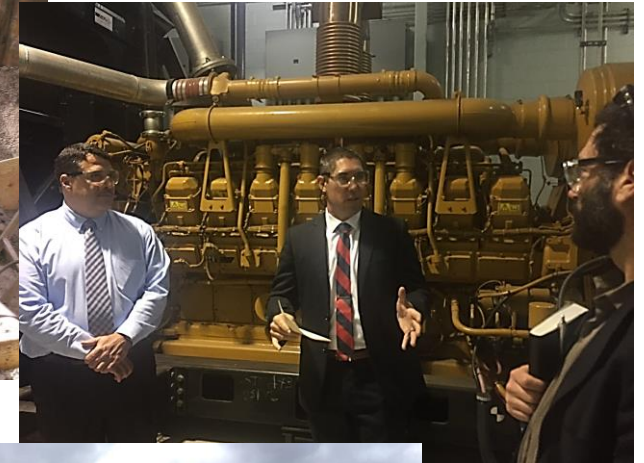
February 21, 2018



On Behalf of Our Customers



- Address the challenge presented by emerging contaminants and their effects on consumer confidence
- Action on several fronts:
 - Sampling and analysis
 - Evaluating treatment technologies
 - Identifying and quantifying other contaminants
 - Taking legal action
- Communicate with our customers
 - Offer free water station(s)
 - Provide weekly updates via the website
 - Share all drinking water test results
- CFPUA resolution asking NCDEQ for a cease in fluorochemical compound production at the Fayetteville Works site *(February 14, 2018)*



House Bill 56

CFPUA shares study findings from our pilot study with Brunswick and Pender counties on a monthly basis.

1. Continued work in the identification and deployment of treatment alternatives (\$100,000)
2. Ongoing water supply monitoring (\$85,000)
3. Information sharing
 - Interim Report (December 1, 2017)
 - Final Report (April 1, 2018)



Water Quality Sampling



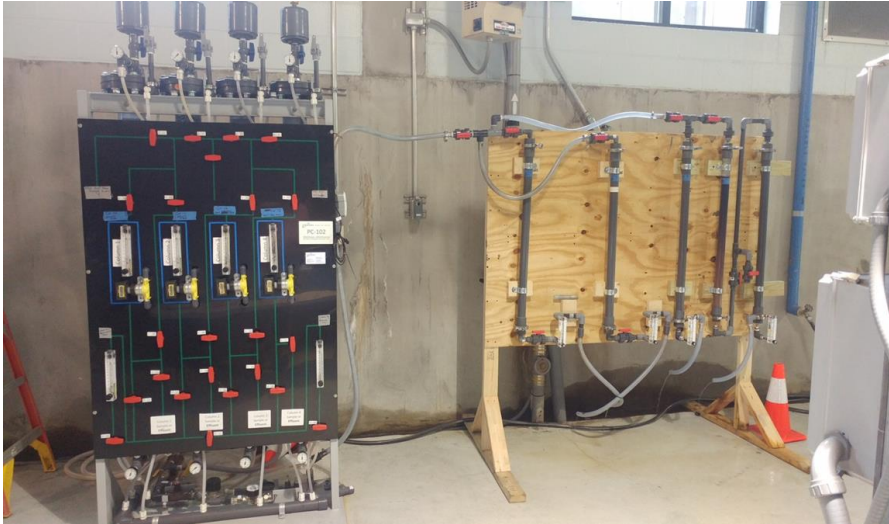
- CFPUA samples the treated water from Sweeney Water Treatment Plant on a weekly basis for perfluorinated compounds including GenX.
- NCDEQ reported that in December 2017 increased levels of GenX were measured at the Chemours Outfall 002.
- CFPUA continues to see the levels in our treated water stay below the NCDHHS health goal of 140 parts per trillion.
- CFPUA meets all drinking water regulations, which unfortunately do not include standards for GenX, other perfluorinated compounds, or other emerging contaminants.

Results from Chemours Outfall 002*	
Date	Level of GenX (ppt)
12/11/2017	2,300
12/14/2017	120
12/18/2017	79
12/21/2017 (grab sample)	740
12/22/2017	470
12/28/2017	190

Results from Sweeney Water Treatment Plant	
Date	Level of GenX (ppt)
12/5/2017	45
12/20/2017	28
12/28/2017	36
1/2/2018	32
1/10/2018	35
1/16/2018	37
1/22/2018	42
1/30/2018	30

* Source: <https://files.nc.gov/ncdeq/GenX/Data/Data%20spread%20sheet%20Dec-Jan.pdf>

Evaluating Treatment Technologies: Sweeney Water Treatment Plant Pilot Study



- Pilot study is in its second phase of testing.
- Study is investigating the potential of multiple types of Granular Activated Carbon and Ion Exchange media to remove emerging contaminants.
- Testing expected to be completed this spring.
- Once the study is complete, data will be used to form a recommendation on technological updates to Sweeney Water Treatment Plant.
- Effective treatment solutions rely on full understanding of what is in the water.

UNCW Research

- Since Sept 1, UNCW continues to identify other emerging contaminants in the river.
- Even though point source discharge has stopped, levels of GenX remain in the river.
 - Unknowns:
 - GenX effect on the sediments
 - Groundwater interactions with the river
 - Rainfall and stormwater runoff
- We receive monthly updates on their progress, and incorporate their findings into our work at the Sweeney Water Treatment Plant.



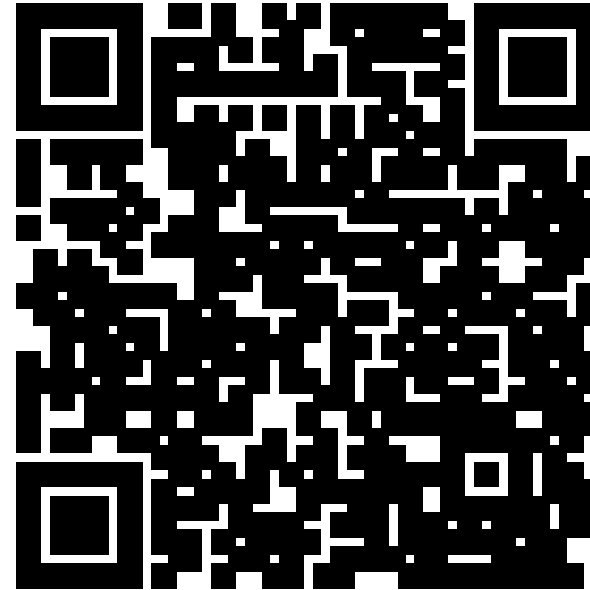
Future Considerations...

- Treatment Goals
 - 100% removal is unlikely.
 - Goals must be based on science and protecting public health.
 - Until there is conclusive scientific information, request State set strict discharge standards.
- Ongoing Litigation
 - Unregulated compounds should not be discharged into the river.
 - Began legal action against Chemours to protect citizens.
- Initial Implementation Costs* = \$38.7 M
- Additional Annual Operating Costs = \$2.9 - \$3.6 million per year
- Costs to CFPUA customer:
 - \$10/customer per bimonthly bill
 - Rate payers should not bear costs
 - The ultimate shared goal is to protect our customers and regional partners.
- Cost to date = \$1,774,000



*Includes \$1.7M for replacing the existing filter media.

Questions?



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