

PFAS Sources: Evaluation of SIUs at Major NC Waste Water Treatment Plants

HBCU DEQ INTERNSHIP 2023

Raleigh, NC
Office of the Secretary

PROJECT DESCRIPTION / OBJECTIVE

- To understand which and to what extent Significant Industrial Users (SIUs) are sources of PFAS to Waste Water Treatment Plants and the environment.
- Identification of PFAS in industrial discharges.
- Expand NCDEQ PFAS multimedia database to include information and data for additional sectors and industries.

MAJOR TASKS TO BE PERFORMED

- Evaluate each SIU for the potential of their discharge to contain PFAS. This information will be collected through review of NDEQ's existing PFAS database, literature, technical reports, and review of other regulatory information for similar facilities and processes. Environmental Justice information will also be collected around each SIU and the associated WWTP.
- Develop a database of SIUs and which WWTPs they discharge to.
- Develop recommendations of targeted industries to evaluate further as PFAS sources to WWTPs and the environment.

FINAL PRODUCT OR OUTCOME ANTICIPATED

- Report on the universe of SIUs that could be sources of PFAS to WWTPs.
- Expanding NCDEQ's PFAS database on industries that are potential PFAS sources.
- Inform future sampling efforts to understand sources of PFAS across NC.
- Information will be used to inform NCDEQ staff on PFAS sources and help expand the Departments capacity to understand and proactively manage PFAS emissions.

QUALIFIED CANDIDATE MUST POSSESS

- General understanding of environmental engineering/environmental science (e.g., Introduction to Environmental Engineering)
- Research capabilities - read and synthesize research papers
- Skilled in Microsoft Excel

