# RHODE ISLAND PUBLIC UTILITIES COMMISSION DOCKET NO. 4406

# PREFILED TESTIMONY OF CHRISTOPHER P.N. WOODCOCK

# REGARDING RATE RELIEF REQUEST FROM PROVIDENCE WATER

**ON BEHALF OF** 

**KENT COUNTY WATER AUTHORITY** 

Woodcock & Associates, Inc. 18 Increase Ward Drive Northborough, MA 01532

# PREFILED TESTIMONY OF CHRISTOPHER P.N. WOODCOCK

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- 4 Q: Please state your name and business address?
- 5 A: My name is Christopher P.N. Woodcock and my business address is 18 Increase
- 6 Ward Drive, Northborough, Massachusetts 01532.
- 7 Q: By whom are you employed and in what capacity?
- 8 A: I am the President of Woodcock & Associates, Inc. a consulting firm specializing in
- 9 water and wastewater rate and financial studies.

# 10 Prior Experience

- 11 Q: Please describe your qualifications and experience.
- A: I have undergraduate degrees in Economics and in Civil Engineering from Tufts
  University in Medford, Massachusetts. After graduating in 1974, I was employed by
- the environmental consulting firm of Camp, Dresser, and McKee Inc. (now CDM-
- Smith). For approximately 18 months I worked in the firm's environmental engineer-
- ing group performing such tasks as designing water mains, sewer collection and in-
- terception systems, pumping facilities and portions of a wastewater treatment facili-
- ty. From approximately January 1976, I worked in the firm's management and fi-
- nancial consulting services group, gaining increasing responsibility. At the time of
- 20 my resignation, I was a corporate Vice President and appointed the leader of the
- group overseeing all rate and financial studies. In my career, I have worked on
- nearly 500 water and wastewater rate and financial studies, primarily in the United

- States, but also for government agencies overseas. I also have worked on a num-1
- ber of engineering and financial feasibility studies in support of revenue bond is-2
- sues. I have drafted and reviewed revenue bond indentures, and I worked on sev-3
- eral valuation studies, capital improvement financing analyses, and management 4
- audits of public works agencies. In addition to my professional experience I have 5
- 6 held elected and appointed positions on municipal boards overseeing public works
- functions. 7

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# 8 Q: Have you previously testified before state regulatory commissions or courts

#### 9 on rate related matters?

10 A: Yes, in addition to testimony I have provided before this Commission on numerous occasions since the 1970s, I have provided testimony on rate related matters before utility commissions in New Hampshire, Maine, Massachusetts, Connecticut, New York, Maryland, Texas, and Alberta, Canada. I have been retained as an expert witness on utility rate related matters in proceedings in state courts in California, Colorado, Arkansas, Florida, Massachusetts, Michigan, New Jersey, Maryland, Ohio, Virginia, and Pennsylvania, as well as the Federal Court in Michigan. I have been selected to several arbitration panels related to disputes over water rates and charges; I have provided testimony on rate related matters to the Michigan and Massachusetts legislatures, and I have provided testimony at administrative hearings on a number of occasions.

# 1 Q: Do you belong to any professional organizations or committees?

- A: Yes, I am a member of the Water Environment Federation, the Rhode Island Water Works Association, the Massachusetts Water Works Association, the New England 3 Water Works Association, and the American Water Works Association. For the Wa-4 ter Environment Federation, I was a member of the committee that prepared the 5 manual on Wastewater Rates and Financing. I am past chairman and a current 6 member of the New England Water Works Association's Financial Management 7 Committee. In my capacity as Past President of the New England Water Works As-8 sociation I also sat on the Board of Directors as well as chairing and sitting on a 9 number of other administrative committees. For the American Water Works Asso-10 11 ciation, I am past chairman of the Financial Management Committee and the Rates and Charges Committee that has prepared the manuals on Revenue Requirements, 12 Water Rates, Alternative Rate Structures, and Water Rates and Related Charges. I 13 14 have been reappointed to and am currently the longest standing member of the AWWA Rates & Charges Committee. 15
- 16 Q: Are you the same Christopher Woodcock that has prefiled testimony on be-17 half of the Kent County Water Authority in other rate filings?
- 18 A: Yes Lam.
- 19 Q: Who do you represent in this matter?
- 20 A: I represent the interests of the Kent County Water Authority (KCWA or Kent Coun-
- 21 ty). In past proceedings I have also represented several other wholesale customers

- of Providence Water. While many of the issues I will address may also be in the in-
- terests to and perhaps of benefit to other wholesale customers, my testimony is only
- on behalf of KCWA.

# 4 Q: What is the purpose of your testimony in this docket?

- 5 A: The purpose of my testimony is to comment on the March 23, 2013 rate filing sub-
- 6 mitted by Providence Water (as supplemented and corrected with testimony on April
- 17, 2013<sup>1</sup>) and to provide recommended revisions to that filing, particularly as they
- relate to the costs that have been allocated to Kent County.

# 9 Q: What is the impact of the increase proposed by Providence Water on the Kent

# 10 County Water Authority?

- 11 A: The increase proposed by Providence Water would result in a 32.8% increase in the
- annual revenues from KCWA or \$1,122,870<sup>2</sup>. While it has been three years since
- the last increase<sup>3</sup>, the last filing by Providence Water that included a cost allocation
- study was in Docket No. 3832 when the test year was June 30, 2006.

# 15 Q: Can you summarize the issues you have identified?

- 16 A: Yes. Like many dockets before the Commission, there are really four sets of issues:

<sup>&</sup>lt;sup>1</sup> Throughout, my testimony regarding Mr. Smith's exhibits will refer to his supplemental testimony filed on April 17, 2013

<sup>&</sup>lt;sup>2</sup> Providence Water Schedule HJS-S20

<sup>&</sup>lt;sup>3</sup> April 27, 2010

2.	the projections used for the rate year sales, number of accounts, fire se
	vices, etc.,

- 3. the overall allowed revenues or revenue requirements, and
- 4. the proper rate design.

Regarding item #1 above, I am recommending a number of corrections to the allocations submitted by Providence Water. Among those with the largest impact on Kent County are (a) the failure to allocate unaccounted for water under the direction provided by the Commission in Doc 3945, (b) the corrections to the asset values provided in response to KCWA Data Request 1-4, (c) the incorrect classification of "distribution" vs. "transmission" mains, and (d) the failure to recognize the change to Chapter 46-15.6-6 that no longer requires IFR costs to be recovered "directly proportionate to the users' water consumption".

Regarding item #2 above, the projections of sales, I believe Providence Water has incorrectly mixed a three year average for the retail sale projections with a four year average for the wholesale sales projections and unaccounted for water volumes. In addition, I have proposed to update the numbers of meters, hydrants and fire services to the values as of March 31. 2013<sup>4</sup> as provided in response to Division Data Request 1-5 and KCWA 3-2.

<sup>&</sup>lt;sup>4</sup> If these values are further updated I agree to use those more recent values.

- In regards to item #3, the overall revenue requirements, I believe that Providence
- 2 Water has (a) proposed a capital program that leaves a substantial and unneces-
- sary balance in the IFR fund, (b) included funding for a new facility that has no ap-
- 4 provals, no prior regulatory review, and is priced at the highest option identified, (c)
- failed to reflect any new or additional revenues that would result from the (one-time)
- 6 increase in cash flow due to the conversion to monthly billing, and (d) suggested an
- excessive overall regulatory expense claim and amortized it over too short a period.
- 8 As with past filings by Providence Water, I will examine the testimony of the Divi-
- 9 sion's expert to address many of the other operating cost requests and may adopt
- many of these in my surrebuttal filing.

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- 12 Item #4 primarily relates to the alternative conservation rates that Providence Water
- has provided but does not recommend at this time. Although this proposal may
- benefit the Kent County Water Authority (see HJS-S30), I do not believe that, as
- proposed, it is supported by the data supplied in this docket.

# 16 Q: What are your overall recommendations?

- 17 A: Providence Water has requested an increase in revenues of \$14,621,782 or
- 18 24.33% that includes a 32.8% increase for Kent County (and the other wholesale
- customers) and an overall retail increase of only 21.68%.
- As discussed earlier, I will examine the Division's and any other expert's testimony
- for additional guidance on many of the proposed operating expense adjustments.

- In the absence of any additional adjustments, I have calculated an overall increase
- in rate revenues of \$6,814,668 or 11.6%. Based on this overall revenue require-
- ment and the adjustments detailed in this testimony, the rates to the Kent County
- Water Authority (and the other wholesale customers) should be *decreased* by 4.0%
- while the revenues derived from the *retail* customers should increase by about
- 6 17.6%.

# **7 Cost Allocations**

- 8 Q: Of the four issues you have identified, which is the most important for the
- **9 Kent County Water Authority?**
- 10 A: The misallocation of costs to the wholesale customers is the most important to the
- Authority. While there are a number of cost allocation issues I will address, there
- are two that stand-out:
- 1. The misallocation of capital costs in Mr. Smith's Schedule HJS-S12 that
- was based on incorrect asset values, and
- 2. The misallocation of unaccounted for or unmetered water that assigns too
- much of the base costs to the wholesale customers.
- 17 Q: Please elaborate on your first point the misallocation of capital costs.
- 18 A: The capital costs claimed by Providence Water comprise nearly 40% of the overall
- revenue claim (HJS-S1). As shown on HJS-S12 (Allocation of Capital Cost), nearly
- all the capital expenses are allocated based on two factors: K1 and K2. These two
- factors are derived based on an allocation of individual cost categories for Provi-

- dence Water's Net Assets. While the details of this allocation were not included in
- the filings, they were provided by Mr. Smith in an informal discovery request<sup>5</sup>.
- Based on some discrepancies between Mr. Gadoury's testimony and the plant val-
- 4 ues presented in the spreadsheet, KCWA asked for backup of the net asset values
- in KCWA's first set of data requests. The responses from Providence Water pro-
- 6 vided corrections to the asset values.

# 7 Q: What was the impact of correcting the net plant values?

- 8 A: Just substituting the corrected asset values (KCWA 1-4, updated) into Mr. Smith's spreadsheet model with no other changes results in significant changes:
  - The allocation of <u>capital</u> costs (HJS-S12) to the wholesale class drops from \$8,505,764 (30.26%) to \$5,850,728 (20.81%).
  - The proposed revenues from KCWA (HJS-S20) drops from \$4,545,652 to \$3,998,409 and the overall increase for KCWA drops from the proposed 32.8% to 16.8%.
  - The proposed revenues from the entire wholesale class of customers drop by \$2,657,056 (and the wholesale increase drops from 32.8% to 16.8%).

This correction to data that Providence Water has now agreed was incorrect in the initial filing has a major impact. It shows how critical the proper underlying data can be to the cost allocations. Rather than having a larger overall increase than the retail class, the wholesale customers should have a lesser increase.

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<sup>&</sup>lt;sup>5</sup> As this case moved on and the importance of this matter became clearer, Providence Water has provided additional information to correct this matter. My testimony is based on the formal testimony submitted by Providence Water

# 1 Q: Do you have any other comments on the asset values?

A: As the Commission is aware, it is common practice for water utility capital costs to 3 be assigned based on the value of assets. This practice is followed because investments in water system assets are typically quite "lumpy"; that is, the invest-4 ments in different categories of assets can change dramatically from year to year. 5 For example, one year there may be significant expenditures related to meters while 6 the next year there may be significant expenditures related to the treatment facili-7 8 ties. These investments can have major impacts on the utility's rates and charges. If all the metering costs are assigned to the service charge in the year of that ex-9 pense it would result in a large increase to the service charges. The following year 10 11 when expenses are concentrated on treatment, the service charge would drop back down dramatically and the metered rates would rise. Customers should not be sub-12 13 ject to major rate structure changes because of variations in annual expenses; there 14 should be a level of continuity in rates. To do this, we typically look at past investments as a reflection of future capital costs. Over time, the annual investments will 15 16 add to the plant values and result in a proper allocation and recovery of costs.

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There are certainly implications to this practice. In this docket, Providence Water is seeking a major increase to cover costs associated with future expenses that are primarily involved with the retail distribution system. Looking at the projected IFR costs for the next 20 years, nearly75% of the total projected expense is related to the retail distribution system. In its supplemental filing, the total of all transmission

including Mr. Smith's supplemental filing.

- and distribution assets amounted to only 47% of the value however. Although 75%
- of the costs were related to the retail distribution system less than 47% of the IFR
- 3 costs were allocated to distribution.

- 5 The corrected asset values provided in response to KCWA 1-4 increased the
- transmission and distribution share from 47% to 59% helping to bring the T&D costs
- 7 closer to the projected share of future investments, although still far short of the
- 8 75% projected for the next 20 years.

- The point of this comparison is to demonstrate how critical the use of correct asset
- values is. In this docket, the capital costs that are allocated based on asset values
- amount to more than \$28 million in Providence Water's supplemental filing or nearly
- 40% of the total revenue requirements.
- ${\tt 14}~~{\tt Q:}~~{\tt Please}$  explain the second correction you found, the misallocation of lost or
- 15 unaccounted for water.
- 16 A: The cost allocation spreadsheet that was used by Providence Water appears to
- have been updated from that used in the 2007 rate filing (Docket No. 3832). In that
- docket I had raised an issue regarding the allocation of lost or unaccounted for wa-
- ter. Providence Water had proposed to allocate the unaccounted for water using
- the inch-feet<sup>6</sup> of transmission vs. distribution pipe. I testified that this was incorrect
- and that a (then) recently released American Water Works Association (AWWA)

- Manual made it clear that pipe size (diameter) did not impact overall losses; that the
- length of pipe, and particularly the lengths of customer service pipes, were what re-
- 3 ally mattered.

- 5 While the Commission found the evidence to have been presented too late in Dock-
- et 3832, it encouraged the issue to be raised again. In Docket No. 3945<sup>7</sup> the Com-
- 7 mission did address this matter, and in that decision the Commission states: "The
- parties were able to fully review the basis for (Mr. Woodcock's) proposal and accept
- 9 it. After review of the evidence and testimony at the hearing, the Commission spe-
- cifically approves this methodology for calculating lost and unaccounted for water,
- finding it to be supported by the water industry through credible scholarly publica-
- tions." (page 10 of Report and Order 19671, Docket 3945) Perhaps being unaware
- of it, Providence Water did not take this Commission order into account in this filing.

# 14 Q: Please describe what you have done.

- 15 A: In recognition of the Commission's Order in Docket No. 3945, I have recalculated
- the allocation of unaccounted for water. While Mr. Smith showed the result of his
- allocation of unaccounted for water in his Schedule HJS –S23, the basis for the al-
- location was not in the printed schedules. Based on my examination of his spread-
- sheet, he has continued to allocate the unaccounted water between retail and

<sup>&</sup>lt;sup>6</sup> The nominal diameter of pipe in inches times the length in feet

<sup>&</sup>lt;sup>7</sup> Pawtucket Water

wholesale customers using the same inch-feet calculation he had used in Docket

2 No. 3832.

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4 Rather than simply using the miles (or feet) of pipe multiplied by the diameter of

pipe, I have used the Commission's approved method of only considering the length

of pipe. Consistent with the method approved by the Commission in Docket 3945, I

have also included an estimate of the length of pipe associated with retail service

pipes. For this estimate I assumed that each account had a 25 foot service pipe<sup>8</sup>.

# 9 Q: Why have you added an estimate for the length of customer service pipes?

A: As discussed in AWWA Manual M36, "the majority of leakage volume losses occur on customer service connection piping, not on the water main piping of the distribution system." (page 100) Since more than 50% of the losses come from the service pipes, it is important to include these pipes in the allocation of lost water. I would note that with the assumptions I have made, I have likely understated the loss volume from retail service pipes since the service pipe I have included would account

for closer to 25% of the losses and not "the majority".

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<sup>&</sup>lt;sup>8</sup> KCWA requested an estimate of the total length of service pipe from Providence Water in KCWA 4-2. Providence Water could not provide an estimate of the total length, but did estimate 225 miles of service pipe between the main and the curb stop (typically the property line). I have estimated an additional 55% more pipe (125 miles) between the curb stop and the customer's structure. Considering Providence Water's response to KCWA 4-2, this is likely low.

# Q: What is the impact of this correction?

- 2 A: Again, looking at ONLY this single matter, and changing the allocation of unac-
- counted for water at the base of HJS-S239 so it conforms to the Commission's or-
- der in Docket 3945 has a significant impact:
  - The proposed revenues from KCWA (HJS-S20) drops from \$4,545,652 to \$4,409,041 and the increase drops from the proposed 32.8% to 28.8%.
  - The proposed revenues from the entire wholesale class of customers drop by \$669,288.
    - The percentage increase in wholesale revenues is almost equal to the overall increase proposed by Providence Water, and not significantly more.

# 12 Q: Have you determined the combined impact of just these two changes?

13 A: Yes I have. If I only make these two corrections the impacts are as follows:

- The proposed revenues from KCWA (HJS-S20) drops from \$4,545,652 to \$3,868,706 and the increase drops from the proposed 32.8% to 13.0%.
- The proposed revenues from the entire wholesale class of customers drop by \$3,286,810.
- The percentage increase in wholesale revenues is less than the overall increase proposed by Providence Water, and not significantly more.

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<sup>&</sup>lt;sup>9</sup> not shown in the filing, but included in the spreadsheet model

### 1 Q: Are there additional issues associated with the allocation of costs?

- 2 A: While the two matters addressed above are the most critical errors, there are a
   3 number of other issues.
  - I believe Providence Water has improperly classified pipe between transmission and distribution in the cost allocation study, and that the proposed classifications are inconsistent with other testimony and documents supplied by Providence. This misclassification results in an over-allocation of costs to the wholesale customers.
  - The allocations using symbols N, NO and NP for pumping facilities fail to allocate any costs to fire protection despite Providence's admission that water used for firefighting is pumped through these facilities. The proper allocation of a portion of these costs to firefighting reduces the allocation to wholesale customers.
  - As discussed by Mr. Gadoury, the operating expense under Transmission
     & Distribution: Contract Service Engineer is a major new expense for the cleaning and lining of the retail distribution pipes. I believe that none of this should be allocated to the wholesale customers and should be allocated to only the retail beneficiaries according to allocation symbol TD.
  - The miscellaneous revenues from the State Surcharge are all from retail customers; the wholesale customers should not receive any credit for this revenue offset. I have allocated all these revenues to the retail base function.

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- Based on the response to KCWA 4-3, Providence Water has derived allocation symbols X1 and X2 using only a single year's data. While the settlement in Docket 3082 may have derived these values based on only one years' data that settlement was not binding on future cases.
  - a. As shown on my Schedule CW-S14C, the allocation percentage to the wholesale customers under symbol HM (the basis for symbol X1) increases each year from 6.37% in FY 2010 to 8.20% in FY 2012. Providence Water has picked the highest allocation percent to wholesale customers and ignored the other two years. This choice to limit the consideration to only one year makes no sense when one considers that symbol X1 is used to allocate T&D costs in all three years.
  - b. Similarly, the allocation percentage to wholesale customers under symbol HOC (the basis for symbol X2) increases from 17.72% in FY 2010 to 18.49% in FY 2012. Again, considering only one year when this symbol is used to allocate three years of costs makes no sense.

Symbols X1 and X2 should be derived using all three years just as symbols HM and HOC used all three years. Providence Water's only explanation or support for using a single year is based solely on a docket that has no binding precedence in this case. I believe that using all three years just as was done for the basis of these symbols, is far more valid.

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- There are a number of other allocations in Mr. Smith's Supplemental Testimony and Exhibits that I believe he may have agreed should be corrected in his responses to data requests. However, based on Mr. Smith's comment in the response to DIV 3-1 -- "Providence Water retains the right to investigate the (changes), and propose further changes ..." I believe it is appropriate to address these revisions in my testimony should Providence choose to change its apparent prior acceptance.
  - a. In response to KCWA 1-18 Providence Water agreed that the allocation of Administrative &General: Employee Pensions and Benefits should be based on allocation symbol Y and not Z. Allocation symbol Y is used to allocate employee related costs and should be used for the allocation of Employee Pensions and Benefits. This is also consistent with the allocation of these costs in past dockets.
  - b. Allocation symbols K1 and K2 are used to allocate the vast majority of capital items. In developing these allocators, the value of system assets is used as a surrogate for the allocation of future infrastructure replacement and other capital investments. Because land is not being replaced, the value of land has been removed from the derivation of these allocators. Mr. Smith's supplemental exhibits and testimony failed to remove land associated with Treatment and with Lakes, River, Other Intakes. Mr. Smith appeared to agree with

1	these adjustments in the responses to KCWA 1-19 and KCWA 1-
2	20.
3	c. Allocation symbols HM, HMC and HOC are used to allocate almost
4	90% of the Transmission & Distribution costs (over \$5.1 million of
5	the overall revenue requirements); they are an important element of
6	the overall cost allocations. In its supplemental filing, Providence
7	Water allocated these expenses using the exact same percentages
8	that were developed over 5 years ago in Docket 3832 (see re-
9	sponse to KCWA 1-13). KCWA asked for these allocation symbols
10	to be updated using FY 2010 - FY 2012 data rather than using the
11	old FY 2004 – FY 2006 data. In his response to KCWA 1-13, Mr.
12	Smith indicated he would use this updated data for FY 2010 - FY
13	2012 in his rebuttal testimony and exhibits.
14	d. Allocation symbols X1 and X2 are based on the allocations of sym-
15	bols HM and HOC. I have revised these to conform with the
16	changes to symbols HM and HOC discussed above. 10
17	e. I have allocated the Plant Supply Mains and Other Power Produc-
18	tion Equipment in the updated asset listing using allocation symbol
19	A not N (see response Div 2-9).

 $^{10}$  Mr. Smith's corrected spreadsheet provided in response to DIV 3-1 incorrectly derives symbol X1 and X2 based solely on one year (2012) and not all three years. See testimony on this above.

in the calculation of allocation symbol P.

f. I have included the corrected water production values for lost water

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1 Q: Aside from Mr. Smith's suggestion in the response to DIV 3-1 about "the right to investigate the (changes), and propose further changes ..." do you have 2 any reason to believe Mr. Smith may no longer agree with these changes? 3 A: Yes. In the response to DIV 3-1 requesting an updated spreadsheet model that 5 contains the revisions he has agreed to, Mr. Smith now proposes "that the calcula-6 tion of factors HM, HOC, and HMC be based on a six year average" rather than a three year average<sup>11</sup>. This is inconsistent with his prior response to KCWA 1-13 7 where said he these allocation symbols would be "revised to reflect these (FY 2010-8 9 2012) updated allocation percentages in my rebuttal testimony." Parties should be able to rely on the responses to data requests and the representations that are 10 made regarding acceptance of changes. 11

# Q: How has the split between transmission and distribution pipes been used in Mr. Smith's cost allocation study?

A: While it is not shown in the schedules submitted as part of Mr. Smith's prefiled and supplemental testimony, transmission and distribution pipes have been split out within the spreadsheet he has provided. There is a section on the miles of pipe by size. Mr. Smith has calculated a total number of inch-miles of pipe by multiplying the length of each size pipe (in miles) by the nominal diameter (in inches) to get an "inch-miles" of each size pipe.

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<sup>&</sup>lt;sup>11</sup> He also agreed that the costs associated with the cleaning and lining of retail distribution pipe should be assigned based on allocation symbol TD. See also the response to KCWA 4-4.

- Mr. Smith has next split these inch-miles of pipe into a distribution percentage and a 1
- transmission percentage. In doing this he has assumed that all pipes that are 10" in 2
- diameter or less are distribution pipes and that all pipes that are 12" or greater are 3
- transmission pipes. 4

# Q: What is the relevance of this split? How does it impact the cost allocation

#### 6 study?

A: First, it must be understood that the terming of pipe as "transmission" or "distribution" is not the real issue. The sole purpose of this classification is to identify assets 8 9 that are used and useful by the wholesale customers. I believe that all parties can agree that any costs associated with pipes that are used for service to retail cus-10 tomers should not be assigned or allocated to the wholesale customers. Because 11 water piping is under pressure and the pipes are looped, it is somewhat difficult to 12 precisely identify pipes as just retail or both retail and wholesale. Clearly there are 13 large pipes (over 12") in the Providence retail system are of little or no benefit to 14 wholesale customers. However, to make the identification of piping responsibility 15 somewhat simpler, we have used the convenience of terming some pipe as "distri-16 bution" and some as "transmission", and we have typically used a size convention 17 to make this distinction.

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- Costs associated with distribution pipes are only assigned to the retail customers 20
- that make use of the distribution system. Transmission pipes are used by both re-21

tail and wholesale customers<sup>12</sup>, and costs associated with these facilities are allocated between wholesale and retail service. It is thus critical to properly identify what is distribution pipe (retail only) and what is transmission (both retail and wholesale). If piping that is only for the retail distribution system is assigned to the wholesale customers, the wholesalers are charged for services they do not need; services

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This split between distribution and transmission is used in several places.

that are neither used nor useful to the wholesale customers.

- Mr. Smith has allocated unaccounted for water using the relative share of distribution and transmission inch-miles assuming that distribution pipes are 10" or less and transmission pipes are 12" or greater.<sup>13</sup>
- 2. When Providence corrected the asset listing that is used to allocate most capital costs, it split up the asset value of pipe between Distribution and Transmission. To do this, they used the same percentages of pipe inchmiles discussed above. While the use of inch-miles (rather than just miles) may be appropriate for *this* allocation, the split should classify distribution pipe as 12" and less and transmission pipe as 16" and greater.

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<sup>&</sup>lt;sup>12</sup> No party has ever contended that there are pipes that are solely allocable to just wholesale customers.

<sup>&</sup>lt;sup>13</sup> As discussed earlier, the use of inch-feet to allocate unaccounted for water is contrary to the Commission's orders; simple miles of pipe should have been used.

- 1 Q: Why do you believe the transmission and distribution pipes were improperly
- 2 classified in Mr. Smith's cost allocation study?
- 3 A: Until data requests were asked about this issue, Providence Water had classified its
- pipe up to 12" as distribution pipe and those that are 16" or more as transmission.
- 5 This is clearly defined on page I-11 of its 2011-2030 IFR Report as provided in re-
- sponse to Div 1-31. It is also used on Exhibit 7 to that Report (page I-21 and I-22),
- the description of the transmission system on pages III-21 through III-22, and the
- 8 description of the distribution system on page III-23. Throughout this engineering
- 9 report, the distribution system is consistently classified as pipes and valves that are
- 12" or less and the transmission system is classified as pipes and vales that are 16"
- and greater.

- The cost allocation study should reflect the engineering classification that is used by
- Providence Water. It makes no sense to classify 12" pipes as distribution in the rate
- study when they are classified as transmission pipes in every other case.
- 16 Q: In response to BCWA 1-2(d) Mr. Gadoury says that mains that are 12" and
- larger are transmission mains. How do you respond to that claim?
- 18 A: As I noted earlier, Providence Water has submitted an engineering report (its IFR
- study) that has consistently labeled 12" pipes as distribution pipes. It is only for the
- rate filing that Providence seems to have changed its definition now saying in its da-
- ta response that 12" pipes are transmission pipes. I believe the engineering report
- 22 that consistently classifies 12" pipes as distribution should be relied upon in this

case. There was no benefit or interest to Providence rate payers when 12" pipes were designated as distribution pipes in the IFR engineering report. There is a clear benefit to Providence's retail rate payers to classify the 12" pipes as transmission in this docket.

Aside from the different definitions provided by Providence, there is a practical consideration. In the response to BCWA 1-11 we were provided the water sales by wholesale connection size. The response to BCWA 1-14 provided the size of the connection pipe for each wholesale connection. The response to KCWA 5-1 provided the size of Providence Water's pipe that wholesale customers were connected to. Based on these three responses I was able to determine that 89% of the wholesale water sales were through connections that were greater than 12", and virtually all (more than 97%) of the water supplied to the wholesale customers is through Providence Water pipes larger than 12". Essentially, there is no service to wholesale customers from Providence pipes that are 12" or less.

There are nearly 100 miles of 12" pipe in the Providence system, very little, if any, of which is used by the wholesale customers. Based on this very practical consideration of how water is supplied to wholesale customers, it is apparent that the pipes that are 12" or less are not of significant benefit to the wholesale customer group.

Accordingly, I believe that the 12" pipe in the Providence piping system should be

classified as distribution pipe and assigned to the retail customers that truly use

these pipes<sup>14</sup>.

3 Q: You also raised an issue with the lack of any allocation to fire protection for

4 line items allocated using symbols N, NO, and NP. Can you discuss this mat-

5 **ter?** 

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6 A: Symbols N, NO and NP are used to describe the allocation of various pumping facil-

ity costs. Inexplicably, Providence has failed to allocate any pumping costs to fire

protection (see HJS-S11 and HJS-S14) despite Providence's admission that water

used for firefighting is pumped through these facilities (see response to KCWA 2-

20). As noted in the response to KCWA 1-10b, the costs for the larger pumping fa-

cilities (allocated in part to wholesale customers) were allocated based on symbol A

or AA. Items allocated under symbol A or AA properly allocate a portion of these

costs to firefighting. In the case of the larger pumping stations, Providence Water

did not make any allocation to fire protection. Correcting this and properly adding

1% of the costs for these larger pumping stations to firefighting will reduce the over-

all allocation to wholesale customers.

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Allocation symbols N, NO and NP should be revised to reflect the 1% allocation to

fire protection, and the remaining allocations should be reduced accordingly.

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<sup>&</sup>lt;sup>14</sup> While a very small percentage of water (less than 3%) is indeed supplied to wholesale customers through 12" pipes, there are also 16" and larger pipes within the Providence Water retail system that are of no use or benefit to the wholesale customers. These should more than offset each other.

- 1 Q: The final uncontested item you mentioned is the allocation of Contract Ser-
- vice Engineer under Transmission & Distribution. Please discuss this.
- 3 A: The operating expense under Transmission & Distribution: Engineering is for the
- 4 cleaning and lining of the retail distribution pipes; there is no question as to what
- 5 this expense is for. Because this expense is solely related to the unidirectional
- flushing of retail distribution pipes, I believe that none of this should be allocated to
- the wholesale customers and should be allocated according to allocation symbol
- 8 TD.
- 9 Q: You mentioned the failure to recognize the change to Chapter 46-15.6-6 that
- 10 no longer requires IFR costs to be recovered "directly proportionate to the
- users' water consumption" in your opening summary. What is this issue?
- 12 A: First, this matter has a minimal impact on Kent County and the other wholesale cus-
- tomers; only affecting the amount of the service and fire protection charges. The RI
- Legislature changed section (1) of Chapter 46-15.6-6 in 2009 (after Providence Wa-
- ter's last cost allocation filing).

- 17 The prior IFR legislation required all IFR costs to be paid in proportion to use. This
- meant that any IFR costs related to fixed charges like the service charge or fire pro-
- tection charges had to be re-allocated to the base category to recover those costs
- "directly proportionate to the user's water consumption." In recognition of this for-

mer requirement, Providence Water<sup>15</sup> revised a number of its allocators to move all

2 IFR costs to the base category. IFR costs that were related to replacing fire hy-

drants, for example, were moved to the base category and recovered through water

sales rather than through the fire service charge where hydrant related costs are

typically (and properly) recovered.

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7 In earlier proceedings the Commission has expressed concern that the costs as-

signed to meters and services resulted in service charges that were quite high. Ac-

cordingly, the Commission ordered allocators such as Comm Y and Comm Z that

moved costs from the service charge to the retail metered rates. In recognition of

this concern I have not suggested any adjustments to the allocator adjustments that

move retail costs from the service charges to the retail metered rates.

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While I am not suggesting a change to the service charge allocations, I believe the

re-allocation of fire service costs should be corrected<sup>16</sup>. There are many IFR costs

that were improperly assigned to the metered rates and artificially lowered the costs

assigned to the fire protection charge. I believe it is important to understand the

true costs of various services provided by Providence Water; fire protection is one

of those services.

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<sup>15</sup> As well as all other water utilities in RI

<sup>16</sup> Note that this matter was addressed in Docket 4171 – Pawtucket Water.

- In 2009, the "directly proportionate to the user's water consumption" wording was
- removed by the RI Legislature, allowing the IFR costs associated with fire protection
- to be properly assigned to both public and private fire protection. Customers should
- 4 not have to subsidize these services through their metered water use rates. Ac-
- 5 coordingly, I have allocated the fire service costs back to fire service for allocator K1.
- This is the allocator used for all IFR costs. Using the updated plant assets provided
- in response to Div 3-1, correcting this one allocator puts nearly \$1 million of IFR
- 8 costs related to fire protection back on to the fire protection charges where they
- 9 properly belong and removes them from the retail metered rates where they do not
- belong.

# 11 Q: Do you have any additional comments on the cost allocation issues you have

# discussed?

- 13 A: Yes. I have touched on revisions to a number of different allocations and symbols
- in my testimony. I believe it is important to note that the individual revisions I have
- discussed impact far more than just the line items associated with these individual
- symbols. Many of the allocation factors are based on the results of other individual
- allocations, so these changes have a wide ranging impact.

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- In the next section of my testimony I will address the pro forma water use. As I dis-
- cuss, I believe that there is a significant change that needs to be made to eliminate
- the inconsistent treatment of wholesale and retail customers. This revision also im-
- 22 pacts the allocation of costs.

# 1 Water Use

- 2 Q: What are the issues you would like to address regarding water use?
- 3 A: There are two matters: (1) the use of a consistent historic period to determine pro
- forma water sales and (2) the use of the most up-to-date numbers of meters and
- 5 fire services.

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- 6 Q: Please address the first matter, consistent water use periods.
- 7 A: As discussed on page 8 of Mr. Smith's prefiled testimony, Providence Water has
- 8 proposed using an average of sales over the past three years to determine the retail
- 9 pro forma sales, but he has used a <u>four</u> year average to derive the pro forma
- wholesale sales. He notes that retail sales in FY 2009 were "above average", and
- using that year in the average would result in higher retail sales.

What Mr. Smith doesn't say is that using the FY 2009 wholesale purchases (which

- were also "above average") results in higher pro forma wholesale sales and thus a
- 15 higher allocation to wholesale customers.
- 17 It makes no sense to throw out a high year for one class and not another. The
- sales to five of the wholesale customers were "above average" in FY 2009. If the
- high year for retail users is thrown out, shouldn't the high year for each of the
- wholesale customers be thrown out as "above average"?

# 1 Q: What have the water sales for your client, Kent County, looked like over this

# 2 period?

- 3 A: Like Providence, the Kent County water sales were quite high in FY 2009. The fol-
- lowing are the retail sales over the past few fiscal years (in million cubic feet).
- FY 2009: 364
- FY 2010: 320
- 7 FY 2011: 342
- FY 2012: 332
- 9 FY 2013: 329
- Like other water utilities in the state, water sales have generally been dropping.
- Looking at the past five years, FY 2009 was clearly high and skews any average for
- 12 Kent County.

# 13 Q: Are the water sales the only inconsistency?

- A: No. As also shown on HJS-S23, Mr. Smith has used a <u>four</u> year average for the pro forma or rate year unaccounted for water as well. In this case he did not throw out the unusually low unaccounted for water volume in FY 2009. Leaving the lower unaccounted for water volume from FY 2009 in the average, lowers the overall lost water volume and the volume of lost water ultimately assigned to the retail custom-
- cluding the higher retail sales from FY 2009, Mr. Smith has reduced the volume wa-

ers. By including the lower unaccounted for water volumes from FY 2009 and ex-

- ter attributable to the retail customers thereby increasing the overall allocation to the
- 22 wholesale customers.

# 1 Q: What is the impact of this inconsistent development of pro forma sales and

## 2 water losses?

- 3 A: The impact is significant. Earlier I presented the corrected assignment of unac-
- 4 counted for water. If we use consistent periods for retail water sales, for wholesale
- 5 water sales, and for unaccounted for water, the difference to the wholesale custom-
- 6 ers is in excess \$80,000/year. The pro forma sales don't just impact the allocations
- based on sales (symbols A and AA), but nearly every other allocation where there is
- 8 not a direct assignment to meters or services.

# 9 Q: What do you recommend?

- 10 A: The Commission is well aware of the drop in water sales throughout Rhode Island
- in recent years. If pro forma sales are based on historic years when sales were
- higher, it will be impossible for the state's water utilities to achieve the allowed reve-
- nues with today's depressed sales. I recommend that the pro forma (rate year)
- sales for both retail and wholesale customers be based on the past three year's av-
- erage (FY 2010 FY 2012), and that the unaccounted for water also be based on
- the same three year period.

## 17 Q: Please discuss the updating of the numbers of accounts and fire services you

- 18 mentioned.
- 19 A: I expect that Providence Water's filing was based on the most up-to-date data they
- 20 had the time the filing was prepared. Since then there have been increases in the
- numbers of accounts (meters), fire services and public fire hydrants. Based on var-

- ious data requests, Providence Water has provided this updated information. Con-
- sistent with past Commission practice, I have used the most up-to-date numbers of
- 3 accounts, fire services and hydrants.
- 4 Q: Are there any additional matters related to water sales or numbers of ac-
- 5 counts and services?
- 6 A: There have been a number of data requests regarding the retail customer class
- demand factors presented by Providence Water. While these have no impact on
- the wholesale rates under the current cost allocation method, there are maximum
- 9 day and maximum hour demands presented for the wholesale class in this filing.
- These are the same factors that have apparently been used for a number of years
- by Providence Water in its filings with the Commission. The Kent County Water Au-
- thority wants to go on record that it does NOT agree with these factors.

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- The maximum day and maximum hour demands presented by Providence Water
- are the estimated non-coincident peak demands for each customer class. The use
  - of the non-coincident demands is the accepted industry standard in water rate mak-
- ing. By definition, the sum of the non-coincident demands must be greater than the
- overall system-wide coincident peak demands. Using the three year (FY 2010 FY
- 2012) averages from the response to Div 2-2, the system-wide coincident maximum
- day demand is nearly identical to the sum of the non-coincident demands for the
- same three year period. Using the four year average (FY 2009-FY2012), the sys-

- tem-wide coincidental maximum day exceeds the non-coincident demands for the
- same four year period this is impossible.

- 4 As noted, this matter does not impact the Kent County Water Authority in this filing.
- We do believe the factors are incorrect however; and, the resultant retail rates and
- 6 fire charges are suspect because they are based on this erroneous data.

# **7 Revenue Requirements**

costs that I will examine.

- 8 Q: The next general area you discussed in your summary was the revenue re-
- 9 quirements. Can you summarize these issues or concerns?
- 10 A: In general I have not spent a considerable amount of time on the claimed operating
  11 costs. From the data requests I have seen, both the Division and the Bristol County
  12 Water Authority have spent time analyzing these costs. The requested increases in
  13 operation and maintenance costs amount to about 15% of the overall requested in14 crease. While there is a considerable increase in chemicals and sludge disposal,
  15 these costs are restricted and I expect the Division to offer an opinion on these

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- The claimed property tax increases are considerable (nearly \$800,000), however,
- 19 Providence Water has provided the tax bills through FY 2014 in response to Div DR
- 4-7. I have updated the pro forma (rate year) amounts by taking the FY 2014 actual
- bills and adding an additional 2% for the half year from July 1 December 30, 2014.

- Providence Water has already identified several adjustments to the operating costs
  that I have included. These include
  - The reduction to Customer Accounting costs (Div 1-39)
- The reduction to Contractual Services-Engineering for the UDF flushing
   (Div 1-30)
  - The further reduction for capital reimbursements (Div 1-10)
  - No increase to power costs as the rate is fixed through the rate year (Div
     4-3 and Comm 1-16)<sup>17</sup>
  - I will also address the claimed regulatory expenses which are excessive; however, the bulk of my testimony on the revenue requirements deals with claimed capital costs, specifically:
    - The requested \$8,000,000 increase for IFR costs
    - The continued \$2,450,000 funding for the Capital Fund, particularly the \$2,400,000 per year for a New Central Operations Facility presented in Mr. Gadoury's Exhibit PG-5

In its response to Comm 1-33, Providence Water provided a breakdown of the miscellaneous costs within a number of areas. KCWA submitted a subsequent data request on several of these items that appear to be one-time costs and should not have been carried forward in the rate year. At the time this testimony was prepared, I did not have a response upon which I could make any recommendations.

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<sup>&</sup>lt;sup>17</sup> While Providence Water states that it did not increase the electric supply costs (see Comm 1-16), the spreadsheets it has provided suggest otherwise. KCWA has asked a late follow-up data request on this matter.

- Depending on the response from Providence Water, I may supplement this testimo-
- 2 ny or address the matter further in surrebuttal testimony.

- Lastly, I have proposed an adjustment to the claimed operating revenue allowance.
- 5 Q: Please discuss your concern with Providence Water's proposed new IFR
- 6 **funding.**
- 7 A: As discussed in the prefiled testimony and shown on HJS-S2, Providence Water is
- 8 proposing to increase its annual Infrastructure Replacement (IFR) spending by
- \$8,000,000. This increase accounts for nearly 2/3 of their proposed increase. The
- proposal would increase Providence Water's IFR spending from \$16,000,000 per
- year to \$24,000,000 per year; the IFR allowance would amount to 1/3 of their total
- 12 annual expenses.

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- I understand the critical need to fund the replacement of our nation's water infra-
- structure; and while it is aggressive, I do not dispute the infrastructure replacement
- spending plan outlined in this docket. My concern is related to the unnecessary
- buildup of a massive IFR reserve in conjunction with the huge increase in spending
- both are not needed. Based on HJS-S9C, the balance in the IFR reserve would
- increase to more than \$7,500,000 by the end of FY 2015.

- Schedule HJS-S9C shows activity in the IFR Reserve fund through FY 2015. In-
- cluded within the use of funds are bond payments on the 2005 RICWFA Debt (re-

- financed from 1994) and the RICWFA ARRA Debt. Those payments end in FY
- 2 2015, reducing future IFR funding requirements by nearly \$1,500,000. This will re-
- duce the use of funds from some \$29.5 million to just over \$28 million.

- 5 Mr. Smith's HJS-S9C shows more than \$7.5 million in the IFR fund balance at the
- end of FY 2015. With the \$24 million of annual rate revenue for IFR (current \$16
- 7 million plus requested \$8 million), there will be in excess of \$31.5 million available in
- 8 FY 2016. Accordingly, several years *after* the rate year in this docket, Providence
- 9 Water will have \$3.5 million more than they need in the fund. Considering the 25%
- increase that Providence Water is seeking, I think this is excessive.

# 11 Q: What do you propose for the IFR spending allowance?

A: I have proposed an annual allowance of \$20,000,000. This is a \$4,000,000 in
crease over the current \$16,000,000 allowance. As shown on my attached Sched-

ule CW-S9C, my proposal would provide for an ending reserve balance in FY 2015

in excess of \$1,500,000. The \$20,000,000 of annual rate funded IFR money I have

proposed plus the \$1,500,000 carryover will provide \$21,500,000 of funding in FY

2016 without any additional bond sale and assuming no slippage in the aggressive

construction schedule that Providence Water has proposed. The response to

KCWA 2-7 shows the cash funded projects in FY 2016 drops by almost \$2,000,000

from the FY 2015 amount.

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- The updated IFR plan that Providence Water has provided is a major change from
- the prior plan prepared in December 2010. Significant changes are being proposed
- in the operations of the treatment facilities. The lead pipe service replacement pro-
- gram that had \$8 million per year of annual spending has been abruptly curtailed. I
- believe it is prudent to ask Providence Water to begin its new plan with sufficient
- funding through FY 2015. If this new plan is still in place and on schedule in anoth-
- er 12 to 18 months, Providence Water can submit an abbreviated filing for additional
- 8 IFR funds if they are still needed and the plan has not changed.

## 9 Q: Aren't you concerned that the fund balance going into FY 2016 is too small?

- 10 A: I am not. First, Providence Water's 2010 IFR Plan (Div DR 1-31, page ES-5) never
- shows a fund balance in the \$7,500,000 range now proposed by Providence Water.
- In fact, the balances of \$0.3 million, \$3.8 million, \$2.2 million, and -\$0.56 million are
- far more in line with the \$1.5 million balance I have presented for the end of FY
- 14 **2015**.

- Perhaps more importantly, the response to KCWA 3-1 included the minutes to sev-
- eral Board meetings. The January 16, 2013 minutes (Item 6.3) shows that the
- Board approved a \$55 million line of credit with Century Bank that is "only used to
- provide cash flow to our restricted IFR fund." That line of credit has never been
- mentioned by Providence Water, yet it provides a \$55,000,000 line of credit that is
- 21 available for their new IFR program.

- 1 Q: To be clear, are you recommended any reduction, delay, or slow down to Prov-
- idence Water's proposed IFR program?
- 3 A: No, I am not suggesting any change what-so-ever. I have reflected the full amount
- of spending that was proposed by Providence Water. I have simply recommended
- a reduction to the massive increase in rate revenues because they are not needed
- 6 to fund the program.
- 7 Q: The second capital funding issue you summarized is related to the \$2,450,000
- 8 per year allowance for the Capital Fund. Can you discuss this matter?
- 9 A: While Providence is not requesting any change to the current allowance, they have
- not demonstrated the continued need for \$2,450,000 per year. The sole support for
- this Fund is provided in Mr. Gadoury's Ex. PG-5, where a mere five line items are
- provided and nearly all the proposed expense is for a single item "New PW Cen-
- 13 tral Operations Facility."
- As shown on HJS-S9A, this restricted fund is proposed to have an ending balance
- in FY 2015 of \$4,607,230. Putting aside that nearly all of the proposed expendi-
- tures are for a somewhat nebulous project that has had no prior review, this \$4.6
- million balance is almost twice the projected annual expenses from this fund! Fur-
- ther, (according to the debt schedules provided in response to KCWA 2-4) all the
- 20 annual debt service expenses paid from this account end in FY 2015 some
- \$240,000 per year of debt service goes to \$0 in FY 2016.

The Capital Fund does not need a \$4.6 million cash balance going into FY 2016.

2 Q: Has Providence Water demonstrated that this new building is needed?

3 A: Absolutely not. The Kent County Water Authority is familiar with requests to the 4 Commission for new facilities, having requested funding for a new facility in Docket 5 3311. The basis for Kent County's request was a study performed by the same firm 6 that performed the study for Providence Water – CDM (now CDM-Smith). In Dock-7 et 3311, the Kent County Water Authority submitted a detailed capital plan (that included the study recommending a new facility) along with prefiled testimony from 8 9 the engineer that had performed the study. That study enumerated numerous reasons for the new facility for KCWA and provided a detailed estimate of the cost --10 \$4,612,500. Based on his review of detailed information on KCWA's proposed new 11 12 facility that was supplied as part of KCWA's filing, Mr. Aberico Mancini offered testimony on behalf of the Division in that docket that recommended deferral of the 13 new facilities. Considering the Division's position in Docket 3311, I am not sure how 14 15 the Division could support a \$39 million expense in this docket where there is virtu-

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I have mentioned the Authority's request for new facilities in Docket 3311 because of the sharp contrast between the detailed information submitted by KCWA in support of its request and the complete lack of information submitted by Providence in this docket. Mr. Spinelli, the General Manager, does not even mention the new facility in his testimony. In 16 pages of testimony, Mr. Gadoury, the retired Director of

ally no supporting information provided by Providence Water.

- Engineering, does not mention the need for the new facility. The only indication that
- 2 Providence was looking for funding for a new facility is buried on the last line of the
- last exhibit (PG-5) attached to Mr. Gadoury's testimony where it is indicated that
- \$12 million is proposed for "New PW Central Operations Facility." Were it not for
- the data requests in this docket we would have nothing more than that \$12 million
- 6 on Exhibit PG-5.

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#### 7 Q: Have you gathered any additional information on this proposed facility?

- 8 A: Yes, through data requests KCWA 2-5 and KCWA 2-15 we have discovered a bit
- 9 more information about this multi-million dollar proposal.
  - "Providence Water has for some time recognized the need." (KCWA 2-5)
  - Based on the memo to the Board attached to KCWA 2-15, Providence
     Water has known about this "need" since at least 2009, and in 2010 asked
     the Board for approval to "seek Division approval for long term debt to be used to acquire a central administration building."
  - Apparently Providence Water has conducted several studies over several years on this matter (attachment to KCWA 2-15)
  - "The most recent comprehensive study was completed by Camp Dresser
     & McKee (CDM)" in August 2009.
  - Because the Fruit Hill Ave. bonds were paid for from the Capital Fund and they were paid off in 2009, Providence Water intended to just bury this new expenditure within prior authorized amounts intended for capital projects that had been reviewed and approved by the Commission; however,

- this was NOT one of those projects that received prior review and approval.
  - The \$2,400,000 included in this filing was based on bonding the "high estimated cost" of \$39,000,000 over 30 years at a 4.5% interest rate. (Attachment to KCWA 2-15)
    - Unlike KCWA that provided a full engineering report plus written and oral
      testimony from the engineer as part of its filing in Docket 3311, Providence
      Water has only provided two pages of an executive summary to a phase II
      report, and that was only provided after a data request.
    - The two page executive summary provided by Providence Water presents five possible locations with the following range of costs (attachment KCWA 2-15)

13	<u>Site</u>	Low Estim.	High Estim.
14	Dike Street (T&D)	\$16,210,000	\$23,250,000
15	Gorham Site (Admin/T&D)	\$30,000,000	\$39,500,000
16	Cranston (Admin)	\$9,400,000	\$11,700,000
17	Cranston (T&D)	\$14,350,000	\$19,600,000
18	Nuetaconkaunut (T&D)	\$14,300,000	\$19,600,000

## 20 Q: What is your recommendation for funding of the Capital Fund?

- 21 A: I am recommending that funding for the Capital Fund be reduced to \$0 in this dock-
- et. Providence Water has the obligation to demonstrate the need for various reve-
- 23 nue requirements. In this case they have essentially provided no documentation to
- support an annual allowance of \$2,400,000 for an expenditure of more than

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- \$39,000,000. The Providence Water Board authorized a filing with the Division in
- 2 2010 and this has yet to be made.
- 3 Q: Are you recommending the elimination of the capital fund and all its projects?
- 4 A: No I am not. I am only recommending that the Commission deny any additional
- funding for a new facility until Providence Water provides some documentation for
- this request that can be evaluated by the parties. As shown on my Schedule CW-
- S9A, there will be in excess of \$8,000,000 in the restricted capital fund at the end of
- 8 FY 2015; that is far more than what is needed for the other capital projects.
- 9 Q: You also mentioned that Providence Water has not included any allowance
- 10 for the one-time increase in cash flow that would result from the change to
- monthly billing. Can you discuss this?
- 12 A: Providence Water has proposed to increase its billing frequency from quarterly bill-
- ing to monthly billing. As noted in the response to KCWA 2-12, Providence Water
- agrees that there will be an increase in "cash flow" and has suggested that the addi-
- tional funds could be used to fund its operating cash.
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- 17 It really does not matter how this is termed a one-time revenue increase or an im-
- proved cash flow the point is that Providence Water will collect more revenues
- over a three month period as a result of the increased billing frequency. Over the
- first 12 months under monthly billing, Providence Water will bill and collect an addi-
- tional \$2.2 to \$2.7 million over what it would bill and collect under the current quar-

terly billing. This is a one-time increase in collections (or cash flow), and will only occur in the first year of the billing conversion. Nonetheless, this increase in cash should be accounted for and reflected in the development of the overall revenue requirements for Providence Water. As shown in the attachment to KCWA 2-12 Providence Water has estimated that the accelerated billing will generate nearly \$2.2 million at the current rates and in excess of \$2.7 million at the 25% increase in rates they have proposed.

#### 8 Q: What do you propose be done with this \$2 million plus increase in cash flow?

A: In effect, it will provide additional operating revenue. Providence Water has requested a 3% operating reserve allowance (\$2,141,547), with 2% restricted for the rate stabilization account (\$1,427,698) and 1% unrestricted as an operating revenue allowance (\$713,849).

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Rather than grant a 3% operating revenue allowance (2% restricted/1% unrestricted), I propose that the additional funds generated by the switch to monthly billing be reflected in the calculation of the operating revenue allowance in this docket. Assuming \$2,400,000 of additional revenues<sup>18</sup>, this amounts to \$800,000 per year if amortized over three years<sup>19</sup>. This \$800,000/year in combination with a 2% overall allowance will provide Providence Water with slightly more than the 3% overall allowance it has requested. As shown on my Schedule CW-S15, I have proposed

<sup>&</sup>lt;sup>18</sup> Between the \$2.2 with no increase and the \$2.7 with an increase shown in the response to KCWA 2-12

<sup>&</sup>lt;sup>19</sup> The same period I have proposed for amortizing rate case expenses.

- splitting the 2% allowance so that 2/3 is restricted and 1/3 is unrestricted just as Mr.
- 2 Smith did on his Schedule HJS-S15.

#### 3 Q: What is the effect of your recommendation?

- 4 A: As shown on Schedule CW-S2, I am recommending a restricted stabilization depos-
- it of \$859,513 plus an unrestricted operating revenue allowance of \$429,757, for a
- total of \$1,289,270. This is 2% of the overall revenue requirements (net of miscel-
- laneous revenues). If I add the \$800,000 of one-time cash flow increase
- 8 (\$2,400,000 over three years), this provides an overall (restricted plus unrestricted)
- allowance of about 3% -- the same as requested by Providence Water.

# 10 Q: Do you agree with Providence Water's claim for \$387,693<sup>20</sup> of annual regulato-

## ry and rate case expenses?

- 12 A: No I do not. The basis for this claim is included in Schedule HJS-S7. The \$387,693
- claim is made up of two parts: (1) \$233,622 of current rate case costs amortized
- over two years (\$116,811 per year), and (2) \$270,882 of pro forma or ongoing regu-
- 15 latory costs.

- I disagree with two elements of the claimed regulatory expenses: (1) the two year
- amortization period that was proposed for the current docket and (2) the amount of
- the pro forma or normal other regulatory expenses.

<sup>&</sup>lt;sup>20</sup> Schedule HJS-S7 shows \$387,693 while HJS-S2 shows \$387,692.

- 1 Q: Please discuss your disagreement with the two year amortization of the costs
- of the current docket.
- 3 A: Prior to this filing on March 29, 2013, Providence Water filed rate case as follows:
- Docket 4061 filed 4/30/2009
- Docket 3832 filed 3/30/2007
- Docket 3684 filed 6/30/2005
- Docket 3446 filed 7/1/2002
- This is the fourth rate case filed since Docket 3446. The average time between rate
- cases is nearly three years. I have proposed amortizing the cost of this case over
- three years rather than the two proposed by Providence Water.
- 11 Q: What ongoing or pro forma regulatory expenses claimed by Providence Water
- do you disagree with?
- 13 A: Providence Water has included just over \$40,000 of regulatory expenses that I be-
- lieve are not ongoing or annual or they are not appropriate for recovery in the pro-
- posed rates. These items include:

Docket 4061/Conservation Rate Filing	\$ 8,593
Bond Filing/Bond Refunding	10,596
Regional Water District	9,609
Hydrant Fees	9,033
New Headquarters	2,171

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- 17 The Docket 4061 rate filing was in April 2009, that cost will have been fully amor-
- tized well before the rate year.

There is no testimony regarding any new bond filing or bond refunding. In addition,

these costs are typically recovered through the bonds proceeds as part of the issu-

ance costs, so it would be inappropriate to recover them again in the rates. Further,

Providence Water has also included \$6,500 for the "Bond Filing \$33 Million" that I

have not excluded. This appears to be a classic example of double counting.

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Providence Water has included \$9,609 for the "Regional Water District". Despite

Providence Water's protestations in the response to KCWA 2-14, there is no evi-

dence in this case regarding the proposed legislation and there is certainly no testi-

mony as to how it will benefit the rate payers. Section 46-32-6 of the proposed

Ocean State Regional Water Authority Act (2013 – H 6099) only provides for one of

nine board members to represent the wholesale customers while these customers

use about half the total water. Section 46-32-10 (1) allows the Authority to "pur-

chase, lease, or lease-purchase" assets; the payment(s) for these assets would

presumably be to the City of Providence and have no benefit to any rate payers

outside the City of Providence.

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The \$9,033 included for "Hydrant Fees" was an old case and is not recurring except

as those fees are updated as part of a normal rate filing. Those fees are proposed

to be updated in this docket and past costs for an older docket are not properly in-

cluded as an ongoing regulatory expense.

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- Lastly, the \$2,171 of regulatory costs for the "New Headquarters" should be disal-
- lowed. The Board authorized the staff of Providence Water to obtain approval from
- the Division for the sale of bonds three years ago to date nothing has been done.
- As discussed earlier, no costs should be allowed for this matter; no evidence has
- 5 been provided<sup>21</sup> to support it.

#### 6 Q: What is your recommendation in regards to the regulatory expenses?

- 7 A: I recommend that Providence Water provide the actual costs of this docket and that
- those costs be amortized over three years. For purposes of my schedules, I have
- 9 accepted the current estimate from Providence Water for the "Full Rate Filing" (con-
- sultant expenses) and for Division expenses; however, I have reduced the estimat-
- ed legal expenses from \$73,632 proposed by Providence Water to \$65,000. Ac-
- cording to the response to KCWA 2-16, legal costs have been less than \$60,000
- over the past two dockets. I believe the increase to \$65,000 I have provided is
- more in line with those past legal amounts than the \$73,632 suggested by Provi-
- dence Water.

- In addition, I recommend that the claimed pro forma costs for the five items dis-
- cussed above be denied. In summary, I believe the following should be allowed
- 19 (subject to an updating of the costs for the current docket):

<sup>&</sup>lt;sup>21</sup> In response to this testimony, it can be expected that Providence may submit rebuttal testimony to try and support this venture. Any evidence regarding a \$39,000,000 facility should have been included in the direct filing and not surrebuttal testimony after the opportunity for full and meaningful discovery has passed.

1	Pro Forma (ongoing):	\$230,880
2	Current Docket (3 yr amort):	\$74,997
3	Total:	\$305,877

- 4 Q: How does the \$305,877 you propose for regulatory expenses compare to
- 5 Providence Water's past regulatory expenses?
- 6 A: Based on their response to KCWA 2-13, Providence Water's cost for regulatory ex-
- penses has averaged \$264,822 over the past five years. My recommendation of
- \$ \$305,877 is more than \$41,000 greater than their recent average and a 15% in-
- 9 crease over their historic average.
- 10 Q: Are the any other revenue requirement issues you would like to address?
- 11 A: As I have indicated, I expect to have additional recommendations on the overall
- revenue requirement after I have reviewed the Division and other intervenor pre-
- 13 filed direct testimony.

## 14 Rate Design

- 15 Q: The final issue you mentioned regards rate design. Can you discuss this mat-
- 16 **ter?**
- 17 A: While KCWA is not directly impacted by the retail rate design and the adoption (or
- not) of the retail conservation rates that were provided in the filing, the proposed
- wholesale conservation rate structure would impact the Authority.

As Mr. Smith points out in his direct testimony, the intent of conservation rates is to send a price signal to customers to curtail discretionary uses. This price signal is

sent through higher rates for those discretionary uses.

To determine discretionary use, it is often helpful to examine changes in water use over the year. By examining the changes in use, one can see the variations from month to month, with the higher or peak uses in the summer typically being indicative of discretionary outdoor or irrigation uses.

In response to Div 1-7, Providence Water provided "monthly" sales data from July 2008 through March 2013 for the retail and wholesale accounts. It needs to be noted that the information for the wholesale accounts is understood to reflect real monthly use, while the data for the retail accounts is really <u>quarterly billings</u>, and not monthly use. In the response to KCWA 2-2, Providence Water notes that only 0.12% of its retail accounts are actually billed monthly. As a result, we do not have real monthly use data for the retail accounts. Because the use data for retail accounts is really quarterly use, any true peak or maximum monthly demand data is masked.

With that limitation understood, I looked at the ratio of actual "monthly" use to average use for the retail customers. As expected, the residential customers typically had the highest uses in the September or October billings (presumably for use in the June – September period). This was typically true for the commercial retail ac-

counts as well. In many years, the ratio of peak to average use for commercial accounts was the same or even greater than the residential peak to average ratios.

To me, this suggests that the commercial retail customers are just as likely to have high discretionary uses in the summer as the residential accounts. The industrial accounts had their peaks demands in August, and the ratio of their peak to average demand was not dissimilar to the ratios of the other classes. In fact, the highest ratio of peak to average use was the industrial class in August 2012. Based on this rather crude<sup>22</sup> analysis, I see no reason why only the residential class should be subject to a conservation rate. It seems that there is considerable discretionary use among the other retail classes as well.

Looking at the wholesale customers, the structure of the rates being charged by Providence to the wholesale customers do not impact individual users where discretionary use can be targeted. As I noted above, the demands provided for the wholesale customers are real monthly demands; they are not dampened or modulated though quarterly billing. The maximum ratios for the wholesale customers are less than the retail classes and the minimum ratios are greater than those of the retail classes; the wholesale customers exhibit a better load or peak factor than do the retail customers.

<sup>&</sup>lt;sup>22</sup> While admittedly crude, there was <u>no</u> analysis by Providence Water to support its claims

- In short, there does not seem to be any support for Mr. Smith's claim (KCWA 2-3)
- that the "demands for wholesale customers have generally been comparable to
- those of the entire retail class." The maximum months are not as large for the
- 4 wholesale class as they are for the retail class and the minimum months are not as
- 5 low.

#### 6 Q: Doesn't the proposed conservation rate benefit your client, the Kent County

#### 7 Water Authority?

- 8 A: Yes it does. As shown on HJS-S30, Kent County would be the biggest beneficiary
- of the conservation rates they would see the biggest savings with no use at the
- proposed highest conservation rate.

## 11 Q: Do you agree with the position of Providence Water regarding the adoption of

#### conservation rates?

- 13 A: I do not. First, I do not believe the evidence provided by Providence Water in this
- docket supports the adoption of a conservation rate for retail residential users and
- no conservation rate for the non-residential retail users. If anything, the evidence
- suggests that all retail customers should all be treated the same and they should all
- have a conservation rate imposed on their discretionary uses. I believe that that
- monthly use data that Providence Water will have after the adoption of monthly bill-
- ing will assist with the development of appropriate conservation rates for all of its re-
- 20 tail customers.

- Regarding the wholesale customers, I also do not believe it is appropriate to assess
- a conservation rate at this time. While Mr. Smith's proposal seems well conceived
- to capture the gross impact of wholesale discretionary uses, it is unclear how or if
- 4 the wholesale customers could or would pass this "incentive" along to its customers.
- 5 Further, it would make no sense to implement a wholesale conservation rate and no
- retail conservation rate where there is a direct impact on the end users.

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- With some additional time and data I am confident that Mr. Smith can examine this
- 9 issue in some greater detail to look at where the rate blocks should be set, he can
- examine methods whereby incentives to reduce discretionary use by non-residential
- retail customers can be provided, and he can get input from the wholesale custom-
- ers as to how wholesale incentives can be derived and passed on to their retail cus-
- tomers.

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- 15 The conservation alternative that has been put forth by Providence Water is a good
- initial step; however, I agree with them that this is not the time.

### 17 Exhibits

- 18 Q: Did you prepare an exhibit that presents your recommendation on revenues
- requirements and rates?
- 20 A: Yes. I have used the spreadsheet that was provided by Mr. Smith to maintain con-
- sistency. I have re-labeled his schedules as "CW-S##" to identify the schedules I
- prepared. In addition, I have tried to highlight the cells I have modified in yellow so

- they can be more easily identified; however, a change in one cell will impact many
- others.

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- On the attached set of schedules I have included a number of portions of the
- spreadsheet that were not provided in the initial filing but are relevant because they
- 6 contain back-up information. As has been the custom in these cases, I have also
- 7 provided electronic copies of my updated spreadsheet to the other experts --
- 8 Messrs. Smith, Catlin, Mierzwa, and Russell. I will gladly provide copies to any oth-
- 9 er party that asks as well.

### 10 Q: Does this complete your testimony?

- 11 A: As I have indicated, I would like to review any adjustments proposed by the other
- parties and outstanding data requests, and perhaps include some of them in my
- calculations. At the time I completed the preparation of this testimony there were a
- number of data requests that were still outstanding. New information included in the
- responses to these data requests may necessitate further revisions.

Schedule CW-S1

Schedule CW-S1										
Cost of Service Summary							Additional			
	Adjus	ted	Con	nbined	Pro-Form	na	Revenue		Pro-Forma	
	Test \	∕ear	Adju	ustments	Old Rates	S	Generated		New Rates	
Revenue										
Service Charge	\$	5,779,434	\$	_	\$	5,779,434	\$	1,686,450	\$	7,465,884
Retail Sales	\$	32,253,695		_	\$	32,253,695		4,279,500		36,533,195
Wholesale Sales	\$	16,569,289	Ψ		\$	16,569,289	\$	(662,895)		15,906,394
Private Fire Protection	\$	2,290,098			\$	2,290,098	\$	338,145		2,628,243
			ф				•			
Retail FPSC	\$	1,095,131	Ф	-	\$	1,095,131		626,779	\$	1,721,910
Public Fire Protection	\$	960,983			\$	960,983		546,689	\$	1,507,672
Miscellaneous Revenue	\$	1,179,169	\$	-	\$	1,179,169		-	\$	1,179,169
Other	\$	-			\$	-	\$	-	\$	-
TOTAL REVENUE	\$	60,127,799	\$	-	\$	60,127,799	\$	6,814,668	\$	66,942,467
Total Rate Revenues	\$	58,948,630	\$	-	\$	58,948,630	\$	6,814,668	\$	65,763,298
Evnences										
Expenses	•	07 074 705	•	0.044.505	•	00 000 000			•	00 000 000
Operations and Maintenance	\$	27,871,725		2,011,535		29,883,260			\$	29,883,260
Insurance	\$	1,959,648		124,943		2,084,590			\$	2,084,590
Chemical & Sludge	\$	3,124,965		, ,	\$	5,458,942			\$	5,458,942
City Service	\$	839,167		-	\$	839,167			\$	839,167
Property Taxes	\$	5,945,492	\$	603,519	\$	6,549,011			\$	6,549,011
Capital Reimbursement	\$	(834,389)	\$	-	\$	(834,389)			\$	(834,389)
Net Operations	\$	38,906,608	\$	5,073,973	\$	43,980,581			\$	43,980,581
Capital Fund	\$	2,450,000	\$	(2,450,000)	\$	-			\$	-
Western Cranston	\$	62,069	\$	-	\$	62,069			\$	62,069
Infrastructure Replacement Fund	\$	16,000,000	\$	4,000,000	\$	20,000,000			\$	20,000,000
Cash-Funded AMR/Meter Repl. Fund	\$	1,000,000	\$	· · ·	\$	1,000,000			\$	1,000,000
Equipment Replacment Fund	\$	600,000		_	\$	600,000			\$	600,000
Property Tax Refund Fund	\$	-	\$	_	\$	-			\$	-
Stabilization Fund (Restricted)	\$	1,113,852		(254,339)		859,513			\$	859,513
Capital	\$	21,225,921	\$	1,295,661	\$	22,521,582			\$	22,521,582
·	•	, ,		, ,		, ,			Ť	
TOTAL EXPENSES	\$	60,132,529	\$	6,369,634	\$	66,502,163			\$	66,502,163
Operating Reserve (Unrestricted)	\$	578,395			\$	429,757			\$	429,757
Revenues Over (Under) Expenses	\$	(583,125)	)		\$	(6,804,121)			\$	10,548
Total Increase to Break-Even Rate Revenue Increase to Break-Even					\$	10,548				11.32% <b>11.54%</b>

		Adjusted		Rate Year	Additional	Proforma
ACCOUNT	TITLE	Test Year	Note	Adjustments	Adjustments	Rate Year
Source of Supply						
60110	Salaries + Wages - Emp	\$ 619,326	Α	\$ 28,148	\$ -	\$ 647,474
60120	Salaries + Wages - Emp	448,278	Α	20,374	-	468,652
60320	Sal. + Wages - Officers, Dir	-		-	-	
60410	Employee Pension + Ben	168,591	D	2,938	-	171,529
60420	Employee Pension + Ben	188,577	D	3,287	-	191,86
61510	Purchase Power	-		-		
61610	Fuel for Power Purch	-		-	-	
62010	Material + Supplies	18,958	1	1,209	-	20,16
62020	Material + Supplies	73,286	1	4,673	-	77,95
63110	Contractual Services - Engineer	2,460	1	157	-	2,617
63120	Contractual Services - Engineer	-		-	-	
63310	Contract Services -Legal	18,238	1	1,163	-	19,40
63420	Contractual Services - Mgt. Fees	-		-	-	
63510	Contractual Services - Other	419,915	1	26,773	-	446,68
63520	Contractual Services - Other	31,771	1	2,026	-	33,79
64210	Rental of Equipment	-		-	-	
64220	Rental of Equipment	-		-	-	
65010	Transportation Exp.	146	1	9	-	15
65020	Transportation Exp.	-		-	-	
67510	Misc. Expenses	69,132	1	4,408	-	73,54
67520	Misc. Expenses	4,550	1	290	-	4,84
	Total Source of Supply Expense	\$ 2,063,227		\$ 95,454	\$ -	\$ 2,158,68
	Che	ck \$ -				

			Adjusted		Rate Year	Additional	Proforma
ACCOUNT	TITLE		Test Year	Note	Adjustments	Adjustments	Rate Year
Pumping Expenses							
60123	Salaries + Wages - Emp	\$	-		\$ -	\$ -	\$ -
60126	Salaries + Wages - Emp		-		-	-	-
60423	Employee Pension + Ben		-		-	-	-
60426	Employee Pension + Ben		-		-	-	-
61523	Purchase Power		778,684		-	-	778,684
61623	Fuel for Power Purch		-		-	-	-
62023	Material + Supplies		-		-	-	-
62026	Material + Supplies		-		-	-	-
63123	Contractual Services - Engineer		-		-	-	-
63126	Contractual Services - Engineer		-		-	-	-
63523	Contractual Services - Other		11,629		741	-	12,370
63526	Contractual Services - Other		-		-	-	-
64223	Rental of Equipment		-		-	-	-
64226	Rental of Equipment		-		-	-	-
65023	Transportation Exp.		-		-	-	-
67523	Misc. Expenses		-		-	-	-
67526	Misc. Expenses		-		-	-	-
	Total Pumping Expenses	9	790,313		\$ 741	\$ -	\$ 791,054
		Check	-				

			Adjusted		F	ate Year	Additional	Proforma
ACCOUNT	TITLE		Test Year	Note	Ac	ljustments	Adjustments	Rate Year
Water Treatment Exp	penses							
60130	Salaries + Wages - Emp	\$	2,061,389	Α	\$	93,690	\$ -	\$ 2,155,079
60140	Salaries + Wages - Emp		336,221	Α		15,281	-	351,502
60430	Employee Pension + Ben		606,264	D		10,567	-	616,830
60440	Employee Pension + Ben		134,901	D		2,351	-	137,253
61530	Purchase Power		226,424	I		-	-	226,424
61630	Fuel for Power Purch		230,829	I		14,717	-	245,547
61830	Chemicals		-			-	-	-
62030	Material + Supplies		124,833	I		7,959	-	132,792
62040	Material + Supplies		67,060	I		4,276	-	71,336
63130	Contractual Services - Engineer		-			-	-	-
63240	Contract Services - Acctg		-			-	-	-
63430	Contractual Services - Mgt. Fees		-			-	-	-
63530	Contractual Services - Other		141,797	I		9,041	-	150,838
63540	Contractual Services - Other		85,680	I		5,463	-	91,143
64140	Rental Buildg/Real Prop		-			-	-	-
64230	Rental of Equipment		-			-	-	-
64240	Rental of Equipment		-			-	-	-
65030	Transportation Exp.		5,806	I		370	-	6,176
65640	Insurance Vehicle		-			-	-	-
65830	Insurance - W/C		-			-	-	-
65840	Insurance - W/C		-			-	-	-
66730	Regularoty Com ExpOther		-			-	-	-
67530	Misc. Expenses		96,719	1		6,167	-	102,885
67540	Misc. Expenses		2,027	I		129	-	2,156
	Total Treatment Expense	\$	4,119,951		\$	170,010	\$ -	\$ 4,289,961
	Chec	k	-					

60160 Sal 60250 Pay 60260 Pay 60260 Em 60450 Em 60460 Em 60550 Ove 60560 Ove 61550 Pur 62050 Mar 62060 Mar 62560 Inve 63150 Cor 63350 Cor 63460 Cor 63550 Cor	laries + Wages - Emp laries + Wages - Emp lyroll Clearing -Emp lyroll Clearing -Emp liployee Pension + Ben liployee Pension + Ben lerhead Rate Applied lerhead Rate Applied lyrohase Power lterial + Supplies	<u> </u> T	988,520 2,246,239 - 241,316 846,629	A,U A A D, U D	Adju	44,928 102,092 - - 4,206 14,756	\$ 85,030 - - - 42,515	\$
60150 Sal 60160 Sal 60250 Pay 60260 Pay 60450 Em 60450 Ove 60550 Ove 61550 Pur 62050 Ma 62060 Ma 62560 Inve 63150 Cor 63350 Cor 63550 Cor 63560 Cor	laries + Wages - Emp laries + Wages - Emp lyroll Clearing -Emp lyroll Clearing -Emp liployee Pension + Ben liployee Pension + Ben lerhead Rate Applied lerhead Rate Applied lyrohase Power lterial + Supplies	\$	2,246,239 - 241,316 846,629 -	A A D, U	\$	102,092 - - 4,206	- -	\$ 2,348,330 288,037
60160 Sal 60250 Pay 60260 Pay 60260 Em 60450 Em 60460 Ove 60550 Ove 61550 Pur 62050 Ma 62060 Ma 62560 Inve 63150 Cor 63350 Cor 63460 Cor 63550 Cor 63560 Cor	laries + Wages - Emp yroll Clearing -Emp yroll Clearing -Emp uployee Pension + Ben uployee Pension + Ben erhead Rate Applied erhead Rate Applied rchase Power terial + Supplies	\$	2,246,239 - 241,316 846,629 -	A A D, U	\$	102,092 - - 4,206	- -	\$ 2,348,330
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60260 Pay 60450 Em 60460 Em 60550 Ove 60560 Ove 61550 Pur 62050 Ma 62060 Ma 62560 Inve 63150 Cor 63350 Cor 63460 Cor 63550 Cor 63560 Cor	yroll Clearing -Emp uployee Pension + Ben uployee Pension + Ben erhead Rate Applied erhead Rate Applied rchase Power terial + Supplies		846,629 - -	D, U		·	- - 42,515 -	- - 288,037 861,385
60450 Em 60460 Em 60550 Ove 60560 Ove 60560 Ma 62050 Ma 62060 Ma 62560 Inve 63150 Cor 63460 Cor 63550 Cor 63560 Cor	iployee Pension + Ben iployee Pension + Ben erhead Rate Applied erhead Rate Applied rchase Power terial + Supplies		846,629 - -			·	- 42,515 -	
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60560 Ove 61550 Pur 62050 Ma 62060 Ma 62560 Inve 63150 Cor 63350 Cor 63460 Cor 63550 Cor 63560 Cor	erhead Rate Applied rchase Power terial + Supplies		-					001,303
61550 Pur 62050 Ma 62060 Ma 62560 Invo 63150 Cor 63350 Cor 63460 Cor 63550 Cor 63560 Cor	rchase Power terial + Supplies		-			<del>-</del>	-	-
62050 Mai 62060 Mai 62560 Invo 63150 Coi 63350 Coi 63460 Coi 63550 Coi 63560 Coi	terial + Supplies					-	-	-
62060 Mai 62560 Invo 63150 Coi 63350 Coi 63460 Coi 63550 Coi 63560 Coi	• •		12,019			-	-	12,019
62560 Invo 63150 Cor 63350 Cor 63460 Cor 63550 Cor 63560 Cor			269,822	I		17,203	-	287,025
63150 Coi 63350 Coi 63460 Coi 63550 Coi 63560 Coi	terial + Supplies		-			-	-	-
63350 Coi 63460 Coi 63550 Coi 63560 Coi	entory Clearing		-			-	-	-
63460 Coi 63550 Coi 63560 Coi	ntractual Services - Engineer		36,120	I, U		2,303	290,000	328,423
63550 Coi 63560 Coi	ntractual Services - Legal T&D0		-			-	-	-
63560 Cor	ntractual Services - Mgt. Fees		-			_	-	-
	ntractual Services - Other		453,727	I		28,929	-	482,656
64150 Rei	ntractual Services - Other		65,018			4,145	-	69,164
	ntal Buildg/Real Prop		-			-	-	-
64160 Rei	ntal Buildg/Real Prop		-			-	-	-
64250 Rei	ntal of Equipment		-			-	-	
	ntal of Equipment		-			-	-	
65050 Tra	ansportation Exp. T&D		2,748	I		175	-	2,923
66750 Reg	gulatory Com Exp - Other T & D		-			-	-	
66760 Reg	gulatory Com Exp - Other T & D		-			-	-	
•	sc. Expenses		37,994	I		2,422	-	40,416
	sc. Expenses		-			-	-	
Tot	tal Transmission & Distribution	\$	5,200,152		\$	221,159	\$ 417,545	\$ 5,838,857

			Adjusted		R	ate Year	Additional	F	Proforma
ACCOUNT	TITLE		Test Year	Note	Ad	justments	Adjustments	F	Rate Year
<b>Customer Account</b>	ts Expense:								
60170	Salaries + Wages - Emp	\$	1,916,813	A,M	\$	87,119	42,452	\$	2,046,384
60270	Payroll Clearing -Emp		-			-	0		-
60470	Employee Pension + Ben		721,692	D,M		12,578	21,226		755,496
60570	Overhead Rate Applied		-			-	0		-
61670	Fuel for Power Purch		-			-	-		-
62070	Material + Supplies		2,467	I		157	-		2,624
63370	Contractual Services - Legal		-			-	-		-
63570	Contractual Services - Other		10,979	I		700	-		11,679
65070	Transportation ExpCAO		1,012	I		65	-		1,077
65870	Insurance - Other		-			_	-		-
65970	Insurance Other		-			_	-		-
67070	Bad Debt Expense - CAO		445,333	I		28,393	-		473,727
67570	Misc. Expenses		194,180	I, M		12,381	319,015		525,576
	Total Customer Accounts	\$ Check	3,292,477		\$	141,393	\$ 382,693	\$	3,816,563

		Adjusted		Rate Year	Additional	Proforma
ACCOUNT	TITLE	Test Yea	r Note	Adjustments	Adjustments	Rate Year
Administrative and	General					
60180	Salaries + Wages - Emp	\$ 5,499,	360 A	\$ 249,946	\$ -	\$ 5,749,306
60280	Payroll Clearing -Emp		-	-	-	-
60380	Salaries + wages - Officers, Dir.		- A	-	-	-
60480	Employee Pension + Ben	4,605,	608 D	80,271	-	4,685,879
60580	Overhead Rate Applied		- I	-	-	-
61580	Purchase Power	113,	972 l	-	-	113,972
61680	Fuel for Power Purch		- I	-	-	-
62080	Material + Supplies	515,	672 l	32,878	-	548,550
63180	Contractual Services - Engineer	45,	262 l	2,886	-	48,148
63280	Contract Services - Acctg		- 1	-	-	-
63380	Contractual Services - Legal	50,	841 I	3,242	-	54,083
63480	Contractual Services - Mgt. Fees		- 1	-	-	-
63580	Contractual Services - Other	982,	614 I, M	62,649	49,000	1,094,263
64180	Rental Buildg/Real Prop		- 1	-	-	-
64280	Rental of Equipment		- 1	-	-	-
65080	Transportation Exp.	6,	390 I	407	-	6,797
65780	Ins. Gen. Liability		- I	-	-	-
65880	Insurance - W/C		- I	-	-	-
65980	Insurance Other		- I	-	-	-
66080	Advertising Expense		- I	-	-	-
66680	Reg Com Exp - Amort of Rate Case		- I	-	-	-
66780	Regulatory Com ExpOther	227,	469 E	78,407	-	305,876
67580	Misc. Expenses	358,	418 I	22,852	-	381,270
	Total Administration + General	\$ 12,405,	606	\$ 533,538	\$ 49,000	\$ 12,988,144
	Chec	k \$	-			

			Adjusted		Rate Year	Additional	Proforma
ACCOUNT	TITLE		Test Year	Note	Adjustments	Adjustments	 Rate Year
	<b>Total Operation &amp; Maintenance</b>		27,871,725		\$ 1,162,297	\$ 849,238	\$ 29,883,260
Source of Supply		\$	2,063,227		\$ 95,454	\$ -	\$ 2,158,681
Pumping			790,313		741	-	791,054
Treatment			4,119,951		170,010	-	4,289,961
Transmission & Distr	ib.		5,200,152		221,159	417,545	5,838,857
Customer Accounts			3,292,477		141,393	382,693	3,816,563
Administration & Ger	neral		12,405,606		533,538	49,000	12,988,144
Total Operation & Mair	ntenance	\$	27,871,725		\$ 1,162,297	\$ 849,238	\$ 29,883,260
Full O&M		\$	27,871,725		\$ 1,162,297	\$ 849,238	\$ 29,883,260
857 Insurance Fund							
65840	Insurance W/C - WTM	\$	-		\$ -	\$ -	\$ -
	Insurance W/C - CAO		-		-	-	-
	Materials + Supplies - A&GO		17,602	С	1,122	-	18,724
	Contractual Services-Engineer		-		-	-	
	Contract Services - Legal A&GO		-	С	-	-	-
63580	Contract Services - Other A&GO				-	-	
	Injuries and Damages		54,528	С	3,477	-	58,005
	Ins. Gen. Liability		-		-	-	
	Insurance-Other A&GO		1,006,353	С	64,163	-	1,070,516
	Insurance - W/C		874,015	С	55,725	-	929,740
	Bad Debt Expense-CAO			•	-	-	- 
67580	Misc. Expense		7,150	С	456	-	7,606
	Funding Requirement						-
Total Insurance Fund		\$	1,959,648		\$ 124,943	\$ -	\$ 2,084,590
		Check	-				

				Adjusted			Rate Year	Α	dditional		Proforma
ACCOUNT	TITLE			Test Year	Note	1	Adjustments	Αc	ljustments		Rate Year
878 Chemical and Slu	dge Maintenance Fund										
			_		_	_		_		_	
	Chemicals - WTO		\$	2,572,273	F	\$	501,607	\$	-	\$	3,073,881
	Materials + Supplies WTO			-			-		-		-
	Materials + Supplies T&DO Contract Services - Other WTM			- 552,692	F		1,147,308		-		1,700,000
03340				552,692					-		
	Funding Requirement				F		685,061				685,061
Total Chemical and Slu	ıdge Maintenance Fund	•	\$	3,124,965		\$	2,333,977	\$	-	\$	5,458,942
		Check	\$	-							
Tatal OOM			Φ	20.050.220		Φ	0.004.040	Φ	0.40,000	Φ	07 400 700
Total O&M			\$	32,956,338		\$	3,621,216	\$	849,238	\$	37,426,792
Property Taxes- Othe	r Local Goverm.										
40820	Town of North Providence		\$	266,581	В	\$	6,919	\$	-	\$	273,500
40821	Town of Glocester			51,478	В	\$	5,315		-		56,793
40822	Town of West. Glocester			3,708	В	\$	75		-		3,782
40823	Town Harmony			164	В	\$	10		-		174
40824	Town Chepachet			131	В	\$	10		-		141
40825	Town Scituate			5,087,357	В	\$	590,090		-		5,677,446
40826	Town Warwick			-	В	\$	-		-		-
40827	Town of Johnston			90,117	В	\$	6,688		-		96,805
40828	Town of Foster			331,673	В	\$	(17,614)		-		314,059
40829	City of Cranston			110,523	В	\$	12,032		-		122,555
40830	City of West. Warwick			3,761	В	\$	(5)		-		3,756
	Total Property Taxes	-	\$	5,945,492		\$	603,519	\$	-	\$	6,549,011

			Adjusted		Rate Year	A	Additional	Proforma
ACCOUNT	TITLE		Test Year	Note	Adjustments		djustments	Rate Year
	Other Expenditures							
	City Services	\$	839,167		\$ -	\$	-	\$ 839,167
	Total Property Taxes		5,945,492		603,519		-	6,549,011
	Capital Reimbursement		(798,115)		(36,274)		-	(834,389)
	Total Other Expenditures	\$	5,986,544		\$ 567,244	\$	-	\$ 6,553,789
	Capital Fund	\$	2,450,000	G	\$ (2,450,000)	\$	-	\$ -
	Western Cranston Fund (WCWDS Fund)			G	-		-	62,069
	Infrastructure Replacement Fund		16,000,000	G	4,000,000		-	20,000,000
	AMR/Meter Replacement Fund		1,000,000	G	-		-	1,000,000
	Equipment/Vehicle Replacement Fund		600,000	G	-		-	600,000
	Stabiliz. Fund (Rest. Operat. Reserve)		1,113,852	G	(\$254,339)			859,513
	Total Restricted Expenditures	\$	21,225,921		\$ 1,295,661	\$	-	\$ 22,521,582
Total Other & Rest. Expenditures		\$	27,212,465		\$ 1,862,905	\$		\$ 29,075,371
Total		\$	60,168,803		\$ 5,484,122	\$	849,238	\$ 66,502,163
	Unrestricted Operating Reserve			R				\$429,757
<b>Grand Total</b>								\$ 66,931,919

### **Raw Revenue Requirements**

Rate Year Ending December 31, 2014

			Adjusted		Rate Year	Additional	Proforma					
	ACCOUNT	TITLE	Test Year	Note	Adjustments	Adjustments	Rate Year					
	<b>Explanation of Notes</b>											
Α	Schedule CW-S3	Payroll Expense Adjustment										
В	Schedule CW-S4	Property Tax Analysis	operty Tax Analysis									
С	Schedule CW-S5	Insurance Expense Adjustment										
D	Schedule CW-S6	Pension and Other Benefits										
Ε	Schedule CW-S7	Regulatory Commission and Rate Case E	Expense									
F	Schedule CW-S8	Chemical and Sludge Maintenance Exper	nse									
G	Schedule CW-S9	Restricted Fund Adjustments										
U	Additional costs associ	ated with Uni-directional flushing Project										
M	Adjustments associate	d with switching to monthly billing										
R	R Does not include additional \$800,000/yr (estim) from increased cash flow with conversion to monthly billing											
I	Annual Inflation Adjust	ment	2.50%									
	Total Test Year to Rate	e Year Inflation Adjustment	6.38%									

## Schedule CW-S3 Payroll Expense Adjustment

# PROVIDENCE WATER Salaries & Wages

Actual Payroll Expense FY 2012 Normalizing adjustments	\$ 13,314,287 801,859
Adjusted Test Year	\$ 14,116,146
Contractual Increase *	<u>1.04545</u>
Pro-forma amount	\$ 14,757,724
Adjustment	\$ 641,579
%	4.55%

<sup>\*</sup> Source: Union Contract Article VI

3% Increase on July 1, 2013 Per Union Contract 3% Increase on July 1, 2014 Per Union Contract

\*2014 Increase occurs six months into CY 14 and is therefore an effective increase of 1.5% for the 2014 Rate Year.

#### Schedule CW-S3A **Detail Payroll Expense**

#### PROVIDENCE WATER SUPPLY BOARD **Detail Payroll Expense**

ACCOUNT DESCRIPTION		Test Year	ormalize est Year	Adjusted Test Year	,	Actual x 1.0455*		Pro-Forma Adjustment
SOURCE OF SUPPLY 60110 Salaries & Wages - Emp 60120 Salaries & Wages - Emp	\$ \$	581,072 420,589	\$ 38,254 27,689	\$ 619,326 448,278	\$	647,474 468,652	\$	28,148 20,374
60320 Sal & Wages - Officers, Dir TOTAL SOURCE OF SUPPLY		1,001,661	 65,943	1,067,604		1,116,126		48,523
PUMPING								
60123 Salaries & Wages - Emp 60126 Salaries & Wages - Emp			 -	-		<u>-</u>		
TOTAL PUMPING WATER TREATMENT		-	-	-		-		-
60130 Salaries & Wages - Emp		1,934,063	127,326	2,061,389		2,155,079		93,690
60140 Salaries & Wages - Emp TOTAL WATER TREATMENT		315,454 2,249,517	 20,767 148,093	2,397,610		351,502 2,506,581		15,281 108,971
TRANSMISSION & DISTRIBUTION								
60150 Salaries & Wages - Emp		927,462	\$ 61,058	988,520		1,033,449		44,928
60160 Salaries & Wages - Emp 60250 Payroll Clearing		2,107,495	138,744	2,246,239		2,348,330		102,092
60260 Payroll Clearing TOTAL TRANSMISSION & DISTRIBUTION		3.034.957	 199.802	3.234.759		3.381.779		147.020
		3,034,937	199,002	3,234,759		3,301,779		147,020
CUSTOMER ACCOUNT EXPENSE 60170 Salaries & Wages - Emp		1,798,417	\$ 118,396	1,916,813		2,003,932		87,119
60270 Payroll Clearing TOTAL CUSTOMER ACCTS EXPENSE		1,798,417	 118,396	1,916,813		2,003,932		87,119
ADMINISTRATION								
60180 Salaries & Wages - Emp		5,229,735	269,625	5,499,360		5,749,306		249,946
60280 Payroll Clearing 60380 Sal & Wages - Officers, Dir		-	-	-		-		-
TOTAL ADMINISTRATION EXPENSE		5,229,735	 269,625	5,499,360		5,749,306		249,946
O/M LABOR SUMMARY								
SOURCE OF SUPPLY PUMPING		1,001,661	65,943	1,067,604		1,116,126		48,523
WATER TREATMENT		2,249,517	148,093	2,397,610		2,506,581		108,971
TRANSMISSION & DISTRIBUTION		3,034,957	199,802	3,234,759		3,381,779		147,020
CUSTOMER ACCOUNTS		1,798,417	118,396	1,916,813		2,003,932		87,119
ADMINISTRATION		5,229,735	269,625	5,499,360		5,749,306		249,946
TOTAL	\$	13,314,287	\$ 801,859	\$ 14,116,146	\$	14,757,724		641,579
RECAP:								
Test Year							\$	13,314,287
Normalizing Adjustments							\$	801,859
Adjusted Test Year Contractual increases							\$ \$	14,116,146 641,579
Pro-forma CY 2014							\$	14,757,724

<sup>3%</sup> Increase on July 1, 2013 Per Union Contract 3% Increase on July 1, 2014 Per Union Contract 2014 Increase occurs six months into CY 14 and is therefore an effective increase

of 1.5% for the 2014 Rate Year.

#### Schedule CW-S4 Property Tax Analysis

# PROVIDENCE WATER <u>Analysis of Property Taxes</u>

Municipality	E 6/30/2012 Test Year	 AdjustmentsN		Pro-forma Amount *
North Providence	\$ 266,581	\$ 6,919	\$	273,500
*Glocester	\$ 51,478	\$ 5,315	\$	56,793
West Glocester Fire	\$ 3,708	\$ 75	\$	3,782
Harmony Fire District	\$ 164	\$ 10	\$	174
Chepachet Fire District	\$ 131	\$ 10	\$	141
*Scituate	\$ 5,087,357	\$ 590,090	\$	5,677,446
Warwick	\$ -	\$ -	\$	-
Johnston	\$ 90,117	\$ 6,688	\$	96,805
Foster	\$ 331,673	\$ (17,614)	\$	314,059
Cranston	\$ 110,523	\$ 12,032	\$	122,555
West Warwick	\$ 3,761	\$ (5)	\$	3,756
Total Expense	\$ 5,945,492	\$ 591,191	\$	6,549,011
Test Year			\$	5,945,492
Total Adjustment %			\$	603,519 10.15%

Adjustments reflect bills for FY 2014 (per Div 4-7) with additional 2% for 1/2 year

All other amounts are increased by the 4% statutory maximum and averaged to obtain CY 2014 pro forma expense

<sup>\*</sup>Glocester amount per tax treaty, Scituate amount calculated per Tax Treaty. To be adjusted to actual

#### Schedule CW-S4A Property Tax Detail

## PROVIDENCE WATER COMPARATIVE SCHEDULE OF PROPERTY TAXES

Municipality	FIS	SCAL YEAR 2010	FI	SCAL YEAR 2011	F	ISCAL YEAR 2012	FI	ISCAL YEAR 2013	FISCAL YEAR 2014		FISCAL YEAR 2015		CY 2014 Average	
North Providence	\$	238,053	\$	239,090	\$	266,581	\$	266,581	\$	277,244	\$ 288,334	\$	282,789	
*Glocester	\$	53,363	\$	49,380	\$	51,478	\$	53,537	\$	55,679	\$ 57,906	\$	56,793	
West Glocester Fire	\$	3,932	\$	3,932	\$	3,708	\$	3,708	\$	3,856	\$ 4,010	\$	3,933	
Harmony Fire District	\$	155	\$	155	\$	164	\$	164	\$	171	\$ 177	\$	174	
Chepachet Fire District	\$	120	\$	120	\$	131	\$	133	\$	138	\$ 144	\$	141	
*Scituate	\$	5,572,995	\$	4,974,437	\$	5,087,357	\$	5,087,357	\$	5,731,246	\$ 5,960,495	\$	5,845,871	
Warwick	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	
Johnston	\$	88,777	\$	86,695	\$	90,117	\$	90,117	\$	93,722	\$ 97,471	\$	95,596	
Foster	\$	322,994	\$	331,673	\$	331,673	\$	306,694	\$	318,962	\$ 331,720	\$	325,341	
Cranston	\$	105,624	\$	107,568	\$	110,523	\$	118,597	\$	123,341	\$ 128,274	\$	125,807	
West Warwick	\$	4,714	\$	3,761	\$	3,761	\$	3,761	\$	3,912	\$ 4,068	\$	3,990	
Total	\$	6,390,727	\$	5,796,811	\$	5,945,492	\$	5,930,648	\$	6,608,270	\$ 6,872,599	\$	6,740,435	
% Change				-9.29%		2.56%		-0.25%		11.43%	4.00%		-1.92%	
% Change (No Scituate of	or Gloc	cester)		1.13%		4.35%		-2.10%		4.00%	4.00%		-1.92%	

All other amounts are increased by the 4% statutory maximum and averaged to obtain CY 2014 pro forma expense

<sup>\*</sup>Glocester amount per tax treaty, Scituate amount calculated per Tax Treaty

#### Schedule CW-S5 Insurance Expense Adjustment

		Test Year	Ad	justments	_	Pro-Forma Amount *
Worker's Compensation Contract Services - Legal A&GO* Injuries and Damages Property and Casualty Program Expense Safety Supplies & Other	\$ \$ \$ \$ \$	874,015 - 54,528 1,006,353 7,150 17,602	\$ \$ \$ \$	55,725 3,477 64,163 456 1,122	\$ \$ \$ \$ \$	929,740 - 58,005 1,070,516 7,606 18,724
Total Expenses	\$	1,959,648	\$	124,943	\$	2,084,590
Test Year Pro-Forma Adjustment Inflation Adjustment	6.38%				\$ \$	1,959,648 2,084,590 124,943

#### Schedule CW-S6 Pension and Other Benefits

compounded increase used

## PROVIDENCE WATER Pension and Other Benefits

FRINGE BENEFIT	Notes	Test Year FY 2012	Ad	djustment	Pro-Forma Amount	% Increase	Reference
1 1033 Union Combined Benefits	3)	\$ 586,821	\$	24,845	\$ 611,666	4.23%	Per Union Contract
2 Union Pension	4)	331,312		136,542	467,854	41.21%	Per Union Contract
3 Death Benefit Insurance	2)	1,943		124	2,067	6.38%	Adjusted By Inflation
4 Educational Classes/Certification	2)	2,649		169	2,818	6.38%	Adjusted By Inflation
4 FICA	1)	1,014,048		46,139	1,060,187	4.55%	Salary Increase Used
5 State Unemployment Compensation	1)	14,716		670	15,386	4.55%	Salary Increase Used
6 Healthcare EE Cash Payment	2)	9,500		606	10,106	6.38%	Adjusted By Inflation
7 1/2% Wage Assignment	1)	35,820.00		1,630	37,450	4.55%	Salary Increase Used
8 Blue Cross		2,072,201		207,220	2,279,421	10.00%	Estimate
Less Employee Co-Share		(355,216)		(35,522)	(390,738)	10.00%	Estimate
9 Delta Dental		254,556		25,456	280,012	10.00%	Estimate
10 GASB 43/45 Reserve Required		1,230,000		(750,000)	480,000		OPEB Report
11 City Retirement		2,315,228		473,076	2,788,304		Buck Report
Total	•	\$ 7,513,577.79	\$	130,954	\$ 7,644,532		
					\$ 7,513,578		
Adjustment					\$ 130,954		
Notes: 1) Compounded salary increase used 4.55% 2) Adjusted by inflation rate of: 3) 1033 Benefits, per union contracts compounded increase used 4) Union Pension, per Union Contracts	4.55% 6.38% 4.23%						

41.21%

#### Schedule CW-S6A Fringe Allocation to NARUC Accounts

# PROVIDENCE WATER Fringe Allocation to Naruc Accounts

Naruc Account	Test Year FY 2012	Allocation	Pro-forma Adjustment			
60410 60420 60423 60426 60430	\$ 168,591 188,577 - - 606,264	2.24% 2.51% 0.00% 0.00% 8.07%	\$	2,938 3,287 - - 10,567		
60440 60450 60460 60470 60480	134,901 241,316 846,629 721,692 4,605,608	1.80% 3.21% 11.27% 9.61% 61.30%		2,351 4,206 14,756 12,578 80,271		
	\$ 7,513,578	100.00%	\$	130,954		

7,513,577.00

# PROVIDENCE WATER Regulatory Commission and Rate Case Expense

	T	est Year	Р	ro-Forma
Regulatory Commission Expense:				
Docket 4061/Conservation Rate Filing	\$	8,527	\$	-
Bond Filing/Bond Refunding		10,091		- 6 500
Bond Filing \$33 Million Regional Water District		9,151		6,500
Hydrant Fees		8,603		_
New Headquarters		2,068		-
Miscellaneous Legal Matters		9,204		9,665
Miscellaneous PUC Matters		11,834		12,426
Proportionate Share PUC Expenses*		167,992		202,289
				_
Sub-total	\$	227,470	\$	230,880
This Filing:				
Full Rate Filing			\$	101,415
Legal			<u> </u>	65,000 **
Division of Public Utilities estimated				58,575
Rate Case this filing			\$	224,990
3 Year Amortization			\$	74,997
Total Estimated D&D Evanges			\$	305,877
Total Estimated R&R Expenses			Ф	305,677
Test Year			\$	227,470
				,
Adjustment			\$	78,407
%				34.47%
*Pro-Forma is actual amount of FY 13 Expense				
** See KCWA 2-16				

#### Schedule CW-S8 Chemical and Sludge Maintenance Expense

### **PROVIDENCE WATER**

## **Chemical & Sludge Maintenance Expense**

			FY 2012 Test Year		Rate Year Adjustments	Pro-Forma Amount			
Chemicals:									
	Ferric Sulfate	\$	1,580,879	\$	463,121	\$	2,044,000		
	Quicklime	\$	621,118	\$	45,763	•	666,881		
	Chlorine	\$	139,822	\$	20,178		160,000		
	Flouride	\$	171,663	\$	31,337		203,000		
	CO2	\$	58,792	\$	(58,792)		-		
Sub-total C	hemicals	\$	2,572,273	\$	501,607	\$	3,073,881		
	Calgon		-		-		-		
Sludge Mai	intenance		552,692		1,147,308		1,700,000		
Total Expenses		3,124,965			1,648,915		4,773,881		
Test Year							3,124,965		
Restricted	Fund Balancing						(666,023)		
Current Fu	nding Requirem	nent			•		2,458,942		
A -1-1:4:1 [	To an alian at Dianasia						2 200 200		
	Funding Require						3,000,000		
	Adjustments Ab						1,648,915		
Funding Re	Fund Balancing						(666,023) 685,061		
i unung ixe	equirement				:		003,001		
Total Rate	Year Adjustme	nt					2,333,977		
Pro-Forma	C&S						5,458,942		

## Schedule CW-S8A Adjustment to Chemical Expense

## PROVIDENCE WATER

Adjustment to Chemical Expense to Reflect Estimated Quantities and Prices

Chemical		Quantity Used FY 2011	Quantity Used FY 2012	Quantity Used Projected FY 2013		Unit Price	C١	/ 14 Projected Expense		TY 12 Expense	Adjustment
Ferric Sulfate	Gallons	830,283.00	1,113,678.69	' '	*	1.40	\$	2,044,000	*	1,580,879	\$ 463,121
Quicklime	Tons	1,997.91	2,838.65	3,139.00	\$	212.45	\$	666,881	\$	621,118	\$ 45,763
Chlorine	Tons	161.63	173.30	200.00	\$	800.00	\$	160,000		\$139,821.62	\$ 20,178
Flouride	Gallons	77,499.00	56,902.83	70,000.00	\$	2.90	\$	203,000	\$	171,663	\$ 31,337
CO2	Tons	74.91	506	1,000	\$	109.00	\$	-		\$58,792	\$ (58,792)
Total Projecte FY 2012	d Costs						\$ \$	3,073,881 2,572,273	\$	2,572,273	\$ 501,607
Adjustment to	Rate Year	Expense					\$	501,607			

<u>Prices</u>	<u>FY 11</u>	<u>FY 12</u>	<u>FY 13</u>	CY14 Projected <u>Price</u>
Ferric Sulfate (gallons)	\$ 1.17	\$ 1.40	\$ 1.40	\$1.40
Lime (tons)	\$ 208.45	\$ 212.45	\$ 212.45	\$212.45
Chlorine (tons)	\$ 840.00	\$ 800.00	\$ 800.00	\$800.00
Flouride liquid (gallons)	\$ 2.89	\$ 2.87	\$ 2.90	\$2.90
CO2	\$ 106.40	\$ 106.40	\$ 109.00	\$109.00

## Schedule CW-S9 **Restricted Fund Adjustments**

## PROVIDENCE WATER **Debt Service / Capital Funding Requirements**

	Test Year FYE 2012	_	est Year ustments	Adjusted TY 2012	Rate Year djustments	<u>Notes</u>	Pro-Forma Amount CY 2014
Capital Fund	\$ 2,450,000	\$	-	\$ 2,450,000	\$ (2,450,000)	1)	\$ -
Western Cranston Fund (WCWDS Fund)	\$ 62,069	\$	-	\$ 62,069	\$ -	,	\$ 62,069
Infrastructure Replacement Fund	\$ 16,000,000	\$	-	\$ 16,000,000	\$ 4,000,000	1)	\$ 20,000,000
AMR/Meter Replacement Fund	\$ 1,000,000	\$	-	\$ 1,000,000	\$ -		\$ 1,000,000
Equipment/Vehicle Replacement Fund	\$ 600,000	\$	-	\$ 600,000	\$ -		\$ 600,000
Sub-total Capital Funds	\$ 20,112,069	\$	-	\$ 20,112,069	\$ 1,550,000		\$ 21,662,069
Insurance Fund	\$ 1,948,485	\$	11,163	\$ 1,959,648	\$ 124,943		\$ 2,084,590
Chemicals/Sludge Maintenance Fund	\$ 3,124,965	\$	-	\$ 3,124,965	\$ 2,333,977	2)	\$ 5,458,942
Property Tax Refund Fund	\$ -	\$	-	\$ -	\$ -		\$ -
Revenue Reserve Fund	\$ 1,113,852	\$	-	\$ 1,113,852	\$ (254,339)	1)	\$ 859,513
Scituate Watershed Protection Fund	\$ -	\$	-	\$ -	\$ -		\$ -
Sub-total Operational Funds	\$ 6,187,302	\$	11,163	\$ 6,198,465	\$ 2,204,581		\$ 8,403,045
Total Restricted Funds	\$ 26,299,371	\$	11,163	\$ 26,310,534	\$ 3,754,581		\$ 30,065,114
Adjusted Test Year							\$ 26,310,534
Total Adjustment							\$ 3,754,581

<sup>1)</sup> See Woodcock testimony
2) Amount from comparative schedule, adjusted to match restricted funding level from Docket 4061, plus 3 Million additional request

## Schedule CW-S9A Capital Fund

Source of Funds			
	FY 2013	FY 2014	FY 2015
D4061 (effective 4/27/10)	2,450,000	1,225,000	-
Add'l funding from new docket effective 1/1/14	-	-	-
Carryover funds from prior year estimated	7,871,212	8,300,050	8,628,242
Total Sources	10,321,212	9,525,050	8,628,242
Less obligated uses of funds:			
RICWFA Debt (ARRA 2009) (P)	233,452	236,234	238,476
RICWFA (ARRA 2009) (I)	7,710	5,574	2,536
Sub-total Debt Service	241,162	241,808	241,012
Cash Funded Projects	1,780,000	655,000	255,000
Total Uses	2,021,162	896,808	496,012
End of Year Balance	8,300,0 <u>50</u>	8,628,242	8,132,23 <u>0</u>

## Schedule CW-S9B

Western Cranston Fund (WCWDS Fund)

Source of Funds			
	FY 2013	FY 2014	FY 2015
D4061 (effective 4/27/10)	62,069	62,069	62,069
Add'I funding from new docket effective 1/1/14	-	-	-
Impact Fees estimated	20,000	20,000	20,000
Carryover funds from prior year estimated	1,657,857	1,568,692	 229,602
Total Sources	\$ 1,739,926	\$ 1,650,761	\$ 311,671
Less obligated uses of funds			
RICWFA 2002B (P)	123,252	127,530	131,956
RICWFA 2002 (Pippin Main & WilburPS) (I)	47,981	43,629	 39,126
Sub-total Debt Service	\$ 171,233	\$ 171,159	\$ 171,082
Cash Funded Projects	-	1,250,000	-
Total Uses	 171,233	 1,421,159	 171,082
End of Year Balance	<b>\$1,568,692</b>	<u>\$229,602</u>	<b>\$140,589</b>

## Schedule CW-S9C

**Infrastructure Replacement Fund** 

Source of Funds				
	FY 2013	FY 2014		FY 2015
D4061 (effective 4/27/10)	16,000,000	16,000,000		16,000,000
Add'I funding from new docket effective 1/1/14	-	2,000,000		4,000,000
New Bond 2013 Est(33 million)	10,000,000	10,000,000		10,000,000
Carryover funds from prior year estimated	\$ 3,818,000	\$2,154,43 <u>6</u>		<u>\$1,114,457</u>
Total Sources	\$ 29,818,000	\$ 30,154,436	\$	31,114,457
Less obligated uses of funds:				
RICWFA Debt (1994 \$12M) Refi 2005 (P)	861,000	887,000		915,000
RICWFA (various projects) (I)	69,869	43,117		14,640
RICWFA Debt (Arra) (P)	359,079	390,773		393,485
RICWFA ARRA) (I)	105,828	103,164		99,970
RICWFA \$35M 2008 (P)	1,361,000	1,397,000		1,436,000
RICWFA \$35M 2008 (I)	1,091,787	1,053,926		1,013,759
RICWFA \$33M 2013 (P)	-	1,000		1,000
RICWFA \$33M 2013 (I)	22,864	299,676		491,944
Interest on Line of Credit Century	 37,620	 -	_	-
Sub-total Debt Service	3,848,564	3,874,979		3,872,854
Cash Funded Projects **	\$ 23,815,000	\$ 25,165,000	\$	25,680,000
Total Uses	27,663,564	29,039,979		29,552,854
End of Year Balance	<u>\$2,154,436</u>	 <u>\$1,114,457</u>		<u>\$1,561,603</u>

## Schedule CW-S9D

**AMR/Meter Replacement Fund** 

Source of Funds			
	FY 2013	FY 2014	FY 2015
D4061 (effective 4/27/10)	1,000,000	1,000,000	1,000,000
Add'l funding from new docket effective 1/1/14	-	-	-
Carryover funds from prior year estimated	 2,273,119	2,492,746	 1,898,217
Total Sources	\$ 3,273,119	\$ 3,492,746	\$ 2,898,217
Less obligated uses of funds			
RICWFA Debt (ARRA 2009) (P)	380,895	385,435	389,092
RICWFA (ARRA 2009) (I)	12,580	9,094	4,914
Meter Replacement,Test & Repair	386,898	1,200,000	1,200,000
Payment on Line of Credit	 -	-	-
Total Uses	\$ 780,373	\$ 1,594,529	\$ 1,594,006
End of Year Balance	<u>\$2,492,746</u>	<u>\$1,898,217</u>	<u>\$1,304,211</u>

## Schedule CW-S9E

**Equipment/Vehicle Replacement Fund** 

Source of Funds			
	FY 2013	FY 2014	FY 2015
D4061 (effective 4/27/10)	600,000	600,000	600,000
Add'l funding from new docket effective 1/1/14	· -	-	-
Carryover funds from prior year estimated	1,388,272	939,272	604,272
Total Sources	1,988,272	1,539,272	1,204,272
Less obligated uses of funds			
Vehicle and Equipment purchases	540,000	580,000	560,000
Computer Equipment purchases	156,000	150,000	150,000
Office Furniture purchases	25,000	25,000	25,000
Security Equipment	30,000	30,000	30,000
Shop & Plant Equipment	298,000	150,000	200,000
Total Uses	1,049,000	935,000	965,000
End of Year Balance	\$ 939,272 <b>\$</b>	604,272 \$	239,272

# Schedule CW-S9F Insurance Fund

Source of Funds			
	FY 2013	FY 2014	FY 2015
D4061 (effective 4/27/10)	1,777,062	1,777,062	1,777,062
Add'l funding from new docket effective 1/1/14	-	153,764	307,528
Carryover funds from prior year estimated	3,273,421	3,041,333	2,910,026
Total Sources	5,050,483	4,972,159	4,994,617
Less obligated uses of funds			
Property & Casualty	1,031,150	1,056,929	1,070,558
Workers Compensation	900,000	922,500	930,000
Injuries & Damages	50,000	54,004	58,007
Safety Supplies & Other	18,000	18,450	18,911
Program Expense	10,000	10,250	10,506
Total Uses	2,009,150	2,062,133	2,087,982
End of Year Balance	<u>\$3,041,333</u>	<u>\$2,910,026</u>	<u> 2,906,635</u>

## Schedule CW-S9G

**Chemicals/Sludge Maintenance Fund** 

End of Year Balance	(1,092,018)	(\$1,356,150)	(\$677,208)
Total Uses	4,889,000	4,780,000	4,780,000
Sludge Maintenance	1,700,000	1,700,000	1,700,000
Chemicals	3,189,000	3,080,000	3,080,000
Less obligated uses of funds			
Total Sources	3,796,982	3,423,850	4,102,792
Carryover funds from prior year estimated	224,188	(1,092,018)	(1,356,150)
Add'f funding from IFR defferal	1,113,852	556,926	-
Add'I funding from new docket effective 1/1/14	-	1,500,000	3,000,000
D4061 (effective 4/27/10)	2,458,942	2,458,942	2,458,942
	FY 2013	FY 2014	FY 2015
Source of Funds			

## Schedule CW-S9H

## **Property Tax Refund Fund**

Source of Funds	FY 2013	FY 2014	FY 2015
D4061 (effective 4/27/10)			
Add'l funding from new docket effective 1/1/14			
Interest			
Carryover funds from prior year estimated	464,220	439,220	0
Total Sources	464,220	439,220	0
Less obligated uses of funds			
Transfer to Operations	-	439,220	-
Transfer to Operations-Est Legal/Tax fees	25,000		
Total Uses	25,000	439,220	-
End of Year Balance	<u>\$439,220</u>	<u>\$0</u>	<u>\$0</u>

## Schedule CW-S9I

## **Revenue Reserve Fund**

Source of Funds			
	FY 2013	FY 2014	FY 2015
D4061 (effective 4/27/10)	1,113,852	1,113,852	1,113,852
Add'l funding from new docket effective 1/1/14	-	(127,169)	(254,339)
Carryover funds from prior year estimated	3,060,554	4,174,406	5,161,089
Total Sources	4,174,406	5,161,089	6,020,602
Less obligated uses of funds			
Total Uses			
End of Year Balance	<u>\$4,174,406</u>	<u>\$5,161,089</u>	\$6,020,602

# Schedule CW-S9J

## **Scituate Watershed Protection Fund**

Source of Funds	FY 2013	FY 2014	FY 2015
D4061 (effective 4/27/10) Add'l funding from new docket effective 1/1/14 Carryover funds from prior year estimated	 - 187,572	 - - -	 - - -
Total Sources	\$ 187,572	\$ -	\$ -
Less obligated uses of funds Land deposits & appraisal fees	 187,572		
Total Uses	\$ 187,572	\$ -	\$ -
End of Year Balance	\$ -	\$ -	\$ -

## Schedule CW-S10 Revenue Under Existing Rates

## **Test Year Revenue Under Existing Rates**

Rate Year Ending December 31, 2014

Rate Year Ending December 31, 2014												
Retail Consumption Charges												
Residential (HCF)	8,574,863	\$	2.488	\$	21,334,260							
Commercial (HCF)	4,381,008	\$	2.390	\$	10,470,609							
Industrial (HCF)	191,315	\$	2.346	\$	448,825							
Total	13,147,187			\$	32,253,695							
Wholesale Consumption Charges					, ,							
Consumption (HCF)	13,051,679	\$	1.269514									
Gallons (Million)	9,763	\$	1,697.21	\$	16,569,289							
Billing	Units of		Current		Service Charge							
Unit	Service		Rates		Revenue							
Quarterly Service Charges												
5/8"	53,150	\$	18.34	\$	3,899,084.00							
3/4"	10,645	\$	19.47	\$	829,032.60							
1"	5,067	\$	22.85	\$	463,123.80							
1.5"	1,491	\$	27.39	\$	163,353.96							
2"	1,468	\$	39.77	\$	233,529.44							
3"	80	\$	131.15	\$	41,968.00							
4"	25	\$	164.98	\$	16,498.00							
6"	42	\$	243.95	\$	40,983.60							
8"	28	\$	334.19	\$	37,429.28							
10"	2	\$	415.97	\$	3,327.76							
12"	-	\$	497.76	\$	-							
Total	71,998			\$	5,728,330.44							
Monthly Service Charges												
5/8"	1	\$	10.82	\$	129.84							
3/4"	0	\$	11.19	\$	-							
1"	0	\$	12.32	\$	-							
1.5"	2	\$	13.83	\$	331.92							
2"	34	\$	17.97	\$	7,331.76							
3"	13	\$	48.42	\$	7,553.52							
4"	7	\$	59.70	\$	5,014.80							
6"	17	\$	86.02	\$	17,548.08							
8"	8	\$	116.11	\$	11,146.56							
10"	0	\$	143.37	\$	-							
12"	1	\$	170.63	\$	2,047.56							
Total	83			\$	51,104.04							
Total Service Charge Revenue	72,081			\$	5,779,434.48							

**Schedule CW-S10 Revenue Under Existing Rates Quarterly Fire Protection** Units of Service **Current Rates** Fire Protection **Service Charge** (Providence Only) Revenue (Providence Only) 5/8" 25,266 \$ 3.08 \$ 311,277.12 3/4" 4,207 \$ 4.62 \$ 77,745.36 1" 1,998 \$ 11.54 \$ 92,227.68 1.5" 896 \$ 30.77 \$ 110,279.68 2" 874 \$ 73.86 \$ 258,214.56 3" 58 \$ 200.04 \$ 46,409.28 4" 14 \$ 338.52 \$ 18,957.12 6" 18 \$ 692.43 \$ 49,854.96 8" 8 \$ 1,046.34 \$ 33,482.88 10" \$ 1,600.29 \$ 6,401.16 1 12" - \$ 2,646.63 \$ 33,340 1,004,849.80 \$ Total **Monthly Fire Protection Service Charge** (Providence Only) 5/8" \$ 1.03 \$ 12.36 3/4" \$ 1.54 \$ 1" 3.85 \$ \$ 1.5" \$ 10.26 \$ 2" 27 \$ 24.62 \$ 7,976.88 3" \$ 66.68 \$ 8,801.76 11 4" 5 \$ 112.84 \$ 6,770.40 6" 12 \$ 230.81 \$ 33,236.64 8" \$ 348.78 \$ 8 33,482.88 10" 533.43 \$ \$ 12" 882.21 \$

64

Total Retail FPSC (Providence Only)	
Total Service Charge	

Total

\$ 1,095,130.72
\$ 6,874,565

90,280.92

\$

## Schedule CW-S10 Revenue Under Existing Rates

<b>Private</b>	Fire	Service	Charges
----------------	------	---------	---------

3/4"	3	\$ 19.67	\$ 236
1"	10	\$ 23.31	\$ 932
1.5"	3	\$ 28.70	\$ 344
2"	50	\$ 42.63	\$ 8,526
4"	349	\$ 182.72	\$ 255,077
6"	1,272	\$ 295.45	\$ 1,503,250
8"	254	\$ 443.93	\$ 451,033
10"	4	\$ 613.33	\$ 9,813
12"	17	\$ 816.53	\$ 55,524
16"	1	\$ 1,340.64	\$ 5,363
Total	1,963	-	\$ 2,290,098

## **Public Fire Service Charges**

Total Hydrants	6,051	339.33	
Hydrants (Excluding Providence)	2,832 \$	339.33 \$	960,983
Total Rate Revenues		\$	58,948,630

		Allocatio	n														
	<u>TITLE</u>	Factor		<u>Total</u>	Bas	e	Maximum Day		Maximum Hour	Meters & Ser	vices	Billing 8	& Collection	blic Fire	Protection		Wholesale
601 Opera	ting Fund																
Source of	<u>Supply</u>																
60110	Salaries + Wages - Emp	Α	\$	647,474		\$	-	\$	-	\$	-	\$	-	\$	6,475	\$	284,169
60120	Salaries + Wages - Emp	Α	\$	468,652	\$ 258,279	\$	-	\$	-	\$	-	\$	-	\$	4,687	\$	205,686
60320	Sal. + Wages - Officers, Dir	Α	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
60410	Employee Pension + Ben	Α	\$	171,529	\$ 94,532	2 \$	-	\$	-	\$	-	\$	-	\$	1,715	\$	75,282
60420	Employee Pension + Ben	Α	\$	191,864	\$ 105,738	3 \$	-	\$	-	\$	-	\$	-	\$	1,919	\$	84,207
61510	Purchase Power	Α	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$		\$	-
61610	Fuel for Power Purch	Α	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
62010	Material + Supplies	Α	\$	20,167	\$ 11,114	1 \$	-	\$	-	\$	-	\$	-	\$	202	\$	8,851
62020	Material + Supplies	Α	\$	77,959	\$ 42,964	1 \$	-	\$	-	\$	-	\$	-	\$	780	\$	34,215
63110	Contractual Services - Engineer	Α	\$	2,617	\$ 1,442	2 \$	-	\$	-	\$	-	\$	-	\$	26	\$	1,149
63120	Contractual Services - Engineer	Α	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	, <u>-</u>
63310	Contract Services -Legal	Α	\$	19,401	\$ 10,692	2 \$	-	\$	-	\$	-	\$	-	\$	194	\$	8,515
63420	Contractual Services - Mgt. Fees	Α	\$	-	\$ -	\$	-	\$	-	\$	-	\$	_	\$	-	\$	· -
63510	Contractual Services - Other	Α	\$	446,687	\$ 246,174	1 \$	_	\$	-	\$	-	\$	_	\$	4.467	\$	196,046
63520	Contractual Services - Other	A	\$		\$ 18,626		-	\$	-	\$	-	\$	-	\$	, -	\$	14,833
64210	Rental of Equipment	Α	\$	-	\$ -	\$	_	\$	-	\$	-	\$	_	\$	-	\$	-
64220	Rental of Equipment	Α	\$	_	\$ -	\$	_	\$	-	\$	_	\$	-	\$	-	\$	-
65010	Transportation Exp.	Α	\$	155	\$ 85	5 \$	-	\$	_	\$	_	\$	_	\$	2	\$	68
65020	Transportation Exp.	A	\$	-	\$ -	\$	_	\$	-	\$	_	\$	-	\$		\$	-
67510	Misc. Expenses	A	\$	73,540	\$ 40,528		-	\$	_	\$	_	\$	_	\$	735		32,276
67520	Misc. Expenses	A	\$	4,840			_	\$	_	\$	_	\$	-	\$	48		2,124
	•		_	-						•		•		•			
	Total Source of Supply Expense	011	\$	2,158,681	\$ 1,189,673	3 \$	-	\$	-	\$	-	\$	-	\$	21,587	\$	947,422
		Check	\$	-													
Pumping E		NO	•		•	•		•		\$		\$				•	
60123	Salaries + Wages - Emp													Φ.			-
60126	0-1	NO	\$	-	\$ -	\$	-	\$	-		-		-	\$	-	\$	
	Salaries + Wages - Emp	NO	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
60423	Employee Pension + Ben	NO NO	\$	- - -	\$ - \$ -	\$	- - -	\$	- - -	\$ \$	-		- - -	\$ \$	- - -	\$	-
60426	Employee Pension + Ben Employee Pension + Ben	NO NO NO	\$ \$ \$		\$ - \$ - \$ -	\$ \$ \$	: : :	\$ \$ \$		\$ \$ \$	-	\$	- - -	\$ \$ \$	- - -	\$ \$ \$	- - -
60426 61523	Employee Pension + Ben Employee Pension + Ben Purchased Power	NO NO NO NP	\$ \$ \$	- - - - 778,684	\$ - \$ - \$ - \$ 260,075	\$ \$ \$ \$	- - - - 190,086	\$ \$ \$ \$	20,034	\$ \$ \$ \$	-	\$	- - - -	\$ \$ \$ \$	- - - - 6,872	\$ \$ \$ \$	- - - 301,616
60426 61523 61623	Employee Pension + Ben Employee Pension + Ben Purchased Power Fuel for Power Purch	NO NO NO NP NP	\$ \$ \$ \$	- - - - 778,684 -	\$ - \$ - \$ - \$ 260,075 \$ -	\$ \$ \$ \$ \$	- - - 190,086 -	\$ \$ \$	- - - 20,034	\$ \$ \$ \$ \$ \$	-	\$	- - - -	\$ \$ \$	- - - - 6,872	\$ \$ \$	- - - 301,616 -
60426 61523 61623 62023	Employee Pension + Ben Employee Pension + Ben Purchased Power Fuel for Power Purch Material + Supplies	NO NO NO NP NP NO	\$ \$ \$ \$ \$	- - - 778,684 - -	\$ - \$ - \$ 260,075 \$ - \$ -	\$ \$ \$ \$ \$	190,086 - 1 -	\$ \$ \$ \$	,	· \$ \$ \$ \$ \$ \$ \$	-	\$ \$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$	- - - - 6,872 -	\$ \$ \$ \$ \$ \$ \$ \$	- - - 301,616 - -
60426 61523 61623 62023 62026	Employee Pension + Ben Employee Pension + Ben Purchased Power Fuel for Power Purch Material + Supplies Material + Supplies	NO NO NO NP NP NO NO	· \$ \$ \$ \$ \$ \$ \$ \$	- - - 778,684 - - -	\$ - \$ - \$ 260,075 \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$	- - - 190,086 - - -	\$ \$ \$ \$	,	· \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-	· \$ \$ \$ \$ \$ \$ \$ \$	- - - - - -	\$ \$ \$ \$	- - - - 6,872 - -	* * * * * * * *	- - - 301,616 - - -
60426 61523 61623 62023 62026 63123	Employee Pension + Ben Employee Pension + Ben Purchased Power Fuel for Power Purch Material + Supplies Material + Supplies Contractual Services - Engineer	NO NO NO NP NP NO NO	. \$ \$ \$ \$ \$ \$ \$ \$	778,684 - - - - - -	\$ - \$ - \$ 260,075 \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - 190,086 - - - -	\$ \$ \$ \$ \$ \$ \$ \$	,	\$ \$ \$ \$ \$ \$ \$ \$ \$		· \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - -	* * * * * * * * * *	- - - 6,872 - - -	* * * * * * * * * *	- - - 301,616 - - - -
60426 61523 61623 62023 62026 63123 63126	Employee Pension + Ben Employee Pension + Ben Purchased Power Fuel for Power Purch Material + Supplies Material + Supplies Contractual Services - Engineer Contractual Services - Engineer	NO NO NP NP NO NO NO NO NO	. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	\$ - \$ - \$ 260,075 \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		· \$ \$ \$ \$ \$ \$ \$ \$		\$ \$ \$ \$	- - - -	* * * * * * * * * * *	- - - -
60426 61523 61623 62023 62026 63123 63126 63523	Employee Pension + Ben Employee Pension + Ben Purchased Power Fuel for Power Purch Material + Supplies Material + Supplies Contractual Services - Engineer Contractual Services - Engineer Contractual Services - Other	NO NO NO NP NP NO NO NO	. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	778,684 - - - - - - 12,370	\$ - \$ - \$ 260,075 \$ - \$ - \$ - \$ - \$ - \$ 4,287	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	190,086 - - - - - - - - - 3,097	\$ \$ \$ \$ \$ \$ \$ \$	,	. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		· \$ \$ \$ \$ \$ \$ \$ \$ \$		* * * * * * * * * * * * *	- - - 6,872 - - - - - - 99	* * * * * * * * * * * * * *	301,616 - - - - - - - 4,346
60426 61523 61623 62023 62026 63123 63126 63523 63526	Employee Pension + Ben Employee Pension + Ben Purchased Power Fuel for Power Purch Material + Supplies Material + Supplies Contractual Services - Engineer Contractual Services - Other Contractual Services - Other	NO NO NO NP NP NO NO NO NO NO NO NO	. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	\$ - \$ - \$ 260,075 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	· \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		*****		* * * * * * * * * * * * * * *	- - - -	. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -
60426 61523 61623 62023 62026 63123 63126 63523 63526 64223	Employee Pension + Ben Employee Pension + Ben Purchased Power Fuel for Power Purch Material + Supplies Material + Supplies Contractual Services - Engineer Contractual Services - Engineer Contractual Services - Other Contractual Services - Other Rental of Equipment	NO NO NO NP NP NO	. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	\$ - \$ - \$ 260,075 \$ - \$ - \$ - \$ - \$ - \$ 5 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -			. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -
60426 61523 61623 62023 62026 63123 63126 63523 63526 64223 64226	Employee Pension + Ben Employee Pension + Ben Purchased Power Fuel for Power Purch Material + Supplies Material + Supplies Contractual Services - Engineer Contractual Services - Other Contractual Services - Other Contractual Services - Other Rental of Equipment Rental of Equipment	NO NO NO NP NP NO	· \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	\$ - \$ 260,075 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -			. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		* * * * * * * * * * * * * * *	- - - -	. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -
60426 61523 61623 62023 62026 63123 63126 63523 63526 64223 64226 65023	Employee Pension + Ben Employee Pension + Ben Purchased Power Fuel for Power Purch Material + Supplies Material + Supplies Contractual Services - Engineer Contractual Services - Other Contractual Services - Other Contractual Services - Other Rental of Equipment Rental of Equipment Transportation Exp.	NO NO NO NP NP NO	· \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	\$ - \$ - \$ 260,075 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	· \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -
60426 61523 61623 62023 62026 63123 63126 63523 63526 64223 64226 65023 67523	Employee Pension + Ben Employee Pension + Ben Purchased Power Fuel for Power Purch Material + Supplies Material + Supplies Contractual Services - Engineer Contractual Services - Other Contractual Services - Other Contractual Services - Other Rental of Equipment Transportation Exp. Misc. Expenses	NO NO NO NP NP NO NO NO NO NO NO NO NO NO		12,370 - - - - - - - -	\$ - \$ 260,075 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	****	- - - -	***	- - - -	. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -		- - - -
60426 61523 61623 62023 62026 63123 63126 63523 63526 64223 64226 65023	Employee Pension + Ben Employee Pension + Ben Purchased Power Fuel for Power Purch Material + Supplies Material + Supplies Contractual Services - Engineer Contractual Services - Other Contractual Services - Other Contractual Services - Other Rental of Equipment Rental of Equipment Transportation Exp.	NO NO NO NP NP NO	· \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	\$ - \$ - \$ 260,075 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	· \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -
60426 61523 61623 62023 62026 63123 63126 63523 63526 64223 64226 65023 67523	Employee Pension + Ben Employee Pension + Ben Purchased Power Fuel for Power Purch Material + Supplies Material + Supplies Contractual Services - Engineer Contractual Services - Other Contractual Services - Other Contractual Services - Other Rental of Equipment Transportation Exp. Misc. Expenses	NO NO NO NP NP NO NO NO NO NO NO NO NO NO		12,370 - - - - - - - -	\$ - \$ - \$ 260,075 \$ - \$ - \$ 5	****	- - - -	****	- - - - 541 - - - - -	. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -	. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -
60426 61523 61623 62023 62026 63123 63126 63523 63526 64223 64226 65023 67523	Employee Pension + Ben Employee Pension + Ben Purchased Power Fuel for Power Purch Material + Supplies Material + Supplies Contractual Services - Engineer Contractual Services - Other Contractual Services - Other Contractual Services - Other Rental of Equipment Rental of Equipment Transportation Exp. Misc. Expenses Misc. Expenses	NO NO NO NP NP NO NO NO NO NO NO NO NO NO		12,370 - - - - - - - - -	\$ - \$ - \$ 260,075 \$ - \$ - \$ 5	****	3,097 - - - - - - - -	****	- - - - 541 - - - - -	. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		************	- - - 99 - - - -	. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	4,346 - - - - - - - -

		Allocation	า			•	, , .							
	TITLE	Factor		Total	Base		Maximum Day	Maximum Hour	Meters & Services	Billing & Collecti	ion b	lic Fire Protection		Wholesale
Water Trea	atment Expenses													
60130	Salaries + Wages - Emp	AA	\$	2,155,079	\$ 680,952	\$	506,735 \$	_	\$ -	\$ -		\$ 21,551	\$	945,841
60140	Salaries + Wages - Emp	AA	\$			\$	82,651 \$		\$ -	\$ -		\$ 3,515		154,271
60430	Employee Pension + Ben	AA	\$		\$ 194,903		145,039 \$		\$ -	\$ -		\$ 6,168		270,720
60440	Employee Pension + Ben	AA	\$			\$	32,273 \$		\$ -	\$ -				60,239
61530	Purchase Power	P	\$			\$	22,642 \$		\$ -	\$ -				89,438
61630	Fuel for Power Purch	AA	\$			\$	57,737 \$		\$ -	\$ -		\$ 2,455	\$	107,768
61830	Chemicals	A	\$		\$ 77,567 \$ -	\$	- \$		\$ -	\$ -		\$ 2,433	\$	107,700
62030	Material + Supplies	AA	\$		\$ 41.959	\$	31,224 \$	_	\$ -	\$ -		\$ 1,328	\$	58,281
		AA	\$		, , , , , , , , , , , , , , , , , , , ,	Ф \$		-	\$ -	\$ -		,	Ф \$	,
62040	Material + Supplies		\$ \$		\$ 22,540 \$ -		16,774 \$ - \$		\$ -	\$ -		\$ 713 \$ -	Ф \$	31,309
63130	Contractual Services - Engineer	AA	-		*	\$	*	-	*	Ŧ		T	-	-
63240	Contract Services - Acctg	AA	\$		\$ -	\$	- \$	-	\$ -	\$ -		\$ -	\$	-
63430	Contractual Services - Mgt. Fees	AA	\$		\$ -	\$	- \$	-	\$ -	\$ -		\$ -	\$	-
63530	Contractual Services - Other	AA	\$		\$ 47,661	\$	35,467 \$	-	\$ -	\$ -		\$ 1,508	\$	66,201
63540	Contractual Services - Other	AA	\$	- , -	\$ 28,799	\$	21,431 \$	-	\$ -	\$ -		\$ 911	\$	40,002
64140	Rental Buildg/Real Prop	AA	\$		\$ -	\$	- \$	-	\$ -	\$ -		\$ -	\$	-
64230	Rental of Equipment	AA	\$		\$ -	\$	- \$	-	\$ -	\$ -		\$ -	\$	-
64240	Rental of Equipment	AA	\$		\$ -	\$	- \$	-	\$ -	\$ -		\$ -	\$	-
65030	Transportation Exp.	AA	\$	-, -	\$ 1,951	\$	1,452 \$	-	\$ -	\$ -		\$ 62	\$	2,711
66730	Regularoty Com ExpOther	AA	\$		\$ -	\$	- \$	-	\$ -	\$ -		\$ -	\$	-
67530	Misc. Expenses	AA	\$	102,885	\$ 32,509	\$	24,192 \$	-	\$ -	\$ -		\$ 1,029	\$	45,155
67540	Misc. Expenses	AA	\$	2,156	\$ 681	\$	507 \$	-	\$ -	\$ -		\$ 22	\$	946
	Total Treatment Expense		\$	4,289,961	\$ 1,396,285	\$	978,123 \$	_	\$ -	\$ -		\$ 42,673	\$	1,872,880
	Total Troutilont Expense	Check	\$	-,200,001	Ψ 1,000,200	Ψ	070,120 ψ		Ψ	Ψ		Ψ 12,070	Ψ	1,072,000
Transmissi	ion + Dist. Expense:	Oncon	Ψ											
60150	Salaries + Wages - Emp	НМ	\$	1,118,479	\$ 287,471	\$	190,814 \$	134,156	\$ 297,680	\$ -		\$ 125,248	\$	83,109
60160	Salaries + Wages - Emp	HM	\$			\$	400,628 \$	,		\$ -				174,494
60250	Payroll Clearing -Emp	HM	\$		\$ -	\$	- \$		\$ 025,002	\$ -		\$ 202,500	\$	-
60260	Payroll Clearing -Emp	HM	\$		\$ -	\$	- \$	_	\$ -	\$ -		\$ -	\$	_
60450	Employee Pension + Ben	HM	\$		\$ 74,031	\$	49,139 \$		\$ 76,660	\$ -		\$ 32,255	\$	21,403
60460	Employee Pension + Ben	HM	\$		\$ 221,393	Ф \$	146,953 \$	,	\$ 229,255	\$ -		\$ 96,459	Ф \$	64,006
60550	Overhead Rate Applied	HM	\$ \$		\$ 221,393	Ф \$	140,955 \$ - \$	103,319	\$ 229,233	\$ -		\$ 90,439	Ф \$	04,000
60560	Overhead Rate Applied	HM	\$		\$ -	Ф \$	- φ - \$	-	\$ -	\$ -		\$ -	Ф \$	-
	• •	P P	\$ \$		*				\$ -	\$ -		τ - \$ 108	-	
61550	Purchase Power	F	-			\$	1,202 \$		*	*		•	\$	4,748
62050	Material + Supplies	F	\$		\$ 107,246	\$	71,186 \$		\$ -	\$ -			\$ \$	52,804
62060	Material + Supplies	•	\$		\$ -	\$	- \$	-	\$ -	\$ - \$ -		\$ -	-	-
62560	Inventory Clearing	HM	\$		\$ -	\$	- \$	-	\$ -	*		\$ -	\$	-
63150	Contractual Services - Engineer	TD	\$		\$ 154,157	\$	102,324 \$	,=	\$ -	\$ -		\$ -	\$	-
63350	Contractual Services - Legal T&D0	HM	\$		\$ -	\$	- \$	-	\$ -	\$ -		\$ -	\$	-
63460	Contractual Services - Mgt. Fees	С	\$		\$ -	\$	- \$	-	\$ -	\$ -		\$ -	\$	
63550	Contractual Services - Other	HOC	\$	- ,	\$ 177,966	\$	118,092 \$	,	\$ 1,203	\$ -		\$ 9,231	\$	93,086
63560	Contractual Services - Other	HMC	\$		\$ 17,776	\$	11,799 \$	8,296	\$ 18,408	\$ -		\$ 7,745	\$	5,139
64150	Rental Buildg/Real Prop	F	\$		\$ -	\$	- \$	-	\$ -	\$ -		\$ -	\$	-
64160	Rental Buildg/Real Prop	F	\$		\$ -	\$	- \$	-	\$ -	\$ -		\$ -	\$	-
64250	Rental of Equipment	F	\$		\$ -	\$	- \$	-	\$ -	\$ -		\$ -	\$	-
64260	Rental of Equipment	F	\$	-	\$ -	\$	- \$	-	\$ -	\$ -		\$ -	\$	-
65050	Transportation Exp. T&D	F	\$	2,923	\$ 1,092	\$	725 \$	510	\$ -	\$ -		\$ 58	\$	538
65850	Insurance W/C	HM	\$	-	\$ -	\$	- \$	-	\$ -	\$ -		\$ -	\$	-
65860	Insurance W/C	HM	\$	-	\$ -	\$	- \$	-	\$ -	\$ -		\$ -	\$	-
67550	Misc. Expenses	F	\$	40,416	\$ 15,101	\$	10,024 \$	7,047	\$ -	\$ -		\$ 808	\$	7,435
67560	Misc. Expenses	F	\$	-	\$ -	\$	- \$	-	\$ -	\$ -		\$ -	\$	-
	Total Transmission & Distribution		\$	5,838,857	\$ 1,665,763	\$	1,102,887 \$	774,617	\$ 1,248,207	\$ -		\$ 540,621	\$	506,761
	Total Hallshinssion & Distribution	Check	\$	J,030,037	Ψ 1,000,703	Ψ	1,102,007 Φ	114,011	Ψ 1,240,207	Ψ -		ψ 540,021	Ψ	300,701
		CHECK	φ	-										

		Allocation	1															
	<u>TITLE</u>	Factor		<u>Total</u>		Base		Maximum Day	Maxi	mum Hour	Meters	& Services	Billing	& Collection	olic Fire	Protection		Wholesale
Customer .	Accounts Expense:																	
60170	Salaries + Wages - Emp	D	\$	2,046,384	\$		\$	-	\$	-	\$	1,023,192	\$	1,023,192		-	\$	-
60270	Payroll Clearing -Emp	D	\$	-	\$		\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
60470	Employee Pension + Ben	DY	\$	755,496		,	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
60570	Overhead Rate Applied	D	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
61670	Fuel for Power Purch	D	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
62070	Material + Supplies	D	\$	2,624	\$	-	\$	-	\$	-	\$	1,312	\$	1,312	\$	-	\$	-
63370	Contractual Services - Legal	D	\$	-	\$		\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
63570	Contractual Services - Other	D	\$	11,679	\$	-	\$	-	\$	-	\$	5,840	\$	5,840	\$	-	\$	-
65070	Transportation ExpCAO	D	\$	1,077	\$	-	\$	-	\$	-	\$	538	\$	538	\$	-	\$	-
65870	Insurance - Other	D	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
65970	Insurance Other	D	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
67070	Bad Debt Expense - CAO	D	\$		\$	-	\$	-	\$	-	\$	236,863	\$	236,863	\$	-	\$	-
67570	Misc. Expenses	D	\$	525,576	\$	-	\$	-	\$	-	\$	262,788	\$	262,788	\$	-	\$	-
	Total Customer Accounts		\$	3,816,563	\$ 75	55,496	\$	-	\$	_	\$	1,530,534	\$	1,530,534	\$	_	\$	-
		Check	\$	-	•	,	Ψ		•		Ψ	.,000,00	Ψ	1,000,001	Ψ		•	
Administra	tive and General		Ψ															
60180	Salaries + Wages - Emp	Υ	\$	5,749,306	\$ 144	16,257	\$	743,106	\$	261,684	\$	1,224,556	\$	643,904	\$	267,106	\$	1,162,693
60280	Payroll Clearing -Emp	Y	\$	-	\$		\$	,	\$		\$	-	\$	-	\$	-	\$	-
60380	Salaries + wages - Officers, Dir.	YY	\$	_	\$		\$		\$	-	\$	_	\$	-	\$	-	\$	_
60480	Employee Pension + Ben	Y	\$	4,685,879	•		\$		\$	213,281	\$	998,055	\$	524,804	\$	217,701	\$	947,634
60580	Overhead Rate Applied	Z	\$	-	\$		\$		\$	,	\$	-	\$	-	\$		\$	-
61580	Purchase Power	Z	\$	113,972	\$ 3	35,561	\$	15,341	\$	5,364	\$	18,745	\$	10,325	\$	4,127	\$	24,508
61680	Fuel for Power Purch	Z	\$	-	\$		\$	,	\$	-,	\$	-	\$	-	\$	-	\$	- 1,000
62080	Material + Supplies	Z	\$	548,550	\$ 17	71,157	\$	73,838	\$	25,818	\$	90,220	\$	49,693	\$	19,866	\$	117,957
63180	Contractual Services - Engineer	Υ	\$			12,112	\$		\$	2,192	\$	10,255	\$	5,392	\$	2,237	\$	9,737
63280	Contract Services - Acctg	Υ	\$		\$		\$		\$	-	\$	-	\$	-	\$	-	\$	
63380	Contractual Services - Legal	Υ	\$	54,083	\$	13,605	\$	6,990	\$	2,462		11,519	\$	6,057	\$	2,513	\$	10,937
63480	Contractual Services - Mgt. Fees	Υ	\$	· -	\$		\$		\$	· -	\$	· -	\$	, <u>-</u>	\$	· -	\$	, -
63580	Contractual Services - Other	Υ	\$	1,094,263	\$ 27	75,266	\$	141,435	\$	49,806	\$	233,069	\$	122,554	\$	50,838	\$	221,295
64180	Rental Buildg/Real Prop	Z	\$	, , , <u>-</u>	\$		\$	- :	\$	· -	\$	· -	\$	· -	\$	· -	\$	· -
64280	Rental of Equipment	Z	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
65080	Transportation Exp.	Z	\$	6,797	\$	2,121	\$	915	\$	320	\$	1,118	\$	616	\$	246	\$	1,462
65780	Ins. Gen. Liability	Υ	\$	· -	\$	· -	\$	- :	\$	-	\$	· -	\$	-	\$	-	\$	, -
65880	Insurance - W/C	Υ	\$	-	\$	-	\$	- :	\$	-	\$	_	\$	-	\$	-	\$	-
65980	Insurance Other	Υ	\$	-	\$	-	\$	- :	\$	-	\$	-	\$	-	\$	-	\$	-
66080	Advertising Expense	Z	\$	-	\$	-	\$	- :	\$	-	\$	-	\$	-	\$	-	\$	-
66680	Reg Com Exp - Amort of Rate Case	Com Z	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
66780	Regulatory Com ExpOther	Com Z	\$	305,876	\$ 14	14,746	\$	62,444	\$	21,834	\$	-	\$	-	\$	11,077	\$	65,774
67580	Misc. Expenses	Z	\$	381,270		18,963	\$	51,321	\$	17,945	\$	62,707	\$	34,539	\$	13,808	\$	81,986
	Total Administration ( Gameral		\$	12 000 144	¢ 2.20	10 526	Ф	1 707 274	¢	600 706	¢	2 650 245	¢	1 207 995	¢	E00 E10	¢	2 642 002
	Total Administration + General	Check	\$ \$	12,988,144	φ 3,3	98,536	Φ	1,707,271	φ	600,706	Φ	2,650,245	φ	1,397,885	Φ	589,519	φ	2,643,982
		CHECK	Ф	-														
	Total Operation & Maintenance		\$	29,883,260	\$ 867	70,116	\$	3,981,465	\$	1,395,898	\$	5,428,986	\$	2,928,418	\$ 1	,201,372	\$	6,277,006
		Check	\$	_0,000,200	- 0,01	-,	-	0,00.,.00	Ŧ	.,_00,000	7	-, .20,000	7	_,0_0,.10	· '	,_,,,,,,,,,,,,	~	-,=,000
			-															

	Allocation					Ü											
<u>TITLE</u>	Factor		<u>Total</u>		Base	Maxi	mum Day		Maximum Hour	Met	ers & Services	Billir	ng & Collection	blic F	ire Protection		Wholesale
857 Insurance Fund																	
65840 Insurance W/C - WTM	YY	\$	-	\$	- \$		-	\$	-	\$	-	\$	-	\$	-	\$	-
65870 Insurance W/C - CAO	YY	\$	-	\$	- \$		-	\$	-	\$	-	\$	-	\$	-	\$	-
62080 Materials + Supplies - A&GO	Z	\$	18,724	\$	5,842	5	2,520	\$	881	\$	3,080	\$	1,696	\$	678	\$	4,026
63180 Contractual Services-Engineer	Υ	\$	-	\$	- \$	5	-	\$	-	\$	-	\$	-	\$	-	\$	-
63380 Contract Services - Legal A&GO	Com Z	\$	-	\$	- \$	6	-	\$	-	\$	-	\$	-	\$	-	\$	-
63580 Contract Services - Other A&GO	Com Y	\$	-	\$	- \$	5	-	\$	-	\$	-	\$	-	\$	-	\$	-
Injuries and Damages	YY	\$	58,005	\$	33,442 \$	5	7,497	\$	2,640	\$	-	\$	-	\$	2,695	\$	11,730
65780 Ins. Gen. Liability	Com Z	\$	-	\$	- \$	5	-	\$	-	\$	-	\$	-	\$	-	\$	-
65980 Insurance-Other A&GO	Z	\$	1,070,516	\$	334,020 \$	6	144,098	\$	50,385	\$	176,068	\$	96,978	\$	38,768	\$	230,197
65880 Insurance - W/C	YY	\$	929,740	\$	536,034 \$	5	120,170	\$	42,318	\$	-	\$	-	\$	43,195	\$	188,023
67070 Bad Debt Expense-CAO	Com Z	\$	-	\$	- \$	5	-	\$	-	\$	-	\$	-	\$	-	\$	-
67580 Misc. Expense	Z	\$	7,606	\$	2,373 \$	5	1,024	\$	358	\$	1,251	\$	689	\$	275	\$	1,636
Funding Requirement	Com Z	\$	-	\$	- 9	5	-	\$	-	\$	-	\$	-	\$	-	\$	-
Total Insurance Fund		\$	2,084,590	\$	911,712		275,310	\$	96,582	\$	180,398	\$	99,364	\$	85,612	\$	435,613
rotal modification runa	Check	\$	2,001,000	Ψ	011,712 4	,	210,010	Ψ	00,002	Ψ	100,000	Ψ	00,001	Ψ	00,012	Ψ	100,010
	Oncor	Ψ															
878 Chemical and Sludge Maintenance Fund																	
61830 Chemicals - WTO	Α	\$	3,073,881	\$	1,694,049	6	-	\$	-	\$	-	\$	-	\$	30,739	\$	1,349,093
62030 Materials + Supplies WTO	Α	\$	-	\$	- 9		-	\$	-	\$	-	\$	-	\$	-	\$	-
62050 Materials + Supplies T&DO	Α	\$	_	\$	- 9	8	_	\$	_	\$	_	\$	_	\$	-	\$	_
63540 Contract Services - Other WTM	A	\$	1,700,000	\$	936,889	8	-	\$	_	\$	-	\$	_	\$	17,000	\$	746,111
Funding Requirement	Α	\$	685,061	\$	377,545	5	-	\$	-	\$	-	\$	-	\$	6,851	\$	300,666
Total Chemical and Sludge Mainte	nanco Eund	\$	5,458,942	¢	3,008,483		_	\$	_	\$		\$		\$	54.589	¢	2,395,870
Total Chemical and Studge Mainte	Check	φ	5,456,942	φ	3,000,463 4	•	-	Φ	-	Φ	-	φ	-	φ	54,569	φ	2,393,670
	Crieck																
Total Operating and Maintenance	Evnence	Ф.	27 426 702	¢	12,590,310	` 1	,256,775	¢	1 400 400	¢.	5,609,384	Φ	3,027,782	¢.	1,341,573	¢.	0.100.400
Total Operating and Maintenance	Check	\$ \$	37,426,792	Ф	12,590,310 \$	) 4	,256,775	Ф	1,492,480	Ф	5,609,384	Ф	3,027,782	Ф	1,341,573	Ф	9,108,489
	Crieck	Ф	-														
Less Capital Reimbursement	X4	\$	(834,389)	•	(519,520) \$	2	(75,593)	Φ	(21,962)	Ф	(48,701)	Φ.	_	\$	(27,333)	•	(141,281)
Less Capital Reinbursement	A4	φ	(034,309)	φ	(318,320) 1	,	(10,093)	φ	(21,902)	φ	(40,701)	φ	-	φ	(21,333)	φ	(141,201)
Net Operating and Maintenance E	vnonco	\$	36,592,403	¢	12,070,791 \$		,181,182	¢	1,470,518	¢	5,560,683	¢	3,027,782	¢	1,314,240	¢	8,967,208
Net Operating and Maintenance E	yheiise	Φ	30,392,403	Ф	12,070,791 \$	, 4	,101,102	Ф	1,470,516	Φ	5,500,003	Ψ	3,021,102	Ψ	1,314,240	Ф	0,307,200

	Allocation	า								
<u>TITLE</u>	<u>Factor</u>		<u>Total</u>	<u>Base</u>	Maximum Day	Maximum Hour		ling & Collection		<u>Wholesale</u>
City Services Cost	Z	\$	839,167	\$ 261,835	\$ 112,957	\$ 39,497	\$ 138,018	\$ 76,020	\$ 30,390	\$ 180,449
New Meters	С	\$	38,443	\$ -	\$ -	\$ -	\$ 38,443	\$ -	\$ -	\$ -
Lost or Stolen Meters	С	\$	41,676	\$ -	\$ -	\$ -	\$ 41,676	\$ -	\$ -	\$ -
Abandonment	Α	\$	225	\$ 124	\$ -	\$ -	\$ -	\$ -	\$ 2	\$ 99
Admin Fee from NBC	D	\$	25,000	\$ -	\$ -	\$ -	\$ 12,500	\$ 12,500	\$ -	\$ -
Misc. Accounts	Α	\$	15,594	\$ 8,594	\$ -	\$ -	\$ -	\$ -	\$ 156	\$ 6,844
Narraganset Shut-Off	D	\$	6,634	\$ -	\$ -	\$ -	\$ 3,317	\$ 3,317	\$ -	\$ -
Narraganset Shut-Off	D	\$	37,911	\$ -	\$ -	\$ -	\$ 18,956	\$ 18,956	\$ -	\$ -
Road Restoration	TD	\$	31,572	\$ 14,819	\$ 9,837	\$ 6,916	\$ -	\$ -	\$ -	\$ -
Shut Off Service Charge	D	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Shut Off For Seasonal	D	\$	1,408	\$ -	\$ -	\$ -	\$ 704	\$ 704	\$ -	\$ -
Shut Off Service Charge	D	\$	127,232	\$ -	\$ -	\$ -	\$ 63,616	\$ 63,616	\$ -	\$ -
Subpoena	Α	\$	11	\$ 6	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 5
Title Search Charge	D	\$	20,538	\$ -	\$ -	\$ -	\$ 10,269	\$ 10,269	\$ -	\$ -
\$ Transaction at Closing	Α	\$	279	\$ 154	\$ -	\$ -	\$ -	\$ -	\$ 3	\$ 123
Turn On Meter	С	\$	86,086	\$ -	\$ -	\$ -	\$ 86,086	\$ -	\$ -	\$ -
Scrap Meter Fees Garbage Pick-Up	С	\$	42,330	\$ -	\$ -	\$ -	\$ 42,330	\$ -	\$ -	\$ -
Other Misc.	Α	\$	4,633	\$ 2,553	\$ -	\$ -	\$ -	\$ -	\$ 46	\$ 2,033
Rental Income	Z	\$	1,200	\$ 374	\$ 162	\$ 56	\$ 197	\$ 109	\$ 43	\$ 258
Interest on Delinquent Accounts	RR	\$	472,048	\$ 289,544	\$ 62,327	\$ 20,970	\$ 68,620	\$ 30,587	\$ -	\$ -
Forest Product Sales	Α	\$	28,809	\$ 15,877	\$ -	\$ -	\$ -	\$ -	\$ 288	\$ 12,644
Bad Checks	Α	\$	6,180	\$ 3,406	\$ -	\$ -	\$ -	\$ -	\$ 62	\$ 2,712
Federal Grants	Α	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Loss Disposal Fixed Assets	Α	\$	1,145	\$ 631	\$ -	\$ -	\$ -	\$ -	\$ 11	\$ 502
Misc. Revenue Water Lien	Α	\$	867	\$ 478	\$ -	\$ -	\$ -	\$ -	\$ 9	\$ 381
State 1 Surcharge	Α	\$	189,348	\$ 189,348	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Less: Miscellaneous Revenues		\$	1,179,169	\$ 525,908	\$ 72,325	\$ 27,942	\$ 386,714	\$ 140,058	\$ 621	\$ 25,601

### Schedule CW-S12 **Capital Cost Allocation**

Allocation of Capital Costs Rate Year Ending December 31, 2014

	Allocation	Adjusted Test	Rate Year	Pro	Forma			Max	imum	Max	ximum		Billing &	Fire	(I)	
	Factor	Year	Adjustments	Rate	Year	Base	)	Day		Ηοι	ur	Meters	Collection	Pro	tection	Wholesale
Capital Fund	K2			\$	-		-		-		-	-			-	-
Western Cranston Fund (WCWDS Fund)	TD			\$	62,069		29,134		19,338		13,596	-			-	-
Infrastructure Replacement Fund	K1			\$	20,000,000		13,323,071		1,886,575		540,371	-			688,942	3,561,042
AMR/Meter Replacement Fund	С			\$	1,000,000		-		-		-	1,000,000			-	-
Equipment Replacement	K2			\$	600,000		135,345		56,597		16,211	264,347			20,668	106,831
				\$	21,662,069	\$	13,487,550	\$	1,962,510	\$	570,178	\$ 1,264,347	\$ .	. \$	709,610	\$ 3,667,873

## Schedule CW-S13 Property Tax Allocation

# Allocation of Property Taxes Rate Year Ending December 31, 2014

	Allocation	Pro	Forma			Maximum	Maxi	mum		Billing &	į.	Fire			
	Factor	Rat	e Year	Bas	se	Day	Hour		Meters	Collection	on	Protecti	on	Wh	olesale
*Scituate	Α	\$	5,677,446		3,128,903	-		-	-		-	56,	774		2,491,769
Foster	Α	\$	314,059		173,081	-		-	-		-	3,	141		137,837
North Providence	F	\$	273,500		102,192	67,832	4	7,691	-		-	5,4	170		50,315
Johnston	Α	\$	96,805		53,350	-		-	-		-	9	968		42,487
Cranston	Α	\$	122,555		67,541	-		-	-		-	1,2	226		53,788
*Glocester	Α	\$	56,793		31,299	-		-	-		-	!	568		24,926
West Warwick	Α	\$	3,756		2,070	-		-	-		-		38		1,648
West Glocester Fire	Α	\$	3,782		2,084	-		-	-		-		38		1,660
Harmony Fire District	Α	\$	174		96	-		-	-		-		2		76
Chepachet Fire District	Α	\$	141		78	-		-	-		-		1		62
Warwick	Α	\$	-		-	-		-	-		-		-		-
		\$	6,549,011	\$	3,560,695	\$ 67,832	\$ 4	7,691	\$ -	\$	-	\$ 68,2	225	\$	2,804,569

Allocation Factor Legend Maximum Meters & Billing & Maximum Public Fire Allocation Base Hour Services Collection Protection Wholesale Description Day 1% allocated to fire protection, remainder allocated to base and wholesale based on consumption 55.11% 0.00% 0.00% 0.00% 0.00% 1.00% 43.89% AA 1% allocated to fire protection, remainder allocated to base, maximum day, and wholesale based on consur 31.60% 23.51% 0.00% 0.00% 0.00% 1.00% 43.89% С 100% to Meters & Services 100.00% Com Y Allocated Based on Methodology in Docket # 2048, Y - Labor Reallocated from Meters and Billing 44.33% 22.78% 8.02% 0.00% 0.00% 4.65% 20.22% Allocated Based on Methodology in Docket # 2048, Z - O&M Reallocated from Meters and Billing 47.32% 20.41% 0.00% 0.00% 3.62% 21.50% Com Z 7.14% Cranston Taxes, 16% Allocator F, 84% Allocator A 52.27% 2.79% 0.00% Cran 3.97% 0.00% 1.16% 39.81% D 50% to Billing and Collections, 50% to Meters and Services 50.00% 50.00% 2% to Fire. Allocated to Base & Wholesale by Proportion of T&D Pipe in Inch Miles. Retail to Base. Max Day 37.36% 24.80% 17.44% 0.00% 0.00% 2.00% 18.40% FΡ 100.00% 100% Fire Protection 0.00% НМ T&D Maintenance Based on FY 2004 - FY 2006 Activities 25.70% 17.06% 11.99% 26.61% 0.00% 11.20% 7.43% HMY 52.32% 17.06% 11.99% 0.00% 0.00% 11.20% 7.43% Reallocation from Billing and Collections and Meters and Services to Base of HM НМС 0.00% 0.00% T&D Contract Maintenance Based on FY 2012 Activities 0.00% 100.00% 0.00% 0.00% 0.00% HOC T&D Contract Operations based on FY 2012 activities 36.87% 24.47% 17.21% 0.25% 0.00% 1.91% 19.29% K1 Allocated Based on Net Plant Investment less Land, Meters to Retail (left Fire Service) 66.62% 9.43% 2.70% 0.00% 0.00% 3,44% 17.81% K2 22.56% 2.70% 0.00% 3.44% 17.81% Allocated Based on Net Plant Investment less Land 9.43% 44.06% Based on Allocation of other Transmission & Distribution Plant except Services & Meters 35.61% 24.49% 11.65% 0.00% 0.00% 13.47% 14.78% Ν Allocation of Pumping Investment and Expenses 47.31% 9.56% 1.67% 0.92% 40.55% NO Allocation of Pumping and Investment Expenses Excluding Raw Water 34.66% 25.04% 4.37% 0.80% 35.13% NΡ Allocation Factor NO with Maximum Day and Maximum Hour reallocated to base 33.40% 24.41% 2.57% 0.88% 38.73% 10% allocated to maximum day, 90% allocated based on A 49.60% 10.00% 0.00% 0.00% 0.00% 0.90% 39.50% RR Retail Revenue 61.34% 13.20% 4.44% 14.54% 6.48% 0.00% 0.00% 26.29% Allocation of all Non-General Plant 8.41% 2.42% 38.91% 0.00% 3.20% 20.76% 46.94% TD Allocation of Base, Max Day and Max Hour of Retail only 31.16% 21.91% 0.00% 0.00% 0.00% 0.00% X1 Allocation within a Particular Goup Based on the Relationship between all Other Items in the Group 25.70% 17.06% 11.99% 26.61% 0.00% 11.20% 7.43% Χ2 Allocation within a Particular Goup Based on the Relationship between all Other Items in the Group 36.87% 24.47% 17.21% 0.25% 0.00% 1.91% 19.29% Χ4 Allocation within a Particular Goup Based on the Relationship between all Other Items in the Group 62.26% 9.06% 2.63% 5.84% 3.28% 16.93% 0.00% Based on Labor related O&M Expenses. 25.16% 12.93% 4.55% 21.30% 11.20% 4.65% 20.22% YY Reallocation from Billing and Collections and Meters and Services to base of YY 57.65% 12.93% 4.55% 4.65% 20.22% Based on Total O&M expenses, except for Adminstrative & General 13.46% 4.71% 3.62% 21.50% 31.20% 16.45% 9.06% DY Allocation Factor D with Meters and Services. Billing and Collection Reallocated to Base 100.00%

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Schedule CW-S14A **Development of Allocation Factor N** 

		Capacity	Percent of							
Station	Retail	(MGD)	Capacity	Allocation	Base	Maximum Day	Maximum Hour	Fire Protection	Wholesale	
Raw Water	Average Day	160	61.83%	Α	34.08%	0.00%	0.00%	0.62%	27.14%	
Neutaconkanut	75%	38.59	14.91%	AA	4.71%	3.51%	0.00%	0.15%	6.55%	
Bath Street	75%	28.94	11.18%	AA	3.53%	2.63%	0.00%	0.11%	4.91%	
Aqueduct	67%	11.52	4.45%	AA	1.41%	1.05%	0.00%	0.04%	1.95%	
Fruit Hill	100%	4.32	1.67%	TD	0.78%	0.52%	0.37%		0.00%	
Alpine Estates	100%	1.74	0.67%	TD	0.32%	0.21%	0.15%		0.00%	
Cranston	100%	3.83	1.48%	TD	0.69%	0.46%	0.32%		0.00%	
Garden Hills	0%	0	0.00%	TD	0.00%	0.00%	0.00%		0.00%	Taken Out of Service
Dean Estates	100%	4.32	1.67%	TD	0.78%	0.52%	0.37%		0.00%	
Greenville	100%	2.46	0.95%	TD	0.45%	0.30%	0.21%		0.00%	
Ashby Street	100%	1.44	0.56%	TD	0.26%	0.17%	0.12%		0.00%	
Atwood Avenue		1.6	0.62%	TD	0.29%	0.19%	0.14%		0.00%	Added
Totals		258.76	100.00%		47.31%	9.56%	1.67%	0.92%	40.55%	_
Excluding Raw Water	(Allocation Factor N	NO)			34.66%	25.04%	4.37%	0.80%	35.13%	100.00% ok
Dovolonment of Aller	aatian Faatan ND									

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### **Development of Allocation Factor NP**

		Capacity									]
Station	Retail	(MGD)	Po	wer Cost	Allocation	Base	Maximum Day	Maximum Hour	Fire Protection	Wholesale	
Neutaconkanut	75%	38.59	\$	210,781	AA	\$66,601.58	\$49,562.00	\$0.00	\$2,107.81	\$92,509.37	43.89%
Bath Street	75%	28.94	\$	329,874	AA	\$104,232.04	\$77,564.95	\$0.00	\$3,298.74	\$144,777.95	43.89%
Aqueduct	67%	11.52	\$	140,622	AA	\$44,433.06	\$33,065.15	\$0.00	\$1,406.22	\$61,717.37	43.89%
Fruit Hill	100%	4.32	\$	35,137	TD	\$16,492.60	\$10,947.24	\$7,696.72		\$0.00	0.00%
Alpine Estates	100%	1.74	\$	2,256	TD	\$1,058.73	\$702.75	\$494.09		\$0.00	0.00%
Cranston	100%	3.83	\$	13,035	TD	\$6,118.46	\$4,061.23	\$2,855.35		\$0.00	0.00%
Dean Estates	100%	1.44	\$	18,908	TD	\$8,875.30	\$5,891.13	\$4,141.90		\$0.00	0.00%
Greenville	100%	2.46	\$	12,328	TD	\$5,786.44	\$3,840.85	\$2,700.40		\$0.00	0.00%
Ashby Street	100%	0	\$	-	TD	\$0.00	\$0.00	\$0.00		\$0.00	#DIV/0!
Atwood Avenue	100%	1.6	\$	9,002	TD	\$4,225.39	\$2,804.67	\$1,971.89		\$0.00	0.00%
Totals		94.44	\$	771,941	•	\$257,823.60	\$188,439.99	\$19,860.35	\$6,812.76	\$299,004.70	-
						33.40%	24.41%	2.57%	0.88%	38.73%	
<b>Excluding Raw Water</b>	with no Maximum [	Day or Maxir	num	Hour (Allo	cation Factor NP)	60.38%				38.73%	

### Schedule CW-S14B

	-	
Allocations	Factor	Detail/Comparison

					Billing &	Public Fire			
Factor	Base	Maximum Day	Maximum Hour	Meters & Services	Collection	Protection	Wholesale		Check
A	54.65%					1.00%	44.35% C	Current	0.00%
A	55.11%					1.00%	43.89% F	Proposed	0.00%

# Methodology: Allocate 1% to fire and split the remaining 99% between base and wholesale according to pro-forma consumption

	Proposed	Current
Fire Protection	1.00%	1.00%
Remainder to be Split	99.00%	99.00%
Wholesale Pro-Forma Consumption	13,207,154	14,836,697
Retail Pro-Forma Consumption	16,584,161	18,279,662
Total	29,791,315	33,116,360
Wholesale Proportion	44.33%	44.80%
Retail Proportion	55.67%	55.20%
Total	100.00%	100.00%
Wholesale Allocation	43.89%	44.35%
Base Allocation	55.11%	54.65%

					Billing &	Public Fire			i
Factor	Base	Maximum Day	Maximum Hour	Meters & Services	Collection	Protection	Wholesale		Check
AA	31.47%	20.77%				1.00%	46.76% Curr	ent	0.00%
AA	31.60%	23.51%				1.00%	43.89% Prop	osed	0.00%

### Methodology: 1% allocated to fire protection, remainder allocated to base, maximum day, and wholesale based on consumption

	Proposed	Current		
Fire Protection	1.00%	1.00%		
Remainder to be Split	99.00%	99.00%		
Wholesale Pro-Forma Consumption Retail Pro-Forma Consumption Total	13,207,154 16,584,161 29,791,315	14,064,345 15,712,061 29,776,406	44.3% 55.7%	47.2% 52.8%
Total	29,791,313	29,770,400		
Wholesale Proportion Retail Proportion Total	44.33% 55.67% 100.00%	52.77%		
Wholesale Allocation	43.89%	46.76%		
Remainder to be allocated to Base and Max Day	55.11%	52.24%		
Base Units of Service  Max Day Units of Service	35,921 26,731	28,420		
Total	62,652.33	71,466.78		
Base Proportion Max Day Proportion	57.33% 42.67%			
Base Allocation Max Day Allocation	31.60% 23.51%			

### Schedule CW-S14B

Allocations	Factor	Detail/Comparison
Allocations	гасіоі	Detail/Companison

					Billing &	Public Fire			
Factor	Base	Maximum Day	Maximum Hour	Meters & Services	Collection	Protection	Wholesale		Check
P	47.08%	10.00%	0.00%	0.00%	0.00%	0.90%	42.02% Cu	rrent	0.00%
Р	49.60%	10.00%			•	0.90%	39.50% Pro	oposed	0.00%

### Methodology: 10% allocated to maximum day, 90% allocated based on A

Allocation to Max Day	Proposed Current 10.00%
Remainder to be Allocated based on A	90.00% 90.00%
1% Allocated to Public Fire	0.90% 0.90%
Reminder to be Allocated to Base and Wholesale	89.10% 89.10%
Wholesale Pro-Forma Consumption Retail Pro-Forma Consumption Total	13,207,154 16,584,161 15,545,910 29,791,315 29,422,315
Wholesale Proportion Retail Proportion Total	44.33% 47.16% 55.67% 52.84% 100.00% 100.00%
Wholesale Allocation Base Allocation	39.50% 42.02% 49.60% 47.08%
	In the second se

					Billing &	Public Fire			
Factor	Base	Maximum Day	Maximum Hour	Meters & Services	Collection	Protection	Wholesale		Check
TD	46.50%	31.10%	22.40%					Current	0.00%
TD	46.94%	31.16%	21.91%					Proposed	0.00%

### Methodology: Allocation of Base, Max Day and Max Hour of Retail only

	Proposed	C	Current
Base Demand (Retail Only)		35,921	42,592
Maximum Day (Retail Only)		23,843	28,482
Maximum Hour (Retail Only)		16,764	20,514
Base Allocation (Retail Only)		46.94%	46.50%
Maximum Day Allocation (Retail Only)		31.16%	31.10%
Maximum Hour Allocation (Retail Only)		21.91%	22.40%

					Billing &	Public Fire			
Factor	Base	Maximum Day	Maximum Hour	Meters & Services	Collection	Protection	Wholesale		Check
X4	40.23%	16.71%	7.06%	8.12%	0.00%	0.06%	27.83% Cur	rrent	0.00%
X4	62.26%	9.06%	2.63%	5.84%	0.00%	3.28%	16.93% Pro	posed	0.00%

### Schedule CW-S14B

### Allocations Factor Detail/Comparison

Methodology: Allocation within a Particular Goup Based on the Relationship between all Other Items in the Group

Page Capital Fund	Pro	posed	Current
Base, Capital Fund Sum of Remaining Capital Fund Categories		13,487,550	846,739 6,398,767
Total for Capital Fund Total of All Other Capital	\$	21,662,069	\$ 2,450,000 15562069
Base Allocation		62.26%	40.23%
Max Day, Capital Fund Sum of Remaining Capital Fund Categories		- 1,962,510	\$ 2,569,207 2655709.509
Total for Capital Fund Total of All Other Capital	\$	21,662,069	\$ 2,450,000 15,562,069
Max Day Allocation		9.06%	29.01%
Max Hour, Capital Fund Sum of Remaining Capital Fund Categories		570,178	149203.8591 1,121,806
Total for Capital Fund Total of All Other Capital	\$	21,662,069	\$ 2,450,000 15,562,069
Max Hour Allocation		2.63%	7.06%
Meters and Services, Capital Fund Sum of Remaining Capital Fund Categories		- 1,264,347	371,971 1,091,095
Total for Capital Fund Total of All Other Capital	\$	21,662,069	\$ 2,450,000 15,562,069
Meters and Services Allocation		5.84%	8.12%
Billing and Collection, Capital Fund Sum of Remaining Capital Fund Categories		-	-
Total for Capital Fund Total of All Other Capital	\$	21,662,069	\$ 2,450,000 15562069
Billing and Collection Allocation		0.00%	0.00%
Public Fire Protection, Capital Fund Sum of Remaining Capital Fund Categories		- 709,610	8,570 2,720
Total for Capital Fund Total of All Other Capital	\$	21,662,069	\$ 2,450,000 15562069
Public Fire Protection, Allocation		3.28%	0.06%
Wholesale, Capital Fund Sum of Remaining Capital Fund Categories		- 3,667,873	720298.4594 \$ 4,291,972
Total for Capital Fund Total of All Other Capital	\$	21,662,069	\$ 2,450,000 15562069
Wholesale, Allocation		16.93%	27.83%

### Schedule CW-S14B Allocations Factor Detail/Comparison

									Billing &	Public Fire			
Factor	Base	04.450/	Maximum D		Maximu	m Hour	Meters		Collection	Protection	Wholesale		Check
Y Y		24.15% 25.16%		13.40%	l	4.04% 4.55%	l	20.98%	12.76% 11.20%	1.67% 4.65%		Current	0.00% 0.00%
1		25.10%		12.93%		4.55%		21.30%	11.20%	4.05%	20.22%	Proposed	0.00%
Methodology: Based on Labor related O&M Expenses.													
Proposed			Total		Base		MD		MH	M&S	B&C	PFP	Wholesale
Source of Supply Labor	_			1,116,126.27	Dase	615,109.38		0.00	0.00	0.00	0.00		489,855.63
Pumping Labor				0.00		0.00		0.00	0.00	0.00	0.00		0.00
Water Treatment Plant Labor				2,506,581.27		792,018.53		589,385.79	0.00	0.00	0.00		1,100,111.14
T&D Labor				3,466,808.72		891,038.28		591,441.69	415,827.27	922,681.51	0.00		257,603.20
Customer Accounts Labor				2,046,384.02		0.00		0.00	0.00	1,023,192.01	1,023,192.01	0.00	0.00
Administration Labor				5,749,306.12		1,446,257.13		743,105.60	261,683.93	1,224,556.11	643,904.15	267,106.42	1,162,692.78
	_								500	252			
Proposed Allocation	_Base	25.16%	MD	12.93%	MH	4.55%	M&S	21.30%	B&C 11.20%	PFP 4.65%	Wholesale 20.22%		
Allocation		25.16%		12.93%		4.55%		21.30%	11.20%	4.00%	20.2270		
0			T. ( - 1		D		MD				B00	DED	Maria a la
Current Source of Supply Labor	_		Total \$	750,591	Base \$	392,625	MD		MH \$ -	M&S \$ -	B&C \$ -		Wholesale \$ 350,460
Pumping Labor			э \$	750,591	\$ \$		\$ \$		\$ -	\$ -	ъ - \$ -	\$ 7,506	\$ 350,460
Water Treatment Plant Labor			\$	2,358,221	*	739,223		494,333	*	\$ -	\$ -	\$ 23,582	\$ 1,101,082
T&D Labor			\$	3,298,881	\$	891,328				\$ 772,875	\$ 84,571	\$ 109,207	\$ 474,416
Customer Accounts Labor			\$	1,968,504	\$		\$		\$ -	\$ 984,252	\$ 984,252	\$ 105,207	\$ -
Administration Labor			\$	5,120,545		1,236,810			•	\$ 1,074,169	\$ 653,394		\$ 1,177,379
Current	Base		MD		МН		M&S		B&C	PFP	Wholesale		
Allocation	_ Dase	24.15%	IVID	13.40%	IVIII	4.04%	IVIQO	20.98%	12.76%	1.67%	22.99%		
	_		1		1		1		D:II: 0	Public Fire	T	7 1	
Factor	Rase		Maximum D	av	Mavimi	ım Hour	Meter		Billing &		Wholesale		Check
Factor 7	Base	33 52%	Maximum D		Maximu	m Hour	Meters	s & Services	Collection	Protection	Wholesale		Check
Factor Z Z	Base	33.52% 31.20%	Maximum D	16.91% 13.46%		m Hour 5.26% 4.71%	Meters				25.23%	Current Proposed	0.00% 0.00%
Z Z		31.20%	Maximum D	16.91%		5.26%	Meters	s & Services 10.87%	Collection 6.70%	Protection 1.51%	25.23%	Current	0.00%
Z		31.20%	Maximum D	16.91%		5.26%	Meters	s & Services 10.87%	Collection 6.70%	Protection 1.51%	25.23%	Current	0.00%
Z Z Methodology: Based on Total O&M expenses, except fo		31.20% ral		16.91%		5.26% 4.71%	Meters	10.87% 16.45%	6.70% 9.06%	Protection 1.51%	25.23%	Current Proposed	0.00%
Z Z		31.20% ral	Maximum D	16.91%		5.26% 4.71%		10.87% 16.45%	6.70% 9.06%	Protection 1.51% 3.62%	25.23% 21.50% B&C	Current Proposed PFP	0.00% 0.00%
Z Z Methodology: Based on Total O&M expenses, except fo Proposed		31.20% ral		16.91% 13.46%	Base	5.26% 4.71%		10.87% 16.45%	Collection 6.70% 9.06% MH	Protection 1.51% 3.62% M&S	25.23% 21.50% B&C	Current Proposed PFP 21,587	0.00% 0.00% Wholesale
Z Z Methodology: Based on Total O&M expenses, except fo Proposed Source of Supply Pumping Water Treatment Plant		31.20% ral		16.91% 13.46% 2,158,681 791,054 4,289,961	Base	5.26% 4.71% 1,189,673 264,363 1,396,285		10.87% 10.45% 16.45% 0 193,183 978,123	Collection 6.70% 9.06% MH 0 20,575 0	Protection 1.51% 3.62% M&S 0 0	25.23% 21.50% B&C 0	PFP 21,587 6,971 42,673	0.00% 0.00% Wholesale 947,422 305,962 1,872,880
Z Z Methodology: Based on Total O&M expenses, except fo Proposed Source of Supply Pumping Water Treatment Plant T&D		31.20% ral		16.91% 13.46% 2,158,681 791,054 4,289,961 5,838,857	Base	5.26% 4.71% 1,189,673 264,363 1,396,285 1,665,763		10.87% 10.45% 16.45% 0 193,183 978,123 1,102,887	MH 0 20,575 0 774,617	Protection 1.51% 3.62%  M&S 0 0 0 1,248,207	25.23% 21.50% B&C 0 0	PFP 21,587 6,971 42,673 540,621	0.00% 0.00% Wholesale 947,422 305,962 1,872,880 506,761
Z Z Methodology: Based on Total O&M expenses, except fo Proposed Source of Supply Pumping Water Treatment Plant		31.20% ral		16.91% 13.46% 2,158,681 791,054 4,289,961	Base	5.26% 4.71% 1,189,673 264,363 1,396,285		10.87% 10.45% 16.45% 0 193,183 978,123	Collection 6.70% 9.06% MH 0 20,575 0	Protection 1.51% 3.62% M&S 0 0	25.23% 21.50% B&C 0	PFP 21,587 6,971 42,673 540,621	0.00% 0.00% Wholesale 947,422 305,962 1,872,880
Z Z Methodology: Based on Total O&M expenses, except fo Proposed Source of Supply Pumping Water Treatment Plant T&D		31.20% ral		16.91% 13.46% 2,158,681 791,054 4,289,961 5,838,857	Base	5.26% 4.71% 1,189,673 264,363 1,396,285 1,665,763		10.87% 10.45% 16.45% 0 193,183 978,123 1,102,887	MH 0 20,575 0 774,617	Protection 1.51% 3.62%  M&S 0 0 0 1,248,207	25.23% 21.50% B&C 0 0	PFP 21,587 6,971 42,673 540,621	0.00% 0.00% Wholesale 947,422 305,962 1,872,880 506,761
Z Z Methodology: Based on Total O&M expenses, except fo  Proposed Source of Supply Pumping Water Treatment Plant T&D Customer Accounts  Proposed		31.20% ral		16.91% 13.46% 2,158,681 791,054 4,289,961 5,838,857 3,816,563	Base	5.26% 4.71% 1,189,673 264,363 1,396,285 1,665,763 755,496		0 193,183 978,123 1,102,887 0	Collection 6.70% 9.06%  MH 0 20,575 0 774,617 0  B&C	Protection 1.51% 3.62%  M&S 0 0 0 1,248,207 1,530,534	25.23% 21.50% B&C 0 0 1,530,534 Wholesale	Current Proposed PFP 21,587 6,971 42,673 540,621	0.00% 0.00% Wholesale 947,422 305,962 1,872,880 506,761
Z Z Methodology: Based on Total O&M expenses, except fo Proposed Source of Supply Pumping Water Treatment Plant T&D Customer Accounts	Adminstrative & Gener	31.20% ral	Total	16.91% 13.46% 2,158,681 791,054 4,289,961 5,838,857	Base	5.26% 4.71% 1,189,673 264,363 1,396,285 1,665,763 755,496	MD	0 193,183 978,123 1,102,887 0	MH 0 20,575 0 774,617 0	Protection 1.51% 3.62%  M&S 0 0 0 1,248,207 1,530,534	25.23% 21.50% B&C 0 0 0 1,530,534	Current Proposed PFP 21,587 6,971 42,673 540,621	0.00% 0.00% Wholesale 947,422 305,962 1,872,880 506,761
Z Z Methodology: Based on Total O&M expenses, except fo  Proposed Source of Supply Pumping Water Treatment Plant T&D Customer Accounts  Proposed	Adminstrative & Gener	31.20% ral	Total	16.91% 13.46% 2,158,681 791,054 4,289,961 5,838,857 3,816,563	Base	5.26% 4.71% 1,189,673 264,363 1,396,285 1,665,763 755,496	MD	0 193,183 978,123 1,102,887 0	Collection 6.70% 9.06%  MH 0 20,575 0 774,617 0  B&C	Protection 1.51% 3.62%  M&S 0 0 0 1,248,207 1,530,534	25.23% 21.50% B&C 0 0 1,530,534 Wholesale	Current Proposed PFP 21,587 6,971 42,673 540,621	0.00% 0.00% Wholesale 947,422 305,962 1,872,880 506,761
Z Z Methodology: Based on Total O&M expenses, except fo  Proposed Source of Supply Pumping Water Treatment Plant T&D Customer Accounts  Proposed Allocation  Current	Adminstrative & Gener	31.20% ral	Total MD Total	16.91% 13.46% 2,158,681 791,054 4,289,961 5,838,857 3,816,563	Base MH	5.26% 4.71% 1,189,673 264,363 1,396,285 1,665,763 755,496	MD M&S	0 193,183 978,123 1,102,887 0	MH 0 20,575 0 774,617 0 B&C 9.06%	Protection 1.51% 3.62%  M&S 0 0 0 1,248,207 1,530,534  PFP 3.62%	25.23% 21.50% B&C 0 0 1,530,534 Wholesale 21.50%	Current Proposed  PFP 21,587 6,971 42,673 540,621 0	0.00% 0.00% Wholesale 947,422 305,962 1,872,880 506,761 0
Z Z Methodology: Based on Total O&M expenses, except fo  Proposed Source of Supply Pumping Water Treatment Plant T&D Customer Accounts  Proposed Allocation  Current Source of Supply	Adminstrative & Gener	31.20% ral	Total  Total	16.91% 13.46% 2,158,681 791,054 4,289,961 5,838,857 3,816,563 13.46%	Base MH Base	5.26% 4.71% 1,189,673 264,363 1,396,285 1,665,763 755,496 4.71%	MD M&S MD \$	0 193,183 978,123 1,102,887 0	MH 0 20,575 0 774,617 0 B&C 9.06%	Protection 1.51% 3.62%  M&S 0 0 1,248,207 1,530,534  PFP 3.62%  M&S \$	25.23% 21.50% B&C 0 0 1,530,534 Wholesale 21.50% B&C \$ -	Current Proposed  PFP 21,587 6,971 42,673 540,621 0  PFP \$ 14,032	0.00% 0.00% Wholesale 947,422 305,962 1,872,880 506,761 0
Z Z Methodology: Based on Total O&M expenses, except fo Proposed Source of Supply Pumping Water Treatment Plant T&D Customer Accounts  Proposed Allocation  Current Source of Supply Pumping	Adminstrative & Gener	31.20% ral	Total  Total  \$	16.91% 13.46% 2,158,681 791,054 4,289,961 5,838,857 3,816,563 13.46% 1,403,154 1,110,085	Base MH Base \$	5.26% 4.71% 1,189,673 264,363 1,396,285 1,665,763 755,496 4.71% 733,972 518,927	MMD M&S MD \$ \$	0 10.87% 16.45% 0 193,183 978,123 1,102,887 0 16.45%	MH 0 20,575 0 774,617 0 B&C 9.06%	Protection  1.51% 3.62%  M&S 0 0 1,248,207 1,530,534  PFP 3.62%  M&S \$ - \$ - \$ -	25.23% 21.50%  B&C 0 0 0 1,530,534  Wholesale 21.50%  B&C \$ - \$ - \$	PFP \$ 14,032 \$ 10,014	0.00% 0.00% Wholesale 947,422 305,962 1,872,880 506,761 0
Z Z Methodology: Based on Total O&M expenses, except fo  Proposed Source of Supply Pumping Water Treatment Plant T&D Customer Accounts  Proposed Allocation  Current Source of Supply Pumping Water Treatment Plant Touck Touc	Adminstrative & Gener	31.20% ral	Total  Total  \$ \$ \$	16.91% 13.46% 2,158,681 791,054 4,289,961 5,838,857 3,816,563 13.46% 1,403,154 1,110,085 4,705,839	Base MH Base \$	5.26% 4.71% 1,189,673 264,363 1,396,285 1,665,763 755,496 4.71% 733,972 518,927 1,692,591	MD M&S	0 193,183 978,123 1,102,887 0 16.45%	MH 0 20,575 0 774,617 0 B&C 9.06%	Protection  1.51% 3.62%  M&S 0 0 1,248,207 1,530,534  PFP 3.62%  M&S \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	25.23% 21.50%  B&C 0 0 1,530,534  Wholesale 21.50%  B&C \$ \$ - \$ - \$ - \$ - \$ \$	PFP \$ 14,032 \$ 10,014 \$ 56,358	0.00% 0.00% 0.00% Wholesale 947,422 305,962 1,872,880 506,761 0
Z Z Methodology: Based on Total O&M expenses, except fo  Proposed Source of Supply Pumping Water Treatment Plant T&D Customer Accounts  Proposed Allocation  Current Source of Supply Pumping Water Treatment Plant T&D  Customer Accounts	Adminstrative & Gener	31.20% ral	Total  Total  \$ \$ \$ \$	16.91% 13.46% 2,158,681 791,054 4,289,961 5,838,857 3,816,563 13.46% 1,403,154 1,110,085 4,705,839 6,671,221	Base MH Base \$ \$ \$ \$	5.26% 4.71% 1,189,673 264,363 1,396,285 1,665,763 755,496 4.71% 733,972 518,927 1,692,591 2,304,123	MD M&S	0 193,183 978,123 1,102,887 0 16.45%	MH 0 20,575 0 774,617 0 B&C 9.06%	Protection  1.51% 3.62%  M&S 0 0 0 1,248,207 1,530,534  PFP 3.62%  M&S \$ - \$ 8 - \$ 8 - \$ 803,492	25.23% 21.50%  B&C 0 0 1,530,534  Wholesale 21.50%  B&C \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	PFP \$ 14,032 \$ 10,014 \$ 56,358 \$ 159,636	0.00% 0.00% 0.00% Wholesale 947,422 305,962 1,872,880 506,761 0
Z Z Methodology: Based on Total O&M expenses, except fo  Proposed Source of Supply Pumping Water Treatment Plant T&D Customer Accounts  Proposed Allocation  Current Source of Supply Pumping Water Treatment Plant Touck Touc	Adminstrative & Gener	31.20% ral	Total  Total  \$ \$ \$	16.91% 13.46% 2,158,681 791,054 4,289,961 5,838,857 3,816,563 13.46% 1,403,154 1,110,085 4,705,839	Base MH Base \$ \$ \$ \$	5.26% 4.71% 1,189,673 264,363 1,396,285 1,665,763 755,496 4.71% 733,972 518,927 1,692,591 2,304,123	MD M&S	0 193,183 978,123 1,102,887 0 16.45%	MH 0 20,575 0 774,617 0 B&C 9.06%	Protection  1.51% 3.62%  M&S 0 0 1,248,207 1,530,534  PFP 3.62%  M&S \$ - \$ - \$ - \$ - \$	25.23% 21.50%  B&C 0 0 1,530,534  Wholesale 21.50%  B&C \$ \$ - \$ - \$ - \$ - \$ \$	PFP \$ 14,032 \$ 10,014 \$ 56,358 \$ 159,636	0.00% 0.00% 0.00% Wholesale 947,422 305,962 1,872,880 506,761 0
Z Z Methodology: Based on Total O&M expenses, except fo  Proposed Source of Supply Pumping Water Treatment Plant T&D Customer Accounts  Proposed Allocation  Current Source of Supply Pumping Water Treatment Plant T&D  Customer Accounts	Adminstrative & Gener	31.20% ral	Total  Total  \$ \$ \$ \$	16.91% 13.46% 2,158,681 791,054 4,289,961 5,838,857 3,816,563 13.46% 1,403,154 1,110,085 4,705,839 6,671,221	Base MH Base \$ \$ \$ MH	5.26% 4.71% 1,189,673 264,363 1,396,285 1,665,763 755,496 4.71% 733,972 518,927 1,692,591 2,304,123 536,948	MD M&S	0 10.87% 16.45% 0 193,183 978,123 1,102,887 0 16.45% 113,571 1,004,092 1,503,997 297,780	MH  0 20,575 0 774,617 0  B&C 9.06%  MH \$ 103,819 \$ 103,819 \$ 714,401 \$ 89,919	Protection  1.51% 3.62%  M&S 0 0 0 1,248,207 1,530,534  PFP 3.62%  M&S \$ - \$ 8 - \$ 8 - \$ 803,492	25.23% 21.50%  B&C 0 0 1,530,534  Wholesale 21.50%  B&C \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	PFP 21,587 6,971 42,673 540,621 0  PFP \$ 14,032 \$ 10,014 \$ 56,358 \$ 159,636 \$ 20,559	0.00% 0.00% 0.00% Wholesale 947,422 305,962 1,872,880 506,761 0

### Schedule CW-S14B Allocations Factor Detail/Comparison

Methodology: 2% to Fire, Allocated to Base & Wholesale by Proportion of T&D Pipe in Inch Miles, Retail to Base, Max Day and Hour

Factor F	Base 37.36%	Maximum Day 24.80%	Meters & Services		Wholesale 18.40%	Proposed	Check	0.00%
2% Allocated to Fire	2.00%							
Remainder to Be Allocated to Base and Wholesale	98.00%	On Inch-Miles						
Wholesale Share of Unnaccounted for Water Wholesale Allocation	4.33% 4.24%	18.77%						
Remainder to be Allocated to Retail	93.76%	79.60%						
Base Max Day Max Hour	46.94% 31.16% 21.91%	31.16%						
Base Allocation Max Day Allocation Max Hour Allocation	44.01% 29.21% 20.54%	24.80%						

Schedule CW-S14C PWSB Response to KCWA 1-13b Update of Factors HM, HOC and HMC

				Maximum	Maximum	Meters &	Billing &	Public Fire	
	Allocation Factor	Total	Base	Day	Hour	Services	Collection	Protection	Wholesale
Transmission & Distribution - Salaries & Wages T&D (M)	- HM								
FY 2010 Allocation			25.98%	17.24%	12.12%	29.68%	0.00%	8.60%	
FY 2011 Allocation			26.14%	17.35%	12.20%	24.25%	0.00%	12.34%	7.72%
FY 2012 Allocation			24.99%	16.59%	11.66%	25.91%	0.00%	12.66%	8.20%
Average Allocation			25.70%	17.06%	11.99%	26.61%	0.00%	11.20%	7.43%
Transmission & Distribution - Contract Services Other To	&D (O) - HOC								
FY 2010 Allocation	, ,		37.72%	25.03%	17.60%	0.02%	0.00%	1.91%	17.72%
FY 2011 Allocation			35.59%	23.60%	16.62%	0.70%	0.00%	1.83%	21.65%
FY 2012 Allocation			37.31%	24.76%	17.41%	0.03%	0.00%	1.99%	18.49%
Average Allocation			36.87%	24.47%	17.21%	0.25%	0.00%	1.91%	19.29%
Transmission & Distribution - Contract Services Other To	&D (M) - HMC								
FY 2010 Allocation			0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%
FY 2011 Allocation			0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%
FY 2012 Allocation			0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%
Average Allocation			0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%

	Г	I		1/1	laximum	Ma	ximum	M	eters &	D:	illing &	D	blic Fire		
	Allocation Factor	Total	Base	IVI	Day		Hour		ervices		llection		otection	Who.	lesale
PWSB Response to KCWA 1-13b	Allocation i actor	i Ulai	Dase		Бау		ioui	36	SI VICES	CO	iii e Cii Oi I	FI	OLECTION	VVIIO	icsaic
Update of Factors HM, HOC and HMC															
FY 2012															
11 2012				М	laximum	Ma	ximum	Me	eters &	Bi	illing &	Pu	blic Fire		
	Allocation Factor	Total	Base		Dav		Hour		ervices		llection	_	otection	Who	lesale
nsmission & Distribution - Salaries & Wages T&D (M)												1			
, , , , , , , , , , , , , , , , , , ,		(Labor Costs)													
TD HYDRANT-REMOVAL T&D OPER	FP	Ó	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
TD MAIN-REMOVAL T&D OPER	F	1,227	\$ 459	\$	304	\$	214	\$	-	\$	-	\$	25	\$	226
TD SERVICE-REMOVAL T&D OPER	С	15,752		\$	-	\$	-	\$	15,752	\$	-	\$	-	\$	-
TD VALVE-REMOVAL T&D OPER	F	389	\$ 145	\$	96	\$	68	\$	-	\$	-	\$	8	\$	72
TD BLOWOFF-INSTALL IFR	F	2,303	\$ 860	\$	571	\$	402	\$	-	\$	-	\$	46	\$	424
TD HYDRANT-INSTALL IFR	FP	41,398	\$ -	\$	-	\$	-	\$	-	\$	-	\$	41,398	\$	-
TD MAIN-INSTALL SECTION IFR	F	0	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
TD BLOWOFF-REMOVAL IFR	F	519	\$ 194	\$	129	\$	91	\$	-	\$	-	\$	10	\$	96
TD HYDRANT-REMOVAL IFR	FP	37,882	\$ -	\$	-	\$	-	\$	-	\$	-	\$	37,882	\$	-
TD MAIN-REMOVAL SECTION IFR	F	1,122	\$ 419	\$	278	\$	196	\$	-	\$	-	\$	22	\$	206
TD SERVICE-REMOVAL IFR	С	38,340	\$ -	\$	-	\$	-	\$	38,340	\$	-	\$	-	\$	-
TD VALVE-REMOVAL IFR	F	19,722	\$ 7,369	\$	4,891	\$	3,439	\$	-	\$	-	\$	394	\$	3,628
TD SERVICE-INSTALL 1" IFR	С	34,074	\$ -	\$	-	\$	-	\$	34,074	\$	-	\$	-	\$	-
TD SERVICE-INSTALL 1.5" IFR	С	1,130	\$ -	\$	-	\$	-	\$	1,130	\$	-	\$	-	\$	-
TD SERVICE-INSTALL 0.75" IFR	С	450	\$ -	\$	-	\$	-	\$	450	\$	-	\$	-	\$	-
TD VALVE-INSTALL 12" IFR	F	2,011	\$ 751	\$	499	\$	351	\$	-	\$	-	\$	40	\$	370
TD VALVE-INSTALL 6" IFR	F	9,574	\$ 3,577	\$	2,374	\$	1,669	\$	-	\$	-	\$	191	\$	1,761
TD VALVE-INSTALL 8" IFR	F	4,618		\$	1,145	\$	805	\$	-	\$	-	\$	92	\$	849
TD BLOWOFF/BYPASS-INSTALL NEW	F	1,739	\$ 650	\$	431	\$	303	\$	-	\$	-	\$	35	\$	320
TD VALVE-INSTALL 6" NEW	F	1,167	\$ 436	\$	289	\$	203	\$	-	\$	-	\$	23	\$	215
TD SERVICE-INSTALL 1" DOM/FIRE	С	22,931		\$	-	\$	-	\$	22,931	\$	-	\$	-	\$	-
TD SERVICE-INSTALL 1.5"	С	7,263	\$ -	\$	-	\$	-	\$	7,263	\$	-	\$	-	\$	-
TD SERVICE-INSTALL 2" DOM/FIRE	С	11,747		\$	-	\$	-	\$	11,747	\$	-	\$	-	\$	-
TD SERVICE-INSTALL 4" DOM/FIRE	С	9,148		\$	-	\$	=	\$	9,148	\$	-	\$	-	\$	-
TD SERVICE-INSTALL 6" DOM/FIRE	С	8,867		\$	-	\$	-	\$	8,867	\$	-	\$	-	\$	-
TD HYDRANT-INSTALL CUSTODIAN	FP	10,424		\$	-	\$	-	\$	=	\$	-	\$	10,424	\$	-
TD HYDRANT-INSTALL NEW	FP	0		\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
TD HYDRANT-RELOCATE EXISTING	FP	937	•	\$	-	\$	-	\$	-	\$	-	\$	937	\$	-
TD VALVE-EXERCISE (SCHEDULED)	F	45		\$	11	\$	8	\$	-	\$	-	\$	1	\$	8
TD VALVE-LOCATE	F	298	*	\$	74	\$	52	\$	-	\$	-	\$	6	\$	55
TD VALVE-ADJUST GATE BOX	F -	26,284		\$	6,519	\$	4,583	\$	-	\$	-	\$			4,835
TD VALVE-REPAIR/REPACK	F	30,577			7,584	\$	5,332	\$	-	\$	-	\$			5,625
TD MAIN-REPAIR LEAK ON A MAIN	F	47,270			11,724	\$	8,243	\$	-	\$	-	\$			8,696
TD BLOWOFF-REPAIR/LOCATE	F	1,450		*		*	253	\$	-	\$	-	\$	29	\$	267
TD SERVICE-CLOSE FOR REPAIR	C	721	*	\$	-	\$	-	\$	721	\$	-	\$	-	\$	-
TD SERVICE-ADJUST BOX TO GRADE	С	8,182	\$ -	\$	-	\$	-	\$	8,182	\$	-	\$	-	\$	-

## Schedule CW-S14C PWSB Response to KCWA 1-13b Update of Factors HM, HOC and HMC

					N	laximum	N	/laximum	N	leters &	F	Billing &	Ρı	ıblic Fire		
	Allocation Factor	Total		Base		Day	10	Hour		Services		ollection		otection	W	holesale
TD SERVICE-DIG UP CURBBOX	C	36.027		-	\$	-	\$	-	\$		\$	-	\$	-	\$	-
TD SERVICE-DIG UP FOR METER	Č	1,797	*	_	\$	_	\$	_	\$	1,797	-	_	\$	_	\$	_
TD SERVICE-LOCATE STOP	č	726		_	\$	_	\$	_	\$	726	\$	_	\$	_	\$	_
TD MAIN-BLOW OFF	F	3.403		1,271	\$	844	\$	593	\$	-	\$	_	\$	68	\$	626
TD SERVICE-REPAIR LEAK	Ċ	57,001	*	1,211	\$	-	\$	- -	\$	57,001	\$	_	\$	-	Ψ	-
TD SERVICE-REPLACE/REPAIR STOP	C	8,303		_	\$	_	\$	_	\$	8,303	\$	_	\$	_	Ψ	_
TD HYDRANT-MAINTENANCE	FP	2,730		_	\$	_	\$	_	\$	-	\$	_	\$	2,730	φ	_
TD HYDRANT-REPAIR	FP	13,779		_	\$	_	\$	_	\$	_	\$	_	\$	13,779	Ψ	_
TD COVER-REPLACE SERVICE/VALVE	C	2,574		_	\$	_	\$	_	\$	2,574	\$	_	\$	-	Ψ	_
TD LEAK-CHECK ON VL,WS,WM,HY	F	649		242	\$	161	\$	113	\$	2,57 -	\$	_	\$	13	\$	119
TD T&D-MISCELLANEOUS MAINT.	F	3,332	*	1,245	\$	826	\$	581	\$	_	\$		\$	67	\$	613
TD DIG SAFE PROGRAM	г Е	303,330		,	\$	75,230	\$	52,892	\$	-	\$	-	\$	6.067	\$	55.803
105 CT CHECK TRENCH	F	5,090		1,902	*	1,262	\$	888	\$	-	\$	-	\$	102	\$	936
105RT REPAIR TRENCH	F	9.142		3,416		2,267	\$	1,594	\$	_	\$	-	\$	183	\$	1,682
WATER QUALITY ISSUES	TD	11,777	- :	5,528		3,669	\$	2,580	\$	-	\$	-	\$	-	\$	1,002
LOCATE VALVE	F	15,149		5,660		3,757		2,560	\$	-	\$	-	\$	303	\$	2.787
EXERCISE VALVE	F	12,503		4,672		3,101		2,042	\$	-	\$	-	φ \$	250	\$	2,707
CHECK CONDITION OF VALVE	r F	28,037		10,476		6,954	φ \$	4,889	φ \$	-	\$	-	\$	561	Ф \$	2,300 5,158
CHECK CONDITION OF VALVE CHECK CONDITION OF GATE BOX	r F	3,392						4,669 592	φ \$	- -	Ф \$	-	\$	68	Ф \$	624
CHECK CONDITION OF GATE BOX CHECK FOR NO RUSTY WATER	r TD	3,392 8,872		1,268	\$	841 2,764	\$ \$	1,943	\$	-	\$	-	\$	00	Φ	024
		,		4,164 -		2,704		,	\$	- 11E	\$	-	\$	-	Φ	-
CLOSE STOP-NO PMT	C C	115		-	\$ \$	-	\$	-	*	115		-	\$	-	Φ	-
CLOSE STOP PERAIR	C	1,478		-	-	-	\$	-	\$ \$	, -	\$	-	\$	-	Φ	-
CLOSE STOP-REPAIR	C	39,060		-	\$ \$	-	\$ \$		\$	39,060	\$	-	\$	-	Φ	-
OPEN STOP CLOSED-NON USE	-	681			\$	-		-	\$		\$	-	\$	-	Φ	-
OPEN STOP CLOSED-REPAIR	С	29,774		-		-	\$		*	29,774	\$	-		-	Φ	-
OPEN STOP-NON PAYMENTS	c	10,175		- 105	\$	-	\$	-	\$	10,175	\$	-	\$	450	Ф	-
MARK OUT	F	22,655		8,465	\$	5,619	\$	3,950	\$	-	\$	-	\$	453	\$	4,168
CLOSE STOP-DEMOLITION	С	1,063		-	\$	-	\$	-	\$	1,063	\$	-	\$	-	\$	-
CHECK POSITION AND CONDITION OF STOP	C	13,417		-	\$	-	\$	-	\$	13,417		-	\$	-	\$	-
CHECK CONDITION-CURB BOX	<u>c</u>	1,812		-	\$	-	\$	-	\$	•	\$	-	\$	-	\$	-
CHECK WATER QUALITY ISSUES	TD	27,117		12,728	\$	8,449	\$	5,940	\$	-	\$	-	\$	-	\$	-
METER MAINTENANCE	C	65		-	\$	-	\$	-	\$	65	\$	-	\$	-	\$	-
METER WORK-SET JUMP PIPE	<u>C</u>	229		-	\$	-	\$	=	\$	229	\$	-	\$	-	\$	-
CHECK CONDITION OF HYDRANT	FP 	36,198		-	\$	=	\$	-	\$	-	\$	-	\$	36,198	\$	-
OPEN/CLOSE/FLUSH HYDRANT	FP	23,025		-	\$	-	\$		\$		\$	-	\$	23,025	\$	-
ASSIST A TRUCK	<b>X1</b>	5,393		1,386	\$	920	\$	647	\$	1,435	\$	-	\$	604	\$	401
REPLACE COVERS	F	2,963		1,107	\$	735	\$	517	\$	-	\$	-	\$	59	\$	545
YARD WORK	TD	869		408	\$	271	\$	190	\$	-	\$	-	\$		\$	<del>-</del>
CHECK LEAK	F	36,186	- :	13,521	\$	8,975	\$	6,310	\$	-	\$	-	\$	724	\$	6,657
T&D MISC.	X1	23,092		5,935	\$	3,939	\$	,	\$	6,146	\$	-	\$	2,586	\$	1,716
SHUT DOWN NOTIFICATIONS	С	2,283		=	\$	-	\$	-	\$	2,283	\$	=	\$	-	\$	=
LEAK DETECTION	F	3,825		1,429	\$	949	\$	667	\$	=	\$	=	\$	76	\$	704
TRANSPORTATION AND DELIVERY	X1	290	\$	75	\$	50	\$	35	\$	77	\$	-	\$	33	\$	22

### Schedule CW-S14C PWSB Response to KCWA 1-13b Update of Factors HM, HOC and HMC

LAG TIME
EQUIPMENT MAINTENANCE
TRENCH REPAIR
CHECK TRENCH
EXERCISE VALVE

			Maximum						3 -		Public Fire			
Allocation Factor	Total	Base	Day			Hour	9	Services	Co	llection	Ρ	rotection	Ν	/holesale
TD	200,553	\$ 94,137	\$	62,485	\$	43,931	\$	-	\$	=	\$	-	\$	-
X1	399	\$ 103	\$	68	\$	48	\$	106	\$	-	\$	45	\$	30
F	17,672	\$ 6,603	\$	4,383	\$	3,082	\$	-	\$	-	\$	353	\$	3,251
F	11,742	\$ 4,387	\$	2,912	\$	2,047	\$	-	\$	-	\$	235	\$	2,160
F	289	\$ 108	\$	72	\$	50	\$	-	\$	-	\$	6	\$	53
	\$ 1,439,592	\$ 359,738	\$	238,782	\$	167,881	\$	372,951	\$	-	\$	182,233	\$	118,008
	HM	24.99%		16.59% 11.66%			25.91%		0.00%		12.66%		8.20%	

Schedule CW-S14C PWSB Response to KCWA 1-13b Update of Factors HM, HOC and HMC

					N	1aximum	М	aximum	N	leters &	E	Billing &	Pι	ıblic Fire		
_	Allocation Factor		Total	Base		Day		Hour	S	Services	С	ollection	Pr	otection	W	holesale
Transmission & Distribution - Contract Services Other T&I	D (O)															
Unspecified	X2	\$	6,929	\$ 2,555	\$	1,695	\$	1,193	\$	17	\$	-	\$	133	\$	1,336
New Service Applications	С			\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Uniforms	X2	\$	43,372	\$ 15,992	\$	10,612	\$	7,466	\$	108	\$	-	\$	829	\$	8,365
Equipment	X2	\$	5,858	\$ 2,160	\$	1,433	\$	1,008	\$	15	\$	-	\$	112	\$	1,130
Repair Leak on Service	С			\$ -	\$	-	\$	=	\$	-	\$	-	\$	-	\$	-
Road Restoration - Contractor	F	\$	365,283	\$ 136,486	\$	90,595	\$	63,695	\$	-	\$	-	\$	7,306	\$	67,201
Road Restoration - Force Work	F			\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Markouts/Dig Safe	F	\$	33,813	\$ 12,634	\$	8,386	\$	5,896	\$	-	\$	-	\$	676	\$	6,221
Contractor Repair Leak Distribution Main	TD			\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Switchboard Monitoring	X2	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Police Details	F	\$	98,779	\$ 36,908	\$	24,498	\$	17,224	\$	-	\$	-	\$	1,976	\$	18,172
Pages, cell phones	X2	\$	5,454	\$ 2,011	\$	1,335	\$	939	\$	14	\$	-	\$	104	\$	1,052
Total (used for Allocation factor HOC)		\$	559,487	\$ 208,747	\$	138,555	\$	97,421	\$	154	\$	-	\$	11,136	\$	103,476
Calculated Factor HOC		HO	3	37.31%		24.76%		17.41%		0.03%		0.00%		1.99%		18.49%
Transmission & Distribution - Contract Services Other T&	D (M)															
Repair Leak on Service	C	\$	36,120	\$ -	\$	-	\$	-	\$	36,120	\$	-	\$	-	\$	-
Plumbing Maintenance	X2	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Total (used for Allocation factor HMC)		\$	36,120	\$ -	\$	-	\$	-	\$	36,120	\$	-	\$	-	\$	-
Calculated Factor HMC		HM	C	0.00%		0.00%		0.00%		100.00%		0.00%		0.00%		0.00%

		Ι		Maximum	Maximum	Meters &	Billing &	Public Fire	
	Allocation Factor	Total	Base	Day	Hour	Services	Collection	Protection	Wholesale
PWSB Response to KCWA 1-13b	7 0 0 0 0 1 1 1 0 0 10 1	· otal	2400	24,		00.1.000	0000		***************************************
Update of Factors HM, HOC and HMC									
FY 2011	Allocation		3	4	5	6	7	8	9
		Total		Maximum	Maximum	Meters &	Billing &	Public Fire	
	Factor	· Otai	Base	Day	Hour	Services	Collection	Protection	Wholesale
Transmission & Distribution - Salaries & Wage	s T&D (M)	-						•	•
TD COVER-REPLACE SERVICE/VALVE	C C	255	\$0	\$0	\$0	\$255	\$0	\$0	\$0
TD HYDRANT-INSTALL CUSTODIAN	FP	1,325	\$0	\$0	\$0	\$0	\$0	\$1,325	\$0
TD HYDRANT-INSTALL IFR	FP	38,351	\$0	\$0	\$0	\$0	\$0	\$38,351	\$0
TD HYDRANT-MAINTENANCE	FP	1,904	\$0	\$0	\$0	\$0	\$0	\$1,904	\$0
TD HYDRANT-REMOVAL IFR	FP	38,626	\$0	\$0	\$0	\$0	\$0	\$38,626	\$0
TD HYDRANT-REPAIR	FP	16,838	\$0	\$0	\$0	\$0	\$0	\$16,838	\$0
TD MAIN-BLOW OFF	F	2,905	\$1,085	\$720	\$507	\$0	\$0	\$58	\$534
TD MAIN-REMOVAL T&D OPER	F	2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TD MAIN-REPAIR LEAK ON A MAIN	F	66,712	\$24,927	\$16,545	\$11.633	\$0	\$0	\$1,334	\$12,273
TD SERVICE-ADJUST BOX TO GRADE	Ċ	5.824	\$0	\$0	\$0	\$5,824	\$0	\$0	\$0
TD SERVICE-DIG UP CURBBOX	Č	30,590	\$0	\$0	\$0	\$30,590	\$0	\$0	\$0
TD SERVICE-DIG UP FOR METER	Č	2,207	\$0	\$0	\$0	\$2,207	\$0	\$0	\$0
TD SERVICE-INSTALL 1" DOM/FIRE	Č	25,691	\$0	\$0	\$0	\$25,691	\$0	\$0	\$0
TD SERVICE-INSTALL 1" IFR	č	23,100	\$0	\$0	\$0	\$23,100	\$0	\$0	\$0
TD SERVICE-INSTALL 1.5"	č	3,830	\$0	\$0	\$0	\$3,830	\$0	\$0	\$0
TD SERVICE-INSTALL 1.5" IFR	č	1,013	\$0	\$0	\$0	\$1,013	\$0	\$0	\$0
TD SERVICE-INSTALL 12"	č	1,899	\$0	\$0	\$0	\$1,899	\$0	\$0	\$0
TD SERVICE-INSTALL 2" DOM/FIRE	Č	12,084	\$0	\$0 \$0	\$0	\$12,084	\$0	\$0	\$0
TD SERVICE-INSTALL 2" IFR	Č	1,684	\$0	\$0 \$0	\$0	\$1,684	\$0	\$0	\$0
TD SERVICE-INSTALL 4" DOM/FIRE	č	13,991	\$0	\$0 \$0	\$0	\$13,991	\$0	\$0	\$0
TD SERVICE-INSTALL 6" DOM/FIRE	Č	11,955	\$0	\$0	\$0	\$11,955	\$0	\$0	\$0
TD SERVICE-INSTALL 8" DOM/FIRE	Č	8,398	\$0	\$0	\$0	\$8,398	\$0	\$0	\$0
TD SERVICE-LOCATE STOP	Č	84	\$0	\$0 \$0	\$0	\$84	\$0	\$0	\$0
TD SERVICE-REMOVAL FIRE OPER	č	1,459	\$0	\$0 \$0	\$0	\$1,459	\$0	\$0	\$0
TD SERVICE-REMOVAL IFR	F	20,853	\$7,792	\$5,172	\$3,636	\$0	\$0	\$417	\$3,836
TD SERVICE-REMOVAL T&D OPER	F	9,564	\$3,574	\$2,372	\$1,668	\$0	\$0	\$191	\$1,760
TD SERVICE-REPAIR LEAK	C	57,476	\$0	\$0	\$0	\$57,476	\$0	\$0	\$0
TD SERVICE-REPLACE/REPAIR STOP	Č	7,832	\$0	\$0	\$0	\$7,832	\$0	\$0	\$0
TD T&D-MISCELLANEOUS MAINT.	F	3,679	\$1,375	\$913	\$642	\$0	\$0	\$74	\$677
TD VALVE-ADJUST GATE BOX	F	14,751	\$5,512	\$3,658	\$2,572	\$0	\$0	\$295	\$2,714
TD VALVE-INSTALL 6" IFR	F	4.901	\$1,831	\$1,216	\$855	\$0	\$0	\$98	\$902
TD VALVE-INSTALL 8" IFR	F	642	\$240	\$159	\$112	\$0	\$0	\$13	\$118
TD VALVE-LOCATE	F	288	\$108	\$71	\$50	\$0	\$0	\$6	\$53
TD VALVE-REMOVAL IFR	, F	6,442	\$2,407	\$1,598	\$1,123	\$0 \$0	\$0	\$129	\$1,185
TD VALVE-REPAIR/REPACK	•	,			\$2,049	\$0 \$0	\$0	\$235	\$2,161
	F	11./44	54.390	3/2/9/14					
Dig Safe Program	F F	<b>11,749</b> 228,959	\$4,390 \$85,549	\$2,914 \$56,785	\$2,049 \$39,924	\$0 \$0	\$0 \$0	\$4,579	\$42,121

## Schedule CW-S14C PWSB Response to KCWA 1-13b Update of Factors HM, HOC and HMC

				Maximum	Maximum	Meters &	Billing &	Public Fire	
	Allocation Factor	Total	Base	Day	Hour	Services	Collection	Protection	Wholesale
REPAIR TRENCH	F	4,102	\$1,533	\$1,017	\$715	\$0	\$0	\$82	\$755
LOCATE VALVE	F	7,523	\$2,811	\$1,866	\$1,312	\$0	\$0	\$150	\$1,384
EXERCISE VALVE	F	14,222	\$5,314	\$3,527	\$2,480	\$0	\$0	\$284	\$2,616
CHECK CONDITION OF VALVE	F	17,151	\$6,408	\$4,254	\$2,991	\$0	\$0	\$343	\$3,155
CHECK CONDITION OF GATE BOX	F	1,143	\$427	\$284	\$199	\$0	\$0	\$23	\$210
CHECK FOR NO RUSTY WATER	TD	11,063	\$5,193	\$3,447	\$2,423	\$0	\$0	\$0	\$0
CLOSE STOP-NO PAYMENT	С	324	\$0	\$0	\$0	\$324	\$0	\$0	\$0
CLOSE STOP-NONUSE	С	1,964	\$0	\$0	\$0	\$1,964	\$0	\$0	\$0
CLOSE STOP REPAIR	С	42,841	\$0	\$0	\$0	\$42,841	\$0	\$0	\$0
CLOSE STOP SEASONAL	С	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OPEN STOP WAS CLOSED NON-USE	С	125	\$0	\$0	\$0	\$125	\$0	\$0	\$0
OPEN STOP CLOSED REPAIR	С	27,088	\$0	\$0	\$0	\$27,088	\$0	\$0	\$0
OPEN STOP NON-PAYMENTS	С	6,315	\$0	\$0	\$0	\$6,315	\$0	\$0	\$0
MARK OUT	F	26,358	\$9,849	\$6,537	\$4,596	\$0	\$0	\$527	\$4,849
OPEN STOP SEASONAL	С	314	\$0	\$0	\$0	\$314	\$0	\$0	\$0
CLOSE STOP DEMOLITION	С	307	\$0	\$0	\$0	\$307	\$0	\$0	\$0
CHECK POSITION AND CONDITION OF STOP	С	9,740	\$0	\$0	\$0	\$9,740	\$0	\$0	\$0
CHECK CONDITION OF CURB BOX	С	1,624	\$0	\$0	\$0	\$1,624	\$0	\$0	\$0
CHECK WATER QUALITY ISSUES	TD	19,001	\$8,919	\$5,920	\$4,162	\$0	\$0	\$0	\$0
METER MAINTENANCE	С	102	\$0	\$0	\$0	\$102	\$0	\$0	\$0
METER WORK SET JUMP PIPE	С	163	\$0	\$0	\$0	\$163	\$0	\$0	\$0
CHECK CONDITION OF HYDRANT	FP	35,040	\$0	\$0	\$0	\$0	\$0	\$35,040	\$0
OPEN/CLOSE/FLUSH HYDRANT	FP	11,959	\$0	\$0	\$0	\$0	\$0	\$11,959	\$0
ASSIST A TRUCK	X1	3,440	\$884	\$587	\$413	\$916	\$0	\$385	\$256
REPLACE COVERS	F	2,793	\$1,044	\$693	\$487	\$0	\$0	\$56	\$514
YARD WORK	TD	39,704	\$18,637	\$12,370	\$8,697	\$0	\$0	\$0	\$0
CHECK LEAK	F	39,160	\$14,632	\$9,712	\$6,828	\$0	\$0	\$783	\$7,204
T&D MISCELLANEOUS	X1	33,416	\$8,589	\$5,701	\$4,008	\$8,894	\$0	\$3,742	\$2,483
SHUT DOWN NOTIFICATIONS	С	1,729	\$0	\$0	\$0	\$1,729	\$0	\$0	\$0
LEAK DETECTION	F	6,873	\$2,568	\$1,705	\$1,199	\$0	\$0	\$137	\$1,264
TRANSPORTATION AND DELIVERY	X1	485	\$125	\$83	\$58	\$129	\$0	\$54	\$36
LAG TIME	TD	208,282	\$97,765	\$64,893	\$45,625	\$0	\$0	\$0	\$0
TRENCH REPAIR	F	18,617	\$6,956	\$4,617	\$3,246	\$0	\$0	\$372	\$3,425
CHECK TRENCH	F	12,972	\$4,847	\$3,217	\$2,262	\$0	\$0	\$259	\$2,386
SNOW REMOVAL	X1	601	\$154	\$102	\$72	\$160	\$0	\$67	\$45
35	,	1,286,831			156,966.76			158,787.26	99,363.88
Ca	Iculated Factor HM	HM	26.14%	17.35%	12.20%	24.25%	0.00%	12.34%	7.72%

Schedule CW-S14C PWSB Response to KCWA 1-13b Update of Factors HM, HOC and HMC

				Maximum	Maximum	Meters &	Billing &	Public Fire	
	Allocation Factor	Total	Base	Day	Hour	Services	Collection	Protection	Wholesale
Transmission & Distribution - Contract Service	s Other T&D (O)		•			•			•
Unspecified	X2	1,053	\$388	\$258	\$181	\$3	\$0	\$20	\$203
New Service Applications	С	,	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Uniforms	X2	44,798	\$16,518	\$10,961	\$7,711	\$112	\$0	\$857	\$8,640
Equipment	X2	9,916	\$3,656	\$2,426	\$1,707	\$25	\$0	\$190	\$1,912
Repair Leak on Service	С		\$0	\$0	\$0	\$0	\$0	\$0	\$0
Road Restoration - Contractor	F	179,156	\$66,941	\$44,433	\$31,240	\$0	\$0	\$3,583	\$32,959
Road Restoration - Force Work	F		\$0	\$0	\$0	\$0	\$0	\$0	\$0
Markouts/Dig Safe	F	37,311	\$13,941	\$9,254	\$6,506	\$0	\$0	\$746	\$6,864
Contractor Repair Leak Distribution Main	TD	26,444	\$12,412	\$8,239	\$5,793	\$0	\$0	\$0	\$0
Switchboard Monitoring	X2		\$0	\$0	\$0	\$0	\$0	\$0	\$0
Police Details	F	68,521	\$25,603	\$16,994	\$11,948	\$0	\$0	\$1,370	\$12,606
Pages, cell phones	X2	9,197	\$3,391	\$2,250	\$1,583	\$23	\$0	\$176	\$1,774
Total (used for Allocation factor HOC)		376,395	\$142,850	\$94,815	\$66,668	\$162	\$0	\$6,942	\$64,958
Calcula	ted Factor HOC	HOC	35.59%	23.60%	16.62%	0.70%	0.00%	1.83%	21.65%
Transmission & Distribution - Contract Service	s Other T&D (M)								
Repair Leak on Service	C C	20,043	\$0	\$0	\$0	\$20,043	\$0	\$0	\$0
Plumbing Maintenance	X2	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total (used for Allocation factor HMC)		20,043	\$ -	\$ -	\$ -	\$ 20,043	\$ -	\$ -	\$ -
Calcula	ted Factor HMC	HMC	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%

		1		Maximum	Maximuss	Motoro	Dilling 9	Dublic Fire	
	Alloaction Factor	Total	Pess	Maximum	Maximum	Meters &	Billing &	Public Fire	\//holooole
DWSP Pospones to VCWA 4 42h	Allocation Factor	Total	Base	Day	Hour	Services	Collection	Protection	Wholesale
PWSB Response to KCWA 1-13b Update of Factors HM, HOC and HMC									
	Allocation		3	4	5	6	7	0	0
FY 2010	Allocation	<b>-</b>	3	Maximum	ວ Maximum	Meters &	Billing &	8 Public Fire	9
	Factor	<u>Total</u>	Base	Dav	Hour	Services	Collection	Protection	Wholesale
TD BLOWOFF/BYPASS-INSTALL NEW	<b>F</b>	\$905	\$338	\$225	\$158	\$0	\$0	\$18	\$167
TD COVER-REPLACE SERVICE/VALVE	r C	\$905 \$229	\$330 \$0	\$225 \$0	\$156 \$0	\$0 \$229	\$0 \$0	\$10 \$0	\$167 \$0
TD HYDRANT-INSTALL CUSTODIAN	FP	\$7.178	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$7,178	\$0 \$0
TD HYDRANT-INSTALL COSTODIAN TD HYDRANT-INSTALL IFR	FP	\$22,244	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$22,244	\$0 \$0
TD HYDRANT-INSTALL IFK TD HYDRANT-INSTALL NEW	FP	\$3,122	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$3,122	\$0 \$0
TD HYDRANT-INSTALL NEW TD HYDRANT-MAINTENANCE	FP	\$1,776	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$1,776	\$0 \$0
TD HYDRANT-MAINTENANCE TD HYDRANT-REMOVAL IFR	FP	\$22,675	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$22,675	\$0 \$0
TD HYDRANT-REMOVAL IFR TD HYDRANT-REMOVAL T&D OPER	FP	\$412	\$0	\$0	\$0 \$0	\$0	\$0	\$412	\$0
TD HYDRANT-REMOVAL 1&D OPER TD HYDRANT-REPAIR	FP	\$12,249	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$12,249	\$0 \$0
TD LEAK DETECTION	F	\$40	\$15	\$10	\$0 \$7	\$0 \$0	\$0 \$0	\$12,249	\$0 \$7
TD LEAK DETECTION TD LEAK-CHECK ON VL,WS,WM,HY	F	\$40 \$40	\$15 \$15	\$10 \$10	\$7 \$7	\$0 \$0	\$0 \$0	\$1 \$1	\$7 \$7
TD MAIN-BLOW OFF	F	\$3,642	\$1,361	\$903	\$635	\$0 \$0	\$0 \$0	\$73	\$670
TD MAIN-INSTALL 6" NEW	F	\$926	\$346	\$230	\$162	\$0	\$0	\$19	\$170
TD MAIN-REPAIR LEAK ON A MAIN	F	\$53,416	\$19,959	\$13,248	\$9,314	\$0 \$0	\$0	\$1,068	\$9,827
TD SERVICE- WATER QUAL'Y ISSUE	C	φοσ, 4 το	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TD SERVICE-ADJUST BOX TO GRADE	Č	\$5,846	\$0	\$0	\$0	\$5,846	\$0	\$0	\$0
TD SERVICE-CLOSE FOR REPAIR	Č	\$283	\$0	\$0	\$0	\$283	\$0	\$0	\$0
TD SERVICE-DIG UP CURBBOX	Č	\$76,805	\$0	\$0	\$0	\$76,805	\$0	\$0	\$0
TD SERVICE-DIG UP FOR METER	Č	\$26,569	\$0	\$0	\$0	\$26,569	\$0	\$0	\$0
TD SERVICE-INSTALL 1" DOM/FIRE	Č	\$21,115	\$0	\$0	\$0	\$21,115	\$0	\$0	\$0
TD SERVICE-INSTALL 1" IFR	Č	\$25,254	\$0	\$0	\$0	\$25,254	\$0	\$0	\$0
TD SERVICE-INSTALL 1.5"	Č	\$7,442	\$0	\$0	\$0	\$7.442	\$0	\$0	\$0
TD SERVICE-INSTALL 1.5" IFR	Č	\$1,547	\$0	\$0	\$0	\$1,547	\$0	\$0	\$0
TD SERVICE-INSTALL 12"	Č	\$442	\$0	\$0	\$0	\$442	\$0	\$0	\$0
TD SERVICE-INSTALL 2" DOM/FIRE	Č	\$13,076	\$0	\$0	\$0	\$13,076	\$0	\$0	\$0
TD SERVICE-INSTALL 2" IFR	Ċ	\$426	\$0	\$0	\$0	\$426	\$0	\$0	\$0
TD SERVICE-INSTALL 4" DOM/FIRE	С	\$16,825	\$0	\$0	\$0	\$16,825	\$0	\$0	\$0
TD SERVICE-INSTALL 6" DOM/FIRE	С	\$10,735	\$0	\$0	\$0	\$10,735	\$0	\$0	\$0
TD SERVICE-INSTALL 8" DOM/FIRE	С	\$2,077	\$0	\$0	\$0	\$2,077	\$0	\$0	\$0
TD SERVICE-LOCATE STOP	С	\$1,795	\$0	\$0	\$0	\$1,795	\$0	\$0	\$0
TD SERVICE-NO/RUSTY/POOR WATER	С	\$83	\$0	\$0	\$0	\$83	\$0	\$0	\$0
TD SERVICE-REMOVAL IFR	С	\$19,249	\$0	\$0	\$0	\$19,249	\$0	\$0	\$0
TD SERVICE-REMOVAL T&D OPER	С	\$9,466	\$0	\$0	\$0	\$9,466	\$0	\$0	\$0
TD SERVICE-REPAIR LEAK	С	\$51,231	\$0	\$0	\$0	\$51,231	\$0	\$0	\$0
TD SERVICE-REPLACE/REPAIR STOP	С	\$3,234	\$0	\$0	\$0	\$3,234	\$0	\$0	\$0
TD T&D-MISCELLANEOUS MAINT.	F	\$1,330	\$497	\$330	\$232	\$0	\$0	\$27	\$245
TD TRENCH-CHECK (IFR)	F	\$76	\$28	\$19	\$13	\$0	\$0	\$2	\$14
TD VALVE-ADJUST GATÉ BOX	F	\$11,186	\$4,180	\$2,774	\$1,951	\$0	\$0	\$224	\$2,058
		. ,		• •		* -	• -	•	. ,

				Maximum	Maximum	Meters &	Billing &	Public Fire	
	Allocation Factor	Total	Base	Day	Hour	Services	Collection	Protection	Wholesale
TD VALVE-EXERCISE (SCHEDULED)	F	\$642	\$240	\$159	\$112	\$0	\$0	\$13	\$118
TD VALVE-INSTALL 12" IFR	F	\$1,335	\$499	\$331	\$233	\$0	\$0	\$27	\$246
TD VALVE-INSTALL 6" IFR	F	\$14,323	\$5,352	\$3,552	\$2,498	\$0	\$0	\$286	\$2,635
TD VALVE-INSTALL 6" NEW	F	\$1,802	\$673	\$447	\$314	\$0	\$0	\$36	\$331
TD VALVE-INSTALL 8" IFR	F	\$2,406	\$899	\$597	\$420	\$0	\$0	\$48	\$443
TD VALVE-REMOVAL IFR	F	\$14,991	\$5,601	\$3,718	\$2,614	\$0	\$0	\$300	\$2,758
TD VALVE-REPAIR/REPACK	F	\$1,012	\$378	\$251	\$176	\$0	\$0	\$20	\$186
105CT CHECK TRENCH	F	\$1,549	\$579	\$384	\$270	\$0	\$0	\$31	\$285
REPAIR TRENCH	F	\$2,296	\$858	\$569	\$400	\$0	\$0	\$46	\$422
LOCATE VALVE	F	\$10,390	\$3,882	\$2,577	\$1,812	\$0	\$0	\$208	\$1,911
EXERCISE VALVE	F	\$16,656	\$6,224	\$4,131	\$2,904	\$0	\$0	\$333	\$3,064
CHECK CONDITION OF VALVE	F	\$30,490	\$11,393	\$7,562	\$5,317	\$0	\$0	\$610	\$5,609
CHECK CONDITION OF GATE BOX	F	\$2,923	\$1,092	\$725	\$510	\$0	\$0	\$58	\$538
CHECK FOR NO RUSTY WATER	TD	\$7,193	\$3,376	\$2,241	\$1,576	\$0	\$0	\$0	\$0
CLOSE STOP-NO PAYMENT	С	\$231	\$0	\$0	\$0	\$231	\$0	\$0	\$0
CLOSE STOP-NONUSE	С	\$1,968	\$0	\$0	\$0	\$1,968	\$0	\$0	\$0
CLOSE STOP REPAIR	С	\$40,751	\$0	\$0	\$0	\$40,751	\$0	\$0	\$0
OPEN STOP WAS CLOSED NON-USE	С	\$290	\$0	\$0	\$0	\$290	\$0	\$0	\$0
OPEN STOP CLOSED REPAIR	С	\$28,651	\$0	\$0	\$0	\$28,651	\$0	\$0	\$0
OPEN STOP NON-PAYMENTS	С	\$11,089	\$0	\$0	\$0	\$11,089	\$0	\$0	\$0
MARK OUT	F	\$173,831	\$64,951	\$43,112	\$30,311	\$0	\$0	\$3,477	\$31,979
OPEN STOP SEASONAL	С	\$105	\$0	\$0	\$0	\$105	\$0	\$0	\$0
CLOSE STOP DEMOLITION	С	\$821	\$0	\$0	\$0	\$821	\$0	\$0	\$0
CHECK POSITION AND CONDITION OF STOP	С	\$3,422	\$0	\$0	\$0	\$3,422	\$0	\$0	\$0
CHECK CONDITION OF CURB BOX	С	\$3,246	\$0	\$0	\$0	\$3,246	\$0	\$0	\$0
CHECK WATER QUALITY ISSUES	TD	\$19,335	\$9,076	\$6,024	\$4,235	\$0	\$0	\$0	\$0
METER WORK SET JUMP PIPE	С	\$278	\$0	\$0	\$0	\$278	\$0	\$0	\$0
CHECK CONDITION OF HYDRANT	FP	\$22,257	\$0	\$0	\$0	\$0	\$0	\$22,257	\$0
OPEN/CLOSE/FLUSH HYDRANT	FP	\$10,197	\$0	\$0	\$0	\$0	\$0	\$10,197	\$0
ASSIST A TRUCK	X1	\$2,866	\$737	\$489	\$344	\$763	\$0	\$321	\$213
REPLACE COVERS	F	\$2,847	\$1,064	\$706	\$496	\$0	\$0	\$57	\$524
YARD WORK	TD	\$85,070	\$39,931	\$26,505	\$18,635	\$0	\$0	\$0	\$0
CHECK LEAK	F	\$35,821	\$13,384	\$8,884	\$6,246	\$0	\$0	\$716	\$6,590
T&D MISCELLANEOUS	X1	\$28,244	\$7,259	\$4,818	\$3,388	\$7,517	\$0	\$3,163	\$2,099
SHUT DOWN NOTIFICATIONS	С	\$2,859	\$0	\$0	\$0	\$2,859	\$0	\$0	\$0
LEAK DETECTION	F	\$9,765	\$3,648	\$2,422	\$1,703	\$0	\$0	\$195	\$1,796
TRANSPORTATION AND DELIVERY	X1	\$594	\$153	\$101	\$71	\$158	\$0	\$66	\$44
LAG TIME	TD	\$251,623	\$118,108	\$78,396	\$55,118	\$0	\$0	\$0	\$0
TRENCH REPAIR	F	\$30,648	\$11,451	\$7,601	\$5,344	\$0	\$0	\$613	\$5,638
CHECK TRENCH	F	\$23,892	\$8,927	\$5,925	\$4,166	\$0	\$0	\$478	\$4,395
		\$1,333,656	346,473.65	229,977.73	161,691.36	395,878.02	0.00	114,644.09	84,990.93
		HM	25.98%	17.24%	12.12%	29.68%	0.00%	8.60%	6.37%

Schedule CW-S14C PWSB Response to KCWA 1-13b Update of Factors HM, HOC and HMC

				Maximum	Maximum	Meters &	Billing &	Public Fire	
	Allocation Factor	Total	Base	Day	Hour	Services	Collection	Protection	Wholesale
Transmission & Distribution - Contract Servi	ces Other T&D (O)								
Unspecified	X2	\$5,261	\$1,940	\$1,287	\$906	\$13	\$0	\$101	\$1,015
New Service Applications	С		\$0	\$0	\$0	\$0	\$0	\$0	\$0
Uniforms	X2	\$39,126	\$14,427	\$9,573	\$6,735	\$98	\$0	\$748	\$7,546
Equipment	X2		\$0	\$0	\$0	\$0	\$0	\$0	\$0
Repair Leak on Service	С		\$0	\$0	\$0	\$0	\$0	\$0	\$0
Road Restoration - Contractor	F	\$611,183	\$228,366	\$151,582	\$106,573	\$0	\$0	\$12,224	\$112,438
Road Restoration - Force Work	F		\$0	\$0	\$0	\$0	\$0	\$0	\$0
Markouts/Dig Safe	F	\$41,858	\$15,640	\$10,381	\$7,299	\$0	\$0	\$837	\$7,701
Contractor Repair Leak Distribution Main	TD	\$33,246	\$15,605	\$10,358	\$7,283	\$0	\$0	\$0	\$0
Switchboard Monitoring	X2		\$0	\$0	\$0	\$0	\$0	\$0	\$0
Police Details	F	\$85,247	\$31,852	\$21,142	\$14,865	\$0	\$0	\$1,705	\$15,683
Pages, cell phones	X2	\$11,252	\$4,149	\$2,753	\$1,937	\$28	\$0	\$215	\$2,170
Total (used for Allocation factor HOC)		\$827,171	\$311,978	\$207,076	\$145,596	\$139	\$0	\$15,830	\$146,552
		HOC	37.72%	25.03%	17.60%	0.02%	0.00%	1.91%	17.72%
Transmission & Distribution - Contract Servi	ces Other T&D (M)								
Repair Leak on Service	C	\$36,120	\$0	\$0	\$0	\$36,120	\$0	\$0	\$0
Plumbing Maintenance	X2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total (used for Allocation factor HMC)		\$36,120	\$0	\$0	\$0	\$36,120	\$0	\$0	\$0
		HMC	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%
Calcu	ılated Factor HMC								

#### Schedule CW-S15 Summary of Cost Allocations

#### Summary of Costs to be Recovered Through Rates

Rate Year Ending December 31, 2014

Net Operations and Maintenance Expense Capital Expense         36,592,403         12,070,791         4,181,182         1,470,518         5,560,683         3,027,782         1,314,240         8,967,208           Capital Expense         \$ 21,662,069         \$ 13,487,550         \$ 1,962,510         \$ 570,178         \$ 1,264,347         \$ - \$709,610         \$ 3,667,873           City Services Expense         \$ 839,167         \$ 261,835         \$ 112,957         \$ 39,497         \$ 138,018         \$ 76,020         \$ 30,390         \$ 180,449           Property Taxes Expense         \$ 6,549,011         \$ 3,560,695         \$ 67,832         \$ 47,691         \$ - \$68,225         \$ 2,804,569           Total Expenses Allocated         65,642,650         29,380,871         6,324,481         2,127,883         6,963,048         3,103,802         2,122,465         15,620,099           Less: Miscellaneous Revenues         \$ (1,179,169)         \$ (525,908)         \$ (72,325)         \$ (27,942)         \$ (386,714)         \$ (140,058)         \$ (621)         \$ (25,601)						Maxii	mum	Maxin	num			Billing 8	ķ	Fire	)		
Capital Expense       \$ 21,662,069 \$ 13,487,550 \$ 1,962,510 \$ 570,178 \$ 1,264,347 \$ - \$ 709,610 \$ 3,667,873         City Services Expense       \$ 839,167 \$ 261,835 \$ 112,957 \$ 39,497 \$ 138,018 \$ 76,020 \$ 30,390 \$ 180,449         Property Taxes Expense       \$ 6,549,011 \$ 3,560,695 \$ 67,832 \$ 47,691 \$ - \$ - \$ 68,225 \$ 2,804,569         Total Expenses Allocated       65,642,650 29,380,871 6,324,481 2,127,883 6,963,048 3,103,802 2,122,465 15,620,099		Total		Base		Day		Hour		Meters		Collecti	on	Pro	tection	Who	lesale
City Services Expense       \$ 839,167 \$ 261,835 \$ 112,957 \$ 39,497 \$ 138,018 \$ 76,020 \$ 30,390 \$ 180,449         Property Taxes Expense       \$ 6,549,011 \$ 3,560,695 \$ 67,832 \$ 47,691 \$ - \$ - \$ 68,225 \$ 2,804,569         Total Expenses Allocated       65,642,650 29,380,871 6,324,481 2,127,883 6,963,048 3,103,802 2,122,465 15,620,099	Net Operations and Maintenance Expense	36	6,592,403		12,070,791		4,181,182		1,470,518		5,560,683		3,027,782		1,314,240		8,967,208
Property Taxes Expense \$ 6,549,011 \$ 3,560,695 \$ 67,832 \$ 47,691 \$ - \$ - \$ 68,225 \$ 2,804,569  Total Expenses Allocated 65,642,650 29,380,871 6,324,481 2,127,883 6,963,048 3,103,802 2,122,465 15,620,099	Capital Expense	\$ 21	1,662,069	\$	13,487,550	\$	1,962,510	\$	570,178	\$	1,264,347	\$	-	\$	709,610	\$	3,667,873
Total Expenses Allocated 65,642,650 29,380,871 6,324,481 2,127,883 6,963,048 3,103,802 2,122,465 15,620,099	City Services Expense	\$	839,167	\$	261,835	\$	112,957	\$	39,497	\$	138,018	\$	76,020	\$	30,390	\$	180,449
	Property Taxes Expense	\$ 6	6,549,011	\$	3,560,695	\$	67,832	\$	47,691	\$	-	\$	-	\$	68,225	\$	2,804,569
Less: Miscellaneous Revenues \$ (1,179,169) \$ (525,908) \$ (72,325) \$ (27,942) \$ (386,714) \$ (140,058) \$ (621) \$ (25,601)	Total Expenses Allocated	65	5,642,650		29,380,871		6,324,481		2,127,883		6,963,048		3,103,802		2,122,465		15,620,099
Less: Miscellaneous Revenues \$ (1,179,169) \$ (525,908) \$ (72,325) \$ (27,942) \$ (386,714) \$ (140,058) \$ (621) \$ (25,601)																	
Less: Miscellaneous Revenues \$ (1,179,169) \$ (525,908) \$ (72,325) \$ (27,942) \$ (386,714) \$ (140,058) \$ (621) \$ (25,601)						_				_							
			,		, ,		, ,		, ,		, ,		,		, ,		,
Plus: Net Operating Revenue Allowance \$ 1,289,270 \$ 577,099 \$ 125,043 \$ 41,999 \$ 131,527 \$ 59,275 \$ 42,437 \$ 311,890	Plus: Net Operating Revenue Allowance	\$ 1	1,289,270	\$	577,099	\$	125,043	\$	41,999	\$	131,527	\$	59,275	\$	42,437	\$	311,890
Net Revenue Requirement 65,752,750 29,432,062 6,377,200 2,141,940 6,707,861 3,023,019 2,164,281 15,906,388	Net Revenue Requirement	65	5,752,750		29,432,062		6,377,200		2,141,940		6,707,861		3,023,019		2,164,281		15,906,388
T. J.D	T (   D	<b>0.4</b> 0.0	00 000 00														
Total Revenue Reserve \$1,289,269.62	Total Revenue Reserve	\$1,28	89,269.62														
Restricted (Stabilization Fund) \$859,513.08 66.67%	Postricted (Stabilization Fund)	¢o2	E0 E12 00		66 679/												
	,		,														
Unrestricted Operating Reserve \$429,756.54 33.33%	Unrestricted Operating Reserve	\$42	29,756.54		33.33%												
Current (Restricted) Revenue Reserve Fundir \$1,113,852.00	Current (Restricted) Revenue Reserve Fundir	<b>\$1 1</b> 1	13 852 00														
	,		,														
Necessary (Restricted) Funding \$859,513.08	, ,																
Rate Year Adjustment (\$254,338.92)	Rate Year Adjustment	(\$25	54,338.92)														

#### Schedule CW-S16 Units of Service

#### **Units of Service**

	Base	)	Maximum Day				Maximum Hou	r	Equivalent		
	Annual Use (HCF)	Average Rate (HCF/Day)	Demand Factor	Total Capacity (HCF/Day)	Extra Capacity (HCF/Day)	Demand Factor	Total Capacity (HCF/Day)	Extra Capacity (HCF/Day)	Meters & Services (Equivalent Meters)	Bills	
Retail		366	•								
Residential	8,574,863	23,429	1.7	39,829	16,400	2.2	51,543	11,714.29			
Commercial	4,381,008	11,970	1.6	19,152	7,182	2	23,940	4,787.99			
Industrial	191,315	523	1.5	784	261	2	1,045	261.36			
Fire Protection				2888	2888		11551	8663			
Total Retail	13,147,187	35,921		62,652	26,731		88,079	25,427	122,941.70	296,840	
Wholesale Wholesale	13,051,679	35,660.32	1.7	60,623	24,962	2.15	76669.70	16,047			
Total	26,198,865	71,581.60		123,274.88	51,693.28		164,748.77	41,473.89	122,941.70	296,840.00	

#### Schedule CW-S17 Unit Cost of Service

Unit Costs
Rate Year Ending December 31, 2014

					Maximu	ım	Max	kimum	Meters &		Billing &		Public	Fire
	Total		Base		Day		Hou	ır	Services		Collectio	n	Protec	tion
Retail Units of Service														
Number			0 (	13,147,187		26,731		25,427		122,942	D.III	296,840		6,051
Units			Ccf		Ccf/Day	/	Cct/	/Day	Equiv. Met	ers	Bills		Hydra	nts
O&M Expense														
Retail		27,001,059		11,775,780		4.191.034		1.471.427		5,277,449		2,945,478		1,339,891
Retail Unit Cost (\$/Unit)		27,001,000		\$0.90		\$156.79		\$57.87		\$42.93		\$9.92		\$221.43
rtotali o'ili oot (¢/o'ili)				ψ0.00		ψ100.70		ψο		Ψ12.00		Ψ0.02		Ψ221.10
Wholesale O&M Expense		9,120,439		9,120,439										
·														
Capital Expense														
Retail Capital Expense	\$	18,354,080	\$	13,757,301	\$	2,001,761	\$	581,582	\$	1,289,634	\$		\$	723,802
Retail Cost (\$/Unit)				\$1.05		\$74.89		\$22.87		\$10.49		\$0.00		\$119.62
Mhalaada Carital Euraaa	ф	2.744.000	æ	2.744.000										
Wholesale Capital Expense	\$	3,741,230	Ф	3,741,230										
City Services Expense														
Retail City Services Expense	\$	671,892	\$	267,072	\$	115,217	\$	40,286	\$	140,778	\$	77,541	\$	30,998
Retail Cost (\$/Unit)	*	0,002	Ψ	\$0.02	*	\$4.31	Ψ	\$1.58	*	\$1.15	Ψ	\$0.26	*	\$5.12
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				•		* -		•		•		*		*-
Wholesale City Services Expense	\$	184,058	\$	184,058										
Property Tax Expense														
Retail Property Tax Expense	\$	3,819,331	\$	3,631,909	\$	69,188	\$	48,644	\$		\$		\$	69,590
Retail Cost (\$/Unit)				\$0.28		\$2.59		\$1.91		\$0.00		\$0.00		\$11.50
Wholesale Property Tax Expense	\$	2,860,660	¢	2,860,660										
Wholesale Property Tax Expense	Ф	2,000,000	Ф	2,000,000										
Total Unit Cost of Service														
Retail Cost of Service	\$	49,846,362	\$	29,432,062	\$	6,377,200	\$	2,141,940	\$	6,707,861	\$	3,023,019	\$	2,164,281
Retail Total Unit Cost (\$/Unit)	*	.0,0 .0,002	Ψ	\$2.24	*	\$238.57	Ψ	\$84.24	*	\$54.56	Ψ	\$10.18	*	\$357.67
				,		*				*				*
Wholesale Cost of Service	\$	15,906,388	\$	15,906,388	\$	-	\$	-	\$	-	\$	-	\$	-
Total Cost of Service	\$	65,752,750												

### Schedule CW-S18 Cost Distribution to Customer Class

### Allocated Costs by Customer Class Rate Year Ending December 31, 2014

			Maximum	Maximum	Meters &	Billing &	Public Fire
	Total	Base	Day	Hour	Services	Collection	Protection
Total Retail Units of Service	13,625,177	13,147,187	26,731	25,427			6,051
Total Retail Cost of Service	49,846,362 \$	29,432,061.93	\$ 6,377,199.53	\$ 2,141,939.82	\$ 6,707,861.11	\$ 3,023,019.14	\$ 2,164,280.72
Retail Unit Cost of Service (\$/Unit)		\$2.24	\$238.57	\$84.24	\$54.56	\$10.18	\$357.67
,							
Retail Service:							
Residential Volume Charge							
Units of Service - HCF	04.00= =04	8,574,863	16400.01205	11,714.29			
Allocation Cost of Service - \$	24,095,534	19,196,192	3,912,534	986,808			
Consumption Rate - \$/HCF	\$2.810						
Commercial Volume Charge							
Units of Service - HCF		4,381,008	7181.980557	4.787.99			
Allocation Cost of Service - \$	11,924,317	9,807,581	1,713,398	403,338			
Consumption Rate - \$/HCF	\$2.722	0,007,001	1,7 10,000	100,000			
,	•						
Industrial Volume Charge							
Units of Service - HCF		191,315	261.3592577	261.36			
Allocation Cost of Service - \$	512,658	428,289	62,352	22,017			
Consumption Rate - \$/HCF	\$2.680						
Datail Camina Charga							
Retail Service Charge Units of Service					82,867.50	288,988	
Allocation Cost of Service	\$7,464,414				\$4,521,359.97	\$2,943,054.36	
Allocation Cost of Service	\$7,404,414				ψ4,321,339.91	\$2,943,034.30	
Fire Protection Service							
Units of Service			2,888	8,663	40,074	7,852	6,051
Allocation Cost of Service	\$5,849,439		\$688,915.73	\$729,776.63	\$2,186,501.15	\$79,964.78	\$2,164,280.72
Total Retail Allocated Cost of Service	49,846,362	29,432,061.93	6,377,199.53	2,141,939.82	6,707,861.11	3,023,019.14	2,164,280.72
Sumcheck	-	-	-	-	-	-	-
Wholesale							
Wholesale:							
Units of Service		13,051,679					
Allocation Cost of Service	\$ 15,906,388 \$	15,906,388					
Consumption Rate		1.218724					
Total Cystem Allegated Coat of Coming	05 750 750						
Total System Allocated Cost of Service	65,752,750						

### Schedule CW-S19 Proposed Rates and Impacts

### Proposed Rates and Impacts Rate Year Ending December 31, 2014

Billing	Current Units of	Proposed	Pr	oposed	Retail Service Charge	Current	
Unit	Service	Units of Service	Retail Se	ervice Charge	Revenues	Rates	% Change
Quarterly Service Charges							
5/8"	53,150	_	\$	_	<u>-</u>	\$ 18.34	
3/4"	10,645	-	\$	_	<del>-</del>	\$ 19.47	
1"	5,067	-	\$	-	-	\$ 22.85	
1.5"	1,491	-	\$	-	<u>-</u>	\$ 27.39	
2"	1,468	-	\$	-	<u>-</u>	\$ 39.77	
3"	80	-	\$	-	-	\$ 131.15	
4"	25	-	\$	-	-	\$ 164.98	
6"	42	-	\$	-	-	\$ 243.95	
8"	28	-	\$	-	-	\$ 334.19	
10"	2	-	\$	-	-	\$ 415.97	
12"	-	-	\$	-	-	\$ 497.76	
Total	71,998	-	•		-		
Monthly Service Charges							
5/8"	1	53,151	\$	7.95	5,070,605.40	\$ 10.82	-26.52%
3/4"	-	10,645	\$	8.41	1,074,293.40	\$ 11.19	-24.84%
1"	-	5,067	\$	9.77	594,055.08	\$ 12.32	-20.70%
1.5"	2	1,493	\$	11.59	207,646.44	\$ 13.83	-16.20%
2"	34	1,502	\$	16.59	299,018.16	\$ 17.97	-7.68%
3"	13	93	\$	53.42	59,616.72	\$ 48.42	10.33%
4"	7	32	\$	67.06	25,751.04	\$ 59.70	12.33%
6"	17	59	\$	98.89	70,014.12	\$ 86.02	14.96%
8"	8	36	\$	135.26	58,432.32	\$ 116.11	16.49%
10"	-	2	\$	168.23	4,037.52	\$ 143.37	17.34%
12"	1	11	\$	201.19	2,414.28	\$ 170.63	17.91%
Total	83	72,081	-		7,465,884.48		
Total Retail Service Charge Rev	venue				7,465,884.48	\$ 5,779,434	29.18%

### Schedule CW-S19 Proposed Rates and Impacts

### Proposed Rates and Impacts

		•	Ending Dece	•	014				
Billing	Current Units of	Proposed	Propo	sed	Fire	Service Charge		Current	
Unit	Service	Units of Service	Fire Service	e Charge		Revenues		Rates	% Change
O									
Quarterly Service Charges	05.000		Φ.		Φ.		Φ.	0.00	
5/8"	25,266	-	\$	-	\$	-	\$	3.08	
3/4"	4,207	-	\$	-	\$	-	\$	4.62	
1"	1,998	-	\$	-	\$	-	\$	11.54	
1.5"	896	-	\$	-	\$	-	\$	30.77	
2"	874	-	\$	-	\$	-	\$	73.86	
3"	58	-	\$	-	\$	-	\$	200.04	
4"	14	-	\$	-	\$	-	\$	338.52	
6"	18	-	\$	-	\$	-	\$	692.43	
8"	8	-	\$	-	\$	-	\$	1,046.34	
10"	1	-	\$	-	\$	-	\$	1,600.29	
12"	-	-	\$	-	\$	-	\$	2,646.63	
Total	33,340	-	\$	-	\$	-			
Monthly Service Charges									
5/8"	1	25,267	\$	1.62	\$	491,190.48	\$	1.03	57.28%
3/4"	-	4,207	\$	2.42	\$	122,171.28	\$	1.54	57.14%
1"	-	1,998	\$	6.04	\$	144,815.04	\$	3.85	56.88%
1.5"	_	896	\$	16.11	\$	173,214.72	\$	10.26	57.02%
2"	27	901	\$	38.65	\$	417,883.80	\$	24.62	56.99%
3"	 11	69	\$	104.67	\$	86,666.76	\$	66.68	56.97%
4"	5	19	\$	177.12	\$	40,383.36	\$	112.84	56.97%
6"	12	30	\$	362.29	\$	130,424.40	\$	230.81	56.96%
8"	8	16	\$	547.46	\$	105,112.32	\$	348.78	56.96%
10"	-	10	\$ \$	837.29	\$	10,047.48	\$	533.43	56.96%
12"	_	· · · · · · · · · · · · · · · · · · ·	<b>¢</b>	1,384.74	\$	10,047.40	φ \$	882.21	56.96%
Total	64	33,404	Ψ	1,504.74	φ \$	1,721,909.64	Ψ	002.21	30.30 /0
I Ulai	04	33,404			Φ	1,721,909.04			
Total Retail Fire Protection Ser	rvice Charge Revenue	e			\$	1,721,909.64	\$	1,095,130.72	57%
Total Retail Service Charge F	Revenue				\$	9,187,794.12	\$	6,874,565.20	33.65%

### Schedule CW-S19 Proposed Rates and Impacts

### Proposed Rates and Impacts Rate Year Ending December 31, 2014

Retail Consumption Charges								
Residential (HCF)	8,574,863		\$ 2.810	\$	24,095,366.28	\$	2.488	12.94%
Commercial (HCF)	4,381,008		\$ 2.722		11,925,104.16	\$	2.390	13.89%
Industrial (HCF)	191,315		\$ 2.680		512,724.14	\$	2.346	14.24%
Total	13,147,187	=	ψ 2.000	\$	36,533,194.57	<u> </u> \$	32,253,695	13.27%
Wholesale Charges	13,147,107			Ψ	30,333,134.37	φ	32,233,093	13.21 /0
Volume Charge								
Consumption (HCF)	13,051,679		\$ 1.218724		15,906,394.11	\$	16,569,289	-4.00%
Consumption (MGD)	9,763		ψ 1.210724		13,300,334.11	Ψ	10,309,209	-4.0070
Total Consumption Charge Rev					52,439,588.68		48,822,983.51	7.41%
Total Collsumption Charge Ke	venue				32,439,300.00		40,022,903.31	7.41/0
	Current Units of	Proposed Units of	Proposed Monthly	Priva	ate Fire Charge	Curre	ent Quarterly	
Private Fire Service Charges	Service	Service	Pvt. Fire Charge		enues		Fire Charge	
3/4"	3	3	\$8.46		304.56	\$	19.67	
1"	10	10	\$9.90		1,188.00	\$	23.31	
1-1/2"	3	3	\$11.96		430.56	\$	28.70	
2"	50	50	\$17.39		10,434.00	\$	42.63	
_ 4"	349	349	\$72.07		301,829.16	\$	182.72	
6"	1,272	1,272	\$113.44		1,731,548.16	\$	295.45	
8"	254	254	\$166.28		506,821.44	\$	443.93	
10"	4	4	\$224.01		10,752.48	\$	613.33	
12"	17	17	\$291.30		59,425.20	\$	816.53	
16"	1	1	\$459.15		5,509.80	\$	1,340.64	
			·		,		•	
Total	1,963	1,963	-		2,628,243.36	\$	2,290,098	14.77%
			Proposed	Reve	enue	Cu Reve	enue	% Change
Public Fire Service Charges			Rate			Rate		3.
Hydrants	2,832		\$532.37		\$1,507,671.84	\$	960,983	56.89%
•	•		·		. , ,		·	
Total Fire Protection Charge Re	evenue				\$4,135,915.20		\$3,251,080.88	27.22%
Miscellaneous Revenues				\$	(1,179,169.01)	\$	(1,179,169.01)	
Total Revenues								
					65,763,298.00		58,948,629.59	11.56%

### Schedule CW-S20 **Comparison of Revenues by Customer Class**

# Comparison of Revenues by Customer Class Rate Year Ending December 31, 2014

		-		1		
			Existing Rates	Р	roposed Rates	% Change
Retail						
	Monthly Service Charge	\$	5,779,434	\$	7,465,884	29.2%
	Periodic FPSC	\$	1,095,131	\$	1,721,910	57.2%
	Volume Charge					
	Residential	\$	21,334,260	\$	24,095,366	12.9%
	Commercial	\$	10,470,609	\$	11,925,104	13.9%
	Industrial	\$	448,825	\$	512,724	14.2%
Total Reta	il	\$	39,128,260	\$	45,720,989	16.8%
Wholesale						
vviiolosaic	East Providence	\$	2,647,860	\$	2,541,926	-4.0%
	East Smithfield	\$	377,408	\$	362,309	-4.0%
	Greenville	\$	557,435	\$	535,134	-4.0%
	Kent County	\$	3,436,728	\$	3,299,233	-4.0%
	Smithfield	\$	527,457	\$	506,355	-4.0%
	Warwick	\$	5,498,900	\$	5,278,903	-4.0%
	Lincoln	\$	1,316,240	\$	1,263,581	-4.0%
	Johnston	\$	346,960	\$	333,079	-4.0%
	Bristol County	\$ \$ \$	1,860,301	\$	1,785,875	-4.0%
Total Who	lesale	\$	16,569,289	\$	15,906,394	-4.0%
Fire Prote	ction					
	Private Fire Protection	\$	2,290,098	\$	2,628,243	14.8%
	Public Fire Protection	\$	960,983		\$1,507,672	56.9%
Total Fire	Protection	\$	3,251,081	\$	4,135,915	27.2%
Total Rate	e Revenues	\$	58,948,630	\$	65,763,298	11.6%
Miscellane	eous Revenues	\$	(1,179,169)	\$	(1,179,169)	
Total Rev	enues	\$	60,127,799	\$	66,942,467	11.33%

### Schedule CW-S21 **Typical Bill Comparison**

## Comparison of Typical Annual Charges Rate Year Ending December 31, 2014

	Pro	posed Rates	Е	xisting Rates	% Change
Residential - (5/8" Meter, 100 HCF)				_	_
Service Charge*	\$	95.40	\$	73.36	30.0%
Volume Charge	\$	281.00	\$	248.80	12.9%
Total	\$	376.40	\$	322.16	16.8%
Commercial - (2" Meter, 2,000 HCF)					
Service Charge*	\$	199.08	\$	159.08	25.1%
Volume Charge		5,444.00	\$	4,780.00	13.9%
Total	\$	5,643.08	\$	4,939.08	14.3%
Industrial - (6" Meter, 10,000 HCF)					
Service Charge *	\$	1,186.68	\$	975.80	21.6%
Volume Charge	\$	26,800.00	\$	23,460.00	14.2%
Total	\$	27,986.68	\$	24,435.80	14.5%

<sup>\*</sup>Existing rates based on Quarterly billing, proposed based on Monthly Billing, for Wholesale Impacts see HJS-20

#### Schedule CW-S22 Revenue Proof

### **Revenue Proof**

Rate Year Ending December 31, 2014

	_	
Net Operations & Maintenance Expense	\$	36,592,403
Capital Expense	\$	21,662,069
City Services Expense	\$ \$ \$	839,167
Property Taxes Expense	\$	6,549,011
Total Expenses Allocated	\$	65,642,650
plus: Net Operating Revenue		\$1,289,270
Net Revenue Requirement	\$	66,931,919
Retail	•	, ,
Monthly Service Charge	\$	7,465,884
Retail FPSC	\$	1,721,910
Volume Charge	•	, ,
Residential	\$	24,095,366
Commercial	\$	11,925,104
Industrial	\$ \$ \$	512,724
Total Retail	\$	45,720,989
Wholesale	•	, ,
East Providence	\$	2,541,926
East Smithfield	\$	362,309
Greenville	\$	535,134
Kent County	\$	3,299,233
Smithfield	\$	506,355
Warwick	\$	5,278,903
Lincoln	\$ \$ \$ \$ \$ \$ \$ \$ \$	1,263,581
Johnston	\$	333,079
Bristol County	\$	1,785,875
Total Wholesale	\$	15,906,394
Fire Protection	•	13,333,33
Private Fire Protection	\$	2,628,243
Public Fire Protection	\$	1,507,672
Total Fire Protection	\$	4,135,915
Total Rate Revenues	\$	65,763,298
Miscellaneous Revenues	\$ \$ \$ <b>\$</b>	1,179,169
Total Revenues	\$	66,942,467
Total Surplus / (Deficit)	\$	10,548
Note: Surplus due rounding	Ψ	10,540
140to. Outplus due fouriding		

### Schedule CW-S23 Projected Volumes

### **Calculation of Rate Year Sales Volumes**

Rate Year Ending December 31, 2014 (Volumes in HCF)

_					Four Year		Pro Forma Rate Yr
	FY 2009	FY 2010	FY 2011	FY 2012	Average	Adjustments	3 Yr Avg
_	1 1 2000	1 1 2010	112011	1 1 2012	7 tvolago	, tajaotino no	5 11 7 ti g
Retail							
Residential	9,201,454	8,482,954	8,754,316	8,487,320	8,731,511	(156,648)	8,574,863
% Change from previous			-14.11%	-3.05%			
Commercial	4,636,996	4,465,417	4,284,895	4,392,712	4,445,005	(63,997)	4,381,008
Industrial	198,132	190,880	181,838	201,227	193,019	(1,704)	191,315
Sub-total Retail	14,036,582	13,139,251	13,221,050	13,081,259	13,369,535	(222,349)	13,147,187
Wholesale							
East Providence	2,034,591	2,024,316	2,217,299	2,015,566	2,072,943	12,784	2,085,727
East Smithfield	318,002	300,103	311,937	279,817	302,465	(5,179)	297,286
Greenville	459,960	423,935	450,932	442,414	444,310	(5,217)	439,093
Kent County	2,663,178	2,602,627	2,717,984	2,800,752	2,696,135	10,986	2,707,121
Smithfield	454,602	394,162	413,570	438,706	425,260	(9,781)	415,479
Warwick	4,674,254	4,195,038	4,526,769	4,272,694	4,417,189	(85,688)	4,331,500
Lincoln	1,016,655	1,016,536	1,075,944	1,017,940	1,031,769	5,038	1,036,807
Johnston (1)	302,765	248,060	309,030	262,814	280,667	(7,366)	273,301
Bristol County (2)	1,283,706	1,210,901	1,502,205	1,682,988	1,419,950	45,415	1,465,365
Narr. Bay Comm (3)							
Sub-total Wholesale	13,207,713	12,415,678	13,525,669	13,213,689	13,090,687	(39,009)	13,051,679
Grand Total	27,244,295	25,554,929	26,746,719	26,294,948	26,460,223	(261,357)	26,198,865
Unaccounted for Water							
Volume	3,114,862	3,572,170	3,380,059	3,825,119	3,473,053	_	3,592,449
Percentage	11.43%	13.98%	12.64%	14.55%	13.13%		29,791,315
Total Lost Water - Pro Forma	3,592,449					-	
Retail Share	95.67%						
Wholesale Share	4.33%						
Losses Allocated to Retail	3,436,974						
Total Retail w/Lost Water	16,584,161	55.67%					
Total Wholesale w/Lost Water	13,207,154	44.33%					
	29,791,315						

### Schedule CW-S23A Inch-Mile Calculations

<u>Pipe Size</u>	<u>Length</u>	Inch-M	iles
<u>(inches)</u>	<u>(miles)</u>		
Service Pipes *	350.59		<mark>).00</mark>
6	482.44	2,894	
8	290.25	2,322	
10	3.06		0.60
12	93.99	1,127	
16	40.97		5.52
20	5.89		7.80
24	24.09		3.16
30	16.09		2.70
36	1.93		9.48
42	4.88		1.96
48	2.42		5.16
60	4.19		.40
66	1.60		5.60
78	4.39		2.42
90	4.47		2.30
102	5.18	528	3.36
Totals	1,336.43	10,229	.98
Local Distribution & Service (12" or less)	1,220.33	91.31% 6,375.	
Transmission (16" and greater)	116.10	8.69% 3,854.	.86 37.68%
Unaccounted for Water Responsibility			
Retail Customers			
Local Distribution	91.31%	62.3	2%
Transmission	4.36%	18.9	11%
Total Retail Share of Unaccounted for Water	95.67%	81.2	3%
Wholesale Customers			
Local Distribution	0.00%	0.0	00%
Transmission	4.33%	18.7	
Total Wholesale Share of Unaccounted for Water	4.33%	18.7	

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<sup>\*</sup> Service pipe based on # of retail accounts times assumed length (ft) per account of and diameter = 1"

		FISCAL YEAR		Test Year	Adjusted				
ACCOUNT	TITLE	06/30/06	06/30/07	06/30/08	06/30/11	06/30/12		Adjustments	Test Year
Source of	Supply								
60110	Salaries + Wages - Emp	332,332	378,557	366,835	608,420	581,072	Α	\$38,253.94	619,326
60120	Salaries + Wages - Emp	364,716	463,317	465,527	515,865	420,589		\$27,688.79	448,278
60320	Sal. + Wages - Officers, Dir	-	-	-	(1,474)	,		<b>V</b> =1,0000	-
60410	Employee Pension + Ben	180,684	201,272	210,067	184,061	168,591			168,591
60420	Employee Pension + Ben	198,291	246,141	266,316	195,337	188,577			188,577
61510	Purchase Power	-	-,	-	,	/ -			-
61610	Fuel for Power Purch	_	-	-					-
62010	Material + Supplies	9,580	11,842	14,084	25,892	18,958			18,958
62020	Material + Supplies	45,309	53,546	73,695	75,671	73,286			73,286
63110	Contractual Services - Engineer	4,500	1,350	4,900	1,295	2,460			2,460
63120	Contractual Services - Engineer	· -	, <u> </u>	, -	,	,			-
63310	Contract Services -Legal	-	-	-		18,238			18,238
63420	Contractual Services - Mgt. Fees	-	-	-					-
63510	Contractual Services - Other	84,131	15,851	92,524	444,560	419,915			419,915
63520	Contractual Services - Other	19,754	15,561	15,011	25,714	31,771			31,771
64210	Rental of Equipment	-	· -	-					-
64220	Rental of Equipment	-	-	-					-
65010	Transportation Exp.	-	-	-	2,817	146			146
65020	Transportation Exp.	-	-	-					-
67510	Misc. Expenses	19,414	3,066	3,052	99,393	69,132			69,132
67520	Misc. Expenses	3,799	2,295	13,804	7,075	4,550			4,550
	Total Source of Supply Expense	1,262,510	1,392,798	1,525,813	2,184,626	1,997,284		\$65,942.73	2,063,227
Pumping E	Expenses								
60426	Employee Pension + Ben	-	-	-	-				-
61523	Purchased Power	701,668	734,820	862,000	852,085	778,684			778,684
61623	Fuel for Power Purch	16,651	32,088	39,980	·				-
62023	Material + Supplies	453	· -	-					-
62026	Material + Supplies	-	518	1,816					-
63123	Contractual Services - Engineer	-	-	-					-
63126	Contractual Services - Engineer	-	-	-					-
63523	Contractual Services - Other	4,871	6,694	3,007	18,835	11,629			11,629
63526	Contractual Services - Other	-	6,915	1,931					-
64223	Rental of Equipment	-	-	-					-
64226	Rental of Equipment	-	-	-					-
65023	Transportation Exp.	-	-	-					-
67523	Misc. Expenses	-	-	4,889					-
67526	Misc. Expenses	-	-	1,164					-
	Total Pumping Expenses	723,642	781,034	914,787	870,920	790,313		-	790,313

#### Schedule CW-A1 Comparative Schedule of Expenses

		FISCAL YEAR		Test Year	Adjusted				
ACCOUNT	TITLE	06/30/06	06/30/07	06/30/08	06/30/11	06/30/12		Adjustments	Test Year
Water Tre	atment Expenses								
60130	Salaries + Wages - Emp	1,902,231	2,008,959	1,942,308	1,905,015	1,934,063	۸	\$127,325.91	2,061,389
60140	Salaries + Wages - Emp	287,769	323,220	281,181	220,960	315,454		\$20,767.39	336,221
60430	Employee Pension + Ben	991,095	1,066,963	1,111,445	576,480	606,264	^	Ψ20,707.03	606,264
60440	Employee Pension + Ben	156,456	171,261	161,294	91,573	134,901			134,901
61530	Purchase Power	179,721	194,083	204,246	244,896	226,424			226,424
61630	Fuel for Power Purch	·	177,174	,	243,122	230,829			,
61830	Chemicals	122,959	177,174	280,906	243,122	230,029			230,829
62030	Material + Supplies	04 320	95,393	98,736	124,907	124,833			124 022
62040	• • • • • • • • • • • • • • • • • • • •	94,329	69,342	106,793	58,030	67,060			124,833 67,060
	Material + Supplies	92,559	,	,	36,030	67,000			67,000
63130	Contractual Services - Engineer	-	2,788	21,969					-
63240	Contract Services - Acctg	44740	- 0.004	- 400					-
63430	Contractual Services - Mgt. Fees	14,710	8,864	9,466					
63530	Contractual Services - Other	182,083	210,061	189,833	113,334	141,797			141,797
63540	Contractual Services - Other	55,705	42,759	57,155	49,811	85,680			85,680
64140	Rental Buildg/Real Prop	-	-	-					-
64230	Rental of Equipment	2,245	2,000	500					-
64240	Rental of Equipment	-	-	-					-
65030	Transportation Exp.	-	1,010	-		5,806			5,806
65640	Insurance Vehicle	-	-	-					-
65830	Insurance - W/C	-	-	-					-
65840	Insurance - W/C	-	-	-					-
66730	Regularoty Com ExpOther	-	-	-					-
67530	Misc. Expenses	60,381	27,965	2,258	72,139	96,719			96,719
67540	Misc. Expenses	171	86	85		2,027			2,027
	Total Treatment Expense	4,142,413	4,401,928	4,468,176	3,700,267	3,971,857		\$148,093.29	4,119,951

#### Schedule CW-A1 Comparative Schedule of Expenses

		FISCAL YEAR		Test Year	Adjusted				
ACCOUNT	TITLE	06/30/06	06/30/07	06/30/08	06/30/11	06/30/12		Adjustments	Test Year
Transmiss	sion + Dist. Expense:								
60150	Salaries + Wages - Emp	834,719	991,335	827,908	1,011,461	927,462	Α	\$61,057.99	988,520
60160	Salaries + Wages - Emp	2,228,839	2,134,007	2,102,082	1,867,293	2,107,495	Α	\$138,743.53	2,246,239
60250	Payroll Clearing -Emp	(375,518)	(461,465)	(508,181)	(279,167)	(216,355)		216,355	-
60260	Payroll Clearing -Emp	-	-	-					-
60450	Employee Pension + Ben	453,824	526,391	473,349	271,568	241,316			241,316
60460	Employee Pension + Ben	1,211,787	1,134,076	1,204,461	776,358	846,629			846,629
60550	Overhead Rate Applied	(1,746,342)	(1,266,377)	(456,546)	(811,616)	(604,034)		604,034	-
60560	Overhead Rate Applied	-	-	-	-			-	-
61550	Purchase Power	9,027	8,733	79,896	14,445	12,019			12,019
62050	Material + Supplies	138,933	102,076	681,173	341,235	269,822			269,822
62060	Material + Supplies	12,637	5,687	15,075					-
62560	Inventory Clearing	-	-	-					-
63150	Contractual Services - Engineer	-	-	1,360	20,043	36,120			36,120
63350	Contractual Services - Legal T&D0	-	-	256					-
63460	Contractual Services - Mgt. Fees	-	-	-					-
63550	Contractual Services - Other	1,028,353	927,318	1,085,202	312,640	453,727			453,727
63560	Contractual Services - Other	37,731	96,748	-	26,444	65,018			65,018
64150	Rental Buildg/Real Prop	-	-	-					-
64160	Rental Buildg/Real Prop	-	-	-					-
64250	Rental of Equipment	4,009	1,097	2,081					-
64260	Rental of Equipment	-	-	-					-
65050	Transportation Exp. T&D	-	1,145	1,290		2,748			2,748
66760	Regulatory Com Exp - Other T & D	-	-	-					-
67550	Misc. Expenses	3,625	3,784	5,326	38,106	37,994			37,994
67560	Misc. Expenses	675	529	274					-
	Total Transmission & Distribution	3,842,301	4,205,083	5,515,007	3,588,810	4,179,962		\$1,020,190.28	5,200,152

		FISCAL YEAR	FISCAL YEAR	FISCAL YEAR	FISCAL YEAR	FISCAL YEAR		Test Year	Adjusted
ACCOUNT	TITLE	06/30/06	06/30/07	06/30/08	06/30/11	06/30/12		Adjustments	Test Year
		<u> </u>						, ,	
Customer	Accounts Expense:								
60170	Salaries + Wages - Emp	1,828,083	2,063,837	1,956,675	1,826,717	1,798,417	Α	\$118,395.88	1,916,813
60270	Payroll Clearing -Emp	(13,397)	(11,090)			(93,057)		93,057	· · · · -
60470	Employee Pension + Ben	993,902	1,096,073	1,119,835	737,780	721,692			721,692
60570	Overhead Rate Applied	(52,345)	(37,458)		(30,666)	(377,449)		377,449	, -
61670	Fuel for Power Purch	-	-	-	, ,	, ,		•	-
62070	Material + Supplies	10,731	15,630	6,848	(50,128)	2,467			2,467
63370	Contractual Services - Legal	-	-	-	(, -,	, -			, -
63570	Contractual Services - Other	33,883	39,027	50,435	47,519	10,979			10,979
65070	Transportation ExpCAO	-	-	-	,	1,012			1,012
65870	Insurance - Other	-	-	-		,			· -
65970	Insurance Other	_	-	_					_
67070	Bad Debt Expense - CAO	(740,181)	782,012	(417,668)	(524,135)	445,333			445,333
67570	Misc. Expenses	121,241	104,000	93,468	409,883	194,180			194,180
0.0.0	•		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				<b>#</b> 500.004.05	· · · · · · · · · · · · · · · · · · ·
	Total Customer Accounts	2,181,916	4,052,032	2,809,592	2,416,970	2,703,575		\$588,901.65	3,292,477
Administr	ative and General								
60180	Salaries + Wages - Emp	4,718,358	5,030,220	4,981,168	5,014,514	5,229,735	Α	\$269,625.20	5,499,360
60280	Payroll Clearing -Emp	-	-	-	(568,495)	(488,703)		488,703	-
60380	Salaries + wages - Officers, Dir.	36,918	40,257	32,955	15,221	,			-
60480	Employee Pension + Ben	2,569,882	4,160,597	3,295,736	4,588,712	4,605,608			4,605,608
60580	Overhead Rate Applied	-	-	-	(306,238)	(221,236)		221,236	-
61580	Purchase Power	119,872	118,145	87,444	120,287	113,972			113,972
61680	Fuel for Power Purch	184,535	184,178	229,065					-
62080	Material + Supplies	184,160	99,500	124,798	444,812	515,672			515,672
63180	Contractual Services - Engineer	24,377	201,937	36,268	30,357	45,262			45,262
63280	Contract Services - Acctg	-	-	-		·			-
63380	Contractual Services - Legal	87,716	114,369	41,728		50,841			50,841
63480	Contractual Services - Mgt. Fees	32,000	· -	· -		,			, <u> </u>
63580	Contractual Services - Other	364,356	277,060	514,962	875,444	982,614			982,614
64180	Rental Buildg/Real Prop	-	· -	· -	•	,			, <u> </u>
64280	Rental of Equipment	9,646	11,045	9,184					_
65080	Transportation Exp.	104,702	114,752	107,657		6,390			6,390
66080	Advertising Expense	3,351	611	8,508		- /			-,
66680	Reg Com Exp - Amort of Rate Case	-,00.	1,059	-					_
66780	Regulatory Com ExpOther	202,951	282,184	305,530	235,386	227,469			227,469
67580	Misc. Expenses	289,175	186,018	358,452	403,077	358,418			358,418
	Total Administration + General	8,931,999	10,821,934	10,133,454	10,853,078	11,426,042		\$979,564.08	12,405,606
	Total Operation & Maintenance	21,084,781	25,654,810	25,366,829	23,614,671	25,069,033			27,871,725
	. J.a. Jpsianon a manitonano	21,001,701	20,00 1,010	20,000,020	20,011,011	20,000,000			2.,0,720

	FISCAL YEAR	Test Year	Adjusted				
ACCOUNT TITLE	06/30/06	06/30/07	06/30/08	06/30/11	06/30/12	Adjustments	Test Year
•	*						
Source of Supply	1,262,510	1,392,798	1,525,813	2,184,626	1,997,284	\$65,942.73	2,063,227
Pumping	723,642	781,034	914,787	870,920	790,313	-	790,313
Treatment	4,142,413	4,401,928	4,468,176	3,700,267	3,971,857	148,093	4,119,951
Transmission & Distrib.	3,842,301	4,205,083	5,515,007	3,588,810	4,179,962	1,020,190	5,200,152
Customer Accounts	2,181,916	4,052,032	2,809,592	2,416,970	2,703,575	588,902	3,292,477
Administration & General	8,931,999	10,821,934	10,133,454	10,853,078	11,426,042	979,564	12,405,606
Total Operation & Maintenance	21,084,781	25,654,810	25,366,829	23,614,671	25,069,033	2,802,692	27,871,725
Capitalized Overheads				1,148,520	1,202,718		1,202,718
Full Operation & Maint. Operating Fund				24,763,190	26,271,752		26,271,752
857 Insurance Fund							
65840 Insurance W/C - WTM	-	-	-				-
65870 Insurance W/C - CAO	25,512	-	-				-
62080 Materials + Supplies - A&GO	612	21,097	763	36,627	17,602		17,602
63180 Contractual Services-Engineer	-	-	-				-
63380 Contract Services - Legal A&GO	-	-	-		(11,163) B	11,163	-
63580 Contract Services - Other A&GO	1,875	4,515	4,755				-
Injuries and Damages				28,851	54,528		54,528
65780 Ins. Gen. Liability	1,253,949	1,296,107	1,227,230				-
65980 Insurance-Other A&GO	-	-	-	753,247	1,006,353		1,006,353
65880 Insurance - W/C	533,567	(69,285)	672,370	837,689	874,015		874,015
67070 Bad Debt Expense-CAO	-	-	-				-
67580 Misc. Expense	152,140	71,527	(6,954)	1,800	7,150		7,150
Total Insurance Fund	1,967,654	1,323,960	1,898,164	1,658,214	1,948,485	11,163	1,959,648
878 Chemical and Sludge Maintenance Fund							
61830 Chemicals - WTO	1,493,366	1,574,797	1,682,829	1,801,907	2,572,273		2,572,273
62030 Materials + Supplies WTO	15,545	-	-				-
62050 Materials + Supplies T&DO	-	17,827	-				-
63540 Contract Services - Other WTM	550,000	954,125	500,000	535,644	552,692		552,692
Total Chemical and Sludge Maintenance Fund	2,058,912	2,546,749	2,182,829	2,337,551	3,124,965		3,124,965
Full Operation and Maintenance	25,111,348	29,525,519	29,447,822	28,758,956	32,143,316	2,813,855	31,356,364
City Services	729,994	729,994	784,581	839,167	839,167		839,167

### Schedule CW-A1 Comparative Schedule of Expenses

		FISCAL YEAR	FISCAL YEAR	FISCAL YEAR	FISCAL YEAR	FISCAL YEAR	Test Year	Adjusted
ACCOUNT	TITLE	06/30/06	06/30/07	06/30/08	06/30/11	06/30/12	Adjustments	Test Year
Property T	axes- Other Local Goverm.							
40820	North Providence	224,715	231,643	234,826	239,090	266,581	-	266,581
40821	Glocester	43,112	45,275	49,655	49,380	51,478	-	51,478
40822	West. Glocester	3,536	3,928	3,928	3,932	3,708	-	3,708
40823	Harmony	120	142	155	155	164	-	164
40824	Chepachet	145	115	115	-	251	(120)	131
40825	Scituate	4,857,897	5,131,469	5,468,314	4,974,437	5,087,356	0	5,087,357
40826	Warwick	21	22	101	-	-	-	-
40827	Johnston	56,424	64,195	86,135	86,695	90,117	(0)	90,117
40828	Foster	308,492	278,751	292,391	331,673	331,673	-	331,673
40829	Cranston	531,739	(1,334,393)	88,629	107,568	110,522	1	110,523
40830	West. Warwick	3,855	4,040	4,294	3,761	3,761	-	3,761
	Total Property Taxes	6,030,056	4,425,185	6,228,544	5,796,691	5,945,612		5,945,492
	Full Operation & Maint.	25,111,348	29,525,519	29,447,822	28,758,956	32,143,316	2,813,855	34,957,171
	City Services	729,994	729,994	784,581	839,167	839,167	-	839,167
	Total Property Taxes	6,030,056	4,425,185	6,228,544	5,796,691	5,945,612		5,945,612
	Capitalized Labor and Overheads	2,187,603	1,776,390	964,727	1,996,182	2,000,833	(2,000,833)	-
	Grand Total	34,059,000	36,457,088	37,425,673	37,390,996	40,928,928	813,022	41,741,950
			F	rom Original File	\$36,550,443	30,981,650		
	Capital Reimbursement					(798,115)	(36,274)	(834,389)
Α	Adjustment to Normalize Payroll See:			Check	840,553			

A Adjustment to Normalize Payroll See:

B Adjustment to Remove Non-Recurring Expense due to Insurance reimbursement

### Schedule CW-AS2 Calculation of Public Fire (Hydrant) Charge

Costs Allocated Directly to Public Fire Protection Cost of Service Allocated to Public Fire (1)	\$2,164,280.72	
Units of Service (Public Fire Hydrants) (2)	6,051	
Cost Per Hydrant (3)	\$357.67	(1)/(2)
Demand Costs Allocating to Fire Protection Class Max Day (4) Max Hour (5) Total Demand Costs (6)	\$688,915.73 \$729,776.63 \$1,418,692.36	(4)+(5)
Total Equivalent 6" Connections (Public and Private) (7)	8,121.14	
Cost Per Equivalent 6" Connection (8)	\$174.69	(6)/(7)
Hydrant Charge (per Hydrant)	\$532.37	(8)+(3)

### Schedule CW-AS3 Calculation of Providence Only Fire Protection Service Charge

#### Total Cost to be Recovered from Providence Retail Customer

Providence Hydrants 3219
Charge per Hydrant \$532.37
Total Cost to Recovered from Retail Custo \$1,713,699.03
Total 5/8" Equivalent Accounts 88,692
Annual Cost Per 5/8" Equivalent Account \$19.32

### Fire Protection Service Charge for Providence Retail Customer

Retail Fire Protection Service Charge (Monthly)

		Equivalency	Equivalent	Annual	Monthly
Meter Size	Units of Service	Factor	Accounts	Cost	Service Charge
5/8"	25,446	1	25,446	\$19.32	\$1.62
3/4"	4,258	1.5	6,387	\$28.98	\$2.42
1"	1,996	3.75	7,485	\$72.46	\$6.04
1.5"	894	10	8,940	\$193.22	\$16.11
2"	891	24	21,384	\$463.73	\$38.65
3"	69	65	4,485	\$1,255.92	\$104.67
4"	21	110	2,310	\$2,125.41	\$177.12
6"	31	225	6,975	\$4,347.43	\$362.29
8"	14	340	4,760	\$6,569.45	\$547.46
10"	1	520	520	\$10,047.39	\$837.29
12"	0	860	C	\$16,616.84	\$1,384.74
	33621		88,692		

### Schedule CW-AS4 **Calculation of Private Fire Service Charge**

				(2) x (3)	(1)^2.63		(2) x (6)
Meter Size Un	its of Service					6" Equivalency	6" Equivalents
(1)	(2)	Factor (3)		Equiv. Meters (4)	Demand (5)	Factor (6)	(7)
0.75	3		1.1	\$ 3	0.47	0.004	0.01
1	10		1.4	14.00	1	0.009	0.09
1.5	3		1.8	5.40	2.9	0.026	0.08
2	50		2.9	145.00	6.2	0.056	2.78
4	349		14	4,886.00	38.3	0.344	120.14
6	1,272		21	26,712.00	111.3	1.000	1272.00
8	254		29	7,366.00	237.2	2.131	541.28
10	4	36	3.25	145.00	426.6	3.832	15.33
12	17	4	43.5	739.50	689.0	6.190	105.23
16	1		58	58.00	1468.4	13.192	13.19
	1,963		-	40,074		-	2070.14
omer Costs Meters and Serv	vices Cost Allocated	to Fire Protection		\$2,186,501.15			

### Custo

Meters and Services Cost Allocated to Fire Protection	\$2,186,501.15
Equivalent Meters	40,074
Annual Cost Per Equivalent Meter	\$54.56
Monthly Cost	\$4.55
Billing and Collection Cost Allocated to Fire Protection	\$79,964.78
Number of Monthly Bills	23,556
Cost Per Bill	\$3.39
Total Customer Costs Monthly Per Eq. Meter	\$7.94

# Schedule CW-AS4 Calculation of Private Fire Service Charge Demand Costs

Max Day Max Hour	\$688,915.73 \$729,776.63
	\$1,418,692.36
Number of 6" Equivalent Connections (Public and Private)	8,121.14
Annual Cost per 6" Equivalent Connection Monthly Cost	\$174.69 <b>\$14.56</b>

### **Private Fire Service Charges**

	Customer	Demand	Total Pvt. Fire	
	Costs	Costs	Charge	
0.75	\$8.40	\$0.06		\$8.46
1	\$9.76	\$0.13		\$9.90
1.5	\$11.58	\$0.38		\$11.96
2	\$16.58	\$0.81		\$17.39
4	\$67.05	\$5.01		\$72.07
6	\$98.88	\$14.56		\$113.44
8	\$135.25	\$31.02		\$166.28
10	\$168.22	\$55.79		\$224.01
12	\$201.18	\$90.12		\$291.30
16	\$267.11	\$192.04		\$459.15

#### Plant Investment

Test Year Ending June 30, 2012

	Allocation	B 0 .	Accumulated					Maximum		Billing &	Public Fire	140 1
Course of County & Domesium	Factor	Plant in Service	Depreciation	Net Book Value	30-Jun-06	Base	Maximum Day	Hour	Meters C	collection	Protection	Wholesale
Source of Supply & Pumping Land and Land Rights	Α	\$ 17,072,561	\$ -	\$ 17,072,561	\$ 6,246,099	\$ 9,408,875	5 \$ -	\$ -	\$ - \$	- :	170,726	\$ 7,492,961
Structures and Improvements	A		\$ 10,352,552						\$ - \$			\$ 785.982
Collecting & Impounding Reservoirs	A	\$ 11,995,947		\$ 4,754,590			*	•	\$ - \$			\$ 2,086,738
Lakes Rivers and Other Intakes	Ä	+,,	\$ 7,241,337		9,007,124	\$ 2,301,676			\$ - \$			\$ 1,832,989
Supply Mains	A		*	\$ 16,974,877	\$ 18,196,128			•	\$ - \$			
Other Power Production Equipment	A	\$ 459.317	-,,	\$ 44,854		\$ 24,720		*	\$ - \$			
Electric Pumping Equipment	N	\$ 929,495							\$ - \$			
Hydraulic Pumping Equipment	N	Ψ 020,100		\$ 59,128				+ -,	\$ - \$		-,	
Other Plant & Miscellaneous Equipment	N			\$ 127,241					\$ - \$			
Total Source of Supply & Pumping Plant	14	\$ 70,356,802						\$ 6,998			•	\$ 19,838,492
Water Treatment Plant												
Land and Land Rights	AA	\$ 29,994	\$ -	\$ 29,994	\$ 29.994	\$ 9,477	\$ 7,053	\$ -	\$ - \$	- 9	300	\$ 13,164
Structures and Improvements	AA	,	\$ 22,784,623						\$ - \$			
Water Treatment Equipment	AA		\$ 15.782.707				(539,650)	*	\$ - \$			\$ (1,007,278)
Other Plant & Miscellaneous Equipment	AA			\$ 8,271,907				\$ -				
Total Water Treatment Plant	701	\$ 78,173,815						\$ -	·			\$ 10,622,829
Transmission & Distribution Blant											•	
Transmission & Distribution Plant Land and Land Rights	L	\$ 614.902	\$ -	\$ 614,902	\$ 614,902	\$ 218.967	s 150,602	\$ 71,657	\$ - \$	(	82.807	\$ 90,868
	L											
Structures and Improvements	_								\$ - \$			
Distribution Reservoirs & Standpipes Transmission Mains*	AA AA	* //	\$ 10,228,091 \$ 8,026,635					Ŧ	\$ - \$ \$ - \$			\$ 544,536
Distribution Mains*	TD	\$ 31,964,568						*	\$ - \$ \$ - \$			\$ 4,960,088 \$ -
Services	C	\$ 69.013.841										\$ -
	C	φ ου,υτο,υτι	\$ 9,877,014 \$ 16,655,211				T	Ŧ	\$ 59,136,827 \$ \$ 7,871,479 \$			\$ -
Meters & Meter Installation Hydrants	FP		\$ 3,228,864				*	•	\$ 7,871,479 \$ \$ - \$			\$ -
Other Plant & Miscellaneous Equipment	AA	+ .,,	, .,	\$ (712,956)				Ŧ	• - • \$ - \$			
Total Transmission & Distribution Plant	AA	\$ 172,811,444	<del></del>				\$ 8,760,238	-	·		( , ,	
		¥ <u>,</u> ,,	•,,.		*	, ,,,,,,,,	<b>,</b> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,	,,		, ,,,,,,,,	7 -,,
General Plant	_		•									
Land and Land Rights	Ţ	\$ 23,380	*						\$ 9,097 \$			
Structures and Improvements	T		\$ 4,733,312									
Office Furniture & Equipment	T T		\$ 454,562						\$ 16,140 \$			
Transportation Equipment	T		\$ 6,561,271	*					\$ 92,456 \$			
Stores Equipment	•			\$ 299,341	\$ 52,463				\$ 116,474 \$			\$ 62,135
Tools, Shop & Garage Equipment	T	,	\$ 362,834	*				\$ 1,318			, ,	
Laboratory Equipment	A	\$ 198,137			\$ 8,791				\$ - \$			\$ -
Power Operated Equipment	T	\$ 380,804							\$ 29,863 \$			
Communication Equipment	T T			\$ 254,276					\$ 98,939 \$			\$ 52,781
Miscellaneous Equipment	T			\$ -	\$ -	Ψ	*		\$ - \$			*
Other Tangible Plant	'	<del>*</del> ====;===:	+	\$ 190,203			*,	+ /-	\$ 74,008 \$		-,	
Total General Plant		\$ 19,190,858	\$ 17,846,226	\$ 1,344,632	\$ 2,940,350	\$ 353,549	113,149	\$ 32,599	\$ 523,197 \$	- 9	43,028	\$ 279,110
Total Plant		\$ 340,532,919	\$ 166,974,908	\$ 173,558,011	\$ 102,858,358	\$ 45,634,256	\$ 14,604,659	\$ 4,207,753	\$ 67,531,503 \$	- 9	5,553,812	\$ 36,026,028
Construction Work in Progress	Т			\$ -	\$ 23,150,055	\$	- \$ -	\$ -	\$ - \$	9	-	\$ -
Assets under Capital Lease	Ť			\$ 13,846,150			\$ 1,165,134		\$ 5,387,543 \$			
Total Plant Investment				\$ 187,404,161	\$ 140,736,563	\$ 49,274,875	5 \$15,769,793	\$ 4,543,440	\$ 72,919,046 \$	9	5,996,885	\$ 38,900,121
Totals used to determine Allocation Factors:												
Total Plant less Land				\$ 165,486,895		\$ 37,329,733	\$ 15,610,171	\$ 4,471,216	\$ 72,909,949 \$	- (	5,700,540	\$ 29,465,286
Reallocated Meters and Fire Protection							\$ 21,374,312		\$ (72,909,949)			
Total Plant less Land with Reallocated Meters	s and Fire Pro	otection		\$ 165,486,895			3 \$36,984,483					\$ 29,465,286

\* Allocated based on Inch Miles:

* Allocated based on Inch Miles:			
<b>Total Transmission &amp; Distribution Mains</b>		\$ 51,292,664	\$ 21,300,985
Transmission Mains	37.68%	\$ 19,328,096	\$ 8,026,635
Distribution Mains	62.32%	\$ 31,964,568	\$ 13,274,350