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Oct 11 2023

October 11, 2023

Ms. A. Shonta Dunston  
 Chief Clerk  
 North Carolina Utilities Commission  
 430 N. Salisbury Street  
 Raleigh, NC 27603

**RE: *In the Matter of Application of Old North State Water Company, Inc.  
 for Authority to Adjust and Increase Rates for Water Utility Service  
 in All Its Service Areas in NC  
 Docket No. W-1300, Sub 60  
 Exhibits (Public) Submitted into the Record During the October 2, 3 and 9, 2023,  
 Evidentiary Hearing***

Dear Ms. Dunston:

On behalf of Old North State Water Company, Inc., attached for filing in NC Utilities Commission Docket W-1300, Sub 60 are the following Public Exhibits as were submitted into the record at the above referenced hearing:

- ONSWC McDonald Mitchell Joint Direct Exhibit 1 – ONSWC Capital Improvements Since October 2020;
- ONSWC McDonald Mitchell Joint Direct Exhibit 2 – ONSWC Operations Hiring Schedule;
- ONSWC McDonald Mitchell Joint Direct Exhibit 3 – ONSWC Wastewater NOV's Per Year;
- ONSWC Campbell Direct Exhibit 1 – Resume of Max Campbell, Jr., CPA.

A Pennsylvania Limited Liability Partnership

California Colorado Delaware District of Columbia Florida Georgia Illinois Minnesota  
 Nevada New Jersey New York North Carolina Pennsylvania South Carolina Texas Washington

Ms. A. Shonta Dunston  
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All Exhibits in native format will be further provided to NC Public Staff and to [NCUCExhibits@ncuc.net](mailto:NCUCExhibits@ncuc.net) for reference and access.

Thank you in advance for your assistance with this filing. If you should have any questions, please do not hesitate to contact me.

Very truly yours,

*/s/ Elizabeth S. Hedrick*

Elizabeth S. Hedrick

Attachments

pbb

cc: Reita Coxton, NC Public Staff - Legal  
Jennifer Harrod, Commission Staff - Legal  
Jessica Heironimus, NC Public Staff - Legal  
Gina Holt, NC Public Staff - Legal  
Erica Jones, NC Public Staff - Legal  
Charles M. Junis, PE, NC Public Staff  
John L. McDonald, ONSWC  
Kim Mitchell, Commission Staff – Legal  
Parties and Counsel of Record



## ONSWC Capital Improvements Since October 2020

### Wastewater

#### Briar Chapel

- 1) Lift Station A bypass project **Completed Fall of 2021**
- 2) Rehab Wastewater Treatment Plant **October 2020 - June 2021**
  - a) New RAZ pumps in clarifier
  - b) New mud well pumps
  - c) New anthracite in filters
  - d) New EQ pumps
  - e) New EQ aerator
  - f) 2 aerators in aeration basin
  - g) Installed SCADA
  - h) Installed heat trace on exposed pipes
  - i) Rewired faulty electrical panels and installed new VFDs.
  - j) Installed all weather drive around plant for sludge removal trucks
  - k) New sump pump for dumpster area for odor control
  - l) New screening wash down equipment to keep rags out of the plant
  - m) Installed aerator timers to only aerate the digester after hours for odor control
  - n) New blowers for aeration basin and filters
  - o) New Chemical feed pumps
  - p) New Sampler
- 3) Lift Station rehabs **October 2020 - September 2021**
  - a) Installed SCADA and signage.
  - b) Pumped cleaned grease and set maintenance schedule
  - c) Rebuilt LS A pump #1
  - d) Rebuilt LS B pump #1
  - e) Rebuilt LS C pump #2
  - f) Rebuilt LS G pump #1
  - g) New volutes for LS D pump #1 and pump #2
  - h) Built inventory of back up pumps for LS A, LS B, LS C, LS D
  - i) Executed contract with Evoqua for odor control at LS A, LS B, LS C, LS D and LS E
  - j) Executed back up power maintenance program, exercising generators 10 minutes weekly.
- 4) Wastewater Treatment plant expansion **December 2021 thru December 2022**
  - a) Added 250,000 GPD wastewater treatment plant to accommodate development at SD East
- 5) Reclaimed Irrigation **October 2020 - Summer of 2021**
  - a) Installed 43 new controllers for spray zones
  - b) Replaced all irrigation controller communication radios
  - c) New aerators and bubblers for holding ponds
  - d) New Chemical feed pumps
  - e) Built inventory of pipe, fittings and spray heads

- f) New JD gator
- g) GIS Mapping
- 6) SD East lift station **Fall of 2021 - Winter of 2022**
  - a) Oversaw construction of SD East
  - b) Completed construction of SD East forcemain to existing forcemain on Taylor Road roughly 500 feet of 14" HDPE under Hwy 15/501.
  - c) GIS Mapping
  - d) Jetted gravity line from apartments to SD East Lift station since the line was installed years ago and was holding rocks and mud.
  - e) Regouted manholes to keep infiltration issues at apartments at SD East

## Horse Creek Farms

- 1) Collection System **Spring 2021**
  - f) Installed 2 new lift station control panels (3 LS total)
  - g) Installed 2 new lift station pumps
  - h) Dug up 200 feet of road to fix leaking manhole where ground had settled. Backfilled with gravel and good dirt. New asphalt on road that was dug up.
  - i) Installed signage.
  - j) Cleaned lift stations of grease and jetted lines
  - k) Instituted a required program of jetting 10% of the collection system annually
  - l) Backup power program implemented
  - m) Built inventory of back up pumps for lift stations
  - n) Installed scada

## Carolina Plantations

- 1) Wastewater Treatment Plant **Spring 2021**
  - a) 2 new EQ pumps
  - b) 2 new return pumps
  - c) 2 new blowers
  - d) Vent T installed
  - e) Pumped rags out of EQ basin
  - f) New well pump for wash down
  - g) Back up power implementation
  - h) New control panel
  - i) Installed scada
  - j) 2 new chemical feed pumps
  - k) Built inventory of critical components
- 2) Lift Station
  - a) Cleaned grease and pumped lift station
  - b) Jetted collection system
  - c) Installed scada

## Stateside

- 1) Wastewater Treatment plant **Fall 2021**
  - a) New membranes – all membranes had to be replaced
  - b) New permeate pump
  - c) Implemented daily cleaning schedule for screen to keep trash out of membranes
  - d) Back up power implementation
  - e) New sump pump for dumpster area for screen
  - f) Installed scada
  - g) New blower
  - h) 2 new chemical feed pumps
  - i) Built inventory for critical componets
- 2) Infiltration basins
  - a) New ground water monitoring station controls
  - b) Cleaned pond #2 of sludge for better drainage
- 3) Collection System
  - a) Installed scada
  - b) Cleaned grease and pumped lift station
  - c) Replaced 2 ARVs and implemented maintenance schedule
  - d) Mapped collection system into GIS

## Majestic Oaks

- 1) Wastewater Treatment plant **Summer 2021**
  - a) New blower
  - b) New control panel
  - c) New actuator to 5 day pond
  - d) 2 new pumps for groundwater lower devices
  - e) Reinstalled drain lines for infiltration basin
  - f) Back up power implementation
  - g) Installed scada
- 2) Lift Stations
  - a) New pumps – all 3 lift stations only had 1 pump
  - b) Installed scada
  - c) Cleaned grease and pumped lift stations
- 3) Majestic Oaks West
  - a) Reworked/interconnected low pressure mains to a single header for 12 homes
    - i) Original developer installed low pressure mains inconsistent with DEQ approved plans
  - b) Reworked/interconnected low pressure mains to a single header for 3 duplexes
    - i) Original developer installed low pressure mains inconsistent with DEQ approved plans

## Water Systems

### Fall of 2020

1. New gravel, and grading on well access roads, could not access wells due to mud and rutting.
2. Significant man hours to locate blow offs to purge all water systems.



Photographs are indicative of the water quality we found when flusing began on systematic schedule

3. Purchased over 20 pancake air compressors in Raleigh water systems after finding water logged hydrotanks due to air compressors not workings.
4. New filter media at Prescott
5. New started and RAD filter media at Kingston manor
6. Contracted with Environment 1 on labs. The current lab would process samples or turnover records due to unpaid lab invoices from previous contract ops firm.
7. New chemical feed pumps, hose and mixing tanks as previous contract ops firm took equipment without authorization.
8. Build inventory of key components, such as chemical feed pumps, contactors, relay switches, pressure switches, pipe and fittings, etc.
9. Sequestering Blaney Farms well #2 and Senter Farms well #6
10. New well pump Asheboro Country Club
11. Implemented mowing contract for all NC water systems as all access road right of ways and well lots were waist high.
12. Implemented water meter reading equipment with Trimble handhelds to upload water readings.
13. Built meter inventory to install new meters for new connections.

**Winter 2021**

1. Repaired water distribution line at Bingham Woods on remote well. The location was in a swampy area and on New Years Day. Worked around the clock to get community back up and running with in 24 hours.
2. Replaced well #6 pump at Senter
3. Repaired another broken water line at Bingham Woods remote well.

**Summer 2021**

1. Installed 500 feet of schedule 80 2" pipe at Bingham Woods from remote well to bypass the schedule 40 line.
2. Completed construction of well house and iron/manganese filters at Twin Lake Farms.
3. Started construction inspections on new development. Previous contractor never performed construction inspections.
4. Installed site tubes on all NC hydrotanks

**2022 1<sup>st</sup> six months**

1. Blaney Farms- Replaced well 2 Master Meter
2. Stonewood Manor- replaced starter coil on remote well 4
3. Stonewood Manor- water leak on Veneer Court. tapping saddle bolts rusted away. Replaced 2 tapping saddles. This is the third time this has happened on Veneer Court. Concerned that all Stonewood tapping saddles may be affected. Contacted Stonewood developer to find out what utility contractor installed the distribution system. Stainless steel bolts should have been used. System is less than 6 years old.
4. Bailey Farms- replaced 3 inch check valve on well 2. Replaced chlorine feed lines.
5. Camberly- Replaced 1 inch influent and effluent clear reinforced tubing on RADS filters at wells 6&9. Replaced pre-chlorine feed pump and tubing. Existing pre-chlorine pump rebuilt and placed in inventory as spare.
6. Ashcroft/Cadence- Repaired 4 inch leaking isolation valve connecting Ashcroft and Cadence.
7. Bingham Woods- Well 7 is online. Well 5 and 6 are resting as much as possible. Replaced well 6 pump and motor and 2 sections of pipe with holes.
8. Rocklyn- Repaired water leak damaged by landscaping contractor.

**Last 6 months 2022**

1. Repaired several leaking fittings on Dogwood Acres hydro tank.
2. Fish Hawk Ranch- Replaced soda ash injection fitting with KYNAR to be compatible with soda ash.
3. Bailey Farms- Replaced 2 inch galvanized pipe on hydro tank which was leaking.

**2023**

Bella Vista- Repairing remote well pipe leaking underneath the facilities concrete slab.

Bella Vista - Installed 400 feet of new 2" distribution line from well #2, water line compromised due to water hammer. Installed soft start on well.



**Upcoming Project Estimates**

Olde Mill Trace, RAD treatment \$100,000, Winter 2023

Autumn Ridge, RAD treatment \$120,000, Spring 2024

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### ONSWC Operations Hiring Schedule

In August 2020 ONSWC had to bring operations in house after due to termination of 3<sup>rd</sup> party contract ops firm September 30, 2020.

Three third party operations firms were hired in August 2020 to replace the contract operator terminated for poor performance and to cover all NC water systems:

- R&A Labs (Greensboro)
- Rockwater Group (Raleigh South)
- G&C Environmental (Raleigh North).

The timing of the hiring allowed 30 days of transition from the former contractor to the newly hired contractors. ONSWC then began hiring direct employed staff, beginning with the following:

- Amanda Grenier was hired to operate Briar Chapel wastewater facility, collections and reclaimed permits in September 2020.
- Lee Buck was hired to operate Majestic Oaks and Cedar Point in September 2020.
- Jeff Jarman was an existing contractor for Stateside, Carolina Plantations and Horse Creek Farms.

This was a major shift for the Birmingham office as they were now responsible for 24 hours, 7 days a week field operations, maintenance, and construction. ONSWC began an initiative in February of 2021 to move away from all third-party operations. The utility believed we could not accomplish excellence in operations and exceptional customer service without hiring our own operations personnel. Prior to 2021, ONSWC did not have a single operations employee in NC, and Integra Water in Alabama had 4.5 full time equivalents (FTEs) in Alabama. Beginning in 2021, the following positions were also filled:

#### 2021

2/21 Mechanic/repair technician  
3/21 Briar Chapel wastewater, Collections, and Reclaimed/spray ORC.  
6/21 Wastewater Operator in Training  
6/21 Raleigh water ORC  
6/21 Raleigh water ORC  
6/21 Raleigh water ORC  
10/21 Wastewater Operator in Training  
12/21 Briar Chapel grade 2 wastewater operator

#### 2022

2/22 Wastewater Operator in Training  
7/22 Water Operations Manager  
10/22 Utility Technician – Briar Chapel  
11/22 Briar Chapel WW Operator  
12/22 Wastewater Operator in Training  
12/22 Wastewater Operator in Training

**2023**

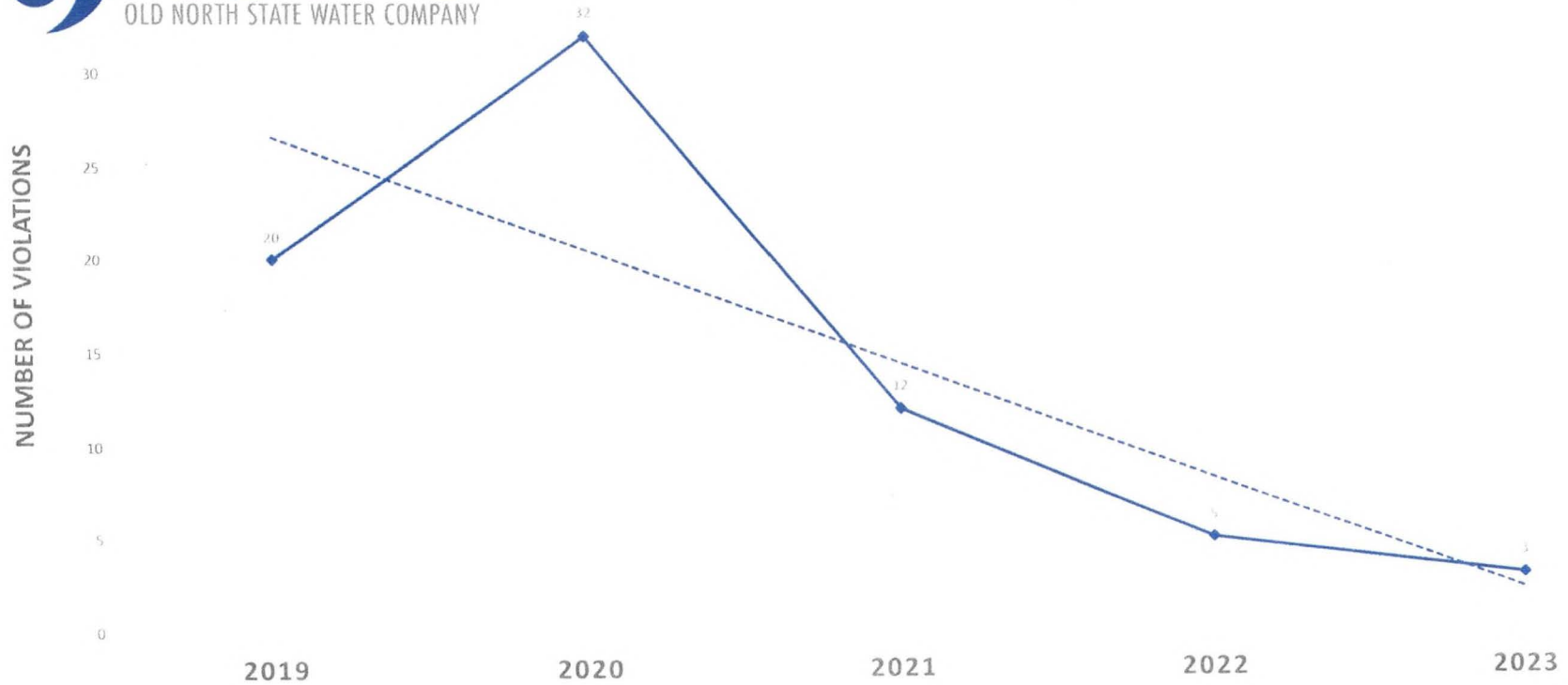
5/23 Greensboro Water ORC  
6/2023 Greensboro Water ORC  
9/23 Briar Chapel Utility Technician

In addition to these hires, vehicles had to be acquired to support all the new operations personnel.





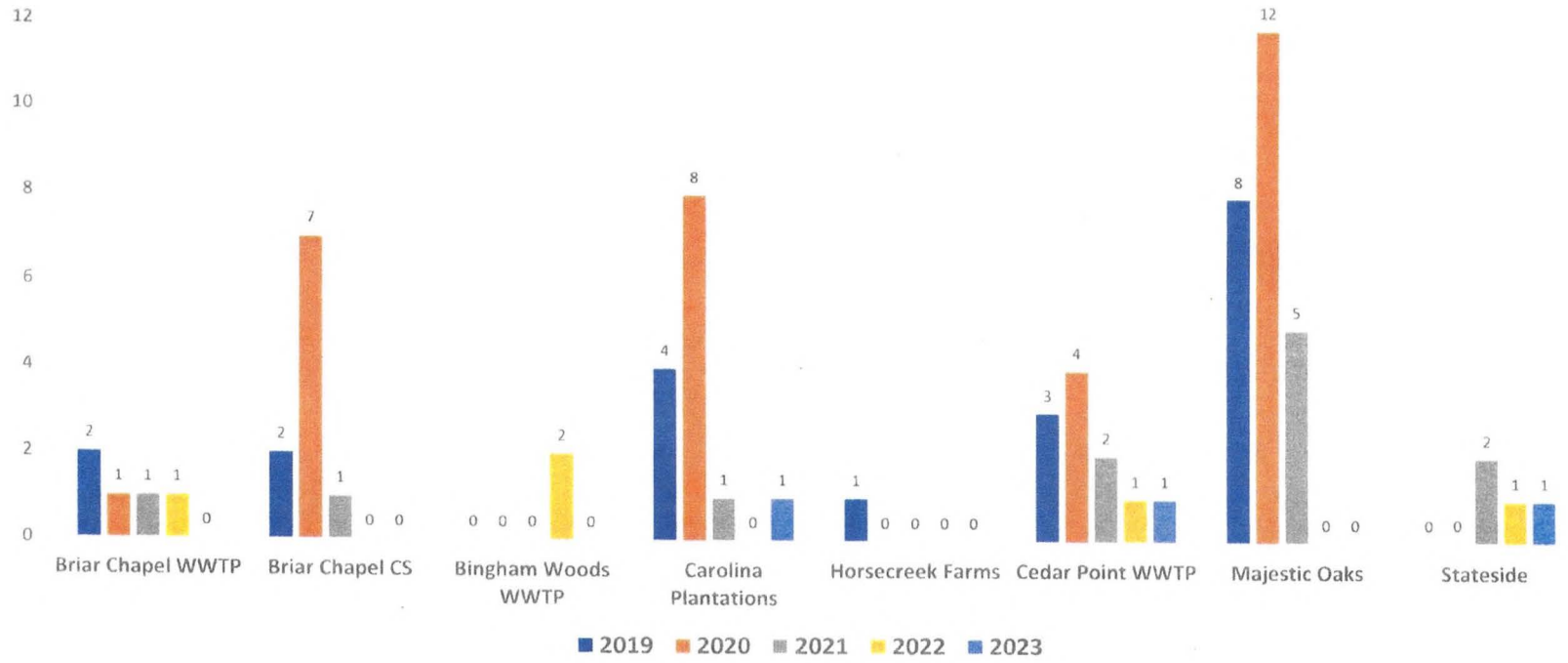
### WASTEWATER NOVS PER YEAR



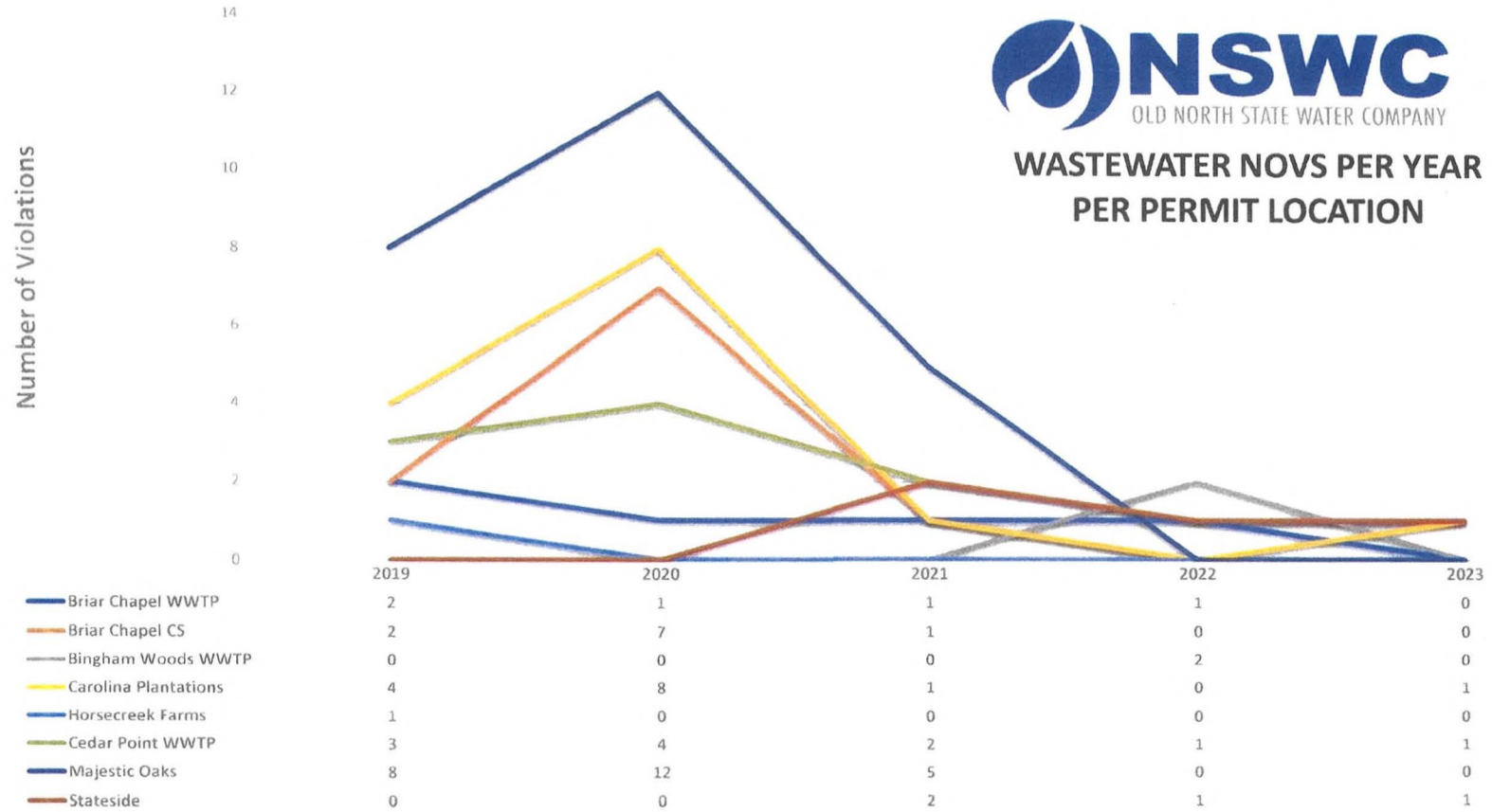
\*\*NOVs issued due to IRI Q software change regarding continuous monitoring have been omitted.  
\*\*\*NOVs have been attributed to the year of occurrence rather than the year of issuance.



### VIOLATIONS PER PERMIT LOCATION



\*NOVs issued due to DQI software change regarding continuous monitoring have been omitted  
 \*\*NOVs have been attributed to the year of occurrence rather than the year of issuance



\*NOVs issued due to DFG software change regarding continuous monitoring have been omitted

\*\*NOVs have been attributed to the year of occurrence rather than the year of issuance



ONSWC McDonald Mitchell Joint Direct Exhibit 3  
W-1300 Sub 60

			2019
WQ0028552	Raleigh	Briar Chapel WWTP	2
WQCS00372	Raleigh	Briar Chapel CS	2
WQ0005279	Raleigh	Bingham Woods WWTP	0
WQ0033770	Wilmington	Carolina Plantations	3
NC0062359	Wilmington	Horsecreek Farms	1
WQ0036766	Wilmington	Cedar Point WWTP	3
WQ0030088	Wilmington	Majestic Oaks	8
WQ0035809	Wilmington	Stateside	0
		TOTAL	19
			2019
			19

Stateside

2020	
2021	NOV-2021-LV-0009
	NOV-2021-LV-0095
2022	NOV-2022-LV-0350
2023	NOV-2023-LV-0588

Carolina Plantations

2019	NOV-2019-LM-0094
	NOV-2019-LV-0635
	NOV-2019-LV-0714
2020	NOV-2020-LV-0386
	NOV-2020-LV-0629
	NOV-2020-LV-0446
	NOV-2020-LV-0003
	NOV-2020-LV-0572
	NOV-2020-LV-0573
	NOV-2020-LV-0731
	NOV-2020-LV-0810
	NOV-2020-LV0871
2021	NOV-2021-SP-0001
2022	
2023	NOV-2023-SP-0001

Magestic Oaks

2019	NOV-2019-LM-0083
	NOV-2019-LV-0003
	NOV-2019-LV-0069
	NOV-2019-LV-0143
	NOV-2019-LV-0232
	NOV-2019-LV-0287
	NOV-2019-LV-0531

ONSWC McDonald Mitchell Joint Direct Exhibit 3  
W-1300 Sub 60

	2020	NOV-2019-PC-0201 NOV-2020-LV-0447 NOV-2020-LV-0511 NOV-2020-LV-0004 NOV-2020-LV-0005 NOV-2020-LV-0055 NOV-2020-LV-0155 NOV-2020-LV-0447 NOV-2020-LV-0571 NOV-2020-LV-0730 NOV-2020-LV-0811 NOV-2020-LV-0872
	2021	NOV-2021-LV-0224 NOV-2021-LV-0010 NOV-2021-LV-0111 NOV-2021-LV-0409 NOV-2021-LV-0606 NOV-2021-PC-0049
	2022	
<b>Bingham Woods</b>	2019	
	2020	
	2021	
	2022	NOV-2022-PC-0048
	2023	NOV-2023-MV-0111
<b>Cedar Point WWTP</b>	2019	NOV-2019-LM-0049 NOV-2019-LV-0550 NOV-2019-LV-0815
	2020	NOV-2020-LV-0001 NOV-2020-LV-0158 NOV-2020-LV-0577
	2021	NOV-2021-LV-0016 NOV-2021-LV-0392 NOV-2021-LV-0481
	2022	NOV-2022-LV-0710
	2023	NOV-2023-LV-0426
<b>Horsecreek Farms</b>	2019	NOV-2019-LV-0866
<b>Briar Chapel WWTP</b>	2019	NOV-2019-PC-0658 NOV-2019-PC-0436
	2020	NOV-2020-PC-0102
	2021	NOV-2021-DV-0329
	2022	NOV-2022-LM-0058

ONSWC McDonald Mitchell Joint Direct Exhibit 3  
W-1300 Sub 60

Briar Chapel CS

2019	NOV-2019-DV-0310 NOV-2019-PC-0645
2020	NOV-2020-DV-0080 NOV-2020-DV-0195 NOV-2020-DV-0304 NOV-2020-DV-0365 NOV-2020-DV-0404 NOV-2020-DV-0454 NOV-2020-DV-0506
2021	NOV-2021-DV-0205

2020	2021	2022	2023
1	1	1	0
7	1	0	0
0	0	1	1
9	1	0	1
0	0	0	0
3	3	1	1
11	6	0	0
0	2	1	1
32	14	5	4
2020	2021	2022	2023
32	14	5	4



## **Max Campbell, Jr., CPA**

### Education

Bachelor of Science in Accounting degree from the University of Alabama in Huntsville

Masters of Accounting degree from the University of Alabama at Birmingham

Additional graduate level studies at Auburn University.

### Professional Experience

Mr. Campbell has been in the accounting profession for thirty years, with six years as an accountant in industry and twenty-four years in public accounting.

Mr. Campbell has extensive experience with non-profit organizations, having served as the controller for a large non-profit organization, as well as performing numerous audits of non-profits.

### Memberships/Credentials

Mr. Campbell is member of the American Institute of Certified Public Accountants (AICPA) and the Alabama Society of CPA's.