

# **NORTH CAROLINA PER- AND POLYFLUOROALKYL SUBSTANCES TESTING (PFAST) NETWORK**

Progress Report #4 submitted to the North Carolina General Assembly  
Environmental Review Commission, the NC Department of  
Environmental Quality, the NC Department of Health and Human  
Services, and the Environmental Protection Agency (Region 4)

*July 1, 2019*



## 1.0 INTRODUCTION

The North Carolina General Assembly (NCGA), in the passing of Session Law (SL) 2018-5, Sections 13.1.(g), directed the North Carolina Policy Collaboratory (Collaboratory) to *“identify faculty expertise, technology, and instrumentation, including mass spectrometers, located within institutions of higher education in the State, including the Universities of North Carolina at Chapel Hill and Wilmington, North Carolina State University, North Carolina A&T University, Duke University, and other public and private institutions, and coordinate these faculty and resources to conduct nontargeted analysis for PFAS, including GenX, at all public water supply surface water intakes and one public water supply well selected by each municipal water system that operates groundwater wells for public drinking water supplies as identified by the Department of Environmental Quality, to establish a water quality baseline for all sampling sites. The Collaboratory, in consultation with the participating institutions of higher education, shall establish a protocol for the baseline testing required by this subsection, as well as a protocol for periodic retesting of the municipal intakes and additional public water supply wells.”* The term ‘PFAS’, listed above, refers to Per- and Polyfluoroalkyl Substances and the study is sometimes referred to herein as the PFAST Network (PFAS Testing Network).

In addition to the water sampling identified above, additional study parameters are mandated in Section 13.1.(l), which states, *“The Collaboratory shall identify faculty expertise within institutions of higher education in the State, including 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, and use technology and instrumentation existing throughout the institutions to conduct the following research (i) develop quantitative models to predict which private wells are most at risk of contamination from the discharge of PFAS, including GenX; (ii) test the performance of relevant technologies in removing such compounds; and (iii) study the air emissions and atmospheric deposition of PFAS, including GenX. In addition, Collaboratory may, using relevant faculty expertise, technology, and instrumentation existing throughout institutions identified, evaluate other research opportunities and conduct such research for improved water quality sampling and analyses techniques, data interpretation, and potential mitigation measures that may be necessary, with respect to the discharge of PFAS, including GenX.”*

Research to carry out these legislative mandates has commenced, and progress made to date is summarized in this this document which represents the fourth [quarterly] report. All provisions passed by the NCGA referring to this project are included in Appendix I of this report.

## 2.0 REPORTING REQUIREMENTS

Section 13.1.(h) of SL 2018-5 states, *“Beginning October 1, 2018, the Collaboratory shall report no less than quarterly to the Environmental Review Commission, the Department of Environmental Quality, and the Department of Health and Human Services on all activities conducted pursuant to this section, including any findings and recommendations for any steps the*

*Department of Environmental Quality, the Department of Health and Human Services, the General Assembly, or any other unit of government should take in order to address the impacts of PFAS, including GenX, on surface water and groundwater quality, as well as air quality in the State.”* This report fulfills the NCGA requirement for the submission of quarterly progress reports and summarizes the work conducted since the last progress report which was submitted on October 1, 2018. Three additional progress reports will be submitted no later than April 1, 2019, July 1, 2019, and October 1, 2019. The project’s final report will be submitted no later than December 1, 2019.

The NCGA-mandated Per- and Polyfluoroalkyl Substances (PFAS) study (herein referred to as the PFAS Testing Network or PFAST Network) was funded by an appropriation from the NCGA. Section 13.1.(i) of SL 2018-5 states, *“Five million thirteen thousand dollars (\$5,013,000) of the funds appropriated in this act for the 2018-2019 fiscal year to the Board of Governors of The University of North Carolina shall be allocated to the Collaboratory to manage and implement the requirements of this section, which shall include distribution to the Collaboratory and participating institutions of higher education (i) to cover costs incurred as a result of activities conducted pursuant to this section, (ii) for acquisition or modification of essential scientific instruments, or (iii) for payments of costs for sample collection and analysis, training or hiring of research staff and other personnel, method development activities, and data management, including dissemination of relevant data to stakeholders. No overhead shall be taken from these funds from the participating institutions that receive any portion of these funds. Funds appropriated by this section shall not revert but shall remain available for nonrecurring expenses.”*

The April 1, 2019 Quarterly Report noted submission of a letter by PFAST Network scientists to the NC Policy Collaboratory on March 13, 2019 (Appendix II of the April report) requesting a 1-year extension of the study. The reasoning for the request was twofold: 1) to ensure sufficient time for comprehensive analysis and interpretation of non-targeted data and 2) to enable additional sampling of drinking water supply intakes during different seasons. The Collaboratory transmitted this request to the NC General Assembly on March 25, 2019. The study extension was included in the compromise budget (H966) passed by the NCGA and sent to the Governor on June 27, 2019. Also included in this budget was an additional \$2 million appropriation to the Collaboratory, which will use these funds for the additional year of water sampling and analysis as well as project management activities that will occur during the PFAS study extension if the budget becomes law.

### **3.0 QUARTERLY PROGRESS**

NC PFAST Network investigators have continued collecting and analyzing field samples, conducting laboratory experiments, and interfacing with the public through presentations at a number of venues. For reference, the PFAST Network organizational structure and team leaders were provided in Appendix II of the January 1, 2019 quarterly report, and the specific aims of the research projects were described in Appendix III of that same report. Accomplishments during the past quarter, April 1 through June 30, 2019, are summarized in the following bullet points:

## Overall Program Activities

- In early April, the new PFAST Network website (<https://ncpfastnetwork.com>) was officially launched and includes the new graphic identity (logo) for the Network. The website includes background information on the study objectives and researchers, details on events and public presentations, as well as other resources such as Frequently Asked Questions. Any inquiries about the Network's PFAS testing or related research can be sent via e-mail to: [ncpfastnetwork@unc.edu](mailto:ncpfastnetwork@unc.edu). The Program Management Team will either respond directly or forward specific requests for information to the appropriate team leaders.
- The PFAST Network's synthetic organic chemist Dr. Zhenfa Zhang completed synthesis of chemical standards for Nafion Byproduct 1, Nafion Byproduct 2, and HydroEve Acid, which are not commercially available at this time. He also started planning synthetic routes for PFO4DA (perfluoro-3,5,7,9-tetraoxadecanoic acid) and PFO5DoA (perfluoro-3,5,7,9,11-pentaoxadecanoic acid). Chemical structures for these PFAS are presented in Appendix II.
- The NC Policy Collaboratory Research Director Dr. Jeffrey Warren provided sampling letters of support from the NCPC to Drs. Barlaz, Knappe and Ferguson to aid network researchers in their initial contact with managers of drinking water treatment facilities, solid waste landfills, and wastewater treatment plants when they are scheduling water sampling visits. Copies of the letters are presented in Appendix III.
- PFAST Network investigators, postdocs, and students have participated in national conferences, local workshops, and public meetings to raise awareness of the NC PFAST Network study and to share goals of the various research projects, workflow strategies, and updates with legislative and regulatory committees and community stakeholders. Several key meeting highlights are described below, and additional presentations are listed in Appendix IV.
  - On April 9, a team of researchers from the NC PFAST Network provided a briefing to the North Carolina General Assembly's House Standing Committee on the Environment Apr. 9, 2019 in Raleigh, NC. Following presentations by the North Carolina Policy Collaboratory's Research Director Dr. Jeffrey Warren and PFAST Network Scientific Program Analyst Dr. Wanda Bodnar, research team leaders addressed questions in an interactive Q&A session with the legislators. Copies of the slides presented can be accessed here: <https://ncpfastnetwork.com/files/2019/06/Collaboratory-PFAS-9April2019.pdf>
  - The 2019 NC BREATHE Conference: "Environmental Justice in North Carolina" organized by Clean Air Carolina was held Apr. 11, 2019 at the Cape Fear Community College in Wilmington, NC. Detailed information including copies of presentations can be found at: <https://cleanaircarolina.org/2019-nc-breathe/>. Dr. Jane Hoppin from the PFAST Network Risk Communications Team presented a summary of results from the GenX Exposure Study conducted in the last year. Dr. Hoppin, Associate Professor of Biology and Deputy Director of the Center for Human Health and the Environment (CHHE) at NC State University, is the lead Principal Investigator for the study. Two posters were also presented by the PFAST Network's Air Emissions and Atmospheric Deposition team: "Targeted and Non-Targeted Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Rain Water", and "Air Concentrations of Per- and Polyfluoroalkyl Substances (PFAS) in North Carolina".
  - Dr. Jamie DeWitt, Associate Professor of Pharmacology and Toxicology at the Brody School of Medicine at East Carolina University and PFAST Network Executive Advisory Committee member and Co-lead of the Network's applied research team provided expert testimony during a meeting convened by the United States House of Representatives' Committee on Energy and Commerce Subcommittee on Environment and Climate Change on May 15, 2019 in Washington, DC. The focus of

the session was “Protecting Americans at Risk of PFAS Contamination & Exposure”. A transcript of her testimony can be accessed here:

[https://energycommerce.house.gov/sites/democrats.energycommerce.house.gov/files/documents/05.15.19%20Witness%20Testimony\\_DeWitt.pdf](https://energycommerce.house.gov/sites/democrats.energycommerce.house.gov/files/documents/05.15.19%20Witness%20Testimony_DeWitt.pdf)

- An internal science and risk communications training workshop for PFAST Network scientists was held at UNC’s Europa Center in Chapel Hill, NC on May 20, 2019. This was a highly successful event engaging approximately 30 participants who learned strategies for sharing their research findings with non-academic audiences in public settings. In addition to organizing and conducting this training session, the Network’s Risk Communications Team facilitated subsequent meetings with representatives from the PFAST Network, NCDEQ, and NCDHHS to discuss the flow of communications from the Network scientists to public stakeholders and the protocol for communicating results of concern along with context. More recent discussions with staff of the Occupational and Environmental Epidemiology Branch (OEEB) of the NC DHHS also addressed biomonitoring efforts and public concerns regarding the state of knowledge of the impacts of PFAS chemicals on human health, with an emphasis on consumption of fish and garden crops.
- A Public Forum organized by the NC Coastal Federal was held on the UNC Wilmington campus May 31, 2019. The theme was “Emerging Contaminants in the Cape Fear Region: University Collaborations on Environmental, Drinking Water Supply and Human Health Effects” The event was a huge success with over 300 registered participants joining in-person or live on-line. PFAST Network Program Director Dr. Jason Surratt, Professor of Environmental Sciences and Engineering at UNC Chapel Hill, introduced the PFAST Network organization and provided an overview of the team objectives, and several members presented talks and posters about their ongoing research projects. Links to a video recording of the forum and copies of presentations are available on the NC PFAST Network web site: <https://ncpfastnetwork.com/nccf-pfas-forum/>
- A North Carolina regional PFAS information exchange meeting organized Dr. Detlef Knappe of NC State University was held on June 17, 2019 at the NC State University’s Centennial Campus in Raleigh, NC. Progress updates were shared among approximately 40 representatives from the USEPA (ORD, Region 4), NCDEQ, NCDHHS, NC PFAST Network, and NC Policy Collaboratory. Participants discussed the challenges and concerns associated with sharing information with the public in a meaningful and timely manner and shared ideas for helping North Carolina residents easily access and understand PFAS-related technical and scientific data and associated guidance based on the study results.

### **PFAS Water Sampling and Analysis**

- The PFAST Network’s Water Sampling and Analysis Team has collected samples from 100 of the original 348 sites as of the end of June 2019 and are ramping up collection efforts with the assistance of graduate research students. A list of sites sampled thus far is provided in Appendix V. Targeted and Non-target analyses are ongoing in Dr. Knappe’s (NC State) and Dr. Ferguson’s (Duke) labs. Levels of PFAS have been determined for some of the samples, and the data are at various stages of processing and verification. The Total Organic Fluorine measurements are also underway in Dr. Mei Sun’s lab at UNC Charlotte.
- Following the first observation of elevated levels of PFAS (sum of PFOA + PFOS above the US EPA Health Advisory Limit (HAL) of 70 nanogram per liter (ng/L) or parts-per-trillion (ppt) in two samples collected and analyzed during May 2019, PFAST Network investigators executed their [e-mail] notification protocol. The Network’s Risk Communications Team coordinated a follow-up conference call with representatives

from the PFAST Network, NC DEQ, and NC DHHS for comment on the protocol to ensure the appropriate parties were included in the notification. As this was the first such notification, opportunities to improve the process were identified and presented to the PFAST Network Executive Advisory Committee for input and approval.

- DEQ recently identified 57 additional county or regional water systems for source water sampling and analysis. For reference, the initial list of municipal sampling sites is provided in Appendix VI, and the additional 57 sites are shown in Appendix VII, bringing the total to 405 sampling sites (190 municipal surface water intakes + 158 groundwater wells selected by each municipality + 57 county or regional water systems). Note, there was a typographical error on Page 4 of the April 1, 2019 Quarterly Report indicating there were 358 municipal sampling sites. The Network's Data Science and Management Team incorporated the 57 additional sites into their geospatial mapping analysis and has re-optimized the sampling trip schedules for the team.

### **Private Well Risk Modeling**

- Water has been sampled from all accessible streams near Chemours that are tributaries to the Cape Fear River (CFR) for determination of PFAS concentrations. The team, led by Dr. David Genereux (NC State), measured PFAS flow from groundwater to streams (mean groundwater fluxes for 5 tributary streams) to determine flushing time and to estimate how long it will take for GenX and other PFAS to flush from the groundwater. The data acquired in this study suggest it is possible that groundwater discharge of PFAS into tributaries of the Cape Fear River (CFR) could be contributing to persistent levels of GenX in the river water reaching Wilmington, NC and that PFAS contamination of the CFR could continue for some time in the future even though Chemours has stopped discharging wastewater directly to the river. More work is needed to characterize the age and travel time of the groundwater reaching streams in this area to better understand the timescale over which PFAS contamination will be flushed out of the surficial aquifer and into the Cape Fear River.
- The team led by Dr. Jackie MacDonald Gibson (UNC-CH) compiled a database of multiple factors that might influence GenX levels in well water (76 data types for 803 wells) and have been collecting additional well characteristics data (well depth, construction type, age, location, static water level and ground elevation) to incorporate in the Bayesian network model they developed and are refining and cross-validating using machine learning and artificial intelligence algorithms. As more information becomes available to fill missing data gaps, addition of the new data will increase the accuracy of the model to predict which factors most strongly influence the risk of well contamination by high levels of GenX. The team is now evaluating precipitation as a new variable in the GenX concentration model. Previous results from the model indicated that distance and wind direction are the most influential parameters, so the team wants to determine whether rain during the time of sampling has any effect. They have also developed the first prototype web application for users to predict contamination of untested wells.
- The team had a meeting with staff at the Chemours Plant to discuss PFAS data collection and remediation and to request additional aliquots of PFAS chemical standards that are not commercially available. The Chemours team is collecting water samples from some new houses in the region, and those results would be a good data set for testing the cross-validation and checking the accuracy of the predictive model. The team is working with NC DEQ personnel to get access to those new water sampling results.

## PFAS Removal Performance Testing

- The Knappe lab at NC State performed rapid small-scale column tests with granular activated carbons (GAC) to test for PFAS adsorption and removal efficiency. The effectiveness of granular activated carbon for PFAS removal was observed to increase with increasing PFAS chain length.
- The Coronell lab at UNC Chapel Hill tested 10 types of high-pressure membranes for removal of 29 PFAS in 3 types of water and selected the top 3 performing membranes for challenge tests with PFAS contaminated surface water to evaluate their performance in a more complex water matrix. PFAS removal at different pH values will be evaluated for these membranes with laboratory grade water adjusted to relatively acidic and basic pH values. The team also developed a new membrane modification procedure and applied it to 4 commercial membrane types. Modified membranes will be challenged with PFAS impacted groundwater and their performance (water productivity and PFAS rejection) will be assessed.
- The team also started screening tests on 9 types of Ion Exchange (IX) resins from different manufacturers to find the three most effective at PFAS removal from ground water (Fayetteville) and surface water (Wilmington). Optimization of the targeted analytical method for perfluoroalkyl ether carboxylic acid compounds (PFECAs) on the LC-MS/MS instrument is ongoing.
- The Stapleton lab at Duke is continuing their evaluation of in-home filters for removal of PFAS and is preparing to conduct additional monthly sampling of the Haw River and drinking water in Pittsboro this summer to understand the temporal and spatial variability in the levels these PFAS. Results to date from the “PFAS removal from finished drinking water by in-home filters in NC households” study have shown that reverse osmosis home filtration removes 100% GenX, PFBA (4 Carbon), PFHxA (6 Carbon), and PFOA (8 Carbon).
- The Leibfarth lab at UNC Chapel Hill tested the adsorption of their 2 best performing Ionic Fluorogels for removal of GenX, PFOA, and PFHxA at environmentally relevant concentrations. Experiments were conducted to test the ability of Ionic Fluorogel samples to remove 22 legacy and emerging PFAS in water collected from a well in Eastern North Carolina using rapid small-scale column tests (RSSCT) and equilibrium absorption measurements. Analysis of the results from LC-MS/MS measurements of PFAS concentrations is underway.
- The Sun lab at UNC Charlotte tested different electrode materials for electrochemical mineralization of PFOA as a means to remove PFAS from waste streams generated in challenge tests. While they found that 93% PFOA removal can be achieved using a ruthenium oxide coated titanium (Ti/RuO<sub>2</sub>) anode, they still need to identify the electrochemical degradation products and test other PFAS.

## Air Emissions and Atmospheric Deposition

- The Turpin lab at UNC Chapel Hill has been collecting weekly composite samples (6-days collection) of atmospheric gases and particles (airborne fine particulate matter, or PM<sub>2.5</sub>) at 5 sites: Wilmington, Fayetteville, RTP, Greenville, and Charlotte. Preliminary sample analysis detected few PFAS at low levels, prompting the team to consider seasonal (~3-month) composites of samples for future analysis. They are also investigating potential sources and ways to further reduce PFAS background contamination as a means to improve (lower) detection limits and are conducting additional experiments to optimize the filter extraction procedure to improve extraction efficiency for larger molecular weight PFAS. They have also initiated experiments to test

for the best storage conditions for filter samples and extracts.

- In preparation of adding hi-volume air sampling to the project and conducting an intensive field campaign later this summer or fall, two locations near the Chemours facility, in line with the main wind directions (SSW and NNE), were identified and secured. The team has been collaborating with the EPA to add 3 high volume air particle samplers to their field sites for strategic air sampling and to increase the amount of mass collected on the filters as compared to the lower volume samplers. They have also been working with EPA colleagues to coordinate their intensive, 1- to 2-week sampling study in which they will deploy an Iodide-Chemical Ionization Mass Spectrometer (CIMS) for real-time, high-resolution measurements of highly polar gases at one of the sites in the Fayetteville area. The team also submitted a request to operate one of the 3 hi-volume samplers at the current Fayetteville site which is hosted by NC DEQ's Division of Air Quality.
- The Mead lab at UNC Wilmington has collected 42 event-based wet/dry deposition samplings at the Wilmington site and selected other stations (from among ECU, UNC-CH, UNC-C, WCU, Bald Head Island, and Appalachian State University). A targeted mass spectrometry method (LC-MS/MS) has been developed and the limits of quantitation and detection have been determined for GenX and 5 other targeted PFAS (PFMOAA, PFMOPrA, PFMOBA, PFOA, and PFOS) in rainwater samples. Analyses of the collected wet and dry deposition samples are ongoing including fluorine nuclear magnetic resonance (NMR) spectroscopy in addition to high resolution mass spectrometry to aid in determining the structures of previously unidentified fluorinated compounds. The team also performed 72-hour air-mass back trajectory analysis on the 42 samples available so far and will update this analysis as new data are generated.
- A Potential Aerosol Mass (PAM) Oxidation Flow Reactor has been assembled in the UNC Chapel Hill lab and the team is preparing experiments to study the multiphase chemistry of hexafluoropropylene oxide (HFPO) and atmospheric aerosols.

#### **Other Applied Research Opportunities:**

##### ***Novel PFAS Inputs into the environment: landfill leachates and wastewater treatment:***

- The Barlaz lab at NC State has sampled a total of 13 municipal solid waste landfills (at a point where leachate is discharged to a wastewater treatment plant- tank, gravity sewer line, or pumping station) and extracted all the collected leachate samples for analysis using high-resolution mass spectrometry for PFAS characterization. Analyses are in progress. An additional 8 landfill operators have been contacted requesting their permission for sampling, and the team is awaiting their responses.
- A total of 24 wastewater treatment plants have been sampled. Among these facilities, two were sampled weekly for 4 weeks to assess temporal variability. All the wastewater samples collected (influent and effluent) were extracted and analyzed for PFAS concentrations, and data are expected to be finalized soon. The team has begun conceptual model development to estimate statewide mass release from wastewater treatment plants and landfills. There remain some large wastewater treatment plants and landfills that are not allowing the team to sample, although some of them had accepted an initial request for sampling.
- The team has sampled 1 lined Construction and Demolition (C&D) waste landfill and collected water samples from runoff emanating from 3 C&D landfills. Similar to the wastewater and landfill leachate samples, all the samples collected from C&D have been extracted and analysis should be completed in July. They have also identified some



construction and demolition waste landfills with leachate collection systems and have arranged to collect samples from these landfills.

***PFAS bioaccumulation in aquatic environments: alligator and fish studies:***

- The Belcher lab at NC State concluded their processing and analysis of the 2018 alligator and striped bass serum samples and conducted analyses to identify associations between PFAS levels in striped bass serum and health-related biomarkers.
- This quarter, the team began sampling for 2019 (striped bass move up-river in late April and early spring; alligators become active early April). Collection of striped bass from the Cape Fear and the Roanoke Rivers has been completed and over 100 samples have been prepared for analysis. The next availability for mass spec analysis will be during the month of August due to heavy workloads on the high resolution Orbitrap MS.
- The 2019 alligator sampling has been progressing well in the Cape Fear River area and other locations around the State including Greenfield Lake (Wilmington NC), Orton Pond, Oak Island, and Bald Head Island (the extreme end of the Cape Fear). Samples from a total of 63 individual animals have been collected. One additional collection outside the Cape Fear River area is planned for the summer. Because of extreme temperature, sampling will restart in the fall when temperatures moderate and animals are more active.
- Dr. Belcher and his research team working with alligators were featured in two local news stories: <https://www.wect.com/2019/06/13/why-alligators-with-orange-heads-are-showing-up-around-cape-fear-region/> and <https://www.wral.com/why-are-these-alligators-orange-it-s-research-that-will-help-in-the-study-of-genx/18451848/>

***Health effects following exposure: mouse model of immunotoxicity:***

- The DeWitt lab at East Carolina University has completed mouse immunotoxicity studies for 3 PFAS: PFMOAA (3 Carbon); PFMOPrA (4 Carbon); and PFMOBA (5 Carbon). Male and female mice were orally exposed to PFAS in water, and daily body weights and in-life observations were recorded. Urine and feces were collected prior to dosing and at 3 times after dosing. Following injection with sheep red blood cells, Immunophenotype, T-cell dependent Antibody Response (TDAR), Natural Killer cell activity, and peroxisome proliferation were evaluated. Analysis of the data for all three studies is nearing completion.

***PFAS bioaccumulation and distribution in crop plants: greenhouse studies:***

- The Duckworth lab at NC State University conducted greenhouse experiments with compost-amended and PFAS-spiked soils and harvested lettuce plants for analysis. The team has started to develop methods for extractions from plant tissue and soil for PFAS concentration measurements by targeted mass spectrometry. They have acquired soil and tomato plants and are preparing the next set of greenhouse experiments. Unfortunately, their proposal to the Canadian Light Source was not awarded beamtime (no new proposal was awarded time due to a backlog), so plant tissue imaging experiments are on hold until the next round of beamtime is awarded.

***Health effects following exposure: placental inflammation and immune cell signaling:***

- Additional women who were approached for the EPOCH-PLUS (women in early pregnancy at high risk for pre-eclampsia or fetal growth restriction) or EPOCH-CASE (women diagnosed with pre-eclampsia or fetal growth restriction) studies during the enrollment period were recruited this quarter. The total cumulative enrollment is at 64

women (10/23/18-6/19/19). Samples of urine, serum, drinking water (private wells), cord blood, and placenta have been (and will be) collected and stored for analysis of PFAS levels. Cell-based experiments using placental cell lines have been initiated to examine changes in gene expression associated with inflammation following treatment of cells with PFAS. Additional demographics, health history, and outcome data have been entered for newly enrolled subjects, and method optimization for sample extraction and PFAS analysis in both water and placenta samples continues.

# APPENDIX I

## LEGISLATIVE LANGUAGE PASSED BY THE NORTH CAROLINA GENERAL ASSEMBLY

*(Session Law 2018-5, Sections (f) through (l), effective June 12, 2018)*

### 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.(g)** The North Carolina Policy Collaboratory at the University of North Carolina at Chapel Hill (Collaboratory) shall identify faculty expertise, technology, and instrumentation, including mass spectrometers, located within institutions of higher education in the State, including 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, and coordinate these faculty and resources to conduct nontargeted analysis for PFAS, including GenX, at all public water supply surface water intakes and one public water supply well selected by each municipal water system that operates groundwater wells for public drinking water supplies as identified by the Department of Environmental Quality, to establish a water quality baseline for all sampling sites. The Collaboratory, in consultation with the participating institutions of higher education, shall establish a protocol for the baseline testing required by this subsection, as well as a protocol for periodic retesting of the municipal intakes and additional public water supply wells. No later than December 1, 2019, Collaboratory shall report the results of such sampling by identifying chemical families detected at each intake to the Environmental Review Commission, the Department of Environmental Quality, the Department of Health and Human Services, and the United States Environmental Protection Agency.

**SECTION 13.1.(h)** Beginning October 1, 2018, the Collaboratory shall report no less than quarterly to the Environmental Review Commission, the Department of Environmental Quality, and the Department of Health and Human Services on all activities conducted pursuant to this section, including any findings and recommendations for any steps the Department of Environmental Quality, the Department of Health and Human Services, the General Assembly, or any other unit of government should take in order to address the impacts of PFAS, including GenX, on surface water and groundwater quality, as well as air quality in the State.

**SECTION 13.1.(i)** Five million thirteen thousand dollars (\$5,013,000) of the funds appropriated in this act for the 2018-2019 fiscal year to the Board of Governors of The University of North Carolina shall be allocated to the Collaboratory to manage and implement the requirements of this section, which shall include distribution to the Collaboratory and participating institutions of higher education (i) to cover costs incurred as a result of activities conducted pursuant to this section, (ii) for acquisition or modification of essential scientific instruments, or (iii) for payments of costs for sample collection and analysis, training or hiring of research staff and other personnel, method development activities, and data management, including dissemination of relevant data to stakeholders. No overhead shall be taken from these funds from the participating institutions that receive any portion of these funds. Funds appropriated by this section shall not revert but shall remain available for nonrecurring expenses.

**SECTION 13.1.(j)** The Collaboratory should pursue relevant public and private funding opportunities that may be available to address the impacts of PFAS, including GenX, on surface water and groundwater quality, as well as air quality, in order to leverage funds appropriated by this section, or any other funds provided to the Collaboratory, including the Challenge Grant authorized in Section 27.5 of S.L. 2016-94, as amended by Section 10.4(a) of S.L. 2017-57.

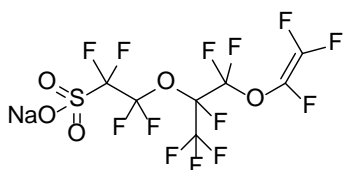
**SECTION 13.1.(k)** In the event that the United States Environmental Protection Agency no longer provides access to its analytical instrumentation at no cost to the State for water quality sampling analysis related to per- and poly-fluoroalkyl substances (PFAS), including the chemical known as "GenX" (CAS registry number 62037-80-3 or 13252-13-6), or if the Department of Environmental Quality determines that such analysis is not being performed in a sufficiently timely manner, the Collaboratory shall coordinate such analysis in the most cost-effective manner using relevant faculty expertise, technology, and instrumentation, including mass spectrometers, existing throughout institutions of higher education located throughout the State, until such time as the Department of Environmental Quality is able to perform such analysis with instrumentation acquired pursuant to subsection (q) of this section. The Collaboratory, in consultation with the Department and relevant experts across institutions of higher education in the State, including 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, shall establish a protocol for delivery of such samples taken by the Department to the entity designated to perform analysis of the samples, chain of custody protocols, and other matters to ensure proper handling and processing of the samples, which protocols shall be subject to approval by the United States Environmental Protection Agency, if such approval is required pursuant to authority delegated from the United States Environmental Protection Agency to the Department to administer federal environmental law.

**SECTION 13.1.(l)** The Collaboratory shall identify faculty expertise within institutions of higher education in the State, including 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, and use technology and instrumentation existing throughout the institutions to conduct the following research (i) develop quantitative models to predict which private wells are most at risk of contamination from the discharge of PFAS, including GenX; (ii) test the performance of relevant technologies in removing such compounds; and (iii) study the air emissions and atmospheric deposition of PFAS, including GenX. In addition, Collaboratory may, using relevant faculty expertise, technology, and instrumentation existing throughout institutions identified, evaluate other research opportunities and conduct such research for improved water quality sampling and analyses techniques, data interpretation, and potential mitigation measures that may be necessary, with respect to the discharge of PFAS, including GenX.

# APPENDIX II

## June 2019 progress update on synthetic chemistry efforts for the NC PFAST Network submitted by Zhenfa Zhang, Ph.D., Assistant Professor, University of North Carolina at Chapel Hill

Synthesis of the following PFAS chemical standards has been completed:

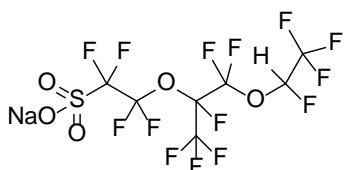


Nafion Byproduct 1 (Sodium Salt)

CAS# 29311-67-9

Chemical formula:  $C_7H_0S_2F_{13}Na$

Molecular weight: 443.93 g/mole (free acid)

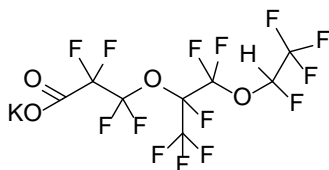


Nafion Byproduct 2 (Sodium Salt)

CAS# 749836-20-2

Chemical formula:  $C_7H_2O_5SF_{14}Na$

Molecular weight: 463.94 g/mole (free acid)



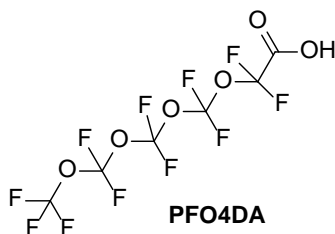
HydroEVE Acid (Potassium Salt)

CAS# 773804-62-9

Chemical formula:  $C_8H_2O_4F_{14}K$

Molecular weight: 427.97 g/mole (free acid)

A strategy for the synthesis the following PFAS chemical standards is being developed:

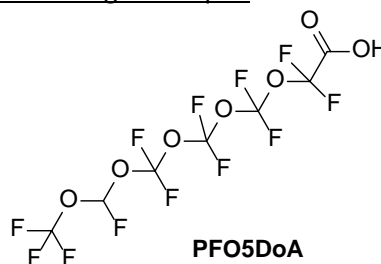


**PFO4DA**

CAS# 39492-90-5

Chemical formula:  $C_6H_0F_{11}O_4S_2$

Molecular weight: 377.96 g/mole



**PFO5DoA**

CAS# 3492-91-6

Chemical formula:  $C_7H_0F_{13}O_4S_2$

Molecular weight: 443.95 g/mole

# **APPENDIX III**

**SAMPLING SUPPORT LETTERS FROM THE NC POLICY COLLABORATORY  
TO DR. DETLEF KNAPPE AND DR. LEE FERGUSON (WATER SYSTEMS)  
AND DR. MORTON BARLAZ (LANDFILLS AND WWTPS)**

May 8, 2019

Detlef Knappe, PhD  
Professor  
Department of Civil, Construction, and Environmental Engineering  
North Carolina State University  
Campus Box 7908  
Raleigh, NC 27695-7908

P. Lee Ferguson, PhD  
Associate Professor  
Department of Civil and Environmental Engineering  
Duke University Pratt School of Engineering  
Box 90287  
121 Hudson Hall  
Durham, NC 27708-0287

Dear Professors Knappe and Ferguson,

I would like to take this opportunity to thank you for being Co-Principal Investigators on Team 1 (Sample Acquisition and PFAS Sample Analysis) of the North Carolina PFAST (Per- and Polyfluoroalkyl Substances Testing) Network. As you know, in passing Session Law (S.L.) 2018-5 (Section 13.1 through I), the NC General Assembly (NCGA) has mandated that the NC Policy Collaboratory (Collaboratory) assemble academic experts from institutions of higher learning across North Carolina to generate a statewide baseline dataset to better understand the extent and impact PFAS may be having on our State. Your project was vetted and selected by the Collaboratory, its project management team at the Gillings Global School of Public Health at UNC Chapel Hill, and its NC PFAST Network Executive Advisory Committee.

In Section 13.1.(g) of S.L. 2018-5, the NCGA directed that, *“The North Carolina Policy Collaboratory at the University of North Carolina at Chapel Hill (Collaboratory) shall identify faculty expertise, technology, and instrumentation, including mass spectrometers, located within institutions of higher education in the State, including 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, and coordinate these faculty and resources to conduct nontargeted analysis for PFAS, including GenX, at all public water supply surface water intakes and one public water supply well selected by each municipal water system that operates groundwater wells for public drinking water supplies as identified by the Department of Environmental Quality, to establish a water quality baseline for all sampling sites. The Collaboratory, in consultation with the participating institutions of higher education, shall establish a protocol for the baseline testing required by this subsection, as well as a protocol for periodic retesting of the municipal intakes and additional public water supply wells.”*

In order to fulfil our legal requirements to the State, it is my hope that municipal and county governments as well as any other entity that is operating a public water supply as defined and identified by the North Carolina Department of Environmental Quality, allow access to their relevant facilities, including water treatment plants and well fields, and understand that your role in acquiring and analyzing samples at these sites is research being conducted on behalf of the Collaboratory to comply with our legal mandate set forth in Sections 13.1.(f) through (l) of S.L. 2018-5 passed in 2018 by the NCGA.

In closing, please let me thank you both for lending your time, expertise, staff, and students to this important issue. I look forward to seeing your results.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeffrey Warren". The signature is fluid and cursive, with a large initial "J" and a long, sweeping underline.

Jeffrey Warren, PhD  
Research Director



May 8, 2019

Morton Barlaz, PhD  
Distinguished University Professor and Head  
Department of Civil, Construction, and Environmental Engineering  
North Carolina State University  
Campus Box 7908  
Raleigh, NC 27695-7908

Dear Professor Barlaz,

I would like to take this opportunity to thank you for being an active and current member of Team 5 (Other Applied R&D) of the North Carolina PFAST (Per- and Polyfluoroalkyl Substances Testing) Network, specifically your research on the potential impact of PFAS from solid waste to North Carolina's drinking water resources. As you know, in passing Session Law (S.L.) 2018-5 (Section 13.1 through I), the NC General Assembly (NCGA) has mandated that the NC Policy Collaboratory (Collaboratory) assemble our academic experts from institutions of higher learning across our State to generate a statewide baseline dataset to better understand the extent and impact PFAS may be having on our State.

In Section 13.1.(I) of S.L. 2018-5, the NCGA has authorized the Collaboratory to, among other things, use *"relevant faculty expertise, technology, and instrumentation existing through institutions identified, [to] evaluate other research opportunities and conduct such research for improved water quality sampling and analyses techniques, data interpretation, and potential mitigation measures that may be necessary, with respect to the discharge of PFAS, including GenX."* Your project was vetted and selected by the Collaboratory, its project management team at the Gillings Global School of Public Health at UNC Chapel Hill, and its NC PFAST Network Executive Advisory Committee (chaired by Drs. Detlef Knappe at NC State and Lee Ferguson at Duke).

In order to fulfil our legal requirements to the State, it is my hope that municipal and county governments continue to allow access to their relevant facilities, including solid waste landfills and water treatment plants, and understand that your role in acquiring and analyzing samples at these sites is research being conducted on behalf of the Collaboratory to comply with our legal mandate set forth in Section 13.1.(I) of S.L. 2018-5 passed in 2018 by the NCGA.

In closing, please let me thank you for lending your time and expertise to this important issue. I look forward to seeing your results.

Sincerely,



Jeffrey Warren, PhD  
Research Director

# APPENDIX IV

## LIST OF MEETINGS, WORKSHOPS, AND CONFERENCES IN WHICH NC PFAST NETWORK SCIENTISTS PRESENTED INFORMATION RELATED TO THE ONGOING RESEARCH STUDY

American Chemical Society Spring National Meeting, Orlando, FL, Mar.31-Apr.4, 2019

Presentations by Dr. Detlef Knappe “Drinking water quality and treatment challenges associated with per- and polyfluoroalkyl substances”, and C. Zhang “Fate of Per- and Polyfluoroalkyl Ether Acids in the Total Oxidizable Precursor Assay.”

NC American Water Works Association’s 2019 Spring Symposium, Wrightsville Beach, NC, Apr. 1-2, 2019

Dr. Kathleen Gray presented in a special session on PFAS. It was an opportunity to engage water utilities, industry and other members of the regulated community in dialogue about challenges they face in sharing information about PFAS with utility customers.

2019 Second Annual Endocrine Disrupting Chemicals-North Carolina (EDC-NC) Society scientific meeting at the National Institute of Environmental Health Sciences, RTP, NC, April 5, 2019

Representing the PFAST Network’s Applied Research Team, Dr. Jackie Bangma gave a talk on PFAS in local fish populations, and graduate student Bevin Blake won an award for bester poster titled “Perfluoroalkyl Substances Induce Adverse Maternal Fetal Phenotypes and Disrupt the Placenta.”

American Council of Engineering Companies of North Carolina, Inaugural PFAS and Other Emerging Contaminants Conference, Marriott City Center, Raleigh, NC, Apr. 23-24, 2019

Presentations were made by Dr. Detlef Knappe: “Academic Research: Developing the science to help answer community questions” and Dr. Lee Ferguson: “Assessing emerging and legacy polyfluorinated chemicals in North Carolina drinking water sources through targeted and non-targeted monitoring.”

NC State graduate student Lydia Koropecj-Cox won 3<sup>rd</sup> place in the best student poster contest for the poster she presented: “Field determination of PFAS flux from groundwater to streams in a contaminated area of the NC coastal plain.”

Dr. Scott Belcher gave an invited presentation: “What’s in the Water: Studies of alligator and fish exposures and implications for human and environmental health” for the Bald Head Island Conservancy Lecture Series on Apr. 25, 2019.

Dr. Heather Stapleton presented a talk summarizing results from testing in-home filtration technologies for removal of GenX and PFAS at a monthly meeting of the RTP Chapter of the A&WMA (Air and Waste Management Association) on Tuesday, April 30, 2019.

Association of Environmental Engineering and Science Professors (AEESP) 2019 Research and Education Conference at Arizona State University, Tempe, AZ, May 14-16, 2019

Dr. Javad Roostaei and Dr. Jackie MacDonald Gibson presented a talk titled “Risks of Per- and Polyfluoroalkyl Substance in Private Well Water: A Bayesian Network Model.”

NCSU graduate student Zack Hopkins presented a poster on PFAS adsorption by granular activated carbon.

Dr. Jamie DeWitt gave a seminar at Oregon State University on May 28, 2019 about PFAS and the PFAST Network.

2019 Emerging Contaminants in the Environment Conference (ECEC19), Champaign, IL, May 21-22, 2019  
Dr. Jeffrey Warren presented a talk titled "Establishing a Collaborative Per- And Polyfluoroalkyl Substances (PFAS) Testing Network in North Carolina."

67<sup>th</sup> Annual conference of the American Society for Mass Spectrometry and Allied Topics (ASMS) Atlanta, GA, Jun. 2-6, 2019

Dr. Gordon Getzinger presented a poster titled "Improving non-target identification of organic contaminants by probabilistic ranking of putative structure assignments by HR/AM MS(/MS) and computational mass spectrometry," and Dr. Noelle DeStefano presented results during the *Environmental MS: Detection of Emerging Contaminants* workshop titled "HRMS Strategies to Detect Emerging PFAS in NC Drinking Water Sources."

American Water Works Association Annual Conference and Exhibition, Denver, CO, June 9-12, 2019  
Oral presentation by Zach Hopkins and Dr. Detlef Knappe: "Factors affecting the adsorptive removal of recently discovered per- and polyfluoroalkyl ether acids."

The 2019 Per- and Polyfluoroalkyl Substances: Second National Conference held at Northeastern University, Boston, MA, June 10-12, 2019

Dr. Detlef Knappe presented in the session: Manufacturing Sites Beyond PFOA/PFOS and Dr. Jamie DeWitt presented in the session: Linking science to regulation and community health.

During June 16-22, 2019, Dr. Scott Belcher was a Diplomat to the Organization for Economic Development and Economic Cooperation (Paris, France) where he served as a scientific expert on chemical safety and risk assessment.

The Risk Communications Team organized their second Science Café at the NC Museum of Natural Sciences in Raleigh, NC on June 20, 2019 featuring Dr. Lee Ferguson and Dr. Jamie DeWitt. Approximately 70 people attended to hear updates on PFAS water sampling and analysis and immunotoxicity studies.

# **APPENDIX V**

**LIST OF MUNICIPAL WATER SYSTEM SITES SAMPLED FOR GENX AND  
PFAS ANALYSIS THROUGH THE END OF JUNE, 2019**

At end of June 2019, the first round of sampling has been completed for the following treatment facilities. Note that facilities listed more than once were sampled at multiple intake points:

WS ID	WATER SYSTEM NAME
NC0319015	PITTSBORO, TOWN OF
NC0319126	CHATHAM CO-NORTH
NC0343045	HARNETT CO DEPT OF PUBLIC UTIL
NC0353010	SANFORD, CITY OF
NC0353130	PILGRIM'S PRIDE WATER SYSTEM
NC0392020	CARY, TOWN OF
NC0326040	WADE, TOWN OF
NC0351015	SELMA, TOWN OF
NC0351040	PINE LEVEL, TOWN OF
NC0351045	MICRO, TOWN OF
NC0382035	NEWTON GROVE, TOWN OF
NC0343010	DUNN, CITY OF
NC0351010	SMITHFIELD, TOWN OF
NC0392010	RALEIGH, CITY OF
NC0351070	JOHNSTON CO-WEST
NC0197050	RONDA, TOWN OF
NC0299015	YADKINVILLE, TOWN OF
NC0299020	BOONVILLE, TOWN OF
NC0149010	STATESVILLE, CITY OF
NC0197010	NORTH WILKESBORO, TOWN OF
NC0197025	WILKESBORO, TOWN OF
NC0234010	WINSTON-SALEM, CITY OF
NC0285010	KING, CITY OF
NC0286020	ELKIN, TOWN OF
NC0286020	ELKIN, TOWN OF
NC0286030	DOBSON, TOWN OF
NC0299010	JONESVILLE, TOWN OF
NC0392992	HARRIS NUCLEAR PLANT WATER SYSTEM
NC0392992	HARRIS NUCLEAR PLANT WATER SYSTEM
NC0407020	AURORA WATER SYSTEM
NC0407025	CHOCOWINITY WATER SYSTEM
NC0407030	BATH WATER SYSTEM
NC0489010	COLUMBIA WATER SYSTEM
NC0494010	PLYMOUTH WATER SYSTEM
NC0494020	CRESWELL TOWN OF
NC0201015	GRAHAM, CITY OF
NC0273010	ROXBORO, CITY OF
NC0332010	DURHAM, CITY OF

WS ID	WATER SYSTEM NAME
NC0332010	DURHAM, CITY OF
NC0368010	ORANGE WATER & SEWER AUTHORITY
NC0368010	ORANGE WATER & SEWER AUTHORITY
NC0368015	HILLSBOROUGH, TOWN OF
NC0368020	ORANGE-ALAMANCE WATER SYSTEM
NC0416010	BEAUFORT, TOWN OF
NC0309050	EAST ARCADIA, TOWN OF
NC0410130	THE VILLAGE OF BALD HEAD ISLAND
NC0465015	CAROLINA BEACH WATER SYSTEM
NC0465020	WRIGHTSVILLE BEACH WATER SYST
NC0465025	KURE BEACH WATER SYSTEM
NC0471015	SURF CITY, TOWN OF
NC0471020	TOPSAIL BEACH, TOWN OF
NC7071054	TOWN OF ATKINSON
NC0410045	BRUNSWICK COUNTY WATER SYSTEM
NC0465010	CFPUA-WILMINGTON
NC7071011	PENDER COUNTY UTILITIES
NC0180050	CLEVELAND, TOWN OF
NC0180055	FAITH, TOWN OF
NC0113010	CONCORD, CITY OF
NC0113010	CONCORD, CITY OF
NC0113010	CONCORD, CITY OF
NC0113020	MOUNT PLEASANT, TOWN OF (WSACC)
NC0113020	MOUNT PLEASANT, TOWN OF (WSACC)
NC0180010	SALISBURY-ROWAN
NC0180065	KANNAPOLIS, CITY OF
NC0180065	KANNAPOLIS, CITY OF
NC0180065	KANNAPOLIS, CITY OF
NC0184010	ALBEMARLE, CITY OF
NC0184010	ALBEMARLE, CITY OF
NC0230015	DAVIE COUNTY WATER SYSTEM
NC0230015	DAVIE COUNTY WATER SYSTEM
NC0217015	MILTON, TOWN OF
NC0201010	BURLINGTON, CITY OF
NC0201010	BURLINGTON, CITY OF
NC0217010	YANCEYVILLE, TOWN OF
NC0239107	SOUTH GRANVILLE WTR&SEWER AUTHORITY
NC0241010	GREENSBORO, CITY OF
NC0241010	GREENSBORO, CITY OF
NC0273010	ROXBORO, CITY OF

WS ID	WATER SYSTEM NAME
NC0273409	ROXBORO STEAM PLANT
NC0279010	EDEN, CITY OF
NC0279020	REIDSVILLE, CITY OF
NC0279025	MAYODAN, TOWN OF
NC0279030	MADISON, TOWN OF
NC0464025	SPRING HOPE, TOWN OF
NC0464035	BAILEY, TOWN OF
NC0498045	SIMS TOWN OF
NC0235010	FRANKLINTON, TOWN OF
NC0235010	FRANKLINTON, TOWN OF
NC0235015	LOUISBURG, TOWN OF
NC0392010	RALEIGH, CITY OF
NC0416015	MOREHEAD CITY, TOWN OF
NC0416020	NEWPORT WATER SYSTEM
NC0416035	ATLANTIC BEACH, TOWN OF
NC0425015	HAVELOCK WATER SYSTEM
NC0425020	VANCEBORO WATER SYSTEM
NC0425113	TOWN OF RIVER BEND
NC0452010	MAYSVILLE, TOWN OF
NC0452015	POLLOCKSVILLE, TOWN OF
NC0467010	JACKSONVILLE CITY OF
NC0471010	BURGAW, TOWN OF

# **APPENDIX VI**


**ORIGINAL PUBLIC WATER SAMPLING LOCATIONS (SURFACE  
WATER INTAKES AND GROUNDWATER WELLS) AS DEFINED BY  
THE NC DEPARTMENT OF ENVIRONMENTAL QUALITY**





ROY  
COOPER  
*Governor*  
MICHAEL S. REGAN  
*Secretary*  
LINDA CULPEPPER  
*Interim Director*


June 20, 2018

To: Jim Gregson  
From: Jessica Godreau   
Subject: PFAS sampling sites for public water systems  
In accordance with the Appropriations Act of 2018, SL 2018-5

Enclosed are the requested data relating to surface water intakes and municipal groundwater wells. The surface water intakes file includes information on all surface water intakes and their corresponding sampling points for all public water systems. The Safe Drinking Water Information System (SDWIS) database does not have any designation for municipal public water systems, but there is a field to capture if the water system is a local government. We cross referenced the list of municipalities on the League of Municipalities website and deleted public water systems that were not included on their list, except for the Town of Oakboro. Oakboro, from what we could see on the town website, should be included in our list of municipal public water systems.

Please distribute the list as appropriate and let me know if you have any questions or need additional information.

cc: Linda Culpepper  
Jay Frick  
Rebecca Sadosky  
Jeffrey Talbott

  
State of North Carolina | Environmental Quality | Water Resources  
Public Water Supply Section  
1634 Mail Service Center | Raleigh, North Carolina 27699-1634  
919-707-9100 | Lab Fax 919 715 6637 | Admin Fax 919 715 4374 | [www.ncwater.org/pws/](http://www.ncwater.org/pws/)

**Public surface water intakes eligible for sampling submitted to Collaboratory by NC DEQ on June 25, 2018 (190 surface water intakes). This list is amended from the first list of surface water intakes from NC DEQ submitted on June 21, 2015 and amended by NC DEQ on June 25, 2018 to remove from the list the Town of Andrews Murphy interconnect surface water intake (i.e., original list contained 191 surface water intakes and amended list contained 190 surface water intakes).**

<b>Water System ID</b>	<b>Water System Name</b>	<b>WS Activity Status Code</b>	<b>Water System Federal Type Code</b>	<b>County</b>	<b>Owner Type Code</b>	<b>Facility ID</b>	<b>Facility Name</b>
NC0100010	BURNSVILLE, TOWN OF	A	C	YANCEY	L	S01	CANE RIVER
NC0100010	BURNSVILLE, TOWN OF	A	C	YANCEY	L	S02	BOLENS CREEK
NC0105015	JEFFERSON, TOWN OF	A	C	ASHE	L	S01	SO FORK NEW RIVER
NC0111010	ASHEVILLE CITY OF	A	C	BUNCOMBE	L	S01	NORTH FORK RESERVOIR
NC0111010	ASHEVILLE CITY OF	A	C	BUNCOMBE	L	S02	BEE TREE RESERVOIR
NC0111010	ASHEVILLE CITY OF	A	C	BUNCOMBE	L	S03	MILLS RIVER
NC0111010	ASHEVILLE CITY OF	A	C	BUNCOMBE	L	S05	FRENCH BROAD
NC0111015	WOODFIN SANITARY WATER AND SEWER	A	C	BUNCOMBE	L	S01	SUGAR FORK
NC0111025	WEAVERVILLE, TOWN OF	A	C	BUNCOMBE	L	S04	IVY RIVER
NC0112010	VALDESE, TOWN OF	A	C	BURKE	L	S01	LAKE RHODHISS
NC0112015	MORGANTON CITY OF	A	C	BURKE	L	S01	CATAWBA RIVER
NC0113010	CONCORD, CITY OF	A	C	CABARRUS	L	S01	LAKE FISHER/COLDWATER CRK
NC0113010	CONCORD, CITY OF	A	C	CABARRUS	L	S02	LAKE CONCORD/COLDWATER CR
NC0113010	CONCORD, CITY OF	A	C	CABARRUS	L	S03	LAKE DON T HOWELL
NC0113020	MOUNT PLEASANT, TOWN OF (WSACC)	A	C	CABARRUS	L	S01	DUTCH BUFFALO CREEK
NC0113020	MOUNT PLEASANT, TOWN OF (WSACC)	A	C	CABARRUS	L	S02	BLACK RUN CRK RESERVIOR
NC0114010	LENOIR, CITY OF	A	C	CALDWELL	L	S01	LAKE RHODHISS
NC0114030	GRANITE FALLS, TOWN OF	A	C	CALDWELL	L	S01	LAKE RHODHISS
NC0118010	HICKORY CITY OF	A	C	CATAWBA	L	S01	CATAWBA RIV/LAKE HICKORY
NC0118015	NEWTON, CITY OF	A	C	CATAWBA	L	S01	JACOB FORK/CATAWBA RIV
NC0118015	NEWTON, CITY OF	A	C	CATAWBA	L	S02	CITY LAKE
NC0120010	MURPHY, TOWN OF	A	C	CHEROKEE	L	S01	HIWASSEE RIVER
NC0120020	ANDREWS, TOWN OF	A	C	CHEROKEE	L	S01	BEAVER CREEK RESERVOIR
NC0120020	ANDREWS, TOWN OF	A	C	CHEROKEE	L	S02	DAN HOLLAND CREEK RESERVIOR
NC0123010	SHELBY, CITY OF	A	C	CLEVELAND	L	S01	FIRST BROAD RIVER

NC0123020	KINGS MOUNTAIN, TOWN OF	A	C	CLEVELAND	L	S01	MOSS LAKE
NC0123055	CLEVELAND COUNTY WATER	A	C	CLEVELAND	L	S01	1ST BROAD RIVER
NC0123055	CLEVELAND COUNTY WATER	A	C	CLEVELAND	L	S02	KNOB CREEK
NC0136010	TWO RIVERS UTILITIES	A	C	GASTON	L	S02	MTN ISLAND LAKE
NC0136015	BELMONT, CITY OF	A	C	GASTON	L	S01	CATAWBA RIV-LAKE WYLIE
NC0136020	MOUNT HOLLY, CITY OF	A	C	GASTON	L	S01	MOUNTAIN ISLAND LAKE
NC0136025	BESSEMER CITY, CITY OF	A	C	GASTON	L	S10	LONG CREEK
NC0136025	BESSEMER CITY, CITY OF	A	C	GASTON	L	S11	ARROWWOOD LAKE
NC0136030	CHERRYVILLE, CITY OF	A	C	GASTON	L	S01	INDIAN CREEK
NC0136065	DALLAS, TOWN OF	A	C	GASTON	L	S01	S FORK CATAWBA RIVER
NC0138010	ROBBINSVILLE, TOWN OF	A	C	GRAHAM	L	S02	ROCK CREEK
NC0138010	ROBBINSVILLE, TOWN OF	A	C	GRAHAM	L	S03	BURGIN CREEK
NC0138010	ROBBINSVILLE, TOWN OF	A	C	GRAHAM	L	S04	LONG CREEK
NC0138101	TOWN OF FONTANA DAM	A	C	GRAHAM	L	S01	FONTANA LAKE
NC0144010	WAYNESVILLE, TOWN OF	A	C	HAYWOOD	L	S01	ALLENS CREEK RESERVOIR
NC0144015	CANTON, TOWN OF	A	C	HAYWOOD	L	S01	PIGEON RIVER
NC0144040	MAGGIE VALLEY SANITARY DIST	A	C	HAYWOOD	L	S01	CAMBELL'S CREEK
NC0144040	MAGGIE VALLEY SANITARY DIST	A	C	HAYWOOD	L	S02	JONATHANS CREEK
NC0145010	HENDERSONVILLE, CITY OF	A	C	HENDERSON	L	S01	MILLS RIVER
NC0145010	HENDERSONVILLE, CITY OF	A	C	HENDERSON	L	S2A	BRADLEY CREEK
NC0145010	HENDERSONVILLE, CITY OF	A	C	HENDERSON	L	S2B	NO FORK-MILLS RIVER
NC0149010	STATESVILLE, CITY OF	A	C	IREDELL	L	S01	SOUTH FORK YADKIN RIVER
NC0149010	STATESVILLE, CITY OF	A	C	IREDELL	L	SW2	LOOKOUT SHOALS
NC0149015	MOORESVILLE TOWN OF	A	C	IREDELL	L	S01	LAKE NORMAN
NC0150035	TUCKASEIGEE WATER & SEWER AUTH	A	C	JACKSON	L	S01	TUCKASEGEE RIVER
NC0150116	WESTERN CAROLINA UNIV WTP	A	C	JACKSON	S	S01	TUCKASEIGEE RIVER
NC0155010	LINCOLNTON, CITY OF	A	C	LINCOLN	L	S01	S FORK CATAWBA RIVER
NC0155035	LINCOLN COUNTY WTP	A	C	LINCOLN	L	S01	LAKE NORMAN
NC0156010	MARION, CITY OF	A	C	MCDOWELL	L	S01	BUCK CREEK
NC0156010	MARION, CITY OF	A	C	MCDOWELL	L	S02	MACKEY CREEK
NC0156010	MARION, CITY OF	A	C	MCDOWELL	L	S03	CLEAR CREEK
NC0157010	FRANKLIN, TOWN OF	A	C	MACON	L	S01	CARTOOGECHAYE RIVER
NC0157015	HIGHLANDS, TOWN OF	A	C	MACON	L	S01	BIG CREEK
NC0157015	HIGHLANDS, TOWN OF	A	C	MACON	L	S02	LAKE SEQUOIA

NC0157015	HIGHLANDS, TOWN OF	A	C	MACON	L	S03	LAKE SEQUOIA
NC0158010	MARS HILL, TOWN OF	A	C	MADISON	L	S01	LAUREL CREEK RESERVIOIR
NC0158010	MARS HILL, TOWN OF	A	C	MADISON	L	S02	CARTER COVE RESERVOIR
NC0160010	CHARLOTTE WATER	A	C	MECKLENBURG	L	S05	MT ISLAND LAKE/CAT RIVER
NC0160010	CHARLOTTE WATER	A	C	MECKLENBURG	L	S06	LAKE NORMAN
NC0161010	SPRUCE PINE, TOWN OF	A	C	MITCHELL	L	001	BEAVER CREEK
NC0161010	SPRUCE PINE, TOWN OF	A	C	MITCHELL	L	002	TOE RIVER
NC0175010	TRYON, TOWN OF	A	C	POLK	L	S01	LAKE LANIER
NC0175010	TRYON, TOWN OF	A	C	POLK	L	S02	BIG FALLS CREEK
NC0175010	TRYON, TOWN OF	A	C	POLK	L	S3A	FORK CREEK
NC0175010	TRYON, TOWN OF	A	C	POLK	L	S3B	COLT CREEK
NC0180010	SALISBURY-ROWAN	A	C	ROWAN	L	S01	YADKIN RIVER
NC0180065	KANNAPOLIS, CITY OF	A	C	ROWAN	L	K01	KANNAPOLIS LAKE
NC0180065	KANNAPOLIS, CITY OF	A	C	ROWAN	L	K02	CODDLE CREEK
NC0180065	KANNAPOLIS, CITY OF	A	C	ROWAN	L	K03	SECOND CREEK/BACK CREEK
NC0181010	FOREST CITY, TOWN OF	A	C	RUTHERFORD	L	S01	2ND BROAD RIVER
NC0181035	BROAD RIVER WATER AUTHORITY	A	C	RUTHERFORD	L	S01	BROAD RIVER NARROWS RESERVOIR/BADIN L
NC0184010	ALBEMARLE, CITY OF	A	C	STANLY	L	OW1	
NC0184010	ALBEMARLE, CITY OF	A	C	STANLY	L	TT1	TUCKERTOWN RESERVOIR
NC0184015	NORWOOD, TOWN OF	A	C	STANLY	L	RW1	LAKE TILLERY
NC0187010	BRYSON CITY, TOWN OF	A	C	SWAIN	L	S01	DEEP CREEK
NC0188010	BREVARD, CITY OF	A	C	TRANSYLVANIA	L	S01	CATHEY'S CREEK
NC0188010	BREVARD, CITY OF	A	C	TRANSYLVANIA	L	S01	CATHEY'S CREEK
NC0190010	MONROE, CITY OF	A	C	UNION	L	001	LAKE TWITTY
NC0195010	BOONE, TOWN OF	A	C	WATAUGA	L	SF2	S FORK NEW RIV
NC0195010	BOONE, TOWN OF	A	C	WATAUGA	L	WC1	WINKLERS CREEK
NC0195020	BLOWING ROCK, TOWN OF	A	C	WATAUGA	L	S01	TOWN LAKE
NC0195020	BLOWING ROCK, TOWN OF	A	C	WATAUGA	L	S02	LAKE CHETOLA
NC0195101	APPALACHIAN STATE UNIV WTP	A	C	WATAUGA	S	RW1	NORRIS BRANCH
NC0195101	APPALACHIAN STATE UNIV WTP	A	C	WATAUGA	S	RW2	HOWARDS CREEK
NC0195104	BEECH MOUNTAIN, TOWN OF	A	C	WATAUGA	L	RW1	BUCKEYE CREEK
NC0197010	NORTH WILKESBORO, TOWN OF	A	C	WILKES	L	FL1	REDDIES RIVER
NC0197025	WILKESBORO, TOWN OF	A	C	WILKES	L	RW1	YADKIN RIVER
NC0201010	BURLINGTON, CITY OF	A	C	ALAMANCE	L	RW1	LAKE MACKINTOSH

NC0201010	BURLINGTON, CITY OF	A	C	ALAMANCE	L	RW2	STONE CREEK RESERVOIR
NC0201015	GRAHAM, CITY OF	A	C	ALAMANCE	L	RW1	GRAHAM-MEBANE LAKE
NC0217010	YANCEYVILLE, TOWN OF	A	C	CASWELL	L	001	FARMER LAKE
NC0229010	LEXINGTON, CITY OF	A	C	DAVIDSON	L	TA1	THOM-A-LEX LAKE
NC0229020	THOMASVILLE, CITY OF	A	C	DAVIDSON	L	RW1	TOM-A-LEX LAKE
NC0229025	DAVIDSON WATER INC	A	C	DAVIDSON	P	RW1	YADKIN RIVER
NC0229030	DENTON, TOWN OF	A	C	DAVIDSON	L	RW1	YADKIN RIVER
NC0230010	MOCKSVILLE, TOWN OF	A	C	DAVIE	L	WP1	HUNTING CREEK
NC0230015	DAVIE COUNTY WATER SYSTEM	A	C	DAVIE	L	S01	SOUTH YADKIN RIVER
NC0230015	DAVIE COUNTY WATER SYSTEM	A	C	DAVIE	L	S02	SOUTH YADKIN TAILRACE
NC0230015	DAVIE COUNTY WATER SYSTEM	A	C	DAVIE	L	S03	YADKIN RIVER
NC0234010	WINSTON-SALEM, CITY OF	A	C	FORSYTH	L	001	YADKIN RIVER (IDOLS DAM)
NC0234010	WINSTON-SALEM, CITY OF	A	C	FORSYTH	L	002	YADKIN RIVER (PWSWANN WTP DAM)
NC0234010	WINSTON-SALEM, CITY OF	A	C	FORSYTH	L	010	SALEM LAKE
NC0235010	FRANKLINTON, TOWN OF	A	C	FRANKLIN	L	S01	TAYLOR CREEK
NC0235010	FRANKLINTON, TOWN OF	A	C	FRANKLIN	L	S02	CEDAR CREEK
NC0235015	LOUISBURG, TOWN OF	A	C	FRANKLIN	L	R01	TAR RIVER
NC0239107	SOUTH GRANVILLE WTR&SEWER AUTHORITY	A	C	GRANVILLE	L	S01	KNAPP OF REEDS CRK
NC0241010	GREENSBORO, CITY OF	A	C	GUILFORD	L	LB2	LAKE BRANDT
NC0241010	GREENSBORO, CITY OF	A	C	GUILFORD	L	LT1	LAKE TOWNSEND
NC0241020	HIGH POINT, CITY OF	A	C	GUILFORD	L	RW1	CITY LAKE
NC0241020	HIGH POINT, CITY OF	A	C	GUILFORD	L	RW2	OAK HOLLOW LAKE
NC0273010	ROXBORO, CITY OF	A	C	PERSON	L	S01	CITY LAKE
NC0273010	ROXBORO, CITY OF	A	C	PERSON	L	S02	LAKE ROXBORO
NC0273409	ROXBORO STEAM PLANT	A	NTNC	PERSON	P	S01	HYCO LAKE
NC0276010	ASHEBORO, CITY OF	A	C	RANDOLPH	L	003	LAKE BUNCH
NC0276010	ASHEBORO, CITY OF	A	C	RANDOLPH	L	004	LAKE LUCAS
NC0276010	ASHEBORO, CITY OF	A	C	RANDOLPH	L	005	LAKE REESE
NC0276020	RAMSEUR, TOWN OF	A	C	RANDOLPH	L	001	SANDY CREEK RESERVOIR
NC0279010	EDEN, CITY OF	A	C	ROCKINGHAM	L	R01	DAN RIVER
NC0279020	REIDSVILLE, CITY OF	A	C	ROCKINGHAM	L	RW1	LAKE REIDSVILLE
NC0279025	MAYODAN, TOWN OF	A	C	ROCKINGHAM	L	281	MAYO RIVER
NC0279030	MADISON, TOWN OF	A	C	ROCKINGHAM	L	RW1	DAN RIVER
NC0285010	KING, CITY OF	A	C	STOKES	L	RW1	YADKIN RIVER

NC0286010	MOUNT AIRY, CITY OF	A	C	SURRY	L	246	STEWARTS CREEK
NC0286010	MOUNT AIRY, CITY OF	A	C	SURRY	L	426	LOVILLS CREEK
NC0286020	ELKIN, TOWN OF	A	C	SURRY	L	S01	BIG ELKIN CREEK
NC0286020	ELKIN, TOWN OF	A	C	SURRY	L	S02	YADKIN RIVER
NC0286025	PILOT MOUNTAIN, TOWN OF	A	C	SURRY	L	RW1	TOMS CREEK
NC0286030	DOBSON, TOWN OF	A	C	SURRY	L	007	FISHER RIVER
NC0291010	HENDERSON-KERR LAKE REG WTR	A	C	VANCE	L	S01	KERR LAKE
NC0299010	JONESVILLE, TOWN OF	A	C	YADKIN	L	009	YADKIN RIVER
NC0299015	YADKINVILLE, TOWN OF	A	C	YADKIN	L	RW1	SOUTH DEEP CREEK
NC0304010	ANSON COUNTY WATER SYSTEM	A	C	ANSON	L	S01	PEE DEE RIVER
NC0319010	SILER CITY, CITY OF	A	C	CHATHAM	L	S01	ROCKY RIVER (LOWER)
NC0319015	PITTSBORO, TOWN OF	A	C	CHATHAM	L	S01	HAW RIVER
NC0319126	CHATHAM CO-NORTH	A	C	CHATHAM	L	S01	JORDAN LAKE
NC0326010	FAYETTEVILLE PUBLIC WORKS COMM	A	C	CUMBERLAND	L	S01	CAPE FEAR RIVER
NC0326010	FAYETTEVILLE PUBLIC WORKS COMM	A	C	CUMBERLAND	L	S02	GLENVILLE LAKE
NC0332010	DURHAM, CITY OF	A	C	DURHAM	L	S01	LITTLE RIVER RESERVOIR
NC0332010	DURHAM, CITY OF	A	C	DURHAM	L	S02	LAKE MICHIE
NC0343010	DUNN, CITY OF	A	C	HARNETT	L	S01	CAPE FEAR RIVER
NC0343045	HARNETT CO DEPT OF PUBLIC UTIL	A	C	HARNETT	L	S01	CAPE FEAR RIVER
NC0351010	SMITHFIELD, TOWN OF	A	C	JOHNSTON	L	S01	NEUSE RIVER
NC0351070	JOHNSTON CO-WEST	A	C	JOHNSTON	L	S01	NEUSE RIVER
NC0353010	SANFORD, CITY OF	A	C	LEE	L	S01	CAPE FEAR RIVER
NC0353130	PILGRIM'S PRIDE WATER SYSTEM	A	NTNC	LEE	P	S01	DEEP RIVER
NC0362010	MONTGOMERY COUNTY WATER SYSTEM	A	C	MONTGOMERY	L	S01	LAKE TILLERY
NC0363010	SOUTHERN PINES, TOWN OF	A	C	MOORE	L	S01	DROWNING CREEK
NC0363025	CARTHAGE, TOWN OF	A	C	MOORE	L	S01	TOWN POND
NC0363025	CARTHAGE, TOWN OF	A	C	MOORE	L	S02	NICKS CREEK
NC0368010	ORANGE WATER & SEWER AUTHORITY	A	C	ORANGE	L	S01	UNIVERSITY LAKE
NC0368010	ORANGE WATER & SEWER AUTHORITY	A	C	ORANGE	L	S02	CANE CREEK RESERVOIR
NC0368015	HILLSBOROUGH, TOWN OF	A	C	ORANGE	L	S01	ENO RIVER
NC0368020	ORANGE-ALAMANCE WATER SYSTEM	A	C	ORANGE	P	S01	ENO RIVER/CORP LAKE
NC0377010	HAMLET WATER SYSTEM	A	C	RICHMOND	L	S01	WATER LAKE
NC0377015	ROCKINGHAM, CITY OF	A	C	RICHMOND	L	S01	ROBERDEL LAKE
NC0377015	ROCKINGHAM, CITY OF	A	C	RICHMOND	L	S04	CITY LAKE DAM

NC0377109	RICHMOND COUNTY WATER SYSTEM	A	C	RICHMOND	L	S01	PEE DEE RIVER
NC0378010	LUMBERTON, CITY OF	A	C	ROBESON	L	S01	LUMBER RIVER
NC0378010	LUMBERTON, CITY OF	A	C	ROBESON	L	S01	LUMBER RIVER
NC0392010	RALEIGH, CITY OF	A	C	WAKE	L	S01	FALLS OF THE NEUSE
NC0392010	RALEIGH, CITY OF	A	C	WAKE	L	S02	LAKE BENSON
NC0392020	CARY, TOWN OF	A	C	WAKE	L	S01	JORDAN LAKE
NC0392992	HARRIS NUCLEAR PLANT WATER SYSTEM	A	NTNC	WAKE	P	S01	HARRIS LAKE
NC0392992	HARRIS NUCLEAR PLANT WATER SYSTEM	A	NTNC	WAKE	P	S02	HARRIS LAKE AUX RESERV
NC0410045	BRUNSWICK COUNTY WATER SYSTEM	A	C	BRUNSWICK	L	S01	CAPE FEAR RIVER
NC0424820	INTERNATIONAL PAPER COMPANY	A	NTNC	COLUMBUS	P	S01	CAPE FEAR RIVER
NC0433010	TARBORO, TOWN OF	A	C	EDGEcombe	L	S01	TAR RIVER
NC0442010	ROANOKE RAPIDS SANITARY DIST	A	C	HALIFAX	L	S01	ROANOKE RAPIDS LAKE
NC0442010	ROANOKE RAPIDS SANITARY DIST	A	C	HALIFAX	L	S02	ROANOKE RIVER
NC0442020	WELDON WATER SYSTEM	A	C	HALIFAX	L	S01	ROANOKE RIVER
NC0442025	ENFIELD WATER SYSTEM	A	C	HALIFAX	L	S01	FISHING CREEK
NC0464010	ROCKY MOUNT, CITY OF	A	C	NASH	L	S01	TAR R @ SUNSET
NC0464010	ROCKY MOUNT, CITY OF	A	C	NASH	L	S02	TAR R @ RESERV
NC0465010	CFPUA-WILMINGTON	A	C	NEW HANOVER	L	KB1	CAPE FEAR RIVER KINGS BLUFF
NC0465010	CFPUA-WILMINGTON	A	C	NEW HANOVER	L	LCF	LOWER CAPE FEAR WSA - KINGS BLUFF
NC0474010	GREENVILLE UTILITIES COMM	A	C	PITT	L	S01	TAR RIVER
NC0496010	GOLDSBORO, CITY OF	A	C	WAYNE	L	NR1	NEUSE RIVER
NC0498010	WILSON, CITY OF	A	C	WILSON	L	S01	LAWNDALE DR @TOISNOT RESEVOIR
NC0498010	WILSON, CITY OF	A	C	WILSON	L	S02	WIGGINS MILL POND
NC3076010	PIEDMONT TRIAD REGIONAL	A	C	RANDOLPH	L	S01	RANDLEMAN LAKE
NC4051018	JOHNSTON CO-EAST	A	C	JOHNSTON	L	S01	NEUSE RIVER
NC5009012	BLADEN BLUFFS WATER SYSTEM	A	NTNC	BLADEN	P	S01	CAPE FEAR RIVER
NC6054001	NEUSE REGIONAL WTR & SWR AUTH	A	C	LENOIR	P	S01	NEUSE RIVER
NC6059015	MARTIN CO REGIONAL WASA	A	C	MARTIN	L	S01	ROANOKE RIVER
NC7071011	PENDER COUNTY UTILITIES	A	C	PENDER	L	S02	LCFWSA

**Public water wells eligible for sampling submitted to Collaboratory by NC DEQ on 21 June, 2018 (688 total wells from 158 individual municipalities).**

<b>Water System ID</b>	<b>Water System Name</b>	<b>WS Activity Status Code</b>	<b>Water System Federal Type Code</b>	<b>County</b>	<b>Owner Type Code</b>	<b>Facility ID</b>	<b>Facility Name</b>
NC0103010	SPARTA, TOWN OF	A	C	ALLEGHANY	L	W01	WELL #1
NC0103010	SPARTA, TOWN OF	A	C	ALLEGHANY	L	W01	WELL #1
NC0103010	SPARTA, TOWN OF	A	C	ALLEGHANY	L	W02	WELL #2
NC0103010	SPARTA, TOWN OF	A	C	ALLEGHANY	L	W02	WELL #2
NC0103010	SPARTA, TOWN OF	A	C	ALLEGHANY	L	W08	WELL #8
NC0103010	SPARTA, TOWN OF	A	C	ALLEGHANY	L	W08	WELL #8
NC0103010	SPARTA, TOWN OF	A	C	ALLEGHANY	L	W09	WELL #9
NC0103010	SPARTA, TOWN OF	A	C	ALLEGHANY	L	W09	WELL #9
NC0103010	SPARTA, TOWN OF	A	C	ALLEGHANY	L	W10	WELL #10
NC0103010	SPARTA, TOWN OF	A	C	ALLEGHANY	L	W10	WELL #10
NC0103010	SPARTA, TOWN OF	A	C	ALLEGHANY	L	W15	WELL #15
NC0103010	SPARTA, TOWN OF	A	C	ALLEGHANY	L	W17	WELL #17
NC0103010	SPARTA, TOWN OF	A	C	ALLEGHANY	L	W17	WELL #17
NC0103010	SPARTA, TOWN OF	A	C	ALLEGHANY	L	W18	WELL #18
NC0103010	SPARTA, TOWN OF	A	C	ALLEGHANY	L	W19	WELL #19
NC0103010	SPARTA, TOWN OF	A	C	ALLEGHANY	L	W19	WELL #19
NC0105010	WEST JEFFERSON, TOWN OF	A	C	ASHE	L	SP1	SPRING AT MT JEFFERSON
NC0105010	WEST JEFFERSON, TOWN OF	A	C	ASHE	L	W10	WELL #10
NC0105010	WEST JEFFERSON, TOWN OF	A	C	ASHE	L	W11	OAKWOOD WELL
NC0105010	WEST JEFFERSON, TOWN OF	A	C	ASHE	L	W3A	WELL #3A-WEST SEVENTH ST
NC0105010	WEST JEFFERSON, TOWN OF	A	C	ASHE	L	W7A	WELL# 7A
NC0105010	WEST JEFFERSON, TOWN OF	A	C	ASHE	L	W7B	WELL #7B
NC0105010	WEST JEFFERSON, TOWN OF	A	C	ASHE	L	WL3	WELL #3-SEVENTH ST
NC0105010	WEST JEFFERSON, TOWN OF	A	C	ASHE	L	WL4	WELL# 4-JEFFERSONWOOD
NC0105010	WEST JEFFERSON, TOWN OF	A	C	ASHE	L	WL5	WELL #5-MT JEFFERSON RD
NC0105010	WEST JEFFERSON, TOWN OF	A	C	ASHE	L	WL7	WELL #7-TOWN PARK
NC0105010	WEST JEFFERSON, TOWN OF	A	C	ASHE	L	WL8	WOODS WELL #8
NC0105015	JEFFERSON, TOWN OF	A	C	ASHE	L	W06	WELL #6 WAUGH



NC0105015	JEFFERSON, TOWN OF	A	C	ASHE	L	W07	WELL #7 TYSON
NC0105015	JEFFERSON, TOWN OF	A	C	ASHE	L	W08	WELL #8 WOOD CROFT
NC0105020	LANSING, TOWN OF	A	C	ASHE	L	S05	WELL #5
NC0105020	LANSING, TOWN OF	A	C	ASHE	L	S07	WELL #7
NC0105020	LANSING, TOWN OF	A	C	ASHE	L	S09	WELL #9
NC0106010	CROSSNORE, TOWN OF	A	C	AVERY	L	W03	WELL #3
NC0106010	CROSSNORE, TOWN OF	A	C	AVERY	L	W04	WELL #4
NC0106015	BANNER ELK, TOWN OF	A	C	AVERY	L	W01	WELL #1
NC0106015	BANNER ELK, TOWN OF	A	C	AVERY	L	W02	WELL #2 (COOK WELL)
NC0106015	BANNER ELK, TOWN OF	A	C	AVERY	L	W03	WELL #3
NC0106015	BANNER ELK, TOWN OF	A	C	AVERY	L	W05	WELL #5
NC0106020	NEWLAND, TOWN OF	A	C	AVERY	L	W01	WELL #1
NC0106020	NEWLAND, TOWN OF	A	C	AVERY	L	W02	WELL #2
NC0106020	NEWLAND, TOWN OF	A	C	AVERY	L	W03	WELL #3
NC0106020	NEWLAND, TOWN OF	A	C	AVERY	L	W04	WELL #4
NC0106020	NEWLAND, TOWN OF	A	C	AVERY	L	W05	WELL #5
NC0106025	ELK PARK, TOWN OF	A	C	AVERY	L	W01	WELL #1
NC0106025	ELK PARK, TOWN OF	A	C	AVERY	L	W02	WELL #2
NC0407010	WASHINGTON, CITY OF	A	C	BEAUFORT	L	W01	WINSTEAD SITE
NC0407010	WASHINGTON, CITY OF	A	C	BEAUFORT	L	W02	DOUGLAS CROSS RDS
NC0407010	WASHINGTON, CITY OF	A	C	BEAUFORT	L	W03	MIDWAY
NC0407010	WASHINGTON, CITY OF	A	C	BEAUFORT	L	W04	FORESTRY SERVICE
NC0407010	WASHINGTON, CITY OF	A	C	BEAUFORT	L	W05	GARRIS
NC0407010	WASHINGTON, CITY OF	A	C	BEAUFORT	L	W06	REGIONAL WTP WELL
NC0407010	WASHINGTON, CITY OF	A	C	BEAUFORT	L	W07	TANKARD FARM
NC0407010	WASHINGTON, CITY OF	A	C	BEAUFORT	L	W08	HASSELL
NC0407015	BELHAVEN WATER SYSTEM	A	C	BEAUFORT	L	W01	WELL #1
NC0407015	BELHAVEN WATER SYSTEM	A	C	BEAUFORT	L	W02	WELL #2
NC0407015	BELHAVEN WATER SYSTEM	A	C	BEAUFORT	L	W03	WELL #3
NC0407020	AURORA WATER SYSTEM	A	C	BEAUFORT	L	W01	WELL #1
NC0407020	AURORA WATER SYSTEM	A	C	BEAUFORT	L	W02	WELL #2
NC0407025	CHOCOWINITY WATER SYSTEM	A	C	BEAUFORT	L	W03	WELL# 3
NC0407025	CHOCOWINITY WATER SYSTEM	A	C	BEAUFORT	L	W04	WELL #4
NC0407025	CHOCOWINITY WATER SYSTEM	A	C	BEAUFORT	L	W05	WELL #5

NC0407025	CHOCOWINITY WATER SYSTEM	A	C	BEAUFORT	L	W2A	WELL# 2A
NC0407030	BATH WATER SYSTEM	A	C	BEAUFORT	L	W01	WELL #1
NC0408010	WINDSOR, TOWN OF	A	C	BERTIE	L	SC2	WELL #2 SUTTON DR
NC0408010	WINDSOR, TOWN OF	A	C	BERTIE	L	SC3	WELL #3 WALL ST
NC0408010	WINDSOR, TOWN OF	A	C	BERTIE	L	SC5	COUNTRY CLUB WELL #5
NC0408010	WINDSOR, TOWN OF	A	C	BERTIE	L	W6B	WELL #6B
NC0408010	WINDSOR, TOWN OF	A	C	BERTIE	L	W6C	WELL #6C
NC0408015	AULANDER, TOWN OF	A	C	BERTIE	L	002	WELL #2
NC0408015	AULANDER, TOWN OF	A	C	BERTIE	L	003	WELL #3
NC0408040	POWELLSVILLE, TOWN OF	A	C	BERTIE	L	W01	WELL #1 WYNN ST
NC0408040	POWELLSVILLE, TOWN OF	A	C	BERTIE	L	W02	WELL #2 WATERS ST
NC0309010	ELIZABETHTOWN, TOWN OF	A	C	BLADEN	L	S05	WELL #5
NC0309010	ELIZABETHTOWN, TOWN OF	A	C	BLADEN	L	W04	WELL #4
NC0309010	ELIZABETHTOWN, TOWN OF	A	C	BLADEN	L	W1A	WELL #1A
NC0309010	ELIZABETHTOWN, TOWN OF	A	C	BLADEN	L	W1A	WELL #1A
NC0309010	ELIZABETHTOWN, TOWN OF	A	C	BLADEN	L	W3A	WELL #3A
NC0309015	BLADENBORO, TOWN OF	A	C	BLADEN	L	S09	WELL# 9
NC0309015	BLADENBORO, TOWN OF	A	C	BLADEN	L	W07	WELL #7
NC0309015	BLADENBORO, TOWN OF	A	C	BLADEN	L	W08	WELL #8
NC0309020	CLARKTON, TOWN OF	A	C	BLADEN	L	W01	WELL #1
NC0309020	CLARKTON, TOWN OF	A	C	BLADEN	L	W02	WELL #2
NC0309020	CLARKTON, TOWN OF	A	C	BLADEN	L	W03	WELL #3
NC0309025	DUBLIN, TOWN OF	A	C	BLADEN	L	W03	WELL #3
NC0309030	WHITE LAKE, TOWN OF	A	C	BLADEN	L	W01	WELL #1
NC0309030	WHITE LAKE, TOWN OF	A	C	BLADEN	L	W02	WELL #2
NC0309030	WHITE LAKE, TOWN OF	A	C	BLADEN	L	W03	WELL #3A
NC0309050	EAST ARCADIA, TOWN OF	A	C	BLADEN	L	W01	WELL #1
NC0309050	EAST ARCADIA, TOWN OF	A	C	BLADEN	L	W03	WELL #3
NC0410130	THE VILLAGE OF BALD HEAD ISLAND	A	C	BRUNSWICK	L	CFS	CAPE FEAR STATION #1
NC0410130	THE VILLAGE OF BALD HEAD ISLAND	A	C	BRUNSWICK	L	CW1	CENTRAL WELL #1
NC0410130	THE VILLAGE OF BALD HEAD ISLAND	A	C	BRUNSWICK	L	CW2	CENTRAL WELL #2
NC0410130	THE VILLAGE OF BALD HEAD ISLAND	A	C	BRUNSWICK	L	ET1	EDWARD TEACH #1
NC0410130	THE VILLAGE OF BALD HEAD ISLAND	A	C	BRUNSWICK	L	ET2	EDWARD TEACH #2
NC0410130	THE VILLAGE OF BALD HEAD ISLAND	A	C	BRUNSWICK	L	FW1	FEDERAL WELL #1

NC0410130	THE VILLAGE OF BALD HEAD ISLAND	A	C	BRUNSWICK	L	FW2	FEDERAL WELL #2
NC0410130	THE VILLAGE OF BALD HEAD ISLAND	A	C	BRUNSWICK	L	FW3	FEDERAL WELL #3
NC0410130	THE VILLAGE OF BALD HEAD ISLAND	A	C	BRUNSWICK	L	LG1	LAUGHING GULL #1
NC0410130	THE VILLAGE OF BALD HEAD ISLAND	A	C	BRUNSWICK	L	MW1	MUSCADINE #1
NC0410130	THE VILLAGE OF BALD HEAD ISLAND	A	C	BRUNSWICK	L	MW2	MUSCADINE #2
NC0410130	THE VILLAGE OF BALD HEAD ISLAND	A	C	BRUNSWICK	L	OW1	OFFICE WELL #1
NC0410130	THE VILLAGE OF BALD HEAD ISLAND	A	C	BRUNSWICK	L	RJ2	ROYAL JAMES WELL #2
NC0111020	BLACK MOUNTAIN, TOWN OF	A	C	BUNCOMBE	L	W01	WELL #1
NC0111020	BLACK MOUNTAIN, TOWN OF	A	C	BUNCOMBE	L	W03	WELL #3
NC0111020	BLACK MOUNTAIN, TOWN OF	A	C	BUNCOMBE	L	W04	WELL #4
NC0111020	BLACK MOUNTAIN, TOWN OF	A	C	BUNCOMBE	L	W05	WELL #5
NC0111020	BLACK MOUNTAIN, TOWN OF	A	C	BUNCOMBE	L	W10	WELL #10
NC0111020	BLACK MOUNTAIN, TOWN OF	A	C	BUNCOMBE	L	W11	WELL #11
NC0111020	BLACK MOUNTAIN, TOWN OF	A	C	BUNCOMBE	L	W13	WELL #13
NC0111020	BLACK MOUNTAIN, TOWN OF	A	C	BUNCOMBE	L	W16	WELL #16
NC0111020	BLACK MOUNTAIN, TOWN OF	A	C	BUNCOMBE	L	W17	WELL #17
NC0111020	BLACK MOUNTAIN, TOWN OF	A	C	BUNCOMBE	L	W18	WELL #18
NC0111020	BLACK MOUNTAIN, TOWN OF	A	C	BUNCOMBE	L	W19	WELL #19
NC0111020	BLACK MOUNTAIN, TOWN OF	A	C	BUNCOMBE	L	W20	WELL #20
NC0111484	MONTREAT WATER SYSTEM	A	C	BUNCOMBE	L	011	WELL #5
NC0111484	MONTREAT WATER SYSTEM	A	C	BUNCOMBE	L	012	WELL A (WELL #7)
NC0111484	MONTREAT WATER SYSTEM	A	C	BUNCOMBE	L	013	WELL B (WELL #8)
NC0111484	MONTREAT WATER SYSTEM	A	C	BUNCOMBE	L	014	WELL #1
NC0111484	MONTREAT WATER SYSTEM	A	C	BUNCOMBE	L	016	WELL #6
NC0111484	MONTREAT WATER SYSTEM	A	C	BUNCOMBE	L	017	WELL #3
NC0111484	MONTREAT WATER SYSTEM	A	C	BUNCOMBE	L	018	WELL #2
NC0111484	MONTREAT WATER SYSTEM	A	C	BUNCOMBE	L	019	WELL #A01
NC0111484	MONTREAT WATER SYSTEM	A	C	BUNCOMBE	L	020	WELL #A02
NC0111484	MONTREAT WATER SYSTEM	A	C	BUNCOMBE	L	021	WELL #A03
NC0111484	MONTREAT WATER SYSTEM	A	C	BUNCOMBE	L	022	WELL #A04
NC0113025	HARRISBURG, TOWN OF	A	C	CABARRUS	L	S02	WELL #3
NC0113025	HARRISBURG, TOWN OF	A	C	CABARRUS	L	S12	HEATHERSTONE #1
NC0113025	HARRISBURG, TOWN OF	A	C	CABARRUS	L	S13	HEATHERSTONE #2
NC0416010	BEAUFORT, TOWN OF	A	C	CARTERET	L	W02	WELL #2

NC0416010	BEAUFORT, TOWN OF	A	C	CARTERET	L	W03	WELL #3
NC0416010	BEAUFORT, TOWN OF	A	C	CARTERET	L	W04	WELL #4
NC0416010	BEAUFORT, TOWN OF	A	C	CARTERET	L	W05	WELL #5
NC0416015	MOREHEAD CITY, TOWN OF	A	C	CARTERET	L	W03	WELL #3
NC0416015	MOREHEAD CITY, TOWN OF	A	C	CARTERET	L	W04	WELL #4
NC0416015	MOREHEAD CITY, TOWN OF	A	C	CARTERET	L	W05	WELL #5
NC0416015	MOREHEAD CITY, TOWN OF	A	C	CARTERET	L	W06	WELL #6
NC0416020	NEWPORT WATER SYSTEM	A	C	CARTERET	L	W03	WELL #3
NC0416020	NEWPORT WATER SYSTEM	A	C	CARTERET	L	W04	WELL #4
NC0416020	NEWPORT WATER SYSTEM	A	C	CARTERET	L	W05	WELL # 5
NC0416035	ATLANTIC BEACH, TOWN OF	A	C	CARTERET	L	W01	WELL #1
NC0416035	ATLANTIC BEACH, TOWN OF	A	C	CARTERET	L	W02	WELL #2
NC0416035	ATLANTIC BEACH, TOWN OF	A	C	CARTERET	L	W03	WELL #3
NC0416035	ATLANTIC BEACH, TOWN OF	A	C	CARTERET	L	W04	WELL #4
NC0416035	ATLANTIC BEACH, TOWN OF	A	C	CARTERET	L	W05	WELL #5
NC0416035	ATLANTIC BEACH, TOWN OF	A	C	CARTERET	L	W06	WELL #6
NC0217015	MILTON, TOWN OF	A	C	CASWELL	L	006	WELL #6
NC0421010	EDENTON, TOWN OF	A	C	CHOWAN	L	W01	FREEMASON ST WELL
NC0421010	EDENTON, TOWN OF	A	C	CHOWAN	L	W02	VIRGINIA RD WELL
NC0421010	EDENTON, TOWN OF	A	C	CHOWAN	L	W03	BEAVER HILL WELL
NC0421010	EDENTON, TOWN OF	A	C	CHOWAN	L	W04	BOSWELL ST WELL
NC0123045	LAWNDALE, TOWN OF	A	C	CLEVELAND	L	S01	WELL #1
NC0123045	LAWNDALE, TOWN OF	A	C	CLEVELAND	L	S02	WELL #2
NC0424010	WHITEVILLE, CITY OF	A	C	COLUMBUS	L	W04	WELL #4
NC0424010	WHITEVILLE, CITY OF	A	C	COLUMBUS	L	W05	WELL #5
NC0424010	WHITEVILLE, CITY OF	A	C	COLUMBUS	L	W06	WELL #6
NC0424010	WHITEVILLE, CITY OF	A	C	COLUMBUS	L	W07	WELL #7
NC0424010	WHITEVILLE, CITY OF	A	C	COLUMBUS	L	W08	WELL #8
NC0424015	TABOR CITY, TOWN OF	A	C	COLUMBUS	L	100	WELL #1
NC0424015	TABOR CITY, TOWN OF	A	C	COLUMBUS	L	200	WELL #2
NC0424015	TABOR CITY, TOWN OF	A	C	COLUMBUS	L	400	WELL #4
NC0424015	TABOR CITY, TOWN OF	A	C	COLUMBUS	L	500	WELL #5
NC0424020	CHADBOURN, TOWN OF	A	C	COLUMBUS	L	W02	WELL #2
NC0424020	CHADBOURN, TOWN OF	A	C	COLUMBUS	L	W04	WELL #4

NC0424030	FAIR BLUFF, TOWN OF	A	C	COLUMBUS	L	W03	WELL #3
NC0424040	BRUNSWICK, TOWN OF	A	C	COLUMBUS	L	W01	WELL #1
NC0424040	BRUNSWICK, TOWN OF	A	C	COLUMBUS	L	W02	WELL #2
NC0424045	LAKE WACCAMAW, TOWN OF	A	C	COLUMBUS	L	W01	WELL #1
NC0424045	LAKE WACCAMAW, TOWN OF	A	C	COLUMBUS	L	W02	WELL #2
NC0424050	BOLTON, TOWN OF	A	C	COLUMBUS	L	W01	WELL #1
NC0424050	BOLTON, TOWN OF	A	C	COLUMBUS	L	W02	WELL #2
NC0424055	CERRO GORDO, TOWN OF	A	C	COLUMBUS	L	W01	WELL #1
NC0424055	CERRO GORDO, TOWN OF	A	C	COLUMBUS	L	W02	WELL #2
NC0425010	NEW BERN, CITY OF	A	C	CRAVEN	L	W01	WELL #1
NC0425010	NEW BERN, CITY OF	A	C	CRAVEN	L	W02	WELL #2
NC0425010	NEW BERN, CITY OF	A	C	CRAVEN	L	W03	WELL #3
NC0425010	NEW BERN, CITY OF	A	C	CRAVEN	L	W04	WELL #4
NC0425010	NEW BERN, CITY OF	A	C	CRAVEN	L	W05	WELL #5
NC0425010	NEW BERN, CITY OF	A	C	CRAVEN	L	W10	WELL #10 GROUP B
NC0425010	NEW BERN, CITY OF	A	C	CRAVEN	L	W11	WELL #11 GROUP B
NC0425010	NEW BERN, CITY OF	A	C	CRAVEN	L	W12	WELL #12 GROUP A
NC0425010	NEW BERN, CITY OF	A	C	CRAVEN	L	W13	WELL #13 GROUP B
NC0425010	NEW BERN, CITY OF	A	C	CRAVEN	L	W14	WELL #14 GROUP A
NC0425010	NEW BERN, CITY OF	A	C	CRAVEN	L	W15	WELL #15 GROUP B
NC0425010	NEW BERN, CITY OF	A	C	CRAVEN	L	W1A	WELL #1 GROUP A
NC0425010	NEW BERN, CITY OF	A	C	CRAVEN	L	W2A	WELL #2 GROUP A
NC0425010	NEW BERN, CITY OF	A	C	CRAVEN	L	W3B	WELL #3 GROUP B
NC0425010	NEW BERN, CITY OF	A	C	CRAVEN	L	W4A	WELL #4 GROUP A
NC0425010	NEW BERN, CITY OF	A	C	CRAVEN	L	W5B	WELL #5 GROUP B
NC0425010	NEW BERN, CITY OF	A	C	CRAVEN	L	W6A	WELL #6 GROUP A
NC0425010	NEW BERN, CITY OF	A	C	CRAVEN	L	W7B	WELL #7 GROUP B
NC0425010	NEW BERN, CITY OF	A	C	CRAVEN	L	W8A	WELL #8 GROUP A
NC0425010	NEW BERN, CITY OF	A	C	CRAVEN	L	W9B	WELL #9 GROUP B
NC0425015	HAVELOCK WATER SYSTEM	A	C	CRAVEN	L	W03	WELL #3 BROWN BLVD
NC0425015	HAVELOCK WATER SYSTEM	A	C	CRAVEN	L	W04	WELL #4
NC0425015	HAVELOCK WATER SYSTEM	A	C	CRAVEN	L	W05	WELL #5
NC0425015	HAVELOCK WATER SYSTEM	A	C	CRAVEN	L	W6A	WELL #6A
NC0425020	VANCEBORO WATER SYSTEM	A	C	CRAVEN	L	W01	WELL #1

NC0425020	VANCEBORO WATER SYSTEM	A	C	CRAVEN	L	W02	WELL #2
NC0425025	DOVER, TOWN OF	A	C	CRAVEN	L	W01	WELL #1
NC0425025	DOVER, TOWN OF	A	C	CRAVEN	L	W02	WELL #2
NC0425113	TOWN OF RIVER BEND	A	C	CRAVEN	L	W01	WELL #1
NC0425113	TOWN OF RIVER BEND	A	C	CRAVEN	L	W02	WELL #2
NC0425113	TOWN OF RIVER BEND	A	C	CRAVEN	L	W03	WELL #3
NC0326040	WADE, TOWN OF	A	C	CUMBERLAND	L	W02	WELL #2A
NC0326040	WADE, TOWN OF	A	C	CUMBERLAND	L	W03	WELL #3
NC0326040	WADE, TOWN OF	A	C	CUMBERLAND	L	W04	WELL #4
NC0326040	WADE, TOWN OF	A	C	CUMBERLAND	L	W05	WELL #5
NC0326040	WADE, TOWN OF	A	C	CUMBERLAND	L	W06	WELL# 6
NC0326040	WADE, TOWN OF	A	C	CUMBERLAND	L	W07	WELL# 7
NC0326040	WADE, TOWN OF	A	C	CUMBERLAND	L	W08	WELL# 8
NC0431010	WALLACE, TOWN OF	A	C	DUPLIN	L	W01	WELL #1
NC0431010	WALLACE, TOWN OF	A	C	DUPLIN	L	W02	WELL #2
NC0431010	WALLACE, TOWN OF	A	C	DUPLIN	L	W04	WELL #4
NC0431010	WALLACE, TOWN OF	A	C	DUPLIN	L	W05	WELL #5
NC0431010	WALLACE, TOWN OF	A	C	DUPLIN	L	W06	WELL #6
NC0431010	WALLACE, TOWN OF	A	C	DUPLIN	L	W08	WELL #8
NC0431010	WALLACE, TOWN OF	A	C	DUPLIN	L	W09	WELL #9
NC0431010	WALLACE, TOWN OF	A	C	DUPLIN	L	W11	WELL #11
NC0431010	WALLACE, TOWN OF	A	C	DUPLIN	L	W14	WELL #14
NC0431015	WARSAW, TOWN OF	A	C	DUPLIN	L	400	WELL #4
NC0431015	WARSAW, TOWN OF	A	C	DUPLIN	L	500	WELL #5
NC0431015	WARSAW, TOWN OF	A	C	DUPLIN	L	600	WELL #6
NC0431020	BEULAVILLE, TOWN OF	A	C	DUPLIN	L	300	WELL #3
NC0431020	BEULAVILLE, TOWN OF	A	C	DUPLIN	L	400	WELL #4
NC0431025	ROSE HILL, TOWN OF	A	C	DUPLIN	L	300	WELL #3
NC0431025	ROSE HILL, TOWN OF	A	C	DUPLIN	L	400	WELL #4
NC0431025	ROSE HILL, TOWN OF	A	C	DUPLIN	L	500	WELL #5
NC0431030	KENANSVILLE, TOWN OF	A	C	DUPLIN	L	100	WELL #1
NC0431030	KENANSVILLE, TOWN OF	A	C	DUPLIN	L	200	WELL #2
NC0431035	MAGNOLIA, TOWN OF	A	C	DUPLIN	L	RW1	WELL #1
NC0431035	MAGNOLIA, TOWN OF	A	C	DUPLIN	L	RW2	WELL #2

NC0431040	FAISON, TOWN OF	A	C	DUPLIN	L	W04	WELL #4
NC0431040	FAISON, TOWN OF	A	C	DUPLIN	L	W05	WELL #5
NC0431040	FAISON, TOWN OF	A	C	DUPLIN	L	W05	WELL #5
NC0431040	FAISON, TOWN OF	A	C	DUPLIN	L	W2A	WELL #2A
NC0431045	CALYPSO, TOWN OF	A	C	DUPLIN	L	W02	WELL #2
NC0431045	CALYPSO, TOWN OF	A	C	DUPLIN	L	W03	WELL #3
NC0431060	GREENEVERS, TOWN OF	A	C	DUPLIN	L	100	WELL #1
NC0431060	GREENEVERS, TOWN OF	A	C	DUPLIN	L	200	WELL #2
NC0433015	PINETOPS, TOWN OF	A	C	EDGECOMBE	L	W04	WELL #4
NC0433015	PINETOPS, TOWN OF	A	C	EDGECOMBE	L	W05	WELL #5
NC0433015	PINETOPS, TOWN OF	A	C	EDGECOMBE	L	W06	WELL #6
NC0433015	PINETOPS, TOWN OF	A	C	EDGECOMBE	L	W07	WELL #7
NC0433020	MACCLESFIELD, TOWN OF	A	C	EDGECOMBE	L	W01	WELL #1
NC0433020	MACCLESFIELD, TOWN OF	A	C	EDGECOMBE	L	W02	WELL #2
NC0138010	ROBBINSVILLE, TOWN OF	A	C	GRAHAM	L	W02	WELL NO 2
NC0138010	ROBBINSVILLE, TOWN OF	A	C	GRAHAM	L	W03	WELL NO 3
NC0138105	LAKE SANTEETLAH, TOWN OF	A	C	GRAHAM	L	W01	WELL #1
NC0138105	LAKE SANTEETLAH, TOWN OF	A	C	GRAHAM	L	W02	WELL #2
NC0138105	LAKE SANTEETLAH, TOWN OF	A	C	GRAHAM	L	W03	WELL #3
NC0138105	LAKE SANTEETLAH, TOWN OF	A	C	GRAHAM	L	W04	WELL #4
NC0440010	SNOW HILL, TOWN OF	A	C	GREENE	L	001	INDUS PARK WELL #1
NC0440010	SNOW HILL, TOWN OF	A	C	GREENE	L	002	KINGOLD WELL #2
NC0440010	SNOW HILL, TOWN OF	A	C	GREENE	L	004	BEAMON WELL #4
NC0440010	SNOW HILL, TOWN OF	A	C	GREENE	L	005	TYSON WELL #5
NC0440010	SNOW HILL, TOWN OF	A	C	GREENE	L	W4A	WELL #4A
NC0440020	HOOKERTON, TOWN OF	A	C	GREENE	L	W02	WATER TANK WELL-WELL #2
NC0442035	HOBGOOD, TOWN OF	A	C	HALIFAX	L	W01	WELL #1
NC0442035	HOBGOOD, TOWN OF	A	C	HALIFAX	L	W02	WELL #2
NC0442035	HOBGOOD, TOWN OF	A	C	HALIFAX	L	W03	WELL #3
NC0442035	HOBGOOD, TOWN OF	A	C	HALIFAX	L	W04	WELL #4
NC0446010	AHOSKIE, TOWN OF	A	C	HERTFORD	L	03A	WELL #3A
NC0446010	AHOSKIE, TOWN OF	A	C	HERTFORD	L	101	WELL #1
NC0446010	AHOSKIE, TOWN OF	A	C	HERTFORD	L	103	WELL #3
NC0446010	AHOSKIE, TOWN OF	A	C	HERTFORD	L	104	WELL #4

NC0446010	AHOSKIE, TOWN OF	A	C	HERTFORD	L	W4A	WELL # 4A
NC0446010	AHOSKIE, TOWN OF	A	C	HERTFORD	L	W5A	WELL #5A
NC0446010	AHOSKIE, TOWN OF	A	C	HERTFORD	L	W5B	WELL#5B
NC0446015	MURFREESBORO, TOWN OF	A	C	HERTFORD	L	001	WELL #1
NC0446015	MURFREESBORO, TOWN OF	A	C	HERTFORD	L	002	WELL #2
NC0446015	MURFREESBORO, TOWN OF	A	C	HERTFORD	L	003	WELL #3
NC0446020	WINTON, TOWN OF	A	C	HERTFORD	L	001	WELL #1
NC0446020	WINTON, TOWN OF	A	C	HERTFORD	L	002	WELL #2
NC0446020	WINTON, TOWN OF	A	C	HERTFORD	L	003	WELL #3
NC0446030	VILLAGE OF COFIELD	A	C	HERTFORD	L	W03	WELL #3
NC0446030	VILLAGE OF COFIELD	A	C	HERTFORD	L	W04	WELL #4
NC0446040	HARRELLSVILLE, TOWN OF	A	C	HERTFORD	L	W03	WELL #3
NC0347010	RAEFORD, CITY OF	A	C	HOKE	L	W01	WELL #1
NC0347010	RAEFORD, CITY OF	A	C	HOKE	L	W02	WELL #2
NC0347010	RAEFORD, CITY OF	A	C	HOKE	L	W05	WELL #5
NC0347010	RAEFORD, CITY OF	A	C	HOKE	L	W07	WELL #7
NC0347010	RAEFORD, CITY OF	A	C	HOKE	L	W08	WELL #8
NC0347010	RAEFORD, CITY OF	A	C	HOKE	L	W09	WELL #9
NC0347010	RAEFORD, CITY OF	A	C	HOKE	L	W12	WELL #12
NC0347010	RAEFORD, CITY OF	A	C	HOKE	L	W13	WELL #13
NC0347010	RAEFORD, CITY OF	A	C	HOKE	L	W14	WELL #14
NC0347010	RAEFORD, CITY OF	A	C	HOKE	L	W15	WELL #15
NC0347010	RAEFORD, CITY OF	A	C	HOKE	L	W16	WELL #16
NC0347010	RAEFORD, CITY OF	A	C	HOKE	L	W17	WELL #17
NC0347010	RAEFORD, CITY OF	A	C	HOKE	L	W19	WELL #19
NC0347010	RAEFORD, CITY OF	A	C	HOKE	L	W20	WELL #20
NC0347010	RAEFORD, CITY OF	A	C	HOKE	L	W21	WELL #21
NC0347010	RAEFORD, CITY OF	A	C	HOKE	L	W22	WELL #22
NC0347010	RAEFORD, CITY OF	A	C	HOKE	L	W23	WELL #23
NC0347010	RAEFORD, CITY OF	A	C	HOKE	L	W24	WELL #24
NC0347010	RAEFORD, CITY OF	A	C	HOKE	L	W25	WELL #25
NC0347010	RAEFORD, CITY OF	A	C	HOKE	L	W26	WELL #26
NC0351015	SELMA, TOWN OF	A	C	JOHNSTON	L	W01	WELL #1
NC0351015	SELMA, TOWN OF	A	C	JOHNSTON	L	W03	WELL #3



NC0351015	SELMA, TOWN OF	A	C	JOHNSTON	L	W04	WELL #4
NC0351015	SELMA, TOWN OF	A	C	JOHNSTON	L	W05	WELL #5
NC0351015	SELMA, TOWN OF	A	C	JOHNSTON	L	W06	WELL #6
NC0351015	SELMA, TOWN OF	A	C	JOHNSTON	L	W07	WELL #7
NC0351015	SELMA, TOWN OF	A	C	JOHNSTON	L	W08	WELL #8
NC0351015	SELMA, TOWN OF	A	C	JOHNSTON	L	W10	WELL #10
NC0351015	SELMA, TOWN OF	A	C	JOHNSTON	L	W9A	WELL #9
NC0351040	PINE LEVEL, TOWN OF	A	C	JOHNSTON	L	S01	WELL #1
NC0351045	MICRO, TOWN OF	A	C	JOHNSTON	L	W01	WELL #1
NC0351045	MICRO, TOWN OF	A	C	JOHNSTON	L	W03	WELL #3
NC0452010	MAYSVILLE, TOWN OF	A	C	JONES	L	W01	WELL #1
NC0452015	POLLOCKSVILLE, TOWN OF	A	C	JONES	L	W01	WELL #1
NC0452015	POLLOCKSVILLE, TOWN OF	A	C	JONES	L	W03	WELL #3B
NC0454010	KINSTON, CITY OF	A	C	LENOIR	L	W01	MANNING ST/WELL #1 (LSP)
NC0454010	KINSTON, CITY OF	A	C	LENOIR	L	W03	MANNING ST/WELL #3 (LSP)
NC0454010	KINSTON, CITY OF	A	C	LENOIR	L	W04	EAST ST/WELL #4
NC0454010	KINSTON, CITY OF	A	C	LENOIR	L	W05	OLD WELL RD/WELL #5
NC0454010	KINSTON, CITY OF	A	C	LENOIR	L	W06	ALEXANDER ST/WELL #6
NC0454010	KINSTON, CITY OF	A	C	LENOIR	L	W07	MARKET ST/WELL #7
NC0454010	KINSTON, CITY OF	A	C	LENOIR	L	W08	NEUSE RD/WELL #8
NC0454010	KINSTON, CITY OF	A	C	LENOIR	L	W09	CUNNINGHAM RD/WELL #9
NC0454010	KINSTON, CITY OF	A	C	LENOIR	L	W11	DARDEN DR/WELL #11
NC0454010	KINSTON, CITY OF	A	C	LENOIR	L	W12	GRAY TILGHMAN RD/WELL #12
NC0454010	KINSTON, CITY OF	A	C	LENOIR	L	W13	SR 1546/WELL #13
NC0454010	KINSTON, CITY OF	A	C	LENOIR	L	W16	EASTWOOD/WELL #16
NC0454010	KINSTON, CITY OF	A	C	LENOIR	L	W18	KELLY RD/WELL #18
NC0454010	KINSTON, CITY OF	A	C	LENOIR	L	W20	HICKORY HILLS/WELL #20
NC0454010	KINSTON, CITY OF	A	C	LENOIR	L	W21	TOWER HILL/WELL #21
NC0454015	LA GRANGE WATER SYSTEM	A	C	LENOIR	L	W02	WELL #2
NC0454015	LA GRANGE WATER SYSTEM	A	C	LENOIR	L	W04	WELL #4
NC0454015	LA GRANGE WATER SYSTEM	A	C	LENOIR	L	W05	WELL #5
NC0454015	LA GRANGE WATER SYSTEM	A	C	LENOIR	L	W06	WELL #6
NC0454020	PINK HILL, TOWN OF	A	C	LENOIR	L	W01	WELL #1
NC0158015	MARSHALL, TOWN OF	A	C	MADISON	L	006	WELL #6

NC0158015	MARSHALL, TOWN OF	A	C	MADISON	L	008	WELL #8
NC0158015	MARSHALL, TOWN OF	A	C	MADISON	L	010	WELL #10
NC0158015	MARSHALL, TOWN OF	A	C	MADISON	L	012	WELL #12
NC0158015	MARSHALL, TOWN OF	A	C	MADISON	L	014	WELL # 14
NC0158020	HOT SPRINGS, TOWN OF	A	C	MADISON	L	W01	WELL #1
NC0158020	HOT SPRINGS, TOWN OF	A	C	MADISON	L	W02	WELL #2
NC0459010	WILLIAMSTON, TOWN OF	A	C	MARTIN	L	W02	CAROLINA AVE WELL #2
NC0459010	WILLIAMSTON, TOWN OF	A	C	MARTIN	L	W03	WILLOW DR WELL #3
NC0459010	WILLIAMSTON, TOWN OF	A	C	MARTIN	L	W04	FACTORY ST WELL #4
NC0459010	WILLIAMSTON, TOWN OF	A	C	MARTIN	L	W08	NORTHSIDE WELL# 8
NC0459015	ROBERSONVILLE, TOWN OF	A	C	MARTIN	L	W04	PERDUE WELL #4
NC0459015	ROBERSONVILLE, TOWN OF	A	C	MARTIN	L	W06	PURVIS WELL #6
NC0459015	ROBERSONVILLE, TOWN OF	A	C	MARTIN	L	W07	HWY 64
NC0459025	HAMILTON, TOWN OF	A	C	MARTIN	L	W01	WELL #1
NC0459025	HAMILTON, TOWN OF	A	C	MARTIN	L	W02	WELL #2
NC0459030	JAMESVILLE, TOWN OF	A	C	MARTIN	L	W01	WELL #1
NC0459030	JAMESVILLE, TOWN OF	A	C	MARTIN	L	W02	WELL #2
NC0156025	OLD FORT, TOWN OF	A	C	MCDOWELL	L	S02	WELL #2
NC0156025	OLD FORT, TOWN OF	A	C	MCDOWELL	L	S05	WELL #5
NC0156025	OLD FORT, TOWN OF	A	C	MCDOWELL	L	S09	WELL #9
NC0156025	OLD FORT, TOWN OF	A	C	MCDOWELL	L	S10	WELL #10
NC0161010	SPRUCE PINE, TOWN OF	A	C	MITCHELL	L	003	CARTER RIDGE WELL#1
NC0161010	SPRUCE PINE, TOWN OF	A	C	MITCHELL	L	004	WELL #2
NC0161015	BAKERSVILLE, TOWN OF	A	C	MITCHELL	L	W01	RESERVOIR WELL
NC0161015	BAKERSVILLE, TOWN OF	A	C	MITCHELL	L	W04	WELL #4 LINDA LANE WELL
NC0363010	SOUTHERN PINES, TOWN OF	A	C	MOORE	L	W01	WELL #1 WEYMOUTH CTR
NC0363010	SOUTHERN PINES, TOWN OF	A	C	MOORE	L	W01	WELL #1 WEYMOUTH CTR
NC0363010	SOUTHERN PINES, TOWN OF	A	C	MOORE	L	W02	WELL#2 HENLY STREET
NC0363010	SOUTHERN PINES, TOWN OF	A	C	MOORE	L	W02	WELL#2 HENLY STREET
NC0363010	SOUTHERN PINES, TOWN OF	A	C	MOORE	L	W04	WELL#4
NC0363010	SOUTHERN PINES, TOWN OF	A	C	MOORE	L	W04	WELL#4
NC0363010	SOUTHERN PINES, TOWN OF	A	C	MOORE	L	W05	WELL#5
NC0363020	ABERDEEN, TOWN OF	A	C	MOORE	L	W03	WELL #3
NC0363020	ABERDEEN, TOWN OF	A	C	MOORE	L	W06	WELL #6

NC0363020	ABERDEEN, TOWN OF	A	C	MOORE	L	W07	WELL #7
NC0363020	ABERDEEN, TOWN OF	A	C	MOORE	L	W08	WELL #8
NC0363020	ABERDEEN, TOWN OF	A	C	MOORE	L	W10	WELL #10
NC0363020	ABERDEEN, TOWN OF	A	C	MOORE	L	W11	WELL #11
NC0363020	ABERDEEN, TOWN OF	A	C	MOORE	L	W12	WELL #12
NC0363020	ABERDEEN, TOWN OF	A	C	MOORE	L	W13	WELL #13
NC0363020	ABERDEEN, TOWN OF	A	C	MOORE	L	W14	WELL #14
NC0363020	ABERDEEN, TOWN OF	A	C	MOORE	L	W15	WELL #15
NC0363020	ABERDEEN, TOWN OF	A	C	MOORE	L	W16	WELL #16
NC0363020	ABERDEEN, TOWN OF	A	C	MOORE	L	W17	WELL #17
NC0363020	ABERDEEN, TOWN OF	A	C	MOORE	L	W18	WELL #18
NC0363020	ABERDEEN, TOWN OF	A	C	MOORE	L	W19	WELL #19
NC0363020	ABERDEEN, TOWN OF	A	C	MOORE	L	W20	WELL #20
NC0363020	ABERDEEN, TOWN OF	A	C	MOORE	L	W21	WELL #21
NC0363020	ABERDEEN, TOWN OF	A	C	MOORE	L	W22	WELL #22
NC0363020	ABERDEEN, TOWN OF	A	C	MOORE	L	W26	WELL #26
NC0363020	ABERDEEN, TOWN OF	A	C	MOORE	L	W27	WELL #27
NC0363030	PINEBLUFF, TOWN OF	A	C	MOORE	L	S05	WELL #5
NC0363030	PINEBLUFF, TOWN OF	A	C	MOORE	L	W01	WELL #1
NC0363030	PINEBLUFF, TOWN OF	A	C	MOORE	L	W02	WELL #2
NC0363030	PINEBLUFF, TOWN OF	A	C	MOORE	L	W03	WELL #3
NC0363030	PINEBLUFF, TOWN OF	A	C	MOORE	L	W04	WELL #4
NC0363035	TAYLORTOWN, TOWN OF	A	C	MOORE	L	W01	WELL #1
NC0363035	TAYLORTOWN, TOWN OF	A	C	MOORE	L	W03	WELL #3
NC0363035	TAYLORTOWN, TOWN OF	A	C	MOORE	L	W04	WELL #4
NC0363035	TAYLORTOWN, TOWN OF	A	C	MOORE	L	W05	WELL #5
NC0363035	TAYLORTOWN, TOWN OF	A	C	MOORE	L	W06	WELL #6
NC0363040	CAMERON, TOWN OF	A	C	MOORE	L	W07	WELL #7
NC0363040	CAMERON, TOWN OF	A	C	MOORE	L	W08	WELL #8
NC0363479	FOXFIRE VILLAGE, TOWN OF	A	C	MOORE	L	W04	WELL #4
NC0363479	FOXFIRE VILLAGE, TOWN OF	A	C	MOORE	L	W05	WELL #5
NC0363479	FOXFIRE VILLAGE, TOWN OF	A	C	MOORE	L	W07	WELL #7
NC0363479	FOXFIRE VILLAGE, TOWN OF	A	C	MOORE	L	W08	WELL #8
NC0363479	FOXFIRE VILLAGE, TOWN OF	A	C	MOORE	L	W10	WELL #10

NC0363479	FOX FIRE VILLAGE, TOWN OF	A	C	MOORE	L	W11	WELL #11
NC0464020	NASHVILLE, TOWN OF	A	C	NASH	L	W02	WELL #2
NC0464020	NASHVILLE, TOWN OF	A	C	NASH	L	W04	WELL #4
NC0464020	NASHVILLE, TOWN OF	A	C	NASH	L	W05	WELL #5
NC0464020	NASHVILLE, TOWN OF	A	C	NASH	L	W06	WELL #6
NC0464020	NASHVILLE, TOWN OF	A	C	NASH	L	W07	WELL #7
NC0464025	SPRING HOPE, TOWN OF	A	C	NASH	L	001	WELL #1 ASH ST
NC0464025	SPRING HOPE, TOWN OF	A	C	NASH	L	004	WELL #4 ELEM SCH
NC0464025	SPRING HOPE, TOWN OF	A	C	NASH	L	006	WELL #6 OLD SPRING HOPE RD
NC0464025	SPRING HOPE, TOWN OF	A	C	NASH	L	W02	WELL #2 MONTGOMERY ST
NC0464035	BAILEY, TOWN OF	A	C	NASH	L	S01	WELL #1
NC0464035	BAILEY, TOWN OF	A	C	NASH	L	S02	WELL #2
NC0464050	MIDDLESEX WATER SYSTEM	A	C	NASH	L	W01	WELL #1
NC0464050	MIDDLESEX WATER SYSTEM	A	C	NASH	L	W02	WELL #2
NC0464050	MIDDLESEX WATER SYSTEM	A	C	NASH	L	W04	WELL #4
NC0464050	MIDDLESEX WATER SYSTEM	A	C	NASH	L	W05	WELL #5
NC0465015	CAROLINA BEACH WATER SYSTEM	A	C	NEW HANOVER	L	W01	WELL #1
NC0465015	CAROLINA BEACH WATER SYSTEM	A	C	NEW HANOVER	L	W02	WELL #2
NC0465015	CAROLINA BEACH WATER SYSTEM	A	C	NEW HANOVER	L	W03	WELL #3
NC0465015	CAROLINA BEACH WATER SYSTEM	A	C	NEW HANOVER	L	W05	WELL #5
NC0465015	CAROLINA BEACH WATER SYSTEM	A	C	NEW HANOVER	L	W06	WELL #6
NC0465015	CAROLINA BEACH WATER SYSTEM	A	C	NEW HANOVER	L	W07	WELL #7
NC0465015	CAROLINA BEACH WATER SYSTEM	A	C	NEW HANOVER	L	W08	WELL #8
NC0465015	CAROLINA BEACH WATER SYSTEM	A	C	NEW HANOVER	L	W09	WELL #9
NC0465015	CAROLINA BEACH WATER SYSTEM	A	C	NEW HANOVER	L	W10	WELL #10
NC0465015	CAROLINA BEACH WATER SYSTEM	A	C	NEW HANOVER	L	W11	WELL #11
NC0465015	CAROLINA BEACH WATER SYSTEM	A	C	NEW HANOVER	L	W12	WELL #12
NC0465015	CAROLINA BEACH WATER SYSTEM	A	C	NEW HANOVER	L	W13	WELL #13
NC0465015	CAROLINA BEACH WATER SYSTEM	A	C	NEW HANOVER	L	W14	WELL #14
NC0465020	WRIGHTSVILLE BEACH WATER SYST	A	C	NEW HANOVER	L	R01	WELL #1
NC0465020	WRIGHTSVILLE BEACH WATER SYST	A	C	NEW HANOVER	L	R02	WELL #2
NC0465020	WRIGHTSVILLE BEACH WATER SYST	A	C	NEW HANOVER	L	R03	WELL #3
NC0465020	WRIGHTSVILLE BEACH WATER SYST	A	C	NEW HANOVER	L	R04	WELL #4
NC0465020	WRIGHTSVILLE BEACH WATER SYST	A	C	NEW HANOVER	L	R05	WELL #5

NC0465020	WRIGHTSVILLE BEACH WATER SYST	A	C	NEW HANOVER	L	R06	WELL #6
NC0465020	WRIGHTSVILLE BEACH WATER SYST	A	C	NEW HANOVER	L	R07	WELL #7
NC0465020	WRIGHTSVILLE BEACH WATER SYST	A	C	NEW HANOVER	L	R08	WELL #8
NC0465020	WRIGHTSVILLE BEACH WATER SYST	A	C	NEW HANOVER	L	R11	WELL #11
NC0465025	KURE BEACH WATER SYSTEM	A	C	NEW HANOVER	L	W01	WELL #1
NC0465025	KURE BEACH WATER SYSTEM	A	C	NEW HANOVER	L	W02	WELL #2
NC0465025	KURE BEACH WATER SYSTEM	A	C	NEW HANOVER	L	W03	WELL #3/I AVE WELL
NC0465025	KURE BEACH WATER SYSTEM	A	C	NEW HANOVER	L	W04	WELL #4
NC0465025	KURE BEACH WATER SYSTEM	A	C	NEW HANOVER	L	W05	WELL #5
NC0466010	JACKSON, TOWN OF	A	C	NORTHAMPTON	L	W02	WELL #2
NC0466015	SEVERN, TOWN OF	A	C	NORTHAMPTON	L	W02	WELL #2
NC0466020	RICH SQUARE, TOWN OF	A	C	NORTHAMPTON	L	S01	WELL #1
NC0466020	RICH SQUARE, TOWN OF	A	C	NORTHAMPTON	L	S02	WELL #2
NC0466025	CONWAY, TOWN OF	A	C	NORTHAMPTON	L	W07	WELL #7
NC0466025	CONWAY, TOWN OF	A	C	NORTHAMPTON	L	W08	WELL #8
NC0466025	CONWAY, TOWN OF	A	C	NORTHAMPTON	L	W5A	WELL #5A
NC0466035	SEABOARD, TOWN OF	A	C	NORTHAMPTON	L	S01	WELL #1
NC0466040	WOODLAND, TOWN OF	A	C	NORTHAMPTON	L	W01	WELL #1
NC0466040	WOODLAND, TOWN OF	A	C	NORTHAMPTON	L	W02	WELL #2
NC0467010	JACKSONVILLE CITY OF	A	C	ONSLOW	L	1CC	CHANEY'S CREEK #1
NC0467010	JACKSONVILLE CITY OF	A	C	ONSLOW	L	1CN	COMMONS NORTH #1
NC0467010	JACKSONVILLE CITY OF	A	C	ONSLOW	L	1CS	COMMONS SOUTH #1
NC0467010	JACKSONVILLE CITY OF	A	C	ONSLOW	L	2CC	CHANEY'S CREEK# 2
NC0467010	JACKSONVILLE CITY OF	A	C	ONSLOW	L	2CN	COMMONS NORTH #2
NC0467010	JACKSONVILLE CITY OF	A	C	ONSLOW	L	2CS	COMMONS SOUTH # 2
NC0467010	JACKSONVILLE CITY OF	A	C	ONSLOW	L	BF1	BELL FORK #1
NC0467010	JACKSONVILLE CITY OF	A	C	ONSLOW	L	BP1	BUSINESS PARK #1
NC0467010	JACKSONVILLE CITY OF	A	C	ONSLOW	L	BP2	BUSINESS PARK #2
NC0467010	JACKSONVILLE CITY OF	A	C	ONSLOW	L	DF1	DEERFIELD (DF-1)
NC0467010	JACKSONVILLE CITY OF	A	C	ONSLOW	L	DK1	DRUMMER KELLUM #1
NC0467010	JACKSONVILLE CITY OF	A	C	ONSLOW	L	DK2	DRUMMER KELLUM #2
NC0467010	JACKSONVILLE CITY OF	A	C	ONSLOW	L	FV1	FOXHORN VILLAGE #1
NC0467010	JACKSONVILLE CITY OF	A	C	ONSLOW	L	MM1	MIRACLE MEADOWS 1
NC0467010	JACKSONVILLE CITY OF	A	C	ONSLOW	L	MM2	MIRACLE MEADOWS 2

NC0467010	JACKSONVILLE CITY OF	A	C	ON SLOW	L	PG1	PINEY GREEN 1
NC0467010	JACKSONVILLE CITY OF	A	C	ON SLOW	L	PS2	PARKWOOD SOCCER #2
NC0467010	JACKSONVILLE CITY OF	A	C	ON SLOW	L	RR1	RAMSEY ROAD #1
NC0467010	JACKSONVILLE CITY OF	A	C	ON SLOW	L	W06	WELL #6
NC0467010	JACKSONVILLE CITY OF	A	C	ON SLOW	L	W07	WELL #7
NC0467010	JACKSONVILLE CITY OF	A	C	ON SLOW	L	W11	WELL #11
NC0467010	JACKSONVILLE CITY OF	A	C	ON SLOW	L	W12	WELL #12
NC0467010	JACKSONVILLE CITY OF	A	C	ON SLOW	L	W13	WELL #13
NC0467010	JACKSONVILLE CITY OF	A	C	ON SLOW	L	W14	WELL #14
NC0467010	JACKSONVILLE CITY OF	A	C	ON SLOW	L	W15	WELL #15
NC0467010	JACKSONVILLE CITY OF	A	C	ON SLOW	L	W16	WELL #16
NC0467010	JACKSONVILLE CITY OF	A	C	ON SLOW	L	W17	WELL #17
NC0467010	JACKSONVILLE CITY OF	A	C	ON SLOW	L	W18	WELL #18
NC0467010	JACKSONVILLE CITY OF	A	C	ON SLOW	L	WP1	WILLIAMSBURG PLANTATION #
NC0467010	JACKSONVILLE CITY OF	A	C	ON SLOW	L	WP2	WILLIAMSBURG PLANTATION #
NC0469020	ORIENTAL WATER SYSTEM	A	C	PAMLICO	L	W02	WELL #2
NC0469020	ORIENTAL WATER SYSTEM	A	C	PAMLICO	L	W1A	WELL #1A
NC0470010	ELIZABETH CITY, CITY OF	A	C	PASQUOTANK	L	W01	WELL #1
NC0470010	ELIZABETH CITY, CITY OF	A	C	PASQUOTANK	L	W02	WELL #2
NC0470010	ELIZABETH CITY, CITY OF	A	C	PASQUOTANK	L	W03	WELL #3
NC0470010	ELIZABETH CITY, CITY OF	A	C	PASQUOTANK	L	W04	WELL #4
NC0470010	ELIZABETH CITY, CITY OF	A	C	PASQUOTANK	L	W07	WELL #7
NC0470010	ELIZABETH CITY, CITY OF	A	C	PASQUOTANK	L	W08	WELL #8
NC0470010	ELIZABETH CITY, CITY OF	A	C	PASQUOTANK	L	W09	WELL #9
NC0470010	ELIZABETH CITY, CITY OF	A	C	PASQUOTANK	L	W10	WELL #10
NC0470010	ELIZABETH CITY, CITY OF	A	C	PASQUOTANK	L	W11	WELL #11
NC0470010	ELIZABETH CITY, CITY OF	A	C	PASQUOTANK	L	W13	WELL #13
NC0470010	ELIZABETH CITY, CITY OF	A	C	PASQUOTANK	L	W14	WELL #14
NC0470010	ELIZABETH CITY, CITY OF	A	C	PASQUOTANK	L	W15	WELL #15
NC0470010	ELIZABETH CITY, CITY OF	A	C	PASQUOTANK	L	W16	WELL #16
NC0470010	ELIZABETH CITY, CITY OF	A	C	PASQUOTANK	L	W5A	WELL #5A
NC0471010	BURGAW, TOWN OF	A	C	PENDER	L	100	WRIGHT ST WELL
NC0471010	BURGAW, TOWN OF	A	C	PENDER	L	200	ASHE ST WELL
NC0471010	BURGAW, TOWN OF	A	C	PENDER	L	300	SO SMITH ST WELL

NC0471010	BURGAU, TOWN OF	A	C	PENDER	L	400	NORTH SMITH ST
NC0471015	SURF CITY, TOWN OF	A	C	PENDER	L	W03	WELL #3
NC0471015	SURF CITY, TOWN OF	A	C	PENDER	L	W05	WELL #5
NC0471020	TOPSAIL BEACH, TOWN OF	A	C	PENDER	L	005	WELL #5
NC0471020	TOPSAIL BEACH, TOWN OF	A	C	PENDER	L	W04	WELL #4
NC0471020	TOPSAIL BEACH, TOWN OF	A	C	PENDER	L	W1A	WELL #1A
NC0471020	TOPSAIL BEACH, TOWN OF	A	C	PENDER	L	W2A	WELL #2A
NC7071054	TOWN OF ATKINSON	A	C	PENDER	L	W01	SCHOOL WELL #1
NC7071054	TOWN OF ATKINSON	A	C	PENDER	L	W02	WOODS WELL #2
NC0472010	HERTFORD WATER SYSTEM	A	C	PERQUIMANS	L	W01	HERTFORD WELL #1
NC0472010	HERTFORD WATER SYSTEM	A	C	PERQUIMANS	L	W02	HERTFORD WELL #2
NC0472010	HERTFORD WATER SYSTEM	A	C	PERQUIMANS	L	W03	HERTFORD WELL #3
NC0474020	FARMVILLE, TOWN OF	A	C	PITT	L	W06	LINCOLN PARK WELL
NC0474020	FARMVILLE, TOWN OF	A	C	PITT	L	W09	CHINQUAPIN WELL
NC0474020	FARMVILLE, TOWN OF	A	C	PITT	L	W12	HWY 258 NORTH WELL
NC0474020	FARMVILLE, TOWN OF	A	C	PITT	L	W13	LANGS CROSSROADS WELL
NC0474020	FARMVILLE, TOWN OF	A	C	PITT	L	W14	GHOST HOLLOW WELL
NC0474020	FARMVILLE, TOWN OF	A	C	PITT	L	W15	MIDDLE SWAMP WELL
NC0474020	FARMVILLE, TOWN OF	A	C	PITT	L	W16	DALE WELL
NC0474020	FARMVILLE, TOWN OF	A	C	PITT	L	W17	STANTONSBURG WELL
NC0474025	AYDEN TOWN OF	A	C	PITT	L	WL1	WELL #1
NC0474025	AYDEN TOWN OF	A	C	PITT	L	WL3	WELL #3
NC0474025	AYDEN TOWN OF	A	C	PITT	L	WL4	WELL #4
NC0474030	BETHEL, TOWN OF	A	C	PITT	L	W02	WHITEHURST ST WELL
NC0474030	BETHEL, TOWN OF	A	C	PITT	L	W03	HWY 11 WELL
NC0474035	GRIFTON, TOWN OF	A	C	PITT	L	W03	WELL #3
NC0474040	WINTERVILLE, TOWN OF	A	C	PITT	L	W02	HUNSUCKER WELL
NC0474040	WINTERVILLE, TOWN OF	A	C	PITT	L	W03	RAGLAND WELL
NC0474040	WINTERVILLE, TOWN OF	A	C	PITT	L	W04	BALLPARK WELL
NC0474055	GRIMESLAND, TOWN OF	A	C	PITT	L	W01	WELL #1
NC0474055	GRIMESLAND, TOWN OF	A	C	PITT	L	W02	WELL #2
NC0175015	COLUMBUS TOWN OF	A	C	POLK	L	W01	WELL #1
NC0175015	COLUMBUS TOWN OF	A	C	POLK	L	W02	WELL #2
NC0175015	COLUMBUS TOWN OF	A	C	POLK	L	W03	WELL #3

NC0175015	COLUMBUS TOWN OF	A	C	POLK	L	W04	WELL #4
NC0276025	LIBERTY, TOWN OF	A	C	RANDOLPH	L	W01	WELL #1
NC0276025	LIBERTY, TOWN OF	A	C	RANDOLPH	L	W02	WELL #2
NC0276025	LIBERTY, TOWN OF	A	C	RANDOLPH	L	W04	WELL #4
NC0276025	LIBERTY, TOWN OF	A	C	RANDOLPH	L	W05	WELL #5
NC0276025	LIBERTY, TOWN OF	A	C	RANDOLPH	L	W06	WELL #6
NC0276025	LIBERTY, TOWN OF	A	C	RANDOLPH	L	W08	WELL #8
NC0276025	LIBERTY, TOWN OF	A	C	RANDOLPH	L	W10	WELL #10
NC0276025	LIBERTY, TOWN OF	A	C	RANDOLPH	L	W12	WELL #12
NC0276025	LIBERTY, TOWN OF	A	C	RANDOLPH	L	W12	WELL #12
NC0378010	LUMBERTON, CITY OF	A	C	ROBESON	L	S02	WELL #1
NC0378010	LUMBERTON, CITY OF	A	C	ROBESON	L	S03	WELL #2
NC0378010	LUMBERTON, CITY OF	A	C	ROBESON	L	S04	WELL #3
NC0378010	LUMBERTON, CITY OF	A	C	ROBESON	L	S05	WELL #4
NC0378010	LUMBERTON, CITY OF	A	C	ROBESON	L	S06	WELL #5
NC0378010	LUMBERTON, CITY OF	A	C	ROBESON	L	S07	WELL #6
NC0378010	LUMBERTON, CITY OF	A	C	ROBESON	L	S08	WELL #7
NC0378010	LUMBERTON, CITY OF	A	C	ROBESON	L	S09	WELL #8
NC0378015	RED SPRINGS, TOWN OF	A	C	ROBESON	L	W02	WELL #2
NC0378015	RED SPRINGS, TOWN OF	A	C	ROBESON	L	W1A	WELL 1A
NC0378015	RED SPRINGS, TOWN OF	A	C	ROBESON	L	W3A	WELL 3A
NC0378020	PEMBROKE, TOWN OF	A	C	ROBESON	L	W05	WELL #5
NC0378020	PEMBROKE, TOWN OF	A	C	ROBESON	L	W06	WELL #6
NC0378020	PEMBROKE, TOWN OF	A	C	ROBESON	L	W07	WELL #7
NC0378025	FAIRMONT, TOWN OF	A	C	ROBESON	L	W01	WELL #1
NC0378025	FAIRMONT, TOWN OF	A	C	ROBESON	L	W02	WELL #2
NC0378025	FAIRMONT, TOWN OF	A	C	ROBESON	L	W03	WELL #3
NC0378030	SAINT PAULS, TOWN OF	A	C	ROBESON	L	W02	WELL #2
NC0378030	SAINT PAULS, TOWN OF	A	C	ROBESON	L	W03	WELL #3
NC0378030	SAINT PAULS, TOWN OF	A	C	ROBESON	L	W04	WELL #4
NC0378035	MAXTON, TOWN OF	A	C	ROBESON	L	S02	WELL #2
NC0378035	MAXTON, TOWN OF	A	C	ROBESON	L	W01	WELL #1
NC0378040	ROWLAND, TOWN OF	A	C	ROBESON	L	W01	WELL #1
NC0378040	ROWLAND, TOWN OF	A	C	ROBESON	L	W2A	WELL #2A



NC0378045	PARKTON, TOWN OF	A	C	ROBESON	L	S04	WELL #4
NC0378045	PARKTON, TOWN OF	A	C	ROBESON	L	W01	WELL #1
NC0180050	CLEVELAND, TOWN OF	A	C	ROWAN	L	S01	WELL #1
NC0180050	CLEVELAND, TOWN OF	A	C	ROWAN	L	S02	WELL #2
NC0180050	CLEVELAND, TOWN OF	A	C	ROWAN	L	S03	WELL #3
NC0180055	FAITH, TOWN OF	A	C	ROWAN	L	S02	WELL #2
NC0180055	FAITH, TOWN OF	A	C	ROWAN	L	S03	WELL #3
NC0180055	FAITH, TOWN OF	A	C	ROWAN	L	S04	WELL #4
NC0180055	FAITH, TOWN OF	A	C	ROWAN	L	S05	WELL #5
NC0180055	FAITH, TOWN OF	A	C	ROWAN	L	S06	WELL #6
NC0181020	LAKE LURE, TOWN OF	A	C	RUTHERFORD	L	L11	WELL #L11 (VESS WELL)
NC0181020	LAKE LURE, TOWN OF	A	C	RUTHERFORD	L	L12	WELL #L12 (ISLAND CRK)
NC0181020	LAKE LURE, TOWN OF	A	C	RUTHERFORD	L	L13	WELL #L13 (ISLAND CRK)
NC0181020	LAKE LURE, TOWN OF	A	C	RUTHERFORD	L	L14	WELL #L14 (WOODY WELL)
NC0181020	LAKE LURE, TOWN OF	A	C	RUTHERFORD	L	L21	WELL #L21 (POWERS WELL)
NC0382010	CLINTON, CITY OF	A	C	SAMPSON	L	18S	WELL 18S (SHALLOW WELL)
NC0382010	CLINTON, CITY OF	A	C	SAMPSON	L	21D	WELL 21D (DEEP WELL)
NC0382010	CLINTON, CITY OF	A	C	SAMPSON	L	21S	WELL 21S (SHALLOW WELL)
NC0382010	CLINTON, CITY OF	A	C	SAMPSON	L	22S	WELL 22S (SHALLOW WELL)
NC0382010	CLINTON, CITY OF	A	C	SAMPSON	L	24S	WELL 24S (SHALLOW WELL)
NC0382010	CLINTON, CITY OF	A	C	SAMPSON	L	R12	WELL #12B
NC0382010	CLINTON, CITY OF	A	C	SAMPSON	L	R13	WELL #13
NC0382010	CLINTON, CITY OF	A	C	SAMPSON	L	R16	WELL #16
NC0382010	CLINTON, CITY OF	A	C	SAMPSON	L	R17	WELL #17
NC0382010	CLINTON, CITY OF	A	C	SAMPSON	L	R18	WELL #18 (DEEP WELL)
NC0382015	ROSEBORO, TOWN OF	A	C	SAMPSON	L	W01	WELL #1
NC0382015	ROSEBORO, TOWN OF	A	C	SAMPSON	L	W02	WELL #2
NC0382015	ROSEBORO, TOWN OF	A	C	SAMPSON	L	W03	WELL #3
NC0382020	GARLAND, TOWN OF	A	C	SAMPSON	L	W03	WELL #3
NC0382020	GARLAND, TOWN OF	A	C	SAMPSON	L	W04	WELL #4
NC0382025	SALEMBURG, TOWN OF	A	C	SAMPSON	L	W01	WELL #1
NC0382025	SALEMBURG, TOWN OF	A	C	SAMPSON	L	W02	WELL #2
NC0382025	SALEMBURG, TOWN OF	A	C	SAMPSON	L	W03	WELL #3
NC0382025	SALEMBURG, TOWN OF	A	C	SAMPSON	L	W04	WELL #4

NC0382035	NEWTON GROVE, TOWN OF	A	C	SAMPSON	L	W01	WELL #1
NC0382035	NEWTON GROVE, TOWN OF	A	C	SAMPSON	L	W02	WELL #2
NC0382040	TURKEY, TOWN OF	A	C	SAMPSON	L	W01	WELL #1
NC0382040	TURKEY, TOWN OF	A	C	SAMPSON	L	W02	WELL #2
NC0383010	LAURINBURG, CITY OF	A	C	SCOTLAND	L	S14	WELL #14
NC0383010	LAURINBURG, CITY OF	A	C	SCOTLAND	L	S15	WELL #15
NC0383010	LAURINBURG, CITY OF	A	C	SCOTLAND	L	S16	WELL #16
NC0383010	LAURINBURG, CITY OF	A	C	SCOTLAND	L	S17	WELL #17
NC0383010	LAURINBURG, CITY OF	A	C	SCOTLAND	L	S18	WELL #18
NC0383010	LAURINBURG, CITY OF	A	C	SCOTLAND	L	S19	WELL #19
NC0383010	LAURINBURG, CITY OF	A	C	SCOTLAND	L	W02	WELL #2
NC0383010	LAURINBURG, CITY OF	A	C	SCOTLAND	L	W05	WELL #5
NC0383010	LAURINBURG, CITY OF	A	C	SCOTLAND	L	W06	WELL #6
NC0383010	LAURINBURG, CITY OF	A	C	SCOTLAND	L	W08	WELL #8
NC0383010	LAURINBURG, CITY OF	A	C	SCOTLAND	L	W09	WELL #9
NC0383010	LAURINBURG, CITY OF	A	C	SCOTLAND	L	W10	WELL #10
NC0383010	LAURINBURG, CITY OF	A	C	SCOTLAND	L	W11	WELL #11
NC0383010	LAURINBURG, CITY OF	A	C	SCOTLAND	L	W12	WELL #12
NC0383010	LAURINBURG, CITY OF	A	C	SCOTLAND	L	W13	WELL #13
NC0383010	LAURINBURG, CITY OF	A	C	SCOTLAND	L	W20	WELL #20
NC0383020	WAGRAM, TOWN OF	A	C	SCOTLAND	L	W03	WELL #3
NC0383020	WAGRAM, TOWN OF	A	C	SCOTLAND	L	W06	WELL #6
NC0184020	OAKBORO, TOWN OF	A	C	STANLY	L	S03	WELL #3
NC0285015	WALNUT COVE, TOWN OF	A	C	STOKES	L	W01	WELL #1-FIRE STATION
NC0285015	WALNUT COVE, TOWN OF	A	C	STOKES	L	W02	WELL #2-FOWLER PARK
NC0285015	WALNUT COVE, TOWN OF	A	C	STOKES	L	W03	WELL #3
NC0285015	WALNUT COVE, TOWN OF	A	C	STOKES	L	W04	WELL #4-CLUB STREET
NC0285015	WALNUT COVE, TOWN OF	A	C	STOKES	L	W05	WELL #5-HWY 311
NC0285015	WALNUT COVE, TOWN OF	A	C	STOKES	L	W06	WELL #6-BICYCLES WELL
NC0285015	WALNUT COVE, TOWN OF	A	C	STOKES	L	W07	WALNUT TREE WELL
NC0285020	DANBURY, TOWN OF	A	C	STOKES	L	WH1	WELL #1
NC0285020	DANBURY, TOWN OF	A	C	STOKES	L	WH2	WELL #2
NC0188115	ROSMAN, TOWN OF	A	C	TRANSYLVANIA	L	W01	WELL #1
NC0188115	ROSMAN, TOWN OF	A	C	TRANSYLVANIA	L	W02	WELL #2

NC0188115	ROSMAN, TOWN OF	A	C	TRANSYLVANIA	L	W03	WELL #3
NC0188115	ROSMAN, TOWN OF	A	C	TRANSYLVANIA	L	W04	WELL #4
NC0489010	COLUMBIA WATER SYSTEM	A	C	TYRRELL	L	W01	COLUMBIA WATER WELL #1
NC0489010	COLUMBIA WATER SYSTEM	A	C	TYRRELL	L	W02	COLUMBIA WATER WELL #2
NC0489010	COLUMBIA WATER SYSTEM	A	C	TYRRELL	L	W03	COLUMBIA WATER WELL #3
NC0494010	PLYMOUTH WATER SYSTEM	A	C	WASHINGTON	L	W01	WELL #1
NC0494010	PLYMOUTH WATER SYSTEM	A	C	WASHINGTON	L	W03	WELL #3
NC0494010	PLYMOUTH WATER SYSTEM	A	C	WASHINGTON	L	W04	WELL #4
NC0494010	PLYMOUTH WATER SYSTEM	A	C	WASHINGTON	L	W05	WELL#5
NC0494010	PLYMOUTH WATER SYSTEM	A	C	WASHINGTON	L	W06	WELL #6
NC0494010	PLYMOUTH WATER SYSTEM	A	C	WASHINGTON	L	W07	WELL# 7
NC0494020	CRESWELL TOWN OF	A	C	WASHINGTON	L	W01	WELL #1
NC0494020	CRESWELL TOWN OF	A	C	WASHINGTON	L	W02	WELL #2
NC0195118	SEVEN DEVILS, TOWN OF	A	C	WATAUGA	L	W01	WELL #1
NC0195118	SEVEN DEVILS, TOWN OF	A	C	WATAUGA	L	W02	WELL #2
NC0195118	SEVEN DEVILS, TOWN OF	A	C	WATAUGA	L	W03	WELL #3
NC0195118	SEVEN DEVILS, TOWN OF	A	C	WATAUGA	L	W04	WELL #4
NC0195118	SEVEN DEVILS, TOWN OF	A	C	WATAUGA	L	W06	WELL #6
NC0195118	SEVEN DEVILS, TOWN OF	A	C	WATAUGA	L	W07	WELL #7
NC0496015	MOUNT OLIVE, TOWN OF	A	C	WAYNE	L	W01	WELL #1
NC0496015	MOUNT OLIVE, TOWN OF	A	C	WAYNE	L	W03	WELL #3
NC0496015	MOUNT OLIVE, TOWN OF	A	C	WAYNE	L	W04	WELL #4
NC0496015	MOUNT OLIVE, TOWN OF	A	C	WAYNE	L	W05	WELL #5
NC0197050	RONDA, TOWN OF	A	C	WILKES	L	W02	WELL #2
NC0197050	RONDA, TOWN OF	A	C	WILKES	L	W03	WELL #3
NC0498020	ELM CITY, TOWN OF	A	C	WILSON	L	300	BLOODFIELD WELL
NC0498020	ELM CITY, TOWN OF	A	C	WILSON	L	400	COBB CROSS RDS WELL
NC0498020	ELM CITY, TOWN OF	A	C	WILSON	L	500	ELM CITY SCHOOL WELL
NC0498020	ELM CITY, TOWN OF	A	C	WILSON	L	600	OAK VIEW WELL
NC0498025	STANTONSBURG, TOWN OF	A	C	WILSON	L	001	WELL #1
NC0498025	STANTONSBURG, TOWN OF	A	C	WILSON	L	002	WELL #2
NC0498025	STANTONSBURG, TOWN OF	A	C	WILSON	L	003	WELL #3
NC0498025	STANTONSBURG, TOWN OF	A	C	WILSON	L	004	WELL #4
NC0498025	STANTONSBURG, TOWN OF	A	C	WILSON	L	005	WELL #5

NC0498030	LUCAMA, TOWN OF	A	C	WILSON	L	W03	WELL #3
NC0498030	LUCAMA, TOWN OF	A	C	WILSON	L	W04	WELL #4
NC0498030	LUCAMA, TOWN OF	A	C	WILSON	L	W05	WELL #5
NC0498035	BLACK CREEK, TOWN OF	A	C	WILSON	L	W01	WELL #1
NC0498035	BLACK CREEK, TOWN OF	A	C	WILSON	L	W03	WELL #3
NC0498035	BLACK CREEK, TOWN OF	A	C	WILSON	L	W05	BLK CREEK WELL #5
NC0498035	BLACK CREEK, TOWN OF	A	C	WILSON	L	W08	WELL #8
NC0498040	SARATOGA TOWN OF	A	C	WILSON	L	W02	WELL #2
NC0498040	SARATOGA TOWN OF	A	C	WILSON	L	W03	WELL #3
NC0498045	SIMS TOWN OF	A	C	WILSON	L	003	WELL #3
NC0299015	YADKINVILLE, TOWN OF	A	C	YADKIN	L	S01	WELL #1
NC0299020	BOONVILLE, TOWN OF	A	C	YADKIN	L	CWR	HALL PROP CORNFIELD WELL
NC0299020	BOONVILLE, TOWN OF	A	C	YADKIN	L	DWR	DEPOT STREET WELL
NC0299020	BOONVILLE, TOWN OF	A	C	YADKIN	L	WWR	WILLIAMS STREET WELL

# **APPENDIX VII**

**ADDITIONAL 57 COUNTY OR REGIONAL WATER SYSTEMS TO BE  
SAMPLED FOR ANALYSIS OF GENX AND PFAS CONTAMINANTS**

**From:** Gregson, Jim <[jim.gregson@ncdenr.gov](mailto:jim.gregson@ncdenr.gov)>  
**Sent:** Tuesday, June 11, 2019 4:04 PM  
**To:** Warren, Jeffrey Dennis <[jeff.warren@unc.edu](mailto:jeff.warren@unc.edu)>  
**Subject:** FW: [External] Jones County

Additional well list attached. The original list only included municipalities as per the legislation. The list was generated by including all local government units then deleting any system that was not on the League of Municipalities web site.

**Jim Gregson**  
 Deputy Director  
 Division of Water Resources  
 Department of Environmental Quality

1611 Mail Service Center  
 Raleigh, NC 27699-1611  
[919.707.9147](tel:919.707.9147) Direct  
[Jim.gregson@ncdenr.gov](mailto:Jim.gregson@ncdenr.gov)

*Email correspondence to and from this address is subject to the  
 North Carolina Public Records Law and may be disclosed to third parties.*

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**From:** Sadosky, Rebecca  
**Sent:** Tuesday, June 11, 2019 2:55 PM  
**To:** Gregson, Jim <[jim.gregson@ncdenr.gov](mailto:jim.gregson@ncdenr.gov)>  
**Cc:** Holman, Sheila <[sheila.holman@ncdenr.gov](mailto:sheila.holman@ncdenr.gov)>; Culpepper, Linda <[linda.culpepper@ncdenr.gov](mailto:linda.culpepper@ncdenr.gov)>; Midgette, Robert <[robert.midgette@ncdenr.gov](mailto:robert.midgette@ncdenr.gov)>  
**Subject:** FW: [External] Jones County

Hi Jim,

In addition to the list of community water systems with wells that was originally provided to the Collaboratory, there are other public water systems with wells that are owned by local governments such as county water systems and water districts. Attached is a spreadsheet containing these additional 57 water systems that were not included in the original list.

Let me know if you have any questions or need anything else.  
 ~Rebecca

***Rebecca Sadosky, Ph.D.***

N.C. Drinking Water Protection Program Coordinator and Emergency/Security Contact  
 N.C. Division of Water Resource  
 N.C. Department of Environmental Quality

Phone: (919) 707-9096  
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 1634 Mail Service Center  
 Raleigh, NC 27699-1634

*Email correspondence to and from this address is subject to the  
 North Carolina Public Records Law and may be disclosed to third parties.*

Water System ID	Water System Name	WS Activity Status Code	Water System Federal Type Code	Population	County	Owner Type Code	Owner Name
NC0122010	CLAY CO WATER & SEWER DISTRICT	A	C	1384	CLAY	L	CLAY COUNTY WATER & SEWER
NC0187020	WHITTIER SANITARY DISTRICT	A	C	252	SWAIN	L	WHITTIER SANITARY DISTRICT
NC0309055	BLADEN CO WTR DIST-WEST BLADEN	A	C	11844	BLADEN	L	BLADEN COUNTY_0309055
NC0309060	BLADEN CO WTR DIST-EAST BLADEN	A	C	3889	BLADEN	L	BLADEN COUNTY_0309055
NC0347025	HOKE CO REGIONAL WATER SYSTEM	A	C	24193	HOKE	L	HOKE, COUNTY OF-- UTILITIES DEPT
NC0363108	MOORE CO PUBLIC UTIL-PINEHURST	A	C	20947	MOORE	L	MOORE, COUNTY OF
NC0378055	ROBESON COUNTY WATER SYSTEM	A	C	64295	ROBESON	L	ROBESON COUNTY OF PUBLIC UTILITIES
NC0382070	SAMPSON CO WTR DIST II	A	C	8670	SAMPSON	L	SAMPSON COUNTY PUBLIC WORKS DEPT
NC0407040	BEAUFORT CO SOUTHSIDE	A	C	9203	BEAUFORT	L	BEAUFORT COUNTY
NC0408085	BERTIE COUNTY REGIONAL WATER	A	C	12893	BERTIE	L	BERTIE COUNTY WATER DISTRICTS
NC0410045	BRUNSWICK COUNTY WATER SYSTEM	A	C	97582	BRUNSWICK	L	BRUNSWICK, COUNTY OF
NC0415015	SOUTH CAMDEN WTR & SWR DISTRCT	A	C	5133	CAMDEN	L	CAMDEN, COUNTY OF
NC0416025	HARKERS ISLAND SANITARY DIST	A	C	2358	CARTERET	L	HARKERS ISLAND SANITARY DIST
NC0416197	NORTH RIVER/MILL CREEK WATER SERVICE DIS	A	C	2800	CARTERET	L	CARTERET COUNTY UTILITIES
NC0416198	MERRIMON WATER SYSTEM	A	C	71	CARTERET	L	CARTERET COUNTY UTILITIES
NC0421015	CHOWAN CO WATER SYSTEM	A	C	10762	CHOWAN	L	CHOWAN, COUNTY OF
NC0424102	DUTCHESS FOREST S/D	A	C	81	COLUMBUS	L	TOWN OF BRUNSWICK_0424040
NC0424463	LAKELAND VILLAGE S/D	A	C	180	COLUMBUS	L	COLUMBUS COUNTY WATER SYSTEMS
NC0425040	FIRST CRAVEN SANITARY DISTRICT	A	C	6325	CRAVEN	L	FIRST CRAVEN SANITARY DISTRICT
NC0425055	CRAVEN COUNTY WATER SYSTEM	A	C	32500	CRAVEN	L	CRAVEN, COUNTY OF_0425055
NC0427010	CURRITUCK COUNTY WATER SYSTEM	A	C	12000	CURRITUCK	L	CURRITUCK, COUNTY OF
NC0428025	DARE CO-CAPE HATTERAS WATER	A	C	5486	DARE	L	DARE COUNTY
NC0428030	DARE COUNTY WATER SYSTEM	A	C	22766	DARE	L	DARE COUNTY

NC0428035	DARE CO-RWS WATER SYSTEM	A	C	2100	DARE	L	DARE COUNTY
NC0431085	DUPLIN COUNTY WATER SYSTEM	A	C	18542	DUPLIN	L	DUPLIN, COUNTY OF
NC0437020	GATES COUNTY WATER SYSTEM	A	C	11621	GATES	L	GATES, COUNTY OF
NC0440106	GREENE CO REGIONAL WATER SYST	A	C	9880	GREENE	L	GREEN CO BOARD OF COMMISSIONERS
NC0446045	HERTFORD COUNTY RURAL WATER	A	C	7970	HERTFORD	L	HERTFORD CO BD OF COMMISSIONER
NC0446106	UNION UTILITIES CORP	A	C	353	HERTFORD	L	UNION UTILITIES CORP
NC0448010	HYDE COUNTY WATER SYSTEM	A	C	5256	HYDE	L	HYDE, COUNTY OF
NC0448020	OCRACOE SANITARY DISTRICT	A	C	900	HYDE	L	OCRACOE SANITARY DISTRICT_0448020
NC0452020	JONES COUNTY WATER SYSTEM	A	C	8999	JONES	L	JONES COUNTY
NC0465010	CFPUA- WILMINGTON	A	C	139415	NEW HANOVER	L	CAPE FEAR PUBLIC UTILITY AUTHORITY
NC0465137	CFPUA/MONTEREY HEIGHTS	A	C	8202	NEW HANOVER	L	CAPE FEAR PUBLIC UTILITY AUTHORITY
NC0465232	CFPUA/NHC	A	C	29052	NEW HANOVER	L	CAPE FEAR PUBLIC UTILITY AUTHORITY
NC0466108	NORTHAMPTON-- MILWAUKEE	A	C	5715	NORTHAMPTON	L	NORTHAMPTON COUNTY
NC0467035	ONSLOW WTR AND SEWER AUTHORITY	A	C	128392	ONSLOW	L	ONSLOW WATER AND SEWER AUTHORITY
NC0469025	PAMLICO COUNTY WATER	A	C	15546	PAMLICO	L	PAMLICO COUNTY OF
NC0470015	PASQUOTANK COUNTY WATER SYSTEM	A	C	10653	PASQUOTANK	L	PASQUOTANK, COUNTY OF
NC0472025	PERQUIMANS COUNTY WATER SYSTEM	A	C	11314	PERQUIMANS	L	PERQUIMANS, COUNTY OF
NC0474010	GREENVILLE UTILITIES COMM	A	C	103140	PITT	L	GREENVILLE UTILITIES COMMISSION
NC0489015	TYRRELL COUNTY WATER	A	C	3177	TYRRELL	L	TYRRELL, COUNTY OF
NC0494025	WASHINGTON COUNTY WATER SYSTEM	A	C	6413	WASHINGTON	L	WASHINGTON COUNTY
NC0496045	SOUTHERN WAYNE SANITARY DIST	A	C	6679	WAYNE	L	SOUTHERN WAYNE SANITARY DIST
NC0496060	FORK TOWNSHIP SANITARY DISTRICT	A	C	9324	WAYNE	L	FORK TOWNSHIP SAN DISTRICT
NC0496065	WAYNE WATER DISTRICTS	A	C	32426	WAYNE	L	WAYNE WATER DIST COMBINED BD
NC1081024	FIREFLY COVE	A	C	40	RUTHERFORD	L	LAKE LURE TOWN OF
NC4032018	DURHAM COUNTY ROUGEMONT WATER SYSTEM	A	C	65	DURHAM	L	DURHAM CO ENGINEERING & ENVIRONMENTAL



NC6027001	SOUTHERN OUTER BANKS WTR SYST	A	C	7767	CURRITUCK	L	CURRITUCK, COUNTY OF
NC6028002	DARE CO-STUMPY POINT WATER SYS	A	C	269	DARE	L	DARE COUNTY
NC6059003	MARTIN CO WATER & SEWER DIST I	A	C	2205	MARTIN	L	MARTIN COUNTY
NC6059009	MARTIN CO WATER & SEWER DIST 2	A	C	2512	MARTIN	L	MARTIN COUNTY
NC6059018	MARTIN CO. REGIONAL WASA AUTHORITY WELL	A	C	0	MARTIN	L	MARTIN COUNTY
NC6070000	PASQUOTANK CO RO WATER SYSTEM	A	C	7490	PASQUOTANK	L	PASQUOTANK, COUNTY OF
NC7024007	COLUMBUS CO WATER DISTRICT II	A	C	7663	COLUMBUS	L	COLUMBUS COUNTY WATER SYSTEMS
NC7024012	COLUMBUS COUNTY WATER DIST III	A	C	2615	COLUMBUS	L	COLUMBUS COUNTY WATER SYSTEMS
NC7024013	COLUMBUS COUNTY WATER DIST IV	A	C	1948	COLUMBUS	L	COLUMBUS COUNTY WATER SYSTEMS