

July 28, 2022

Via Electronic Filing

Ms. A. Shonta Dunston, Chief Clerk North Carolina Utilities Commission 4325 Mail Service Center Raleigh, North Carolina 27699-4325

Re: Aqua North Carolina, Inc.

Docket No. W-218, Sub 553

Dear Ms. Dunston:

Attached is Aqua North Carolina's Application for Certificate of Public Convenience and Necessity and for Approval of Rates for Gardner Farms water system located in Wake County. The following exhibits are also included:

- PWSS Letter
- Chemical Analysis
- Vicinity Map
- Water and Sewer System Plan
- Estimated Cost

If there are questions regarding the attached information, please do not hesitate to contact me at 919-653-6963.

Sincerely,

Barbara Brantley

New Business Coordinator

Attachments

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

APPLICATION FOR CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY AND FOR APPROVAL OF RATES

INSTRUCTIONS

Notes or explanations placed in the margins of the application are acceptable. If additional space is needed, supplementary sheets may be attached. If any section does not apply, write "not applicable" or cross out the section.

APPLICANT

1.	Trade name used for utility business	Aqua North Carolina, Inc.		
2.	Name of owner (if different from trade name			
3.				
	City and State	Cary, North Carolina 27511		
4.	Business street address (if different from 202 MacKenan Court, Cary, Nort			
5.	Business telephone number	(919) 467 - 8712		
6.	If corporation, list the following:			
	President - Shannon V. Becker	Vice President -		
	Secretary - Robyn Lambeth	Treasurer -		
	Three (3) largest stockholders and percer	nt of voting shares held by each		
	Agua America, Inc. 100%	·		
7.	If partnership, list the owners and percent	of ownership held by each		
	N/A			
	PROPOSED UTILITY SERVICE	E AREAS		
8.	Name of Subdivision or Service Area	Gardner Farms		
9.	County (or Counties)	Wake		
10.	Type of Service (Water and/or Sewer)	Water		
	· · · · · · · · · · · · · · · · · · ·			
	PROPOSED	RATES		
		Proposed to Charge		
11.	Metered Residential Service :			
	Water:	BFC: \$20.70 + \$6.38 per 1000 gallons		
		Same as rates approved in Docket No. W-218, Sub 526		
	Sewer:	N/A		
12.	Flat Rate Residential Service:			
	Water:	N/A		
	Sewer:	N/A		
13.	Nonresidential Service (explain):			
	Water:	Same as rates approved in Docket No. W-218, Sub 526		
	Sewer:	N/A		
14.	Tap-on fees:			
	Water:			
	Sewer:	Based on contract to be filed with NCUC		
15.	Finance charge for late payment:	1%		
		an one percent (1.0%) per month will be applied	· · · · · · · · · · · · · · · · · · ·	
	to the unpaid balance of all bills still past of			
16.	Reconnection charge if water service cut			
	R7-20: \$35.00	· · · ·		
17.	Reconnection charge if water service disc		\$15.00	
18.	Reconnection charge if sewer service cut			
	R10-16: Actual Cost			
19	Other charges:	New Account Fee: \$20.00		

PROPOSED BILLING

Frequency of billing shall be (n	nonthly, quarterly, etc.)	Monthly	
Billing shall be for service (in a	dvance or arrears)	Arrears	
Bills past due 15 days after the	e billing dates :		
(NCUC Rule R12-9 specifies	that bills shall not be past	due less than fifteen (15) o	days
after billing date).			
Will regular billing be by writte	n statement ? (yes or no)	Yes	
Will the billing statement conta		no)	•
	eginning and end of billing		Yes
(b) Date of meter read		,	Yes
(c) Gallons used, base			Yes
	rrent billing period listed as	3.3	
	frent billing period listed at	, u	Yes
separate amount		d as a	103
	previous billing period liste	u as a	Voc
separate amount		2	Yes
	ch special charge (i.e., de	posits, tap tees, etc.) iisted	as as
a separate amount			
Show how the following will ap			
(a) Mailing address of		Cenan Court	
	Cary, N.	. C. 27511	
(b) Address where bill	can be paid in person:	N/A	
(c) Name and phone of	of alternative persons to co	ontact for emergency servi	ce after
business hours:	(877) 987-2782		
Is service already metered? (y	yes or no) Yes		
Does the Applicant understan	d the provisions for establi	ishing credit and collecting	3
customer deposits set forth in	NCUC Rules and Regulat	tions, Chapter 12?	Yes
(Customer deposits must be r	efunded to customer havir	ng not more than two (2) b	ills
overdue during a 12-month pe	ariod and who are not then	delinguent on the navme	nt of their
	silou and who are not then	acinquent on the payme	THE OT LITOR
bills per NCUC Rule R12-5.			
•			
	PRESENT RATES r service? If so, describe t	the rates being charged	
Are you presently charging fo	r service? If so, describe t	the rates being charged	
Are you presently charging fo No How long have these rates be	r service? If so, describe t	the rates being charged	
Are you presently charging fo No How long have these rates be	r service? If so, describe t	the rates being charged	
Are you presently charging fo No How long have these rates be	r service? If so, describe t	the rates being charged ADDRESS	TELEPHONE
Are you presently charging fo No How long have these rates be	r service? If so, describe to the service of the se	ADDRESS	
Are you presently charging fo No How long have these rates be PEI General Manager	r service? If so, describe to the seen in effect? RSONS TO CONTACT NAME Joe Pearce	ADDRESS 202 MacKenan Court	919-467-8712
Are you presently charging fo No How long have these rates be PEI General Manager Complaints or Billing	r service? If so, describe to the sen in effect? RSONS TO CONTACT NAME Joe Pearce Customer Service	ADDRESS 202 MacKenan Court 202 MacKenan Court	919-467-8712 919-467-8712
Are you presently charging fo No How long have these rates be PEI General Manager Complaints or Billing Engineering Operations	r service? If so, describe to the sen in effect? RSONS TO CONTACT NAME Joe Pearce Customer Service Michael Melton	ADDRESS 202 MacKenan Court 202 MacKenan Court 202 MacKenan Court	919-467-8712 919-467-8712 704-507-3315
Are you presently charging fo No How long have these rates be PEI General Manager Complaints or Billing	r service? If so, describe to the sen in effect? RSONS TO CONTACT NAME Joe Pearce Customer Service Michael Melton Area Manager	ADDRESS 202 MacKenan Court 202 MacKenan Court 202 MacKenan Court 202 MacKenan Court	919-467-8712 919-467-8712 704-507-3315 919-467-8712
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SERVICE AREA

Fill in one column for each subdivision or service area. If more columns are needed for additional subdivisions or service areas, attach supplementary sheets.

			New System	Existing System
1.	Name of subdivision or service area		Gardner Farms	
2.	County (or Counties)		Wake	
3.	Type of Service (water, sewer, etc.)		Water	
4.	If water is purchased, list from whom		N/A	
5.	Source of water supply (wells, etc.)		Well	
6.	Number of wells in service		1	
7.	Pumping capacity of each pump in service		69 gpm	
8.	Elevated storage tank capacity (gals.)		N/A	
9.	Pressure tank capacity (gals.)		12,000 gallons	
10.	Types of water treatment (chlorine, etc.)		Fe/Mn Filtration	
11.	Number of hydrants installed		N/A	
12.	Is sewage disposal by septic tanks or by sewer system?		Septic	
13.	If disposal is by sewer system, is sewage treated by utility company or			
	by others?		N/A	
14.	Capacity of company's sewage treatment			
	plant (gallons per day)		N/A	
15.	Is service metered? (yes or no)		Yes	
16.	Number of water meters in use		0	
17.	Number of service taps in use			
	(List number of each size)	Water	43 - 3/4"	
		Sewer	N/A	***************************************
10	Number of sustances at the end of			
18.	Number of customers at the end of	10/-4		
	test year	Water	7 N/A	
19.	Number of customers that can be	Sewer	N/A	
13.	served by mains already installed			
	(including present customers,	Water	7	
	vacant lots, etc.)	Sewer	N/A	
20.	Number of customers that can be	OCWE	IVA	
	served by pumping capacity	Water	124 @ 0.555pgm/lot	
21.	Number of customers that can be	********	12 T & 0.000pgminot	
	served by storage tank capacity	Water	63	
22.	Number of customers that can be			
	served by treatment plant capacity	Sewer	N/A	
23.	Name nearest water/sewer utility			
	system		Kennebec Farms	N/A
24.	Distance to nearest water/sewer utility system		<0.5 miles	N/A
25.	Does any other person or utility			
	seek to furnish the service(s)			
•	proposed herein? (yes or no)		No	No
26.	a. DEHNR System I.D. No.	Water	NC4092197	
	 NPDES or Nondischarge Permit No. 	Sewer	N/A	N/A

FINANCIAL STATEMENT

1	Will a separate set of books be maintained for the utility business?
	Vae

- Will a separate bank account be maintained for the utility business?

 Yes
- 3 Are the revenues and expenses listed below based on past operations or are they estimated for future operations? (actual or estimated)

 Estimated

Note: If the Applicant already holds a public utility franchise, the proposed service area is new (i.e., there are no customers being served), and the proposed rates herein are the same as those previously approved, the financial statements below (lines 4 through 35) may be omitted.

REVENUES AND EXPENSES

For 12 Months Ended _____(Date)

	Revenues	Water	Sewer
4	Residential service (flat rate)	\$	\$ N/A
5	Residential service (metered rate)	n	11
6	Nonresidential service (flat rate)	11	II
7	Nonresidential service (metered rate)	11	11
8	Other revenues (describe in remarks		
_	below)		11
9	Total Revenues (lines 4 thru 8)	***	***************************************
10	Total salaries (except owner)	u .	н
11	Salaries paid to owner	11	11
12	Administrative and office expenses		
	(except salaries)	"	
13	Maintenance and repair expenses		
	(except salaries)		11
14	Transportation expenses	"	11
15	Electric power for pumping	II .	
16	Chemicals for treatment	11	II
17	Testing Fees	11	11
18	Permit Fees		***************************************
19	Purchased water/sewer treatment		
20	Annual depreciation		
21	Taxes: State income taxes	11	
22	Federal income taxes	П	11
23	Gross receipts (or franchise tax)	11	21
24	Property taxes	11	*1
25	Payroll taxes		11
26	Other taxes	**	
27	Interest on debt during year	11	11
28	Other expenses (describe in remarks		
	below)		11
29	Total Expenses (lines 10 thru 28)		***************************************
30	Net Income (line 9 minus line 29)	\$ "	\$ "
	Remarks	s	
31			
32			
33			
34			
35			
33			

NUMBER OF CUSTOMERS SERVED

		vvater		30	Sewer	
		Flat	Metered	Flat	Metered	
36	Customers at beginning of year	N/A	7	N/A	N/A	
37	Customers at end of year	N/A	7	N/A	N/A	
38	Average gallons used per customer	5,000		_per month		

COST OF UTILITY SYSTEM

Estimated Does the cost of utility system listed bel	ow represent the cost	cost to the Applicant		
herein? (yes or no) No				
ORIGINAL COST (OF UTILITY SYSTEM			
As of Year Ended		(Date)		
Note: List the total original cost to const whether or not paid for by the pr		system,		
Utility Property in Service	Balance at Water	End of Year Sewer		
and and rights of way	\$ See # 23	\$ N/A		
Structures and site improvement	11			
Vells	H			
Pumping equipment	II.	11		
reatment equipment	11	- H		
Storage tanks				
Mains (excluding service connections)				
Service connections				
Meters (including spare meters)		- 11		
Office furniture and equipment	11	- 11		
Fransportation equipment	***************************************			
Other utility property in service	н	n		
(Describe in remarks below) Fotal utility property in service		•		
(lines 3 thru 14)	11	п		
Less accumulated depreciation		11		
Less accumulated depreciation				
other contributions in aid of				
construction	п	11		
_ess customer advances	11	II.		
Net investment in utility property				
(line 15 minus 16, 17, & 18)	\$ "	\$ "		
Utility Property Not in Service	Balar	ce at End of Year		
	Water	Sewer		
Construction work in progress	\$ N/A	\$ N/A		
Property held for future use	11	н		
Other (describe in remarks below)	11	"		
Rema	arks			
#3 - #19 See Contract filed with Applica	ation			

2.

3.

- 5 -OTHER FINANCIAL INFORMATION

1.	Please provide the following capital structure information for the Company prior to the purchase of the
	new water and / or sewer system(s):

a.	Capital Structure as of	Septemberber 30, 2020	_
b.	Capital Structure balances :		
		Amount	Percent Of Total Capital
		Amount	Тотат Сартат
	Long - term debt / loans	<u>\$131,676,937</u> [1]	49%
	Preferred stock (if any)	<u> </u>	0%_
	Common Equity : Common Stock Other paid in capital Retained Earnings	\$6,116 \$69,079,826 \$69,067,602	0% 24% 26%
	Total common equity	The state of the s	50%
	Total Capital	\$269,830,481	99%
	[1] Including short-term line of	credit in the amount of \$6.8 million curre	ent portion on long-term debt.
The	e purchase price of the system v	vill be financed as follows :	
a. b. c. d. e. f.	Long - term debt Short - term debt Common Stock Retained Earnings Other Total purchase price	\$75,250 \$75,250	
g.	Description of other :		
Ple	ease provide the following for im	provements / additions to be made in th	e first vear :
a.			
b.	Financing:		
	 (1) Long - term debt (2) Short - term debt (3) Common Stock (4) Retained Earnings (5) Other (6) Total improvements / add (7) Description of other : 	50.00% 50.00% 	
	(,,		

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RECOVERY OF PLANT COST

The utility proposes to recover the cost of the plant listed on Page 5, Line 15 as follows

Amount to be son	stributed by developer	Water \$ See #5		ewer N/A		
	tributed by developer overed through tap fees	\$ 5ee #5	<u>Ψ</u> 1	11		
	overed through rates	11		11		
Other (Please de	scribe below on Line 6)	11		11		
Total Cost of Plan	nt					
Description of oth	ner:					
a. Per contract, [Developer installs entire fa	acilities at his exp	ense.			
h Per tariff Agu	a collects \$70 new meter	fee and \$20 new	customer	fee per	each new conne	ectic
made to the wate						
h Dor contract I	Utility's purchase price per	r lot is \$1,750 qua	terly for w	<i>r</i> ater		
D. Fel Contract, C	otinty o purchased price par					
b. Per contract, t	<u> </u>					
b. Fer contract, t						
D. Per contract, (отту с разоние с регори					
D. Fei Contract, C						
D. Fel Colliact, C						
D. Fei Comiaci,						
D. Fel Colliact,	ANNUAL DEPRE					
		CIATION	the entire	system,	, show	
If annual depreci	ANNUAL DEPRE	CIATION omposite rate for				
If annual depreci	ANNUAL DEPRE ation is claimed using a co ion used: When the system is ac	CIATION composite rate for stually recorded in				
If annual depreci	ANNUAL DEPRE	CIATION composite rate for stually recorded in				
If annual depreci	ANNUAL DEPRE ation is claimed using a co ion used: When the system is ac	CIATION composite rate for stually recorded in				
If annual depreci rate of depreciati Water:	ation is claimed using a coon used: When the system is account specific de	CIATION composite rate for stually recorded in				
If annual depreci rate of depreciati Water: Sewer:	ation is claimed using a coon used: When the system is account specific de	CIATION composite rate for setually recorded in epreciation rates.	the asset	t accoun	nts, Utility will	
If annual depreci rate of depreciati Water: Sewer:	ation is claimed using a colon used: When the system is accuse account specific downward. N/A iation is claimed using ind	CIATION composite rate for setually recorded in epreciation rates.	the asset	t accoun	nts, Utility will	

OTHER FINANCIAL INFORMATION

1.	Are there any major improvements/additions required in the next five years and the next
	ten years? Indicate the estimated cost of each improvement/addition, the year it will
	be made, and how it will be financed. (long-term debt, short-term debt, common stock,
	earnings, and othe (please explain).

0 - 5 years	- no replacement expected	
5 - 10 years	- routine replacement of pumps/motors	
10 - 20 years -	- routine replacement of pumps/motors	
20 - 40 years -	- routine replacement of pumps/motors	

2. Are there any major replacements required in the next five years and the next ten years Indicate the estimated cost of each replacement, the year it will be made, and how it will be financed retained (long-term debt, short-term debt, common stock, earnings, and othe (please explain).

	o replacement expected
5 - 10 years - re	outine replacement of pumps/piping/motors
10 - 20 years - ro	utine replacement of pumps/piping/motors
20 - 40 years - ro	utine replacement of pumps/piping/motors

- 3. Please fill out the attached addendum showing the projected cash flows and income statement for the first five years of operation of this system. This addendum should be for the utility system for which the subject application is being submitted, exclusively. Instructions are included on page 3 of the addendum. The following information may be provided instead of filling out the addendum:
 - (1) Audited financial statements for the utility and/or parent company.
 - (2) Budgets, capital and operating, for the company's North Carolina utility operations for the next five years.
 - (3) The most recent fiscal year budgets, capital and operating, and the actual amounts for that year for the utility and/or parent company's North Carolina utility operations.

EXHIBITS

THE FOLLOWING EXHIBITS SHALL BE ATTACHED TO THE APPLICATION:

- If the Applicant is a corporation, enclose a copy of the Articles of Incorporation on file with the North Carolina Secretary of State. (Not required is previously filed with the Commission.)
- If the Applicants are doing business as a partnership, enclose a copy of the partnership agreement. (Not required in previously filed with the Commission.)
- If the Applicant is conducting business under a trade name or d/b/a, enclose a copy
 of the certificate filed with the register of deeds in each county where the Applicant
 will be conducting business as required by G.S. 66-68.
- Enclose a copy of a letter from the Department of Environment Quality approval of the plan for each water system.
- Enclose a copy of a letter from the Department of Environment Quality granting approval of the plan for each sewer system.
- Enclose a copy of a Division of Environmental Health (DEH) report on a chemical
 analysis of untreated water from each well. (This should not be confused with the
 monthly samples submitted to the DEH for bacteriological analysis. Contact DEH for
 instructions to obtain a sample for chemical analysis.)
- Enclose a copy of purchase agreements or contract showing provision for ownership or control of the water or sewer systems, including sites for wells or treatment plants.
- Enclose a copy of contracts or agreements, including all attachments, exhibits, and
 appendices, between the utility and any other party (land developers, customers, etc.)
 regarding the proposed utility services, including contracts regarding tap fees,
 construction costs, easements and rights-of-way, etc. (If none, write "none")
- Enclose a vicinity map showing the location of the proposed subdivisions or service areas in sufficient detail for someone not familiar with the county to locate the subdivisions. (A county roadmap with the subdivisions outlined is suggested.)
- Enclose maps of the subdivisions in sufficient detail to show layout of streets, lots, the water or sewer mains, hydrants, wells, pumping equipment, treatment facilities, storage facilities, etc.
- 11. Enclose a copy of the workpapers supporting the estimate of the plant costs, including a breakdown by type of plant item, showing the detail of how the estimated cost was determined, and indicating which plant items, if any, will be contributed to the utility.
- Enclose a copy of the most recent fiscal year financial statements, audited if available, for the Applicant.
- Enclose a copy of the most recent fiscal year financial statements, audited if available, for the parent company of the Applicant.
- 14. If the information requested in Exhibits 12 and 13 is not available, enclose a copy of the most recent fiscal year financial statements or statement of net worth for the principals of the utility and/or parent company.

FILING INSTRUCTIONS

- Eight (8) copies of the application and exhibits shall be filed with the North Carolina Utilities Commission, 4325 Mail Service Center, Raleigh, North Carolina 27699-4325. One of these copies must have an original signature. (Applicants must make their own copies.)
- 16. Enclose filing fee as required by G.S. s62–300. A Class A company (annual revenues of \$1.000,000 or more) requires a \$250.00 filing fee. A Class B company (annual revenues between \$200,000 and \$1,000,000) requires a \$100.00 filing fee. A Class C company (annual revenues less than \$200,000) requires a \$25.00 filing fee. MAKE CHECK PAYABLE TO THE N.C Department of Commerce/ Utilities Commission.

SIGNATURE

Application shall be signed and verified by the Applicant.

Signature

Date

Shannon V. Becker, Bresident

(Typed or Printed Name) Shannon V. Becker
personally appearing before me and, being first duly sworn, says that the information
contained in this application and in the exhibits attached hereto are true to the best
of his/her knowledge and belief.

Notary Publ

202 MacKenan Court, Cary, NC 27511

Address

My Commission Expires

NOTARY PUBLIC COUNTY HAMILIAN COUNTY HAMILIAN

Jul 28 2022

Proposed Service Area: Gardner Farms Attached, On File, or N/A On file with Commission 1 Articles of Incorporation N/A 2 Partnership Agreement 3 PWSS Letter Attached N/A 4 DEQ Letter Attached 5 Chemical Analyses Report Late Exhibit- to be filed 6 Deeds On file with Commission 7 Contract Attached 8 Vicinity Map Attached 9 Water/Sewer System Plan Attached 10 Estimated Cost 11 Audited Financial Report of Utility On file/Comm.

On file/Comm.

12 Audited Financial Report of Aqua America

ROY COOPER Governor JOHN NICHOLSON Interlin Secretary S. DANIEL SMITH Director



August 19, 2021

Aqua North Carolina, Inc. Attention: Michael A. Melton, Engineering Manager 202 MacKenan Court Cary, North Carolina 27511

Re: Engineering Plans Approval
Distribution Extension
Gardner Farms
Water System: Gardner Property

Water System: Claudier Property

Water System No.: NC4092197; Wake County

Serial No.: 21-00539

Dear Applicant:

Enclosed please find one copy of the "Application for Approval..." together with one copy of the referenced engineering plans bearing the Division of Water Resources stamp of approval for the referenced project. These engineering plans are approved under Division of Water Resources Serial Number 21-00539, dated August 19, 2021.

Engineering plans prepared by Michael V. Zaccardo, P.E., call for the installation of approximately 2,780 feet of 6-inch water main, 470 feet of 4-inch water main, valves, and associated appurtenances along Maxine Street, Bonnie Street, Melvin Street, and within the proposed utility access easement to serve 43 new single-family homes within Gardner Farms subdivision located at 7508 James Austin Road, Willow Springs, NC. The proposed 6-inch water main will connect to Gardner Property Community Well System (approved under Serial Number: 21-00543) at the stub end of well site. Construction of this project must be in accordance with the Aqua North Carolina, Inc.'s standard specifications.

Please note that in accordance with 15A NCAC 18C .0309(a), no construction, alteration, or expansion of a water system shall be placed into service or made available for human consumption until the Public Water Supply Section has issued Final Approval. Final Approval will be issued and mailed to the applicant upon receipt of both an Engineer's Certification and an Applicant's Certification submitted in accordance with 15A NCAC 18C .0303 (a) and (c).

These plans in the foregoing application are approved insofar as the protection of public health is concerned as provided in the rules, standards and criteria adopted under the authority of Chapter 130A-317 of the General Statutes. This approval does not constitute a warranty of the design, construction, or future operation of the water system.



Aqua North Carolina, Inc.

Attention: Michael A. Melton, Engineering Manager

Page 2 of 2 August 19, 2021

One copy of the "Application for Approval..." and a copy of the plans with a seal of approval from the Department are enclosed. One copy of the approved documents in a digital format (CD) is being forwarded to our Raleigh Regional Office. The second copy of the CD is being retained in our office.

If the Public Water Supply Section can be of further service, please call (919) 707-9100.

Sincerely,

Robert W. Midgette, P.E.

Monti Hassan 160r

Chief, Public Water Supply Section

Division of Water Resources

RWM/MH

Enclosures: Approval Documents

cc: Shawn Guyer, P.E., Raleigh Regional Office

Wake County Health Department

Timmons Group

North Carolina Utilities Commission, Water Division

ROY COOPER Opvernor JOHN NICHOLSON Interim Secretary S. DANIEL SMITH



Aqua North Carolina, Inc. Attention: Michael A. Melton, Engineering Manager 202 MacKenan Court Cary, North Carolina 27511

Re: Engineering Plans and Specifications Approval Groundwater System Gardner Property Community Well System Gardner Property Water System No.: NC4092197; Wake County Serial No.: 21-00543

Dear Applicant:

Enclosed please find one copy of the "Application for Approval..." together with one copy of the referenced engineering plans and specifications bearing the Division of Water Resources stamp of approval for the referenced project. These engineering plans and specifications are approved under the Division of Water Resources Serial Number 21-00543, dated August 16, 2021. This approval has the following condition: Prior to issuance of final approval for the project, a recorded deed/easement for the well site that documents that the area within 100-foot radius around the well is owned or controlled by the supplier of water must be submitted to our office.

Engineering plans prepared by Bruce W. Strickland Jr., P.E. and specifications prepared by Christopher R. Petree, P.E., call for the construction of a new well, Well No. 2 (WSF ID: W02) with a 44 gallon per minute (gpm) pump capacity (68 gpm yield), 499 feet total dynamic head (TDH), 10 horsepower (HP) submersible pump; well head piping, well house, sodium hypochlorite feeding system, one (1) 12,000-gallon ASME coded hydropneumatic storage tank with automatic pressure controls; installation of an iron and manganese filtration system (AdEdge Model: APU26-3072CO-2-315-PLC) with two (2) 30-inch diameter by 72-inch height pressure vessels containing manganese dioxide media (AdEdge AD26L) and garnet underbedding set up in parallel operation with a filtration rate of 4.4 gpm/sqft; H2Zero backwash recycle system with one (1) 3,000-gallon backwash recycle tank and one (1) 5,500-gallon sludge holding tank; distribution system, and associated appurtenances to serve 43 single-family lots within Gardner Farms subdivision (distribution mains will be approved under Serial Number: 21-00539) located at 7508 James Austin Road, Willow Springs, NC. Backwash sludge will either be hauled-off to nearby wastewater treatment facility owned and operated by Aqua NC, Inc. or to the land application sites.



Aqua North Carolina, Inc. Attention: Michael A. Melton, Engineering Manager Page 2 of 2 August 16, 2021

Hydropneumatic tanks with a capacity greater than 120 gallons must be constructed and stamped in accordance with the American Society of Mechanical Engineers (ASME) Pressure Vessel Code stamped with the ASME "U" symbol stamp and registered with the National Board of Boiler and Pressure Vessel Inspectors. These tanks must be inspected by the Department of Labor, Boiler Safety Bureau after installation but prior to operation. Please call (919) 707-7918 to schedule an inspection.

Please note that in accordance with 15A NCAC 18C .0309(a), no construction, alteration, or expansion of a water system shall be placed into service or made available for human consumption until the Public Water Supply Section has issued Final Approval. Final Approval will be issued and mailed to the applicant upon receipt of both an Engineer's Certification and an Applicant's Certification submitted in accordance with 15A NCAC 18C .0303 (a) and (c).

These plans and specifications in the foregoing application are approved insofar as the protection of public health is concerned as provided in the rules, standards and criteria adopted under the authority of Chapter 130A-317 of the General Statutes. This approval does not constitute a warranty of the design, construction, or future operation of the water system.

One copy of the "Application for Approval..." and a copy of the plans and specifications with a seal of approval from the Department are enclosed. One copy of the approved documents in a digital format (CD) is being forwarded to our Raleigh Regional Office. The second copy of the CD is being retained in our office.

If the Public Water Supply Section can be of further service, please call (919) 707-9100.

Sincerely,

Robert W. Midgette, P.E.

Monti Hassan Hor

Chief, Public Water Supply Section

Division of Water Resources

RWM/MH

Enclosures: Approval Documents

cc: Shawn Guyer, P.E., Raleigh Regional Office
Wake County Health Department
Timmons Group
North Carolina Utilities Commission, Water Division

Linda Raynor, Compliance Services Branch, Public Water Supply Section

Boiler Safety Bureau, Department of Labor



Environmental Chemists, This.

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info@environmentalchemists.com

NEW WELL INORGANIC CHEMICAL ANALYSIS

Name of System: Powell Family LP

County:

Phone Number: 919-266-9223

Fax Number:

Responsible Person's email:

Sample Type:

Location:

Facility ID:

Sample Point:

Collection Date:

Collection Time:

6/12/2020

10:15:00 AM

Mail Results to (water system representative)

NC

NW Poole Well and Pump

Collected by: Kevin Letchworth

Post Office box 1958 Wendell N

27591

LABORATORY ID#: 37729 SAMPLE UNSATISFACTORY **M** RESAMPLE REQUIRED CONTAM METHOD. REQUIRED QUANTIFIED **ANALYSES ANALYSES** ALLOWABLE CONTAMINANT CODE REPORTING RESULTS BEGUN COMPLETED CODE **LIMITS** LIMIT 0100 0.1 **Turbidity** SM 2130 B 1.7 NTU 06/12/2020 8:29 16:55 6/15/2020 1005 Arsenic **EPA 200.8** 0.005 < 0.005 06/16/2020 6/18/2020 0.01 mg/L 14:53 8:14 1010 Barium **EPA 200.8** 0.4 < 0.400 06/16/2020 14:53 6/18/2020 2 mg/L 8:14 1015 Cadmium **EPA 200.8** 0.001 < 0.001 mg/L 06/16/2020 14:53 6/18/2020 8:14 0.005 1016 Calcium **EPA 200.7** I 13.9 mg/L 06/16/2020 11:03 6/17/2020 11:22 1017 Chloride SM 4500 CI B 5 <5 mg/L 06/18/2020 11:20 6/18/2020 15:27 250 1020 Chromium **EPA 200.8** 0.02 < 0.020 06/16/2020 14:53 6/18/2020 mg/L 8:14 0.1 1022 **EPA 200.8** 0.05 Copper < 0.050 06/16/2020 mg/L 14:53 6/18/2020 8:14 1.3 1024 Cyanide **EPA 335.4** 0.05 < 0.050 mg/L 06/29/2020 13:44 6/30/2020 9:38 0.2 Analyzed outside of hold time. 1025 0.1 Fluoride SM 4500 F C 0.1 mg/L 06/15/2020 09:50 6/16/2020 9:26 4 1028 Iron **EPA 200.7** 0.06 0.889 11:22 mg/L 06/16/2020 11:03 6/17/2020 0.3 1030 Lead **EPA 200.8** 0.003 < 0.003 mg/L 06/16/2020 14:53 6/18/2020 8:14 0.015 1031 Magnesium **EPA 200.7** 1 2.43 mg/L 06/16/2020 11:03 6/17/2020 11:22 1035 0.0004 Mercury EPA 245.1 < 0.0004 mg/L 06/15/2020 6/16/2020 9:46 0.002 14:17 1036 Nickel **EPA 200.8** 0.1 < 0.100 mg/L 06/16/2020 14:53 6/18/2020 8:14 1040 Nitrate Nitrogen **EPA 353.2** 1 <1.0 mg/L 06/13/2020 10:07 7/6/2020 10:52 10 1041 Nitrite Nitrogen **EPA 353.2** 0.1 < 0.10 06/13/2020 10:07 6/15/2020 10:16 mg/L 1 1045 Selenium EPA 200.8 10,0 <0.010 mg/L 06/16/2020 14:53 6/18/2020 8:14 0.05 1050 Silver **EPA 200.8** 0.05 < 0.05 mg/L 06/18/2020 14:16 6/19/2020 8:41 0.1

LABORATORY LOG 20-24439

REPORT #:

2020-09776



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info@environmentalchemists.com

NEW WELL INORGANIC CHEMICAL ANALYSIS

Name of System: Powell Family LP

County:

Sample Type:

Location:

Facility ID:

Collection Date:

Collection Time:

Sample Point:

6/12/2020

10:15:00 AM

Collected by: Kevin Letchworth

Mail Results to (water system representative)

NW Poole Well and Pump Post Office box 1958

Wendell

NC

27591

Phone Number: 919-266-9223

Fax Number: Responsible Person's email

L	ABORATORY ID #: 37729		SAMPLE UN	ISATISFACTORY	RES/	AMPLE RE	QUIRED		
CONTAN	4. CONTAMINANT	METHOD CODE	REQUIRED REPORTING LIMIT	QUANTIFIED RESULTS	ANALYS BEGUN		ANALYSES COMPLETED		OWABLE LIMITS
1052	Sodium	EPA 200.7	1	11.7 mg/L	06/19/2020	10:15	6/23/2020	13:10	
1055	Sulfate (NW)	EPA 300.0	5	9 mg/L	06/16/2020	16:46	6/18/2020	9:09	250
1068	Acidity	SM 2310 B	ı	4 mg/L	06/24/2020	11:30	6/25/2020	7:53	
1074	Antimony	EPA 200.8	0.003	<0.003 mg/L	06/16/2020	14:53	6/18/2020	8:14	0.006
1075	Beryllium	EPA 200.8	0.002	<0.002 mg/L	06/16/2020	14:53	6/18/2020	8:14	0.004
1085	Thallium	EPA 200.8	100,0	<0.001 mg/L	06/16/2020	14:53	6/18/2020	8:14	0.002
1905	Color PtCo	SM 2120B (PtCo) 5	<5 units	06/13/2020	08:10	6/18/2020	8:21	15
1915	Total Hardness	SM 2340 C	í	48 mg/L	06/15/2020	10:30	6/15/2020	15:59	
1925	pH	SM 4500 H B		7.4 units	06/15/2020	14:00	6/15/2020	16:01	
1927	Alkalinity	SM 2320B	l	65 mg/L	06/16/2020	10:00	6/16/2020	15:38	
1930	Total Dissolved Solids (TDS)	SM 2540 C		114 mg/L	06/12/2020	16:00	6/16/2020	10:49	500

Comment:

REPORT #:

2020-09776

Samony



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info@environmentalchemists.com

NEW WELL - VOLATILE ORGANIC CHEMICALS (VOCs) ANALYSIS

Name of System: Powell Family LP County:

27591

Sample Type: Location Where Collected:

Facility ID: Sample Point:

Collected by: Kevin Letchworth

Mail Results to (water system representative)

NW Poole Well and Pump

Post Office box 1958

Wendell

NC

Collection Date:

Collection Time:

6/12/2020

10:15:00 AM

Phone Number: 919-266-9223

Fax Number:

Responsible Person's email:

L	ABORATORY ID #: 37729		SAMPLE UNS	ATISFACT	ORY		MPLE REQ	UIRED		
CONTAI CODE		METHOD CODE	REQUIRED REPORTING LIMIT		MIFIED ULTS		LYSES GUN	ANALYSES COMPLETED		OWABLE IMITS
2030	p-lsopropyltolucne	EPA 502 2	0.0005	<0.0005	mg/L	06/18/2020	00:25	6/23/2020	15:25	
2210	Chloromethane	EPA 502.2	0.0005	<0.0005	mg/L	06/18/2020	00:25	6/23/2020	15:25	
2212	Dichlorodifluoromethane	EPA 502.2	0.0005	<0.0005	mg/L	06/18/2020	00:25	6/23/2020	15:25	
2214	Bromomethane	EPA 502.2	0.0005	<0.0005	mg/L	06/18/2020	00:25	6/23/2020	15:25	
2216	Chloroethane	EPA 502.2	0.0005	<0.0005	mg/L	06/18/2020	00;25	6/23/2020	15:25	
2218	Fluorotrichloromethane	EPA 502.2	0.0005	<0.0005	mg/L	06/18/2020	00:25	6/23/2020	15:25	
2246	Hexachlorobutadiene	EPA 502.2	0.0005	<0.0005	mg/L	06/18/2020	00:25	6/23/2020	15:25	
2248	Napikhalene	EPA 502.2	0.0005	<0.0005	mg/L	06/18/2020	00:25	6/23/2020	15:25	
2378	1,2,4-Trichlorobenzene	EPA 502.2	0.0005	<0.0005	mg/L	06/18/2020	00:25	6/23/2020	15:25	0.07
2380	Cis-1,2-Dichloroethylene	EPA 502.2	0.0005	<0.0005	mg/L	06/18/2020	00:25	6/23/2020	15:25	0.07
2408	Dibromomethane	EPA 502.2	0.0005	<0.0005	mg/L	06/18/2020	00:25	6/23/2020	15:25	
2410	1,1-Dichloropropene	EPA 502.2	0.0005	<0.0005	mg/L	06/18/2020	00:25	6/23/2020	15:25	
2412	1,3-Dichloropropane	EPA 502.2	0.0005	<0.0005	mg/L	06/18/2020	00;25	6/23/2020	15:25	
2413	1,3-Dichloropropene	EPA 502.2	0.0005	<0.0005	mg/L	06/18/2020	00:25	6/23/2020	15:25	
2414	1,2,3-Trichloropropane	EPA 502.2	0.0005	<0.0005	mg/L	06/18/2020	00:25	6/23/2020	15:25	
2416	2,2-Dichloropropane	EPA 502.2	0.0005	<0.0005	mg/L	06/18/2020	00:25	6/23/2020	15:25	
2418	1,2,4-Trimethylbenzene	EPA 502.2	0.0005	<0.0005	mg/L	06/18/2020	00:25	6/23/2020	15:25	
2420	1,2,3-Trichlorobenzene	EPA 502.2	0.0005	<0.0005	mg/L	06/18/2020	00:25	6/23/2020	15:25	
2422	n-Butylbenzene	EPA 502.2	0.0005	<0.0005	mg/L	06/18/2020	00.25	6/23/2020	15:25	
2424	1,3,5-Trimethylbenzene	EPA 502.2	0.0005	<0.0005	mg/L	06/18/2020	00:25	6/23/2020	15:25	
2426	tert-Butylbenzene	EPA 502.2	0.0005	<0.0005	mg/L	06/18/2020	00:25	6/23/2020	15:25	



ANALYTICAL & CONSULTING CHEMISTS

Environmental Chemists, Inc.

6602 Windmill Way, Wilmington, NC 28405 * 910.392.0223 Lab * 910.392.4424 Fax 710 Bowsertown Road, Manteo, NC 27954 * 252.473.5702 Lab/Fax 255-A Wilmington Highway, Jacksonville, NC 28540 • 910.347.5843 Lab/Fax

info@environmentalchemists.com

Collection Time:

10:15:00 AM

Collection Date:

6/12/2020

Fax Number:

NEW WELL - VOLATILE ORGANIC CHEMICALS (VOCs) ANALYSIS

Name of System: Powell Family LP County:

Sample Type: Location Where Collected:

NC

Sample Point:

Facility ID:

Wendell

Collected by: Kevin Letchworth

Mail Results to (water system representative) Phone Number: 919-266-9223

NW Poole Well and Pump Post Office box 1958 Responsible Person's email

27591

LABORATORY ID #: 37729 SAMPLE UNSATISFACTORY **RESAMPLE REQUIRED** 2428 sec-Butylbenzene EPA 502.2 0.0005 <0.0005 mg/L 06/18/2020 00:25 6/23/2020 15:25 2430 Bromochloromethane 0.0005 **EPA 502.2** <0.0005 06/18/2020 00:25 mg/L 6/23/2020 15:25 2941 Chloroform **EPA 502.2** 0.0005 <0.0005 mg/L 06/18/2020 00:25 6/23/2020 15:25 2942 Bromoform **EPA 502.2** 0.0005 <0.0005 06/18/2020 00:25 mg/L 6/23/2020 15:25 2943 Bromodichloromethane **EPA 502.2** 0.0005 < 0.0005 mg/L 06/18/2020 00:25 6/23/2020 15:25 2944 Chlorodibromomethane **EPA 502.2** 0.0005 <0.0005 mg/L 06/18/2020 00:25 6/23/2020 15:25 2955 Xylenes(total) **EPA 502.2** 0.0005 <0.0005 06/18/2020 00:25 6/23/2020 15:25 10 mg/L 2964 Dichloromethane **EPA 502.2** 0.0005 < 0.0005 mg/L 06/18/2020 00:25 6/23/2020 15:25 0.005 2965 o-Chlorotoluene EPA 502.2 0.0005 < 0.0005 mg/L 06/18/2020 00:25 6/23/2020 15:25 2966 p-Chlorotoluene **EPA 502.2** 0.0005 <0.0005 mg/L 06/18/2020 00:25 6/23/2020 15:25 2967 m-Dichlorobenzene EPA 502.2 0.0005 <0.0005 mg/L 06/18/2020 00:25 6/23/2020 15:25 2968 o-Dichlorobenzene EPA 502.2 0.0005 <0.0005 06/18/2020 00:25 6/23/2020 15:25 0.6 mg/L <0.0005 2969 p-Dichlorobenzene **EPA 502.2** 0.0005 06/18/2020 00:25 6/23/2020 mg/L 15:25 0.075 2976 Vinyl chloride **EPA 502.2** 0.0005 < 0.0005 06/18/2020 6/23/2020 15:25 mg/L 00:25 0,002 2977 1,1-Dichloroethylene EPA 502.2 0.0005 < 0.0005 mg/L 06/18/2020 00:25 6/23/2020 15:25 0.007 2978 1,1-Dichloroethane **EPA 502.2** 0.0005 <0.0005 mg/L 06/18/2020 00:25 6/23/2020 15:25 2979 Trans-1,2-dichloroethylene **EPA 502.2** 0.0005 <0,0005 06/18/2020 6/23/2020 15:25 0.1 mg/L 00:25 2980 1,2-Dichloroethanc EPA 502.2 0.0005 06/18/2020 00:25 6/23/2020 15:25 < 0.0005 mg/L 0.005 2981 1.1.1-Trichloroethane **EPA 502.2** 0.0005 < 0.0005 mg/L 06/18/2020 00:25 6/23/2020 15:25 0.2 2982 Carbon tetrachloride **EPA 502.2** 0.0005 06/18/2020 00:25 6/23/2020 15:25 0.005 < 0.0005 mg/L 2983 1,2-Dichloropropane **EPA 502.2** 0.0005 < 0.0005 06/18/2020 00:25 6/23/2020 15:25 0.005 mg/L 2984 Trichloroethylene **EPA 502.2** 0.0005 <0,0005 06/18/2020 00:25 6/23/2020 15:25 0.005 mg/L 2985 1,1,2-Trichloroethane **EPA 502.2** 0.0005 6/23/2020 0.005 < 0.0005 mg/L 06/18/2020 00:25 15:25



Environmental Chemists, The.

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info@environmentalchemists.com

NEW WELL - VOLATILE ORGANIC CHEMICALS (VOCs) ANALYSIS

Name of System: Powell Family LP

County:

Sample Type:

Location Where Collected:

Facility ID:

Sample Point:

Collection Date:

Collection Time:

Collected by: Kevin Letchworth

6/12/2020

10:15:00 AM

Mail Results to (water system representative)

Phone Number: 919-266-9223

NW Poole Well and Pump

Post Office box 1958 Wendell

27591

Responsible Person's email:

Fax Number:

VV 6	enden NC	2/391							
	LABORATORY ID #: 37729		SAMPLE U	NSATISFACTORY	🗐 RESA	MPLE REQU	UIRED		
2986	1,1,1,2-Tetrachloroethane	EPA 502.2	0.0005	<0.0005 mg/L	06/18/2020	00:25	6/23/2020	15:25	
2987	Tetrachloroethylene	EPA 502.2	0.0005	<0.0005 mg/L	06/18/2020	00:25	6/23/2020	15:25	0.005
2988	1,1,2,2-Tetrachloroethane	EPA 502.2	0.0005	<0.0005 mg/L	06/18/2020	00.25	6/23/2020	15:25	
2989	Chlorobenzene	EPA 502.2	0.0005	<0.0005 mg/L	06/18/2020	00:25	6/23/2020	15:25	0.1
2 99 0	Benzene	EPA 502.2	0.0005	<0.0005 mg/L	06/18/2020	00:25	6/23/2020	15:25	0.005
2991	Toluene	EPA 502.2	0.0005	<0.0005 mg/L	06/18/2020	00:25	6/23/2020	15:25	i
2992	Ethylbenzene	EPA 502.2	0.0005	<0.0005 mg/L	06/18/2020	00:25	6/23/2020	15:25	0.7
2993	Bromobenzene	EPA 502.2	0.0005	<0.0005 mg/L	06/18/2020	00:25	6/23/2020	15:25	
2994	lsopropylbenzene	EPA 502.2	0.0005	<0.0005 mg/L	06/18/2020	00:25	6/23/2020	15:25	
2996	Styrene	EPA 502.2	0.0005	<0.0005 mg/L	06/18/2020	00:25	6/23/2020	15:25	0.1
2998	n-Propylbenzene	EPA 502.2	0.0005	<0.0005 mg/L	06/18/2020	00:25	6/23/2020	15:25	

Note: If result exceeds allowable limit, the laboratory must fax analytical results to the within 48 hours.

Comment:

Reviewed by:

LABORATORY LOG 20-24439

REPORT #:

2020-09776



Environmental Chemists, The.

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info@environmentalchemists.com

NEW WELL - PESTICIDES AND SYNTHETIC ORGANIC CHEMICALS (SOC) ANALYSIS

Name of System:

Powell Family LP

County:

Phone Number: 919-266-9223

Sample Type:

Location Where Collected:

Facility ID:

Sample Point:

Collection Date:

Collection Time:

.....

Collected by: Kevin Letchworth

6/12/2020

10:15:00 AM

Mail Results to (water system representative)

NW Poole Well and Pump

Post Office box 1958

Wendell

NC

27591

Fax Number: Responsible Person's email:

Attn:

LAI	BORATORY ID #: 37729	E	SAMPLE UNS	ATISFACTOR'	Y	RESAMI				
CONTAM CODE	CONTAMINANT	METHOD CODE	REQUIRED REPORTING LIMIT.	OUANTIF RESULT		ANALYS BEGUN	_	ANALYSES COMPLETED		OWABLE IMITS
2005 E	Endrin	EPA 508.1	0.00001	< 0.00001	mg/L	06/18/2020	08:00	6/30/2020	7:56	0.002
2010 <u>I</u>	Lindane	EPA 508.1	0.00002	< 0.00002	mg/L	06/18/2020	08:00	6/30/2020	7:56	0.0002
2015	Methoxychlor	EPA 508.1	0.0001	< 0.0001	mg/L	06/18/2020	08:00	6/30/2020	7:56	0.04
2020 1	l'oxaphene	EPA 508.1	0.001	< 0.001	mg/L	06/18/2020	08:00	6/30/2020	7:56	0.003
2031 [Dalapon	EPA 515.4	0.001	<0.001	mg/L	06/18/2020	14:00	7/2/2020	16:35	0.2
2035 [Di(2-ethylhexyl)adipate	EPA 525.2	0.0006	<0.0006	mg/L	06/16/2020	08:00	6/19/2020	9:53	0.4
2036 (Oxamyl(vydate)	EPA 531.1	0.002	< 0.002	mg/L	06/25/2020	11:07	7/2/2020	16:33	0.2
2037	Simazine	EPA 525.2	0.00007	< 0.00007	mg/L	06/16/2020	08:00	6/19/2020	9:53	0.004
2039 [Di(2-ethylhexyl)phthalate	EPA 525.2	0.00132	<0.00132	mg/L	06/16/2020	08:00	6/19/2020	9:53	0.006
2040 I	Picloram	EPA 515.4	0.0001	< 0.0001	mg/L	06/18/2020	14:00	7/2/2020	16:35	0.5
2041 [Dinoseb	EPA 515.4	0.0002	< 0.0002	mg/L	06/18/2020	14:00	7/2/2020	16:35	0.007
2042	Hexachlorocyclopentadiene	EPA 525.2	0.0001	<0.0001	mg/L	06/16/2020	08:00	6/19/2020	9:53	0.05
2046 (Carbofuran	EPA 531.1	0.0009	< 0.0009	mg/L	06/25/2020	11:07	7/2/2020	16:33	0.04
2050	Atrazine	EPA 508.1	0.0001	<0.0001	mg/L	06/18/2020	08:00	6/30/2020	7:56	0.003
2051	Alachlor	EPA 508.1	0.0002	< 0.0002	mg/L	06/18/2020	08:00	6/30/2020	7:56	0.002
2065	Heptachlor	EPA 525.2	0.00004	<0.00004	mg/L	06/16/2020	08:00	6/19/2020	9:53	0.0004
2067 I	Heptachlor epoxide	EPA 508.1	0.00002	< 0.00002	mg/L	06/18/2020	08:00	6/30/2020	7:56	0.0002



Environmental Chemists, This.

6602 Windmill Way, Wilmington, NC 28405 • 910.392.0223 Lab • 910.392.4424 Fax 710 Bowsertown Road, Manteo, NC 27954 • 252.473.5702 Lab/Fax 255-A Wilmington Highway, Jacksonville, NC 28540 • 910.347.5843 Lab/Fax

info@environmentalchemists.com

NEW WELL - PESTICIDES AND SYNTHETIC ORGANIC CHEMICALS (SOC) ANALYSIS

Name of System:

Powell Family LP

County:

Sample Type:

Location Where Collected:

Facility ID:

Sample Point:

Collection Date:

Collection Time:

6/12/2020

10:15:00 AM

Collected by: Kevin Letchworth

Phone Number: 919-266-9223

Responsible Person's email:

Fax Number:

Mail Results to (water system representative)

NW Poole Well and Pump Post Office box 1958

Wendell

NC

27591

Attn:

	LABORATORY ID #: 37729	III S	AMPLE UNS	ATISFACTOR	Y	RESAM	PLE REQU	IRED		
2105	2,4-D	EPA 515.4	1000,0	< 0.0001	mg/L	06/18/2020	14:00	7/2/2020	16:35	0.07
2110	2,4,5-TP (Silvex)	EPA 515.4	0.0002	< 0.0002	mg/L	06/18/2020	14:00	7/2/2020	16:35	0.05
2274	Hexachlorobenzene	EPA 525.2	0,0001	<0.0001	mg/L	06/16/2020	08:00	6/19/2020	9:53	0.001
2306	Benzo(a)pyrene	EPA 525.2	0.00002	<0.00002	mg/L	06/16/2020	08:00	6/19/2020	9:53	0.0002
2326	Pentachlorophenol	EPA 515.4	0.00004	< 0.00004	mg/L	06/18/2020	14:00	7/2/2020	16:35	0.001
2383	(PCB) Total Polychlorinated Biphen	EPA 508.1	0.0001	< 0.0001	mg/L	06/18/2020	08:00	6/30/2020	7:56	0.0005
2931	1,2-Dibromo-3-chloropropane (DB	EPA 504.1	0.00002	<0.00002	mg/L	06/15/2020	08:30	6/19/2020	9:55	0.0002
2946	Ethylene Dibromide (EDB)	EPA 504.1	0.00001	<0.00001	mg/L	06/15/2020	08:30	6/19/2020	9:55	0.00005
2959	Chlordane	EPA 508.1	0.0002	< 0.0002	mg/L	06/18/2020	08:00	6/30/2020	7:56	0.002

Note: If result exceeds allowable limit, the laboratory must fax enstytical results to the within 48 hours.

Comment:

Reviewed by:



Environmental Chemists, Inc.

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info@environmentalchemists.com

ANALYTICAL & CONSULTING CHEMISTS

NW Poole Well and Pump

Post Office box 1958

Wendell

NO

27591

Attention:

Date of Report: Jul 06, 2020

Customer PO #:

Report #:

2020-09776

Report to:

Project ID: Powell Family LP

TTHM - HAA5 FORMATION POTENTIAL

Lab ID	Sample ID:		Collect [ate/Time	Matrix	Sample	ed by
20-24439	Site: New Well		6/12/2020	10:15 AM	DW	Kevin L	etchworth
Test		Method	i		Result	ts	Date Analyzed
Bromodichle	oromethane	EPA 524.2			<0.00	01 mg/L	06/23/2020
Bromoform		EPA 524.2			<0.00	01 mg/L	06/23/2020
Chloroform		EPA 524.2			0.00	02 mg/L	06/23/2020
Dibromochl	oromethane	EPA 524.2			<0.00	01 mg/L	06/23/2020
TTHMFP		EPA 524.2			0.00	02 mg/L	06/23/2020
Dibromoace	etic Acid	EPA 552.2			<0.00	01 mg/L	06/24/2020
Dichloroace	etic Acid	EPA 552 2			<0.00	01 mg/L	06/24/2020
Monobromo	pacetic Acid (MBAA)	EPA 552.2			<0.00	01 mg/L	06/24/2020
Monochloro	acetic Acid	EPA 552.2			<0.00	02 m g/L	06/24/2020
THAFP		EPA 552.2			<0.00	02 mg/L	06/24/2020
Trichloroace	etic Acid	EPA 552.2			<0.00	01 mg/L	06/24/2020
4 Hour Dem <0.1 m		SM 5710 B				*	06/15/2020
7 Day Chlorine Residual 1.97 mg/L from 5 mg/Ldose.		SM 5710 B				*	06/15/2020

Comment:

Reviewed by:

Janny Duran

Report #:: 2020-09776



Environmental Chemists, This.

6602 Windmill Way, Wilmington, NC 28405 • 910.392.0223 Lab • 910.392.4424 Fax 710 Bowsertown Road, Manteo, NC 27954 • 252.473.5702 Lab/Fax 255-A Wilmington Highway, Jacksonville, NC 28540 • 910.347.5843 Lab/Fax

info@environmentalchemists.com

BACTERIOLOGICAL ANALYSIS

Note: ALL applicable information must be supplied for compliance credit

Water Sys	stem ID #:	Powell Far	mily LP	County:						
				System T	ype:	Wate	r Source:			
	ntion - Total Coliform deType:	Rule (TCR	L)		CC 200 C - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	へいとシャーエンス 新子 新り	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	~~ <u>*</u> ~ • • • • • • • • • • • • • • • • • •		
	ity ID: le Point:		Location Code: Location:	New Well						
Collected	by: Kevin Letchworth	Pi-Pi-Pi-Pi-Pi-Pi-Pi-Pi-Pi-Pi-Pi-Pi-Pi-P	DATE: <u>6/</u>	DATE: 6/12/2020 TIME: 10:15:00 AM						
M	ail Results to (water syste	m representa	tive):	Complete for Repeat,	Triggered, or Ad	ditional / C	onfirmation Samp	enteretelestelestelestelestelestelestelest		
Post Off Wendel	ole Well and Pump fice box 1958 I NC one Number: <u>919-266-92</u>	27591 23		* Positive Loca	ratory Log Numi	ber:				
Fax	Number:			Disinfectant Us	ed:	00.000.000.000.0000.0000.000€.00€	u ny ganganggi ang magahanang magahangga ni jeng			
Responsil	ble Person's Name	Customer N 14070007	<u>umber</u>	Total Chlori Free Chlorir			mg/L mg/L			
LAB	ORATORY ID #: 37729		Repeat Sampl	es Required from Client	Resample	esample Required from Client				
CONTAM CODE	CONTAMINANT	METHOD CODE		ANTIFIED SULTS	ANALYSES BEGUN	L	ANALYSES COMPLETED			
3100	Total Coliform	SM 9223B	Absent		06/12/2020	16:00	6/13/2020	10:45		
3014	E. Coli	SM 9223B	Absent		06/12/2020	16:00	6/13/2020	10:45		
Comment: Reviewed	d by: <u>Jamn</u>	y Di	lan			- The Proposed Market Action and Assessment				

Laboratory Log Number: 20-24439

REPORT #:

2020-09776



Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS info@environmentalchemists.com

NW Poole Well and Pump

Post Office box 1958

Wendell

NC 27591

Attention:

Date of Report: Jul 06, 2020

Customer PO#:

Customer ID: 14070007

Report #:

2020-09776

Project ID: Powell Family LP

Lab ID

Sample ID:

Collect Date/Time

Matrix

Sampled by

20-24439

Site: New Well

6/12/2020

10:15 AM DW

Kevin Letchworth

Test

Method

Results

Date Analyzed

Uranium

EPA 200.8

<0.67 pCi/L

06/16/2020

Comment:

Reviewed by:

dimmy



Laboratory Log #:

COMMENTS: 20 - 09776

Florida Radiochemistry Services, Inc. 5456 Hoffner Ave., Suite 201 Orlando, FL 32812 Phone: (407) 382-7733 Fax: (407-382-7744

RADIOLOGICAL ANALYSIS

	Sample Type: [] Dist	ribution	(X) Entry	Point (] Composite	Special	/Non-compliance
Mail Results I	lo (system representative);	Salari Cara	August 1	C	offection Date		Section 1
ENUIRO (othew.	Period	Date (MACCOTT)	Time (Apperty Autor PART	FACILITY /SAMPLE Code	Sample	Collected
e602 W	GOS MINDWILL MAY		6/12/20	10.15	NIA	NA	LEICHNOS
AHL MINI	GTDN UC 28405	2nd Otr		10.73	NIA	NI A	
		() See on the 100	111,646,643,667	U 34.6 1 1.11 (1.842)	STATE AND STATES	General Annual Parkalinggere	
	.392.0223	3rd Otr					
Phone 910	.39⊋. 088.3 RATORY ID #: 12709	3rd Qtr 4th Qtr	a i de Yestania a 190 mila .	a ita	TISFACTORY	il de la companya de	ST (Stopetick Selection), select
Phone 910			REQUIRE	IPLE UNSA	NOT DETECTED	DQUANTIFIEDUN	m ALLOWABLE
Phone 910 Fax LABO CONTAM	RATORY ID #: 12709	4th Qtr	REQUIRE	D REPORTING	NOT DETECTED	D QUANTIFIEDUN	ITI ALLOWABLE
Phone 910 Fax LABO CONTAM CODE	RATORY ID #: 12709	4th Qtr	REQUIRE LIM	D REPORTING IT (RRL)	NOT DETECTED	DQUANTIFIEDUN	ITI ALLOWABLE
LABO CONTAM CODE	RATORY ID #: 12709 CONTAMINANT Gross Alpha	Ath Qtr METHCD CODE 435	REQUIREI LIM 3	D REPORTING IT (RRL) pCVL	NOT DETECTED	D QUANTIFIEDUN	ALLOWABLE TO LIMIT 15 PCVL
LABO CONTAM CODE 4000	CONTAMINANT Contaminant Gross Alpha Radon	Ath Qtr METHCD CODE 435	REQUIREI LIM 3	D REPORTING IT (RRL) pC/L 0 pC/L	NOT DETECTED	D QUANTIFIEDUN	TTI ALLOWABLE TO LIMIT B 15 pc//L N/A 20,1 pc//L
Phone 910 Fax LABO CONTAM CODE 4000 4004 4008	CONTAMINANT Gross Alpha Radon Urankum	METHCO CODE 435	REQUIRE LIM 3 10	D REPORTING IT (RRL) PCVL 10 PCVL	NOT DETECTED (I.e. < RRL)	D QUANTIFIED UN SULTS* (pC PR	ALLOWABLE LIMIT B 15 pCVL N/A 20.1 pC/L 5 pC/L
Phone 910 Fax LABO CONTAM CODE 4000 4004 4008	CONTAMINANT Gross Alpha Radon Uranium Combined Radium	METHCD CODE 435 — 456 NVA	REQUIRES LIM 3 10	D REPORTING IT (RRL) pcvl 0 pcvl 1 pcvl	NOT DETECTED (I.e. < RRL)	D QUANTIFIEDUN ESULTS* (pC RF	10 LIMIT 8 15 PCVL N/A 20,1 PCVL 5 PCVL 2 3 PCVL



EMSL Analytical, Inc.

2500 Gateway Centre Blvd., Suite 600 Morrisville, NC 27560 Phone/Fax: (919) 465-3900 / (919) 465-3950 http://www.EMSL.com / raleighlab@emsl.com

EMSL Order ID: Customer ID: Customer PO:

292006974 ENCH66

Project ID:

Jay Baker

Environmental Chemists 6602 Windmill Way Wilmington, NC 28405

Phone: Fax:

(910) 392-0223 (910) 392-4424

Received: Analyzed:

07/07/2020 07/20/2020

Proj: 20-09776/24439, N.W. Poole - Powell

Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

	Sample Filtration Date/Time					A	SBESTOS		
Sample ID Client / EMSL		Original Sample Vol. Filtered	Effective Filter Area	Area Analyzed	Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
		(ml)	(mm²)	(mm²)			MFI	L (million fibers per	liter)
N.W. Poole - Powell 292006974-0001	7/7/2020 02:15 PM	50	1263	0.1300	None Detected	ND	0:19	<0.19	0.00 - 0.72
Collection Date/Time:	06/12/2020 10:1	15 AM							

Anal	ysi(s)	
Billy	Barnes	(1)

Billy Barnes, Asbestos Lab Manager or Other Approved Signatory

Any questions please contact Billy Barnes.

Initial report from: 07/20/2020 16:27:32

Semple collection and containers provided by the client, acceptable bottle blank level is defined as \$0.01MFL>10um, ND=None Detected. This report may not be reproduced, except in full without written permission by EMSL Analytical, Inc. The test results contained within this report meet the requirements of NELAC unless otherwise noted. This report relates only to the samples reported above, Samples received in good condition unless atherwise noted.

Samples analyzed by EMSL Analytical, inc. Mornaville, NC



ENVIRONMENTAL CHEMISTS, INC

NCDENR: DWQ CERTIFICATION # 94 NCDHHs: DLS CERTIFICATION # 37729

6602 Windmill Way Wilmington, NC 28405 OFFICE: 910-392-0223 FAX 910-392-4424 info@environmentalchemists.com

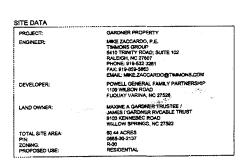
COLLECTION AND CHAIN OF CUSTODY

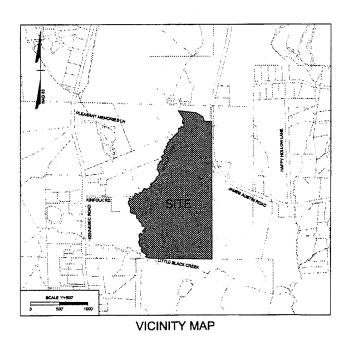
				00		TAIL	CITA	11 01 00	0.1	,,,									
Client: NW Poole				PRO	JECT NA	ME:	POW	ell.	R	M	14	//	4	RE	POR	IT NO: Z	0-09	776	
ADDRESS:				CON	TACT NA	ME: K	evin L	etchworth	1		K			PO	NO:	•			
V				REPO	ORT TO:		7.0°							РН	ONE	/FAX:			
				COP	Y TO:									em	ail:				
Sampled By:					SAMP	LE TYP	E: = r	nfluent, E =	= Effi	lueni	t, W :	= We	ıll, S	T = \$	Strea	m, SO = Sc	ii, SL = Si	udge, Oth	er:
		Collection	ņ	\$	2	ية ق	l e	0 8		PI	RES	ERV	ATIO	NC					
Sample Identification	Date	Time	Temp	Sample Type	Composite or Grab	Container (P or G)	Chlorine mg/L	LAB ID NUMBER	NONE	Ę	H2504	HINO3	MAOH	얦	ОТИЕЯ		ANALYSIS	REQUESTE	D
	6-12-20	0 10:15			С	Р		24439											
New Well	<u> </u>				G	G	ļ	0171	X	X	X	Х	X	X	X	voc,soc	,New We	II IOC	
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			İ		G	G			x					х		Total Coli	form, THN	<i>N</i> HAAFP	
					С	Р				_									***************************************
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2							***												
Temperature when Recei	Acc	epted:			_Reje	cted:					Res	amp	le R	equested:	\	11.00			
Delivered By:		R	eceived E	Зу:	1	00						Date (0-12-20) Time: 1430							
Comments:	mments:								· /						TURNAROUND:				

GARDNER PROPERTY

CONSTRUCTION DRAWINGS

PIN: 0685-30-2137 7508 JAMES AUSTIN RD, WILLOW SPRINGS, WAKE COUNTY, NORTH CAROLINA





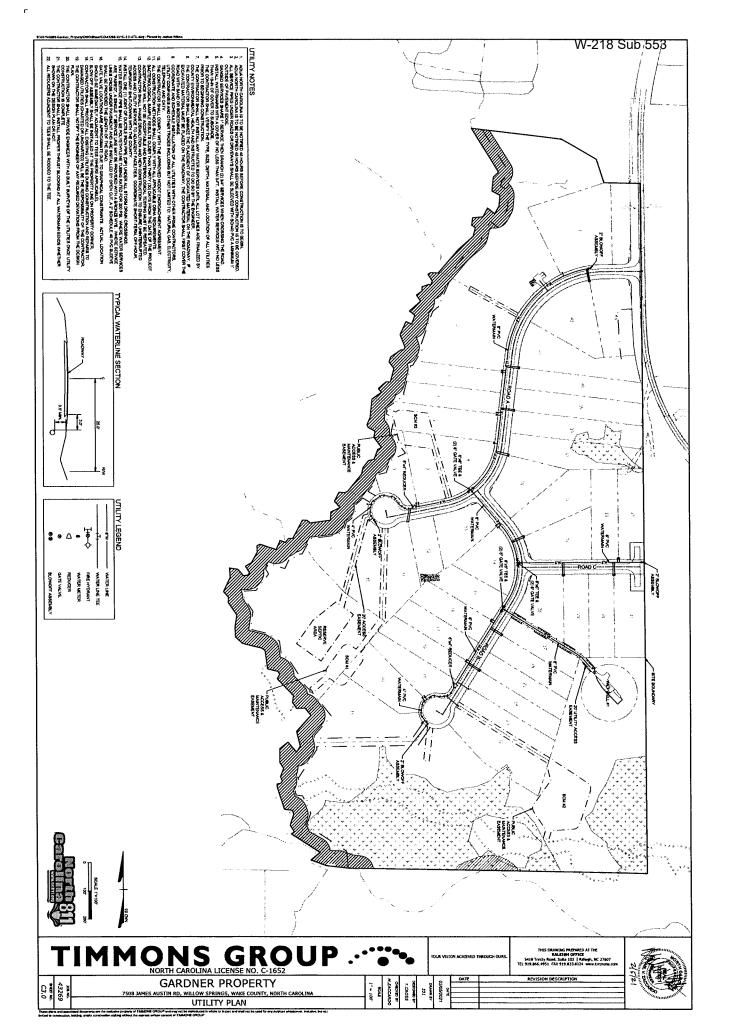
	Sheet List Table
Sheet Number	Sheet Title
C0.0	COVER SHEET
C1.0	EXTERNIC CONDITIONS & DEMOLITION PLAN
CIA	SUBDIVISION LAYOUT PLAN
CNO	UTILITY PLAN
C410	GRADING & DRAMAGE PLAN
Ca I	EROSION & SEDIMENTATION CONTROL PLAN PHISE
C5.2	EROSION & SEDMENTATION CONTROL PLAN PHASE:
CALT	ROAD A PLAN & PROFILE 1 OF 2
00.1	ROAD A PLAN & PROPILE 2 OF 2
CEJ	ROAD II PLAN & PROFILE
C9.4	ROAD C PLAN & PROFILE
C7.1	SCM 1 DETAIL
C7.3	SCM 2 DETAIL
'C4.1	NOTES AND DETAILS 1 OF 3
CAZ	NOTES AND DETAILS 2 OF 3
CAS	NOTES AND DETAILS 3 OF 3

SEC-040184-2020 SWF-040186-2020



EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT EROSION CONTROL E SEC- # 01 N-STORMWATER MGMT. SWF-OFFIR -20 FLOOD STUDY S-_-/~

43269



1. Company Name:	ANC	
2. Type of Application:	NF	
3. Name of Service Area:	Gardner Farms	
4. Number of Lots:	43	Cost of Mains \$ 92,450.00 Estimated: \$2150/lot Cost of Services \$ 64,500.00 Estimated: \$1500/lot
5. Number of Customers/year:	Yr 1 @ 30% 13 Yr 2 @ 20% 9 Yr 3 @ 20% 9 Yr 4 @ 15 % 6 Yr 5 @ 15% 6	Cost of Sewer Mains \$ 0.00 Estimated: 2,500/lot Cost of Pump Station \$ 0.00 Estimated: 100,000 per PS Cost of Pump Station Lot \$ 0.00 Estimated: 500 per PS Lot Cost of WWTP Facility \$ 0.00 Cost of WWTP Lot \$ 0.00
6. Number of Wells:	1	Cost of Well Drilling \$ 25,000.00 Estimated: 45,000/well Cost of Well House \$ 45,000.00 Estimated: 40,000/well Cost of Treatment \$ 75,000.00 Estimated: 70,000/well Cost of Well Lot \$ 500.00 Estimated: 500/well site Cost of Testing \$ 9,000.00 Estimated: 9,000/well
7. Size of Storage Tank:	12,000 gallons	Cost of Storage \$ \frac{3,000.00}{48,000.00} \text{Estimated: \$,000/well} \text{Cost of Storage \$ \frac{48,000.00}{48,000.00} \text{Estimated: \$35,000 (5,400 gals) \$45,000 (10,000 gals)} \text{Engineering Cost - Water \$ \frac{20,000.00}{20,000.00} \text{Engineering Cost - Sewer \$ \frac{379,450.00}{20,000.00} \text{Engineering Cost of System \$ \frac{379,450.00}{20.000.00} \text{Engineering Cost of System \$ \frac{379,450.00}{20.000.000} \text{Engineering Cost of System \$ \frac{379,450.00}{20.000} Engineering Cos
Purchase Price/Lot - Water Purchase Price/Lot - Sewer		Purchase Price/Lot - Water \$ 75,250.00 Purchase Price/Lot - Sewer \$ 0.00
9. Bond Amount: \$	10,000.00	CIAC \$ 304,200.00
10. Other Needed Information:		
		·····

Mains @ \$2,150/lot Services @ \$1500/lot Well Drilling @ \$40,000/well Well House @ \$45,000/well Well Lot Valve @ \$500/lot

Well Testing @ \$9,000/well Storage @ \$35,000 @ 5k \$45,000 @ 10k Engineering @ \$20,000/system

Exhibit 11 (New Franchise)

Page 1 of 2

Estimated Plant Cost for Gardner Farms

Plant Item	Water	<u>Wastewater</u>
1. Mains	92,450.00	0.00
2. Services	64,500.00	N/A
3. Well Drilling	25,000.00	N/A
4. Well House	50,000.00	N/A
5. Well Lot	500.00	N/A
6. Testing	9,000.00	N/A
7. Storage	40,000.00	N/A
8. Treatment	75,000.00	
9. Pump Station	N/A	0.00
10. Pump Station Lot	N/A	0.00
11. Engineering	20,000.00	0.00
12. WWTP Facility	N/A	0.00
13. WWTP Lot	N/A	0.00
14. TOTAL	376,450.00_	0.00
15. Less Purchase Price	75,250.00_	0.00
Total Contribution	301,200.00	0.00
(\$70 x 13 lots in year one)	910.00_	0.00
	302,110.00	0.00

Developer's contribution is line 11 above less purchase price

NOTE:	<u>Water</u>	<u>Sewer</u>
Total Contribution	301,200.00	0.00
Lots In Yr. 1	910.00	0.00
Purchase Price Yr. 1	22,750.00	
Line 16 CFS	324,860.00	0.00

Exhibit 11 Detail of Estimated Costs

Water

Distribution mains are estimated at \$2150/lot; however, the subdivision layout, lot sizes, and main material will vary this estimate.

Services to each lot from the main, including the meter boxes, are estimated to be \$1500/lot.

Well drilling, including grouting, is estimated to be \$40,000/well; however, the depth of the well, videoing, and any well renovations will vary this amount.

Well houses, including pump, drop pipe, wiring, plumbing, and chemical equipment is estimated at \$45,000 each; however, depth of well, pump size, drop pipe shoe, and type of treatment may vary this amount.

Well lots are estimated to be valued at \$500.

Testing, including the 24-hour drawdown and required water quality testing, is estimated to be \$9,000/well.

A 5,400 gallon hydro tank is estimated at \$35,000; a 10,000 gallon hydro tank at \$45,000; this includes delivery, crane rental, pedestals, and set up.

Engineering for the water system is estimated at \$20,000; however, based on size of subdivision; this will vary.

Total water lots 7 Total wells -		Total wa	ater lots	7	Total	wells	-
----------------------------------	--	----------	-----------	---	-------	-------	---

Wastewater

Collection mains are estimated at \$2,500/lot; however, the subdivision layout, lot sizes, and main materials will vary this amount.

Pump stations are estimated at \$100,000 each; however, depth, size of pump, and other items will vary this amount.

Pump station lot is estimated at \$500.

Engineering is estimated at \$20,000; however, based on subdivision size, this will vary.

Total	pump	station	lots -	N/A

Gardner Farms - Aqua North Carolina, Inc. (ANC Water - Cary Region) ADDENDUM TO APPLICATION FOR CERTIFCATE OF PUBLIC CONVENIENCE & NECESSITY AND FOR APPROVAL OF RATES

Projected Income Statement

Line No.	<u>ltem</u>	<u>Year 1</u>	Year 2	Year 3	Year 4	Year 5
	Operating Revenue					
1	Metered service revenue	\$7,839	\$13,266	\$18,090	\$22,311	\$25,929
2	Flat rate service revenue	\$0	\$0	\$0	\$0	\$0
3	EPA testing surcharge	\$0	\$0	\$0	\$0	\$0
4	Re-connect fees	\$0	\$0	\$0	\$0	\$0
5	Return check charge	\$0	\$0	\$0	\$0	\$0
6	Late payment charges	\$13	\$23	\$31	\$38	\$45
7	Other operating revenue	\$118	\$199	\$271	\$335	\$389
8	Total operating revenue (Sum of Line 1 thru Line 7)	\$7,970	\$13,488	\$18,392	\$22,684	\$26,362
	Operating Expenses					
9	Total salaries and wages (employees only)	\$1,430	\$2,419	\$3,299	\$4,069	\$4,728
10	Outside labor expense (non-employees)	\$521	\$882	\$1,203	\$1,484	\$1,724
11	Administrative and office expense	\$43	\$72	\$98_	\$121	\$141
12	Maintenance and repair expense	\$77	\$130	\$178	\$219	\$255
13	Purchased Water	\$0_	\$0	\$0_	\$0	\$0
14	Purchased sewage treatment	\$0	\$0	\$0	\$0	\$0
15	Electric power expense (exclude office)	\$482	\$815	\$1,112	\$1,371	\$1,594
16	Chemicals expense	\$94	\$159	\$216	\$267	\$310
17	Testing fees	\$139	\$235	\$320	\$394	\$458
18	Transportation expense	\$180	\$305	\$415	\$512	\$595
19	Other operating expenses	\$761	\$1,288	\$1,756	\$2,166	\$2,517
20	Total operation and maintenance expenses (Sum of Lines 9 thru 19)	\$3,725	\$6,304	\$8,597	\$10,603	\$12,322
21	Annual depreciation expense	\$1,118	\$983	\$1,041	\$1,083	\$1,109
22	Property taxes paid on utility property	\$109	\$184	\$251	\$309	\$359
23	Payroll taxes	\$100	\$170	\$232	\$286	\$332
24	Franchise (gross receipts) tax	\$0	\$0	\$0	\$0	\$0
25	Annual NCUC regulatory fee	\$11	\$19	\$26	\$32	\$37
26	Total operating expenses (Sum of Line 20 thru Line 25)	\$5,064	\$7,660	\$10,146	\$12,313	\$14,160
	Income taxes				0050	0005
27	State income taxes	\$73	\$146	\$206	\$259	\$305
28	Federal income taxes	\$595	\$1,193	\$1,688	\$2,124	\$2,498
29	Total income taxes (Line 27 + Line 28)	\$668	\$1,339	\$1,894	\$2,383	\$2,803
30	Net operating income (loss) (Line 8 - Line 26 - Line 29)	\$2,238	\$4,489	\$6,352	\$7,988	\$9,399
31	Interest expense	<u>\$0</u>	\$0	\$0	\$0_	\$0
32	Net income (loss) (Line 30 - Line 31)	\$2,238	\$4,489	\$6,352	\$7,988	\$9,399

All amounts are estimated. Certain average cost per customer information was derived from Aqua North Carolina Inc.'s last rate case (Docket No. W-218, Sub 526, final order dated 10/26/20.

For purposes of this projection no allowances have been made for inflation.

Number of customers (row 52) 13 22 30 37 43 30% 20% 20% 15% 15%

Gardner Farms - Aqua North Carolina, Inc. (ANC Water - Cary Region) ADDENDUM TO APPLICATION FOR CERTIFCATE OF PUBLIC CONVENIENCE & NECESSITY AND FOR APPROVAL OF RATES

Statement of Cash Flows

Line						
No.		Year 1	Year 2	Year 3	Year 4	Year 5
	Cash Flows From Operating Activities					
1	Pre-tax operating income (loss) :					
2	Total operating revenue	\$7,970	\$13,488	\$18,392	\$22,684	\$26,362
3	Less : Operation and maintenance expenses	\$3,725	\$6,304	\$8,597	\$10,603	\$12,322
4	Less: Taxes other than income	\$220	\$373	\$508	\$627	\$728
5	Pre-tax operating income (loss)	\$4,024	\$6,811	\$9,287	\$11,454	\$13,311
6	Income tax calculation :					
7	Pre-tax operating income (loss)	\$4,024	\$6,811	\$9,287	\$11,454	\$13,311
8	Plus : Contribution in aid of construction (Meter fees, Tap fees)	\$910	\$630	\$560	\$490	\$420
9	Less: Tax depreciation	\$946	\$1,602	\$2,184	\$2,694	\$3,130
10	Less : Interest expense	\$0	\$0	\$0	\$0	\$0
11	Taxable income (loss)	\$3,988	\$5,839	\$7,663	\$9,251	\$10,601
12	State income tax	\$100	\$146	\$192	\$231	\$265
13	Federal income tax	\$816	\$1,196	\$1,569	\$1,894	\$2,171
14	Total income taxes to be paid	\$916	\$1,342	\$1,761	\$2,125	\$2,436
1-7	Total income taxes to be paid	ΨΟΙΟ	<u>Ψ1,042</u>	41,701	ΨΖ, 1ΖΟ	\$2,430
15	Net cash provided by (used in) operating activities	\$3,108	\$5,469	\$7,526	\$9,329	\$10,875
4.0	Cash Flows From Investing Activities	2004.000	040.000	044.500	040 740	242.000
16	Purchases of utility plant	<u>\$324,860</u>	\$16,380	\$14,560	\$12,740	\$10,920
17	Plus : Cash bonds posted	\$0	\$0	\$0	\$0	\$0
18	Less : Contributions in aid of construction	\$302,110	\$630	\$560	\$490	\$420
19	Less: Proceeds from disposal of utility plant	\$0	\$0	\$0	\$0	\$0
20	Net cash used (provided) by investing activities	\$22,750	\$15,750	\$14,000	\$12,250	\$10,500
	Cash Flows From Financing Activities					
21	Proceeds from issuing short term debt	\$0	\$0	\$0	\$0	\$0
22	Less : Principal repayment of short term debt	\$0	\$0	\$0	\$0	\$0
23	Plus : Proceeds from issuing long term debt	\$0	\$0	\$0	\$0	\$0
24	Less : Principal repayment of long term debt	\$0	\$0	\$0	\$0	\$0
25	Less : Interest payment for short and long term debt	\$0	\$0	\$0	\$0	\$0
26	Plus : Proceeds from issuing stock	\$0	\$0	\$0	\$0	\$0
27	Less : Dividends paid	\$0	\$0	\$0	\$0	\$0
28	Plus : Funds provided by company	\$22,750	\$0	\$0	\$0	\$0
29	Net cash provided (used) by financing activities	\$22,750	\$0	\$0_	<u>\$0</u>	\$0
30	Net increase (decrease) in cash	\$3,108	(\$10,281)	(\$6,474)	(\$2,921)	\$375
31	Cash balance at beginning of year	\$0	\$3,108	(\$7,173)	(\$13,647)	(\$16,568)
32	Cash balance at end of year	\$3,108	(\$7,173)	(\$13,647)	(\$16,568)	(\$16,193)

Gardner Farms - Aqua North Carolina, Inc. (ANC Water - Cary Region)
ADDENDUM TO NOTIFICATION OF INTENTION TO BEGIN OPERATIONS IN AREA CONTIGUOUS TO PRESENT SERVICE AREA

Summary of Assumptions

- 1) Most calculations are based on an average cost per customer for Aqua North Carolina, Inc. North Carolina Water per the audited expenses and REU's in the NCUC Final Order dated 10/26/20 for the 3/31/20 test year. These are the amounts being used when referring to the average cost per customer in the following assumptions.
- 2) All line items with \$0 amounts were not applicable for this franchise.
- 3) We expect this system to build out at 43 customers. The average number of customers used for years 1-5 are expected to be 13, 22, 30, 37 and 43 respectively.
- 4) For the Projected Income Statement the following line items are based upon the average cost per customer multiplied by the number of customers projected for this extension each year: Lines 1, 4-7, 9-12, 15-16, 18-19 and 22-23.
- 5) I/S Line 17 Testing fees are made up of two components. Using tests that are related to a system we calculated an average annual cost per system. Using tests that are related to the number of entry points we calculated an average annual cost per entry point for a one well system. We added these two amounts together to come up with an annual cost per system for a one well system.
- 6) I/S Line 21- In order to calculate annual depreciation expense we used our initial cost investment and any other plant items paid for by Aqua North Carolina. For purposes of this projection we used a composite depreciation rate. However, when the extension is recorded in the asset accounts Heater will use account specific depreciation rates. For the allocated amount of depreciation expense we calculated the average cost per customer using the general plant allocations and the REU's per 10/26/20 rate case.
- 7) I/S Line 24 The franchise tax calculation is based on the same formula used in rate proceedings at the 0%.
- 8) I/S Line 25 The annual NCUC regulatory fee is a calculation based on the same formula used in rate proceedings at the .135%. The rate has since changed to .13% effective 7/1/19 and .14% effective 7/1/22.

- 9) I/S Line 27, C/F Line 12 The state income taxes are a formula based on the income tax rates for 2014 which is 5.0%. The state tax rate has since changed to 4.0%. The state tax rate has changed to 3% effective 1/1/17. Effective 1/1/19, state tax is 2.5%.
- 10) I/S Line 28, C/F Line 13 The federal income taxes are a formula based on the 35% federal income tax rate. Federal income tax rate changed to 21% effective 1/1/18.
- 11) C/F Lines 8, Line 19 CIAC is per the agreement between Aqua North Carolina, Inc. and the developer. Meter fees / tap fees are based upon the estimated number of customers connected to the extension each year.
- 12) C/F Line 9 The tax depreciation is based on the IRS straight line depreciation rates for 25 year utility property applied to Aqua's estimated total cost plant per the contract with the developer and applied to the estimated meter fees / tap fees.
- 13) C/F Line 17 For the purchases of utility plant we used the estimated amount of total plant per the contract with the developer and year 1 initial cost investment. Meter fees / tap fees are based upon the estimated number of customers connected to the extension the first year.
- 14) C/F Line 18 Cash bonds posted are not required as Aqua has an approved corporate surety bond to satisfy NCUC bonding requirements.
- 15) C/F Line 29 Funds provided by company is the estimated amount needed to purchase this extension.
- 16) The initial cost investment does not include internal costs including due diligence related to

AQUA NORTH CAROLINA, INC.

VIABILITY STATEMENT

Aqua North Carolina, Inc. provides sewer service to approximately 17,360 customers and water service to approximately 63,727 customers in North Carolina. In Aqua's last general rate case, Docket Number W-218, Sub5267, the North Carolina Utilities Commission (NCUC) determined that 9.40% was a reasonable return on equity for Aqua's North Carolina operations for the test year ended March 31, 2020. The 9.40% return on equity produced total annual operation revenues of \$39,190,819 for water and \$16,457,554 for sewer. The total rate based allowed was \$135,909,810 for water and \$60,371,609 for sewer of which 50% or 98,140,710 was equity funded.

Aqua North Carolina, Inc. has a corporate surety bond in the amount of \$13.0 million which was approved by the Commission which was approved by the Commission in August 2017 to satisfy NCUC bonding requirements.