

From: [Mike Andrus](#)
To: [John Hall](#)
Subject: FW: Taunton billing data
Date: Tuesday, May 05, 2015 3:32:55 PM
Attachments: [Marchdata_wstatsbasedonDEPservtype.xlsx](#)

John – this is a couple of emails in one – a little back-and forth with Susan about how to calculate housing units. Note that the attached “calculation” doesn’t really appear to be a calculation, but a copy of the billing data that we sent her. Also, as you are likely aware, her methodology of assuming vacancy rates is inaccurate, since vacant properties are still billed a service charge, they just aren’t charged for using any water.

Mike Andrus

From: Murphy, Susan [<mailto:Murphy.Susan@epa.gov>]
Sent: Friday, April 04, 2014 9:33 AM
To: Mike Andrus
Cc: Joe Federico
Subject: RE: Taunton billing data

Hi Mike, attached are my preliminary calcs, it’s not set up in a real formal way so give me a call if you have trouble following it. Basically I sorted and counted things up by DEP Service type with types 5, 12 and 19 counting as residential. For housing units I added up the housing units under those three categories but I excluded the properties with \$0 bills to try not to include vacant properties or potential duplicate billings.

Thanks
Susan

From: Mike Andrus [<mailto:MAndrus@BETA-Inc.com>]
Sent: Friday, April 04, 2014 8:59 AM
To: Murphy, Susan
Cc: Joe Federico
Subject: RE: Taunton billing data

Susan,

I have been working on the calculations and database for generating our billing info, and I am trying to understand your calculations a little better. Would it be possible for you to send me your calcs (assuming there is a spreadsheet or something similar) so that I can take a look and better understand where you are coming from? Thanks.

Mike Andrus

-----Original message-----

From: "Murphy, Susan" <Murphy.Susan@epa.gov>
To: Joe Federico <JFederico@BETA-Inc.com>
Sent: Wed, Apr 2, 2014 14:56:46 GMT+00:00

Subject: Taunton billing data

Hi Joe, below are some of my preliminary conclusions regarding the billing data you gave me. Why don't you take a look and see if you all have a different interpretation. We are going to discuss here and then we'll contact you about setting up another meeting, I'll email or call next week. Also, if you have any data of the volume of flow from the IMA communities that would be helpful.

About 82.5% of the Taunton sewer billing \$ is to residential properties; 7% is industrial and rest other uses (commercial, institutional etc). Consumption is similar (within about .5% in each category). Total billed consumption is about 2.3 mgd for Taunton itself (does not include satellite communities).

Based on parcel data there are about 16,000 housing units on the properties being billed for sewer. Assuming a 7% vacancy rate (I just googled that so worth confirming) gives about 15,000 housing units.

This could be converted to a total number of household equivalents by adjusting for the percent residential (82.5%), that would give you $15,000 / .825 \sim 18,000$ household equivalents.

There are about 5,600 single family housing units (~5190 at 7% vacancy); average consumption at single family is about 75 hcf or 150 gallons per day. Consumption across all residential units is lower, around 60 hcf.

Average single family bill for FY 2013 is \$466 if you assume 7% vacancy rate (\$433 if no vacancies); average bill per household over all residential is about \$353 (7% vacancy).

The original schedule and financial analysis provided by the City was based on dividing the debt service for the City of Taunton by the number of 5/8" equivalent meters, which gives about 11,000, and assuming 120 hcf for the volumetric fee.

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