

Christi Water System, Inc.
200 Perry Street
Defiance, OH 43512

May 3, 2021

Re: CASE NO. 20-1428-WW-AIR
Christi Water System Inc
Community Public Water System
PWS ID # OH2001003

To: Lauren L. Augostini, Attorney Examiner

Dear Lauren,

Christi Water System, Inc. is objecting specifically to the staff proposals on Page 12, Table 2 and Table 3 of the "A report by the Staff of the Public Utilities Commission of Ohio".

The staff proposed a minimal rate of 0 – 50 cf / month at \$34.34. We believe this to be unreasonable to the successful operation of the Christi Water System, Inc.

I have attached engineering data for "Design of Water Supply."
I am submitting this to show that even the minimum usage of:
30 gpd per individual X 30 days= 900 gal/ month= 120cf / month

The design schedule shows per individual to be 30 to 80 gal per day. I previously used: 50 gpd per individual X 30 days= 1,500 gal/ month= 200cf / month

So why would a minimum charge not be based on at least 200cf/ month, not 50cf/ month proposed.

The only way a single person could show a usage of less than 200cf/ month would be:

- a) because their meter is old and is not recording all water running through the meter,
 - b) or they have replumbed and/or rewired their remote so they can cheat on their usage, a.k.a. "theft."
- Therefore, Christi Water System has an overage of 18,000cf per month non-billable water loss.

It is probable, if not inevitable, that Brunersburg Water District or the City of Defiance will be taking over Christi Water System, Inc. and their current rates will more than provide adequate revenue to meet the EPA mandates and service to Christi Water System, Inc. customers.

Also in the event Christi Water System, Inc is taken over by Brunersburg, the minimum will adjust to 350 cu ft/ month.

City of Defiance has a ¾" meter "Readiness to Serve (RTS)" charge of \$47.61/ month plus an additional add-on for water used. A 1" meter RTS – No usage, \$79.05/ month

Respectfully Submitted,



Terry E. Beilharz, President
Christi Water System, Inc.

ATTACHMENTS

"Design of Water Supply"
"Brunersburg Water District"

Chapter 3

DESIGN OF WATER SUPPLY FIRE PROTECTION

A. Design of Water Supply

1. General. The design of the water supply of a building comprises first the determination of the total quantity required for the supply of plumbing, heating, air-conditioning, manufacturing, and fire-protection equipment. This question involves the satisfactory supply for a fixture of each kind and the number of fixtures assumed to be in use at the same time. This total having been calculated, the sizes of piping, tanks, and pumps must be decided to distribute the water to the various appliances in the proper quantities and under the desired pressures.

2. Water consumption. Table I presents generally accepted averages of water consumption for each occupant per day, which may vary according to circumstances.

Table I. Consumption of Water per Capita per Day (Gallons)

Apartments and hotels	50-120
Office buildings	15-30
Residences, each occupant, including kitchen, bathroom, and laundry	30-80
Horse (winter, 4 to 8 gal; summer, 8 to 18 gal)	12
Cow	12
Hog	1
Sheep	1
Chickens, per 100	4
Lawn and garden sprinkling ($\frac{1}{2}$ -in. hose), per hr	200
Lawn and garden sprinkling ($\frac{3}{4}$ -in. hose), per hr	300
Lawn sprinkler, per hr	120

In apartments, hotels, and office buildings the requirements of laundries, kitchens, heating, condensers, and other equipment must be added to the personal consumption of the occupants.

Table II gives the rate of flow best suited to the common types of fixtures and the average pressure necessary to give this rate of flow.

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Chap. 3, Art. 4 PIPING DESIGN—FIRE PROTECTION

Table II. Flow from Fixtures and Required Pressures *

(A) Fixture	(B) Size Fixture Branch (in.)	(C) Flow Pressure (lb per sq in.)	(D) Flow (gal per min.)
Lavatory	$\frac{3}{8}$	8	3.0
Self-closing faucet	$\frac{1}{2}$	12	2.5
Public sink, $\frac{3}{8}$ in.	$\frac{3}{8}$	10	4.5
Kitchen sink, $\frac{3}{4}$ in.	$\frac{1}{2}$	5	4.5
Bath tub	$\frac{1}{2}$	5	6.0
Laundry trays—1, 2, or 3	$\frac{1}{2}$	5	5.0
Shower bath	$\frac{1}{2}$	8	5.0
Water closet, flush tank	$\frac{3}{8}$	8	3.0
Water closet, flush valve	1	10-20	20-40
Urinal, flush valve	1	15	15.0
Garden hose, 50 ft and sill cock	$\frac{1}{2}$	30	5.0

* Abstracted by permission from *Heating, Ventilating, Air Conditioning Guide*, 1953, page 1046.

3. Fixture units. The load in gallons per minute required by each type of fixture is often computed in fixture units, each unit being equivalent to 7.5 gal per min or 1 cu ft of water per min.

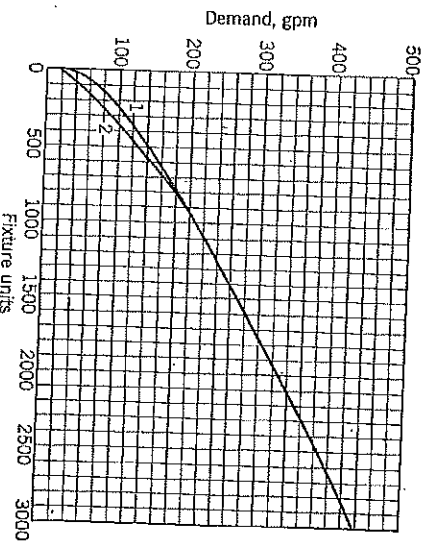


Fig. 1. Curves for demand load. No. 1 for system predominantly for flush valves. No. 2 for system predominantly for flush tanks. Reprinted by permission from *Heating, Ventilating, Air Conditioning Guide*, 1953, page 1047.

4. Probable usage. For residences, farms, and buildings with little plumbing a maximum supply is advisable, because few fixtures

BRUNERSBURG WATER DISTRICT
22485 MILL STREET
DEFIANCE OHIO 43512
419-782-7888

BRUNERSBURG, TINORA, AND AIRPORT LINE
Effective January 1, 2021 (+1.6%-Bruns)

- RATE 1 - Residential Service: \$90.30 for first 350 cu. ft.
\$.98 for each additional 10 cu.ft.
User Fee: \$3.00
- RATE 4 - Commercial Service Min \$1801.80 for first 15,000 cu. ft
(Schools) \$.74 for each additional 10 cu.ft.
User Fee: \$18.03 / 1,000 cu ft used
- RATE 2 - Trailer Parks \$.98 for each 10 cu. ft.
User Fee: \$3.00 / trailer

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Summary: Objection Objection by Terry Beilharz electronically filed by Mr. Kent Beilharz on behalf of Christi Water System, Inc