



PRUDENCE ISLAND WATER DISTRICT

P.O. BOX 93

PRUDENCE ISLAND, RI 02872

401-682-2981 • www.pih2o.org

January 18, 2010

Mr. Fred Kurdziel
Rhode Island Dept. of Health
Office of Drinking Water Quality
3 Capitol Hill, Room 209
Providence, RI 02908-5097

Dear Mr. Kurdziel,

The purpose of this report is to correct information on the sample site plan for the Prudence Island Water District (PWS ID# RI1592023). The current sample site plan lists the population being served as being a maximum of 1500 people. This figure is incorrect and is excessively high. The number of service connections named in the current sample site is 357, which is also incorrect and slightly high.

I would like to address the number of service connections first because that number has a direct bearing on my calculations for the population being served. Our current billing is for 359 accounts. There are a number of customers within the district that have multiple accounts. Not all of those accounts are active; that is, there is no actual service connection associated with the account. By reviewing the customer database and then verifying this information in the field, it has been determined that the district has 12 "on demand" accounts. On demand accounts are generally for water rights on vacant building lots. The account holder has the right to a water service connection on their lot upon request. This leaves a total of 341 ~~service connections~~ ~~currently~~ being provided by the PIWD. This is the correct number of ~~service connections in the sample site plan.~~

Although these ~~service connections~~ connections within the boundaries of the PIWD, they are not all active connections. A number of service connections go to vacant lots where no building yet exists. None of these inactive ~~service connections~~ can be used by the landowners because the only connection hardware installed is a curb stop. ~~There are 5 of these inactive service connections, leaving a total of 335 active connections. These inactive service connections to vacant lots on which the landowners have installed yard hydrants. These particular landowners all have multiple accounts with the PIWD and all have at least one other residence. The yard hydrants are normally used for lawn maintenance. This leaves a total of 332 structures on which the district actually provides water. Of these 332 structures, 3 are sheds; one is a house of worship, one belongs to the Prudence Island Historical and Preservation Society; one belongs to the Prudence Island Improvement Association/Library; one belongs to the Prudence Variety Store; one belongs to the Prudence Improvement Association; one belongs to the Prudence Island Volunteer Fire Dept. and one belongs to the Town of Portsmouth Public Works Dept. This leaves a total of 322 houses or structures being served by the PIWD.~~

To calculate the ~~population~~ population being served, I employed 2 methods: The first was to multiply the number of ~~structures~~ structures by an accepted average number of occupants per dwelling. The accepted

multiplier is 2.5 people per household. The other method is to divide the number of gallons of water pumped per day by the accepted number of gallons of water consumed per person, per day. Please refer to appendices A and B. As explained in the previous paragraph, there are 322 residences being served by the PIWD. Using the accepted EPA figure for average persons per dwelling, the maximum population being served would be 805 people. If we calculate the maximum number of persons using pumping records to determine the population, the figure is even lower. In 2009, the highest demand day was July 8, with 62,700 gallons pumped. If this figure is divided by the accepted EPA estimate of 80 GPD per person, the maximum estimated population would be 784 people.

The difference between the two methods is a mere 21 people. Since both methods employ factual data and one method tends to support the other, it is reasonable to conclude that the maximum population being served is likely not more than 805 people. I have filled out the DOH public water system information change form to reflect the correct number of service connections and the maximum number of people served by the Prudence Island Water District.

Very best regards,

William Capron, Facilities Manager
Prudence Island Water District

Clancy, Grace (RIDOH)

From: HoxsieQuinn, Garth (RIDOH)
Sent: Tuesday, August 25, 2020 8:02 AM
To: Clancy, Grace (RIDOH)
Cc: Black, Leeanne (RIDOH)
Subject: FW: [EXTERNAL] : Remote Document Review information

Please also print this email.

From: William Capron <wcapron@pih2o.org>
Sent: Monday, August 24, 2020 3:04 PM
To: HoxsieQuinn, Garth (RIDOH) <Garth.HoxsieQuinn@health.ri.gov>
Subject: RE: [EXTERNAL] : Remote Document Review information

Good afternoon Garth,
I have just forwarded you a couple of emails from last year. I was enraged when I found-out that the population was yet again changed to 1500 people without any evidence (data) to back it up. The ex-Operations Manager is probably the one who made the change, without my knowledge or consultation. Why he would do something so stupid is beyond me. He told me that the change came from the RIDOH, which I believe to be a lie, and would not allow me to correct it. I did make it clear to Bob that we cannot pump enough water to service even a thousand people, never mind 1500. I hope the electronic copy of the letter from January 18, 2010 will be helpful, since it is factual-information. I can certainly elaborate more during the sanitary survey and show ten years of pumping data to the surveyor.
Thank you,
Will

William Capron
System Manager
~~Prudence~~ Island Water District
PO Box 93
~~Prudence~~ Island RI 02872
401 683 0011 (office)
401 556 1206 (cell)
~~401 361 0580~~ (fax)
wcapron@pih2o.org
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~~From:~~ HoxsieQuinn, Garth (RIDOH) <Garth.HoxsieQuinn@health.ri.gov>
~~Sent:~~ Friday, August 21, 2020 11:50 AM
~~To:~~ William Capron <wcapron@pih2o.org>
~~Subject:~~ RE: [EXTERNAL] : Remote Document Review information

~~Will,~~

Quick question for you with regards to population. I know you have that the PWS has a 805 persons. I assume that this is generally the summer population? We were provided a population of an average of 1500 persons from 6/1-10/31 and

135 persons from 11/1-5-31. I am not sure how provided these numbers but if you can clarify the summer vs winter population that would be great.

Thank you,
Garth

From: William Capron <wcapron@pih2o.org>

Sent: Wednesday, August 19, 2020 7:14 AM

To: HoxsieQuinn, Garth (RIDOH) <Garth.HoxsieQuinn@health.ri.gov>

Subject: [EXTERNAL] : Remote Document Review information