

State of Florida



## Public Service Commission

CAPITAL CIRCLE OFFICE CENTER • 2540 SHUMARD OAK BOULEVARD  
TALLAHASSEE, FLORIDA 32399-0850

**-M-E-M-O-R-A-N-D-U-M-**

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**DATE:** June 9, 2016  
**TO:** Carlotta S. Stauffer, Commission Clerk, Office of Commission Clerk  
**FROM:** Clayton Lewis, US Engineering Specialist, Division of Engineering *CKL R54*  
**RE:** Docket No. 150010-WS-Application for staff-assisted rate case in Brevard County  
by Aquarina Utilities, Inc.

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Please file the attached "Aquarina's response to Staff's Sixth Data Request" in the above mentioned Docket File.

Thank you.

**Terri Jones**

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**From:** Clayton Lewis  
**Sent:** Thursday, June 09, 2016 12:09 PM  
**To:** Terri Jones  
**Cc:** Laura King; Robert Graves  
**Subject:** FW: Docket No 150010 - Aquarina - Sixth Data Request  
**Attachments:** Aquarina Utilities Response to Staffs Sixth Data Request.pdf

Please file this message and attached document in Docket No. 150010 – Aquarina.

Thank you

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**From:** Kevin Burge [<mailto:aquarinautilities@bellsouth.net>]  
**Sent:** Thursday, June 09, 2016 12:07 PM  
**To:** Clayton Lewis  
**Subject:** Re: Docket No 150010 - Aquarina - Sixth Data Request

Dear Clayton,

Please find our response to this data request attached.

Sincerely,  
Holly Burge  
Account Manager; Aquarina Utilities, Inc.

On Wednesday, June 8, 2016 3:08 PM, Clayton Lewis <[CLewis@PSC.STATE.FL.US](mailto:CLewis@PSC.STATE.FL.US)> wrote:

Hello Mr. & Mrs. Burge,

Per our conversation last week, staff has issued a sixth data request. We experienced some technical issues which prevented the filing from posting to our website and providing a notice. The request was mailed last week. Follow this hyperlink to view the document, [\\*03456-16.pdf](#).

Thank you

*Clayton K. Lewis*  
*Division of Engineering*  
*850 413-6578*

**Aquarina Utilities, Inc.**

P.O. Box 1114  
Fellsmere, Florida 32948  
(772) 708-8350 (mobile billing)  
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[aquarinautilities@bellsouth.net](mailto:aquarinautilities@bellsouth.net)

6 June 2016

**Mr. Clayton Lewis**  
**U.S. Engineering Specialist**  
**Bureau of Reliability and Resource Planning**  
**Division of Engineering**  
**Florida Public Service Commission**  
2540 Shumard Oak Blvd.  
Tallahassee, FL 32399

Reference: **Staff's Sixth Data Request**  
**Aquarina Utilities, Inc. SARC, Docket No. 150010-WS**

Dear Mr. Lewis,

With regard to your sixth data request, dated 2 June 2016, please review the following responses:

**1. Expansion of water and wastewater mains:**

- A. Has the water distribution system expanded since 2011? If so, please provide the location and scope of expansion.**

No, the water distribution system has not been expanded since 2011.

The water distribution system has changed since 2011. While the infrastructure for Maritime Hammocks was already in place in 2011, 20 homes were attached to the infrastructure in this development to date. One more home is scheduled to be attached soon. The new infrastructure associated with the construction of the Mantilla Reef development was put in place and activated in 2016. While the infrastructure for Mantilla Reef was already in place in 2011, the plan was changed, and the contractor elected to remove and reinstall infrastructure to fit these new plans. Two homes are currently under construction out of 13-15 proposed units in the Mantilla Reef development. This is somewhat less than the original 20 units proposed for the site. The infrastructure related to water service for the new Beach Clubhouse was in place in 2011, but was changed according to new plans and brought on line just recently in 2016. The Beach Club House is now attached to

the system. The home recently built at 7449 S. Hwy A1A has also been attached to our system in this timeframe, but the infrastructure was already in place at the time of connection. The Commercial Building Corporation sales trailer was also attached to existing infrastructure during this time period.

- B. Has the water distribution system been expanded since 2003? If so, please provide the location and scope of expansion.**

Relative to the answer given above, the water distribution system has changed since 2003. Please understand that we do not have access to records which might detail expansion or changes from 2003 to 2011.

- C. Has the wastewater collections system been expanded since 2003? If so, please provide the location and scope of expansion.**

No, the wastewater collection system has not been expanded since 2003.

All of the changes indicated in the water section above have been mirrored as changes to the wastewater collections system. One sewer-only home at 7333 S. Hwy A1A has also been connected, but the infrastructure was already in place for that connection.

- D. Has the wastewater collections system been expanded since 2003? If so, please provide the location and scope of the expansion.**

Relative to the changes detailed above, the wastewater collection system has changed since 2003. Please understand that we do not have access to records which might detail expansion from 2003 to 2011.

- E. Has the non-potable distribution system been expanded since 2003? If so, please provide the location and scope of expansion.**

No, the non-potable system has not been expanded since 2003.

Relative to the changes detailed regarding Mantilla Reef, the non-potable system has changed since 2003. Each of the 20 new homes in Maritime Hammocks was connected to the non-potable system with a  $\frac{3}{4}$ " x  $\frac{5}{8}$ " meter, the CBC sales trailer also was connected with a  $\frac{3}{4}$ " x  $\frac{5}{8}$ " meter which has since been removed by the customer, but not returned to the utility, and the Beach Club House was connected with a  $\frac{3}{4}$ " x  $\frac{5}{8}$ " meter. Mantilla Reef elected to connect with a 2" master meter for irrigation. 7449 S. Hwy A1A connected with a  $\frac{3}{4}$ " x  $\frac{5}{8}$ " meter.

- F. Has the non-potable distribution system been expanded since 2003? If so, please provide the location and scope of expansion.**

The non-potable distribution system has changed since 2003, as detailed above. Please understand that we do not have access to records which might detail expansion from 2003 to 2011.

2. **High Service Pumps:** Aquarina's application indicates that it has two high service pumps rated at 450 GPM. DEP's most recent Sanitary Survey indicates that Aquarina has two pumps rated at 175 GPM. Please reconcile this difference.

The pumps listed in the application refer specifically to the wells that supply Aquarina Utilities. The pump attached to well #1, the potable well that supplies the non-potable system, located north of the plant in an enclosure on the golf course, is rated between 450GPM and 600GPM. There is currently no well pump attached to potable well #2, located inside the plant compound in the southeast corner. This well supplies the potable water system by artesian pressure, supplemented by two booster pumps located inside our reverse osmosis building. The high service pumps that push treated water into the hydropneumatic tank that supplies the water distribution system are rated at 175GPM.

3. **R/O Membrane Capacity:** In Aquarina's 2003 rate case, the used and useful evaluation of the Utility's water treatment plant was based on the ability of the R/O system to filter and process drinking water.

- A. Please identify the number of membrane filters currently used in Aquarina's R/O system.

There are four reverse osmosis membranes in use in the R/O system at Aquarina. These membranes are further supported by two pre-filters, one of which takes fourteen cartridges and another that takes nine cartridges.

- B. Please identify the rated capacity, in gallons per day, for each membrane filter currently used in Aquarina's R/O system.

The rated capacity of the current R/O system is approximately the same as the maximum allowance for potable water use in our system, about 99,000 GPD. As the system is constructed to operate as one unit, the capacity of its individual elements is undetermined.

Please let us know if you have any further questions.

Sincerely,



Holly Burge  
Account Manager; Aquarina Utilities, Inc.