



NC PFAS Network Webinar

September 18, 2020

NC Department of Environmental Quality



NC DEQ PFAS Overview

- Areas of Focus
- Current Regulatory Climate
- Developments and Next Steps

Areas of Focus in NC-PFAS

- Assess the environmental impact of PFAS compounds to the environment.
- Ensure current regulatory requirements are met and evaluate future needs.
- Address the needs of surrounding communities and serve as a conduit for the community and local partners to help them respond to concerns.
- Further the knowledge base of emerging compounds through collaboration with the DEQ / DHHS Science Advisory Board.

Regulatory Climate NC DEQ

- Coordinating with the Secretaries' Science Advisory Board and NC Environmental Management Commission about PFOA / PFOS
- Addressing impacts to groundwater, surface water, soil and air as information becomes available
- Focusing on risk communication
- Evaluating next steps beyond PQL (practical quantitation limits) for groundwater

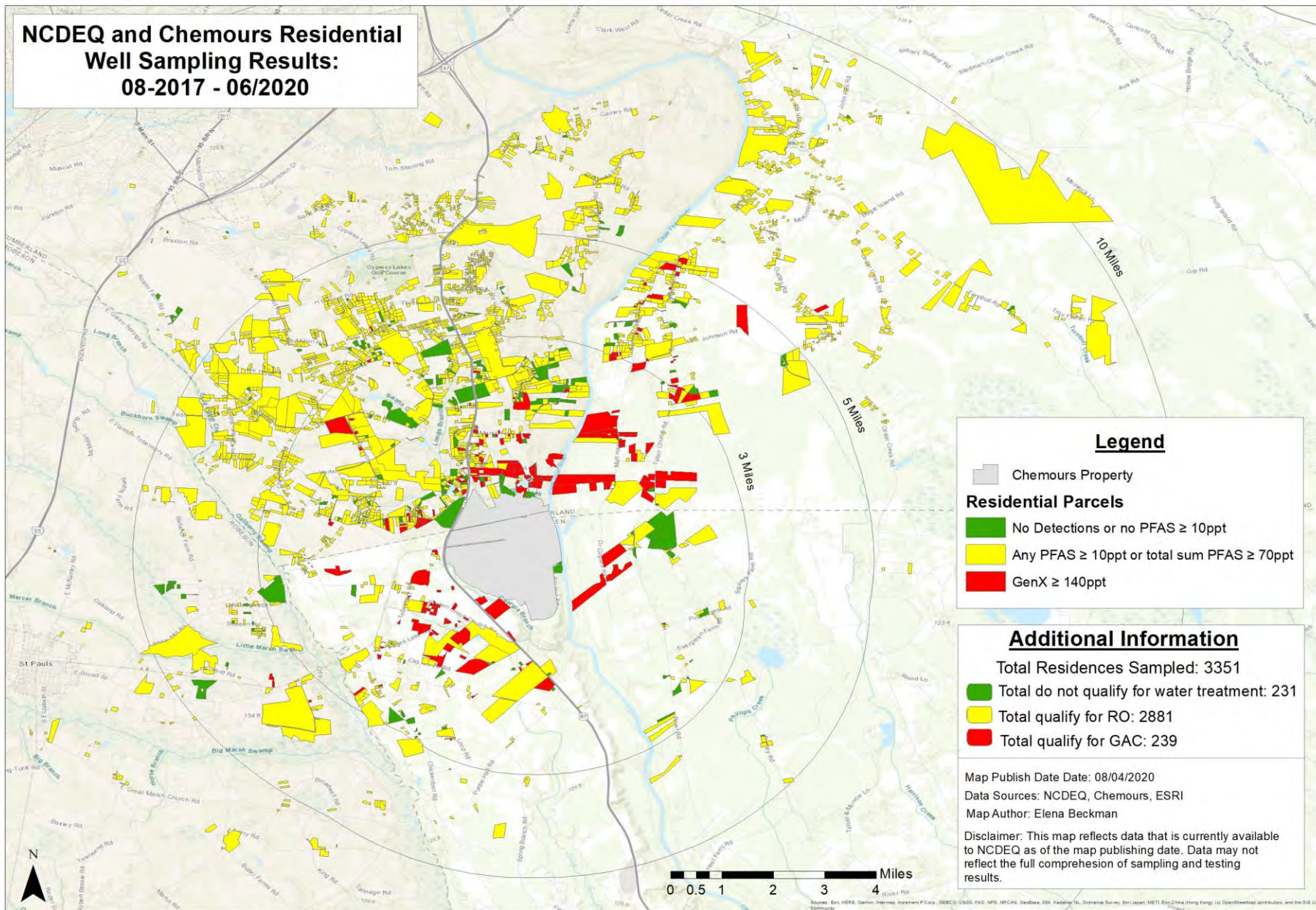


DEQ Offsite Groundwater Testing: Private Wells

- DWM continues to sample private wells around the Chemours plant.
- DEQ is evaluating data abnormalities while also collecting performance data on filtration systems.
- DEQ has also collected surface water and soil data from around the plant.



NCDEQ and Chemours Residential Well Sampling Results: 08-2017 - 06/2020



DEQ RO Filter Pilot Study

Results of under-sink Reverse Osmosis (RO) filter study

Pilot study goals:

- Are they effective at chemical removal?
- Assess high and low concentrations:
 - Low concentrations were eligible for RO (GenX=10-140ppt)
 - High concentrations were eligible for GAC (GenX>140ppt)

Basic study information

Four locations:

- 3 low concentration homes:
 - Avg. Total PFAS in untreated well water = 101-155 ppt
 - Up to 7 PFAS detected
- 1 high concentration home:
 - Avg. Total PFAS in untreated well water = 3,359 ppt
 - Up to 18 PFAS detected
- Analyzing for GenX and 44 other PFAS (2 more PFAS added mid-September)

This RO system may perform differently from other RO systems available on the market.



Community

Communication

- DEQ has held public information sessions in the communities around the Chemours Fayetteville plant.
- DEQ responds to community concerns

Transparency

- Post data, enforcement docs, letters etc. on the GenX webpage: <https://deq.nc.gov/news/hot-topics/genx-investigation>

Ongoing Efforts

- Ongoing testing, investigation and enforcement
- Daily communication with individuals and the community



Community Outreach Efforts

DEQ Community Updates
Info for Residents' web page
Community Mailing



Community Update

February 2020

This community update includes the latest information that may be of interest to residents in the Cape Fear River Region and the communities near the Fayetteville Works facility.

The N.C. Department of Environmental Quality (DEQ) entered into a Consent Order with Chemours and Cape Fear River Watch in February 2019. The order requires Chemours to address all sources of PFAS at the facility to prevent further impacts to air, soil, groundwater and surface waters.

The full Consent Order and history of the GenX investigation can be found online at <https://bit.ly/2Z7JHVA>.

Air Emissions

Thermal Oxidizer Update

Division of Air Quality staff observed the performance testing of the thermal oxidizer at Chemours. Results will determine the effectiveness of the control equipment as required under the Consent Order. Chemours is required to reduce PFAS air emissions routed through the control device by 99.99 percent.

Groundwater

Request Sampling of a Private Drinking Water Well

Per the Consent Order, Chemours is required to sample private drinking water wells in the impacted areas. **Parsons** is the third-party consultant who will be contacting you to sample your private well. To request well sampling call (910) 678-1101.

Updated Well Sampling Map

Chemours sends DEQ well sampling maps weekly, which include samples collected, samples received, and status of the step-out and infill programs. To view the latest well sampling map (Feb. 10, 2020), go to: <https://bit.ly/38WOxck> or click the image below.



Public Water Options

DEQ has made a feasibility determination, with input from local government representatives, for areas **west** of the Cape Fear River in Bladen County. Chemours will be providing municipal water to the 52 residences served by private wells (if the well owner elects to have municipal water) west of the Cape Fear River in Bladen County whose drinking water results are at or above 140 ppt for GenX. To view this letter, go to: <https://bit.ly/31YNF4W>.

Cumberland County officials recently approved \$10.5 million for waterline construction in the Gray's Creek area. DEQ staff is currently reviewing the county's decision as it relates to the terms of the state's Consent Order. The addition of the proposed waterlines announced recently will require an update to the study of the feasibility of public water in the area under the terms of the Consent Order.

For areas **west** of the Cape Fear River in Cumberland County: the Public Water Feasibility Analysis is still under review. DEQ has requested feedback from representatives of Cumberland County. DEQ granted an extension to Chemours until May 25, 2020, for the company to comply with the requirements of Paragraph 19 for the affected wells in Cumberland County west of the Cape Fear River. To view this letter, go to: <https://bit.ly/39Au5hK>.

For areas **east** of the Cape Fear River in both Bladen and Cumberland Counties: DEQ has made a feasibility determination, with input from local government representatives. To view this letter, go to: <https://bit.ly/2LBRVlu>.

Chemours will not be installing additional granular

PFAS Next Steps

- Continued coordination with all stakeholders – EPA, citizens, industry and environmental groups.
- Continue to evaluate areas of potential exposure to emerging compounds.
- Glean information from other countries (Netherlands) and states (Michigan, Vermont) who are addressing this same subject.
- Continued focus on risk communication for what is known and what is not known about emerging compounds.



Questions?

Michael E. Scott
N.C. Division of Waste Management
919-707-8246
Michael.Scott@ncdenr.gov

Department of Environmental Quality

