NC PFAST NETWORK FAYETTEVILLE FORUM

February 26, 2020



FUNDING TO ADDRESS PER- AND POLY-FLUOROALKYL SUBSTANCES, INCLUDING GENX/USE OF EXPERTISE AND TECHNOLOGY AVAILABLE IN INSTITUTIONS OF HIGHER EDUCATION LOCATED WITHIN THE STATE

SECTION 13.1.(f) The General Assembly finds that (i) per- and poly-fluoroalkyl substances (PFAS), including the chemical known as "GenX" (CAS registry number 62037-80-3 or 13252-13-6), are present in multiple watersheds in the State, and impair drinking water and (ii) these contaminants have been discovered largely through academic research not through systematic water quality monitoring programs operated by the Department of Environmental Quality or other State or federal agencies. The General Assembly finds that the profound, extensive, and nationally recognized faculty expertise, technology, and instrumentation existing within the Universities of North Carolina at Chapel Hill and Wilmington, North Carolina State University, North Carolina A&T State University, Duke University, and other public and private institutions of higher education located throughout the State should be maximally utilized to address the occurrence of PFAS, including GenX, in drinking water resources.

Section 13.1.(f) – NC General Assembly finds that academic expertise & instrumentation in public and private universities in NC should be "maximally utilized to address the occurrence of PFAS, including GenX, in drinking water resources."



Section 13.1.(g) – Water sampling scope

- •ALL public water supply surface water intakes (n=190)
- One well selected by each municipal water supply system operating groundwater wells for public water supply (n=158)
- Additional regional or county water supplies identified by DEQ (n=57)

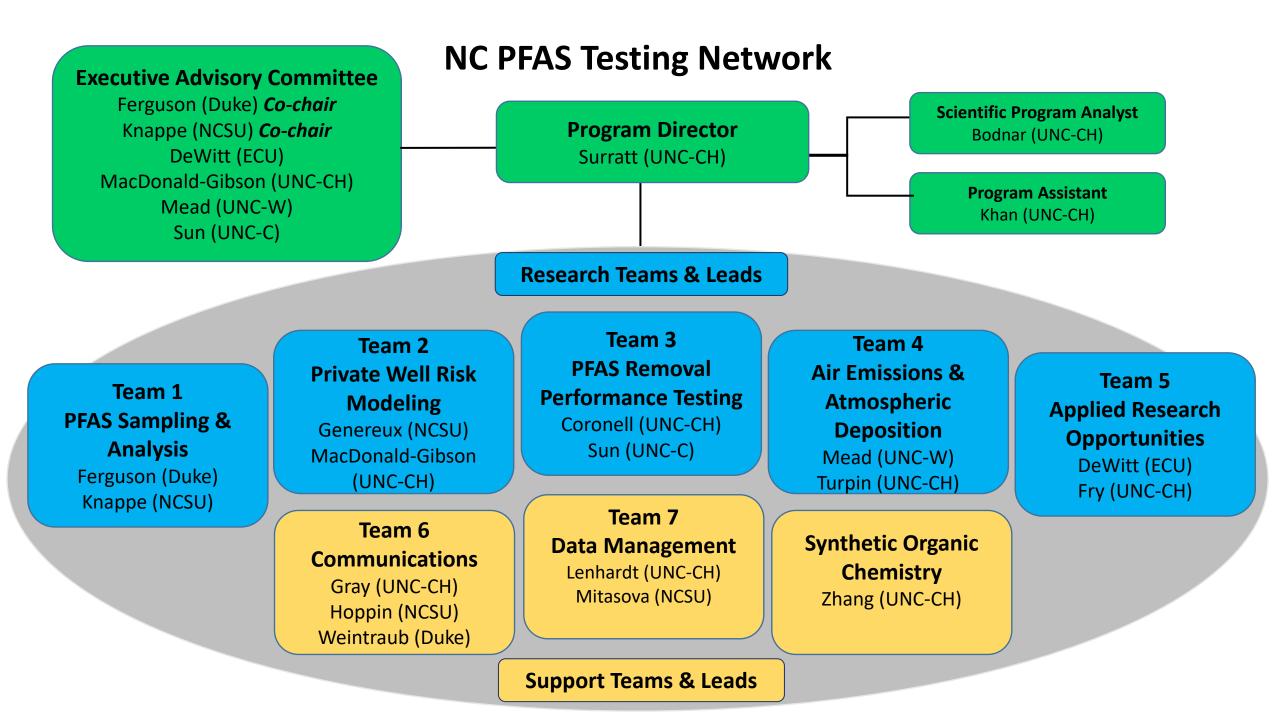
TOTAL SAMPLE UNIVERSE n=405

Section 13.1.(h) – Reporting requirements

Quarterly progress reports to NCGA Environmental Review Commission and regulatory agencies (NCDEQ, NCDHHS, EPA) *first report*: **Oct. 1, 2018** >>>> *final report*: **Oct. 15, 2020**

Section 13.1.(i) – Appropriation \$5,013,000

(FY 2018-19; non-recurring; non-reverting)

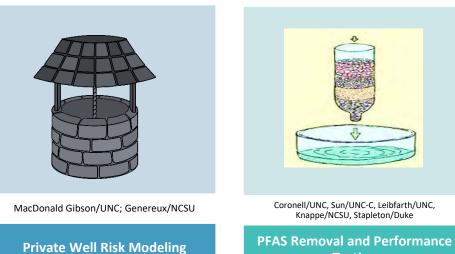


Network Teams Overview



Knappe/NCSU, Ferguson/Duke, Sun/UNC-C

Statewide Water Testing Municipal Intakes and Wells



Testing





Gray/UNC; Hoppin/NCSU; Weintraub/Duke

Risk Communications



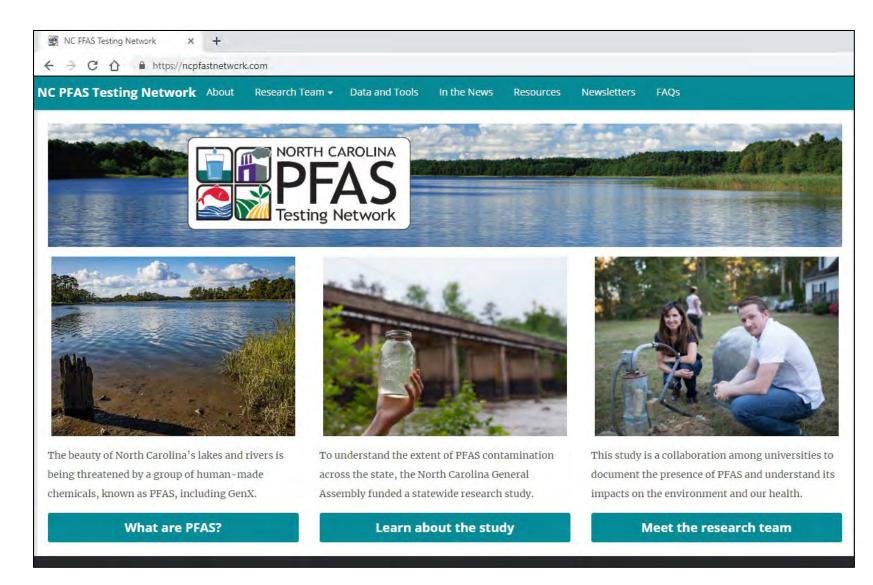
Lenhardt/UNC; Mitasova/NCSU, Rajasekar/UNC

Data Science and Management



Synthetic Chemistry

NC PFAST Network Website: <u>https://ncpfastnetwork.com/</u>

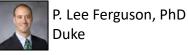


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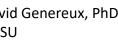
Acknowledgements



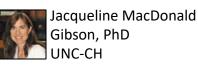
Detlef Knappe, PhD NCSU



David Genereux, PhD NCSU



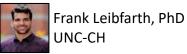
UNC-W



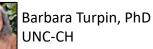
Orlando Coronell, PhD UNC-CH



Heather Stapleton, PhD Duke





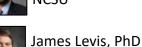




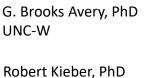








NCSU



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Tracy Manuck, MD, MS

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UNC-W

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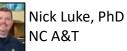


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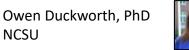
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Research Associates Postdoctoral Fellows Graduate Students Undergraduate Students **Technicians** *Contractors* **Collaborators**