

Exhibit No.:  
Issues: RSM, Pension and OPEB Expense  
Witness: John M. Watkins  
Exhibit Type: Surrebuttal  
Sponsoring Party: Missouri-American Water Company  
Case No.: WR-2017-0285  
SR-2017-0286  
Date: January 24, 2018

**MISSOURI PUBLIC SERVICE COMMISSION**

**CASE NO. WR-2017-0285  
CASE NO. SR-2017-0286**

**SURREBUTTAL TESTIMONY**

**OF**

**JOHN M. WATKINS**

**ON BEHALF OF**

**MISSOURI-AMERICAN WATER COMPANY**

Exhibit No. 37  
Date 3/8/18 Reporter MW  
File No. WR-2017-0285

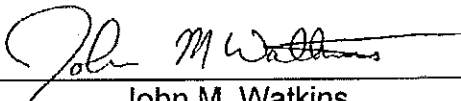
Exhibit 37  
WR-2017-0285  
Surrebuttal Testimony of John M.  
Watkins

BEFORE THE PUBLIC SERVICE COMMISSION  
OF THE STATE OF MISSOURI

IN THE MATTER OF MISSOURI-AMERICAN )	
WATER COMPANY FOR AUTHORITY TO )	
FILE TARIFFS REFLECTING INCREASED )	CASE NO. WR-2017-0285
RATES FOR WATER AND SEWER )	CASE NO. SR-2017-0286
SERVICE )	

AFFIDAVIT OF JOHN M. WATKINS

John M. Watkins, being first duly sworn, deposes and says that he is the witness who sponsors the accompanying testimony entitled "Surrebuttal Testimony of John M. Watkins"; that said testimony and schedules were prepared by him and/or under his direction and supervision; that if inquiries were made as to the facts in said testimony and schedules, he would respond as therein set forth; and that the aforesaid testimony and schedules are true and correct to the best of his knowledge.

  
\_\_\_\_\_  
John M. Watkins

State of New Jersey  
County of Camden  
SUBSCRIBED and sworn to  
Before me this 7<sup>th</sup> day of FEBRUARY 2018.

  
\_\_\_\_\_  
Notary Public

My commission expires:

ANN G. ALFANO  
NOTARY PUBLIC OF NEW JERSEY  
ID # 50014130  
My Commission Expires 4/15/2020

**SUREBUTTAL TESTIMONY  
JOHN M. WATKINS  
MISSOURI-AMERICAN WATER COMPANY  
CASE NO. WR-2017-0285  
CASE NO. SR-2017-0286**

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**SURREBUTTAL TESTIMONY**

1

**JOHN M. WATKINS**

2

**I. INTRODUCTION**

3 **Q. Please state your name and business address.**

4 **A. My name is John M. Watkins and my business address is 131 Woodcrest Road, Cherry**  
5 **Hill, New Jersey 08003.**

6 **Q. Are you the same John M. Watkins who previously submitted direct testimony in**  
7 **this proceeding on behalf of Missouri-American Water Company (“MAWC” or**  
8 **the “Company”)?**

9 **A. Yes.**

10 **Q. What is the purpose of your surrebuttal testimony in this proceeding?**

11 **A. The purpose of my surrebuttal testimony is to address certain comments made by**  
12 **various witnesses in their rebuttal testimony in regards to the proposed Revenue**  
13 **Stabilization Mechanism (“RSM”). I will also addresses an update and proposed**  
14 **accounting change to pension and Other Post Employment Benefit (OPEBs).**

15 **II. REVENUE STABILIZATION MECHANISM**

16 **Q. On page 4 of Staff witness James Busch’s rebuttal testimony, he states that the**  
17 **“Staff does not agree that there are errors inherent in determining test year sales.”**  
18 **Has the Company conducted an analysis on the usage levels proposed for purposes**  
19 **of establishing test year sales during rate case proceeding and the usage levels**  
20 **actually experienced by the Company?**

1 A. Yes, attached to my surrebuttal testimony as Schedule JMW-4 is a line graph which  
2 depicts Staff's as filed position, the Company's as filed position and actual results  
3 based off of consumption levels. Schedule JMW-4 is a visual depiction of the inherent  
4 errors in setting test year sales.

5 **Q. How do Staff's as-filed usage levels in each rate case since 2007 compare to the**  
6 **Company's actual usage levels for each year?**

7 A. Staff's as-filed positions have consistently reflected unrealistically high and unrealized  
8 levels of consumption for every year except the unusually hot, drought year of 2012.  
9 Since 2007, the Company only experienced actual consumption higher than Staff's  
10 projection in that one drought year (2012). The other 10 years are below Staff's  
11 projections, and in 8 of the 10 years the variance was over 3.8 billion gallons with 6 of  
12 the 10 years having a variance of approximately 5 billion gallons or more. The average  
13 variance of the 10 years that are below Staff's projections is over 5 billion gallons per  
14 year. Over the past eleven years, the Company has sold over 48 billion gallons less  
15 than what Staff predicted. This is an average deficit of approximately 4.4 billion  
16 gallons in sales per year. For example, during calendar year 2009, the Company had  
17 actual usage of 58,141,186 thousand gallons, whereas Staff's direct case in Case No.  
18 WR-2008-0311 had projected usage of 68,022,521 thousand gallons. This results in a  
19 variance of 9,881,335 thousand gallons, or approximately 14.5% lower than Staff's  
20 projection.

21 **Q. Are the Company's projections more accurate when compared to actuals?**

22 A. Yes, but there are still large variances between actual usage and the Company's  
23 projections. For that same period (2007-2017), the Company projected it would sell

1 approximately 686 billion gallons, while actual sales were 656 billion gallons, which  
2 is 30 billion gallons less than the Company's own projections. This is an average  
3 deficit of approximately 2.7 billion gallons in sales per year. For example, the  
4 Company's proposed consumption level in Case No. WR-2008-0311 was 66,475,503  
5 thousand gallons, which had a variance of 8,334,317 thousand gallons when compared  
6 to 2009 actuals. While the Company's projections were more accurate than Staff's  
7 projections, they still resulted in a significant variance between projected and actual  
8 consumption.

9 **Q. Is there a way to effectively address the fact that forecasted usage generally does**  
10 **not result in the Company achieving its or Staff's proposed level of consumption**  
11 **and revenues?**

12 A. Yes, the adoption of the RSM would remedy that problem. It solves the forecasting  
13 issues of both the Company and Staff.

14 **Q. Staff witness Busch states on page 4 lines 12-13 of his rebuttal testimony that**  
15 **"[t]he regulatory process smooths out these fluctuations through the process of**  
16 **normalization." Do you agree?**

17 A. No, as can be seen from Schedule JMW-4, the regulatory process has not smoothed out  
18 the fluctuations when compared to Staff's or the Company's positions. Neither Staff  
19 nor the Company has determined a way to predict the year to year changes in  
20 consumption due to weather. Even if by some miracle the Company or Staff were to  
21 come close to the actual level of consumption in one year, based on how drastic the  
22 consumption levels can change due to weather, it is extremely unlikely that the same  
23 level of consumption would be repeated year after year.

1 **Q. Have you analyzed the dollar impact?**

2 A. Yes, Schedule JMW-3, filed with my direct testimony, and the updated Schedule JMW-  
3 3, filed with this surrebuttal testimony, shows what the over/under collection of  
4 revenues net of production costs would have been for the Company from 2007-2017.

5 **Q. What was updated in Schedule JMW-3?**

6 A. The Company updated the information to include 2017.

7 **Q. What do the updated Schedule JMW-3 and Schedule JMW-4 show?**

8 A. The updated Schedule JMW-3 shows that from 2007-2017 the Company collected  
9 more revenues net of production costs in only 2 out of 11 years. In total for the 11  
10 years, the actual dollars were less than the authorized net of production costs by over  
11 \$99 million or an average of over \$9 million per year. Schedule JMW-4 shows that the  
12 consumption levels projected by Staff were exceeded just once out of 11 years with a  
13 cumulative variance of 48 billion gallons when comparing Staff's projections to actual  
14 sales. Together, these schedules show that the Company would need to exceed the  
15 authorized levels of consumption if it were to achieve or exceed the authorized level of  
16 revenues net of production costs.

17 **Q. Mr. Busch points to the Iowa-American Water Company Docket No. RPU-2016-**  
18 **002 in his rebuttal testimony as an example of a recent case where a RSM was**  
19 **not adopted. Has any State Commission authorized a revenue stabilization**  
20 **mechanism within the same timeframe?**

21 A. Yes, the Illinois Commerce Commission ("ICC") authorized a revenue stabilization  
22 mechanism called the Volume Balancing Adjustment Rider ("VBA Rider") for Illinois-  
23 American Water Company in December 2016. *See Order, Illinois-American Water*

1            *Company Proposed Rate Increases for Water and Sewer Service*, Case No. 16-0093  
2            (Dec. 13, 2016)(“ICC Order”).

3    **Q.    Please elaborate.**

4    **A.    On page 72 of the ICC Order, the ICC stated the following regarding the VBA Rider:**

5            The Commission finds that IAWC’s Rider VBA is reasonable and  
6            appropriate in these circumstances. The record supports the Company’s  
7            assertion that most of its costs are fixed and that it is experiencing both  
8            declining and variable usage. Additionally, IAWC has established that  
9            both weather and declining usage per customer has caused its sales  
10            volumes and revenues to vary from approved levels. While there is  
11            nothing wrong with traditional ratemaking, the Commission has  
12            determined in Docket Nos. 07-0241/07-0242 (Consol.), Docket Nos.  
13            11-0280/11-0281 (Consol.), and recently in Docket No. 15-0142, that  
14            decoupling mechanisms such as Rider VBA address these cost recovery  
15            issues.

16  
17            The Commission notes that under traditional ratemaking, the Company  
18            relies on volumetric charges to recover the majority of its costs. Thus,  
19            IAWC’s cost recovery is heavily dependent on water sales volume  
20            which can be problematic because declining usage can drive IAWC’s  
21            sales volumes, and therefore revenues, below the point where the utility  
22            has a reasonable opportunity to recover its costs. The Company’s  
23            dependence on volumetric sales for revenue creates an incentive to sell  
24            more water and a disincentive to promote water efficiency.

25  
26            The Commission believes Rider VBA resolves these issues by  
27            producing a determined amount of revenue regardless of how much  
28            water a utility delivers, and therefore it ensures that the utility can  
29            recover its Commission-authorized revenue requirement. Rider VBA  
30            also removes the incentive to sell more water and any disincentive to  
31            promote water efficiency, reduces the adverse impacts of weather  
32            variability for both IAWC and its customers, and supports revenues for  
33            programs and investments that improve water efficiency. The rider also  
34            benefits IAWC’s customers because it allows for periodic adjustments  
35            (credits and surcharges) in between rate cases therefore the Company  
36            will not need to file frequent rate cases to recover revenue shortfalls  
37            resulting from declining sales. IAWC customers will also benefit from  
38            reduced rate case expense because there will be a reduction in contested  
39            issues in rate cases and a reduction in the frequency of rate cases.

40  
41    **Q.    OPC witness Marke, states on page 10 of his rebuttal testimony that “[a]**  
42    **decoupling mechanism could also be an appropriate regulatory tool to be utilized**



1 during extreme, extended periods of conservation rationing (e.g., the Southern  
2 California drought (2012-2017)).” When did California American receive  
3 authorization for its Revenue Adjustment Mechanism and Modified Cost  
4 Balancing Account (“WRAM/MCBA”)?

5 A. California-American received authorization in 2008 for its WRAM/MCBA, which is  
6 well before the extended period of drought referenced by OPC.

7 **Q. Was the Illinois VBA Rider authorized due to drought?**

8 A. No. Illinois-American had a very similar schedule compared to Schedule JMW-3 and  
9 the updated Schedule JMW-3 in this case. In Illinois’ case, the timeframe analyzed  
10 was 2009-2015 and each year’s sales fell short of the authorized amount ranging from  
11 a low of \$664,000 to a high of \$15.3 million. In addition, the ICC authorized a VBA  
12 Rider not only for the water customers but also for the wastewater customers.

13 **Q. If the Commission were to determine it did not want to implement a**  
14 **surcharge/credit mechanism, can the Commission still approve an RSM?**

15 A. Yes. While implementing an RSM as a surcharge/credit mechanism with an annual  
16 reconciliation is the best alternative,<sup>1</sup> some of the benefits of an RSM can still be  
17 achieved through a revenue tracker. The Company would propose a revenue tracker  
18 where the reconciliation of the regulatory asset or liability is deferred and addressed in  
19 the next general rate case. I discussed this potential alternative in my direct testimony  
20 on pages 11 and 12.

---

<sup>1</sup> “The advantage of an annual reconciliation is the annual surcharge or credit addresses the shortfall or over collection of net revenues in a timely manner instead of accumulating multiple years together and then amortizing it over a longer period of time. Also, incorporating any surcharge or credit into base rates by deferring and amortizing would mask or hide any impact to the customer and not drive water efficiency or effective pricing signals.” Watkins Dir., p. 11-12.

1 **Q. Please describe the specific accounting treatment for the RSM.**

2 A. As stated in my direct testimony, each month the Company would compare the actual  
3 metered revenues for the applicable customer classes to the amount of authorized  
4 revenues for the applicable classes. MAWC would also compare the actual production  
5 costs to the authorized amount of production costs associated with the applicable  
6 customer classes. If the actual revenues fall short of the authorized revenues, the  
7 difference in the revenue less the production costs would be deferred to a regulatory  
8 asset. If the actual revenues were more than the authorized revenues, the difference in  
9 the revenue less the production costs would be deferred to a regulatory liability.  
10 Generally speaking, if the Company has additional revenues due to an increase in water  
11 sales, the Company will defer the additional revenue, less the additional cost to produce  
12 the water, to a regulatory asset. Whereas, if water sales are lower, then the Company  
13 has a shortfall in revenues due to a decrease in water sales, the Company will accrue  
14 the shortfall in revenues less the savings in production expense from producing less  
15 water, to a regulatory liability.

16 **Q. Would the RSM work the same way if it was a revenue tracker?**

17 A. Yes, the mechanics and calculations would be the same except the annual reconciliation  
18 would not occur. Instead the balances would be deferred until the next rate case and  
19 then amortized over a period of time.

20 **Q. In his rebuttal testimony, Water District Intervenor's witness Donald Johnstone**  
21 **does not support the application of the RSM to sale for resale customers. Do you**  
22 **agree?**

1 A. No. Most sale for resale customers are buying water to supplement their own supply  
2 of water that they sell to their customers. Typically this includes residential,  
3 commercial and other customer classes, which are also included in the Company's  
4 proposed RSM. Therefore, sale for resale customers should remain as part of the RSM  
5 as proposed by the Company.

6 **Q. Which customer classes are included in the proposal for RSM?**

7 A. The Company proposed to include customer classes of residential, commercial, other  
8 public authorities ("OPA") and sale for resale for both water and sewer. The  
9 Company's position was that customers in Rate A and Rate B should be included in  
10 the RSM excluding the industrial class.

11 **Q. Does this position exclude any additional customers from the as-proposed  
12 position that the Company filed?**

13 A. Yes, the Company excluded the industrial class of customers in the original filing.  
14 The Company is now proposing to exclude the industrial class and any Rate J  
15 customers.

16 **III. PENSION AND OPEB EXPENSE**

17 **Q. Has the Financial Accounting Standards Board ("FASB") issued any standards  
18 regarding retirement benefits, specifically those related to pension and other post-  
19 retirement benefits?**

20 A. Yes. FASB's Accounting Standards Update for Compensation – Retirement Benefits  
21 (Topic 715), was issued in March 2017 ("Update"), which amends the presentation of  
22 net periodic benefit cost for pension and other post-retirement benefits, with an  
23 effective date for annual periods beginning after December 15, 2017.

1 **Q. Did the Company propose any changes in its case filed on June 30, 2017?**

2 A. At the time of the filing, the Company was still reviewing its options and determining  
3 the best method for complying with GAAP starting in 2018, so it proposed the  
4 traditional method that capitalizes the entire pension and OPEB amount.

5 **Q. What will the accounting treatment be for GAAP purposes?**

6 A. For GAAP purposes, the service cost component of pension and OPEB will continue  
7 to be capitalized as it has in the past. The non-service components, which include  
8 interest cost, return on plan assets, gains/losses, prior service cost, transition  
9 asset/obligation and gains/losses on settlement or curtailment, will no longer be  
10 capitalized.

11 **Q. Would the current proposed regulatory treatment in this case require the  
12 Company to maintain separate books?**

13 A. Yes. If the current proposed treatment is maintained, the Company would need to  
14 maintain two sets of books, one for regulatory purposes and one for GAAP purposes.

15 **Q. Have other companies addressed this issue in rate cases yet?**

16 A. The Company is not currently aware of any open rate cases where this issue has been  
17 addressed. FERC did issue a statement which the Company received through auditors  
18 that stated:

19 The FERC Accounting Staff notified us that they had additional discussions  
20 with the FERC Rate Staff and have decided that EEI/AGA member companies  
21 can elect to change their capitalization policy to capitalize only service cost for  
22 FERC accounting and reporting purposes consistent with ASC 715 or  
23 companies can elect to continue to capitalize all the components of net benefit  
24 cost. Companies are not required to seek approval from the FERC Accounting  
25 or Rate Staff for changing their capitalization policy with the following  
26 conditions:



1 Willis Towers Watson, which are then used to calculate the pension and OPEB expense  
2 under the traditional approach as well as under the new GAAP methodology.

3 **Q. How does the new forecast compare to the as-filed numbers?**

4 A. For pension expense, the traditional method is \$3,012,741 whereas the GAAP method  
5 would be \$3,490,825. The as-filed rate year ending May 31, 2019 had an expense of  
6 \$3,252,140. For OPEB expense, the traditional method is a negative \$297,266,  
7 whereas the GAAP method would be a negative \$1,064,964. The as-filed rate year  
8 ending May 31, 2019 had an expense of \$289,059. Netting the pension and OPEB  
9 expense together shows that the filing of \$1,699,367 (\$2,712,248-\$1,012,881) would  
10 be reduced to \$535,477 (\$2,907,865-\$2,372,388) based on the latest information from  
11 Willis Towers Watson.

12 **Q. Does the Company have updated service and non-service costs for 2019?**

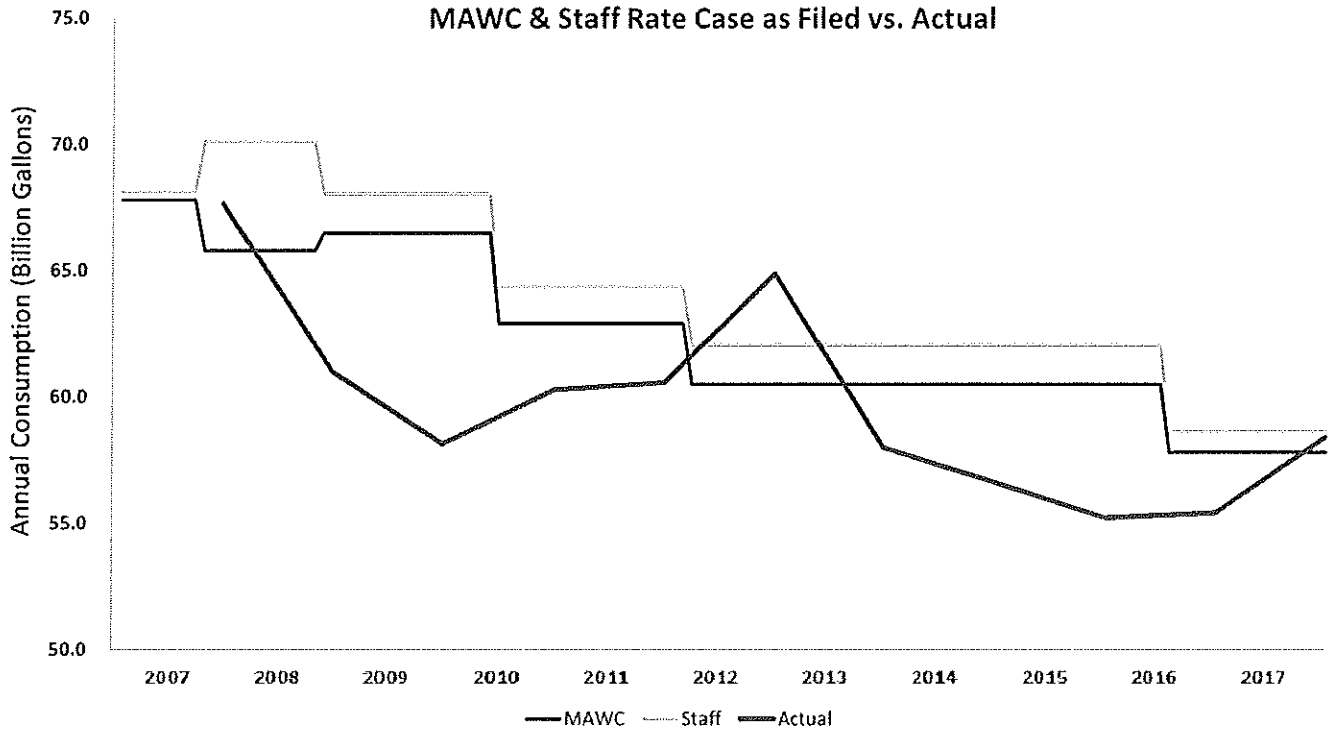
13 A. No, the Company is using the latest forecast from Willis Towers Watson for 2018 for  
14 forecasting the 12 months ended May 31, 2019.

15 **Q. Does this conclude your surrebuttal testimony?**

16 A. Yes, it does.

	2007	2008	2009	2010	2011	2012	2013	2014	2015	Schedule JMW-3 Updated 2016	2017
<b>Authorized Revenues (1)</b>											
Water	\$145,679,828	\$173,186,571	\$197,280,769	\$206,532,238	\$213,962,106	\$232,142,413	\$237,054,075	\$237,054,075	\$237,054,075	\$247,349,919	\$258,553,015
Sewer	111,479	459,306	564,469	1,114,166	1,558,273	2,668,437	2,969,039	2,969,039	2,969,039	5,301,244	7,838,959
	<u>\$145,791,307</u>	<u>\$173,645,877</u>	<u>\$197,845,238</u>	<u>\$207,646,404</u>	<u>\$215,520,379</u>	<u>\$234,810,850</u>	<u>\$240,023,114</u>	<u>\$240,023,114</u>	<u>\$240,023,114</u>	<u>\$252,651,163</u>	<u>\$266,391,974</u>
<b>Actual Revenues</b>											
Water	\$147,187,689	\$155,236,743	\$176,814,412	\$192,614,238	\$207,389,279	\$243,652,841	\$229,023,141	\$227,138,052	\$218,000,520	\$233,128,505	\$259,688,899
Sewer	109,743	418,503	584,552	725,300	1,637,183	2,711,814	3,034,304	3,012,739	3,043,806	5,539,309	8,846,470
	<u>\$147,297,432</u>	<u>\$155,655,246</u>	<u>\$177,398,964</u>	<u>\$193,339,538</u>	<u>\$209,026,462</u>	<u>\$246,364,655</u>	<u>\$232,057,445</u>	<u>\$230,150,791</u>	<u>\$221,044,326</u>	<u>\$238,667,814</u>	<u>\$268,535,369</u>
<b>Variance - Surcharge (Credit)</b>											
Water	(\$1,507,861)	\$17,949,828	\$20,466,357	\$13,918,000	\$6,572,827	(\$11,510,428)	\$8,030,934	\$9,916,023	\$19,053,555	\$14,221,414	(\$1,135,884)
Sewer	1,736	40,803	(20,083)	388,866	(78,910)	(43,377)	(65,265)	(43,700)	(74,767)	(238,065)	(1,007,511)
	<u>(\$1,506,125)</u>	<u>\$17,990,631</u>	<u>\$20,446,274</u>	<u>\$14,306,866</u>	<u>\$6,493,917</u>	<u>(\$11,553,805)</u>	<u>\$7,965,669</u>	<u>\$9,872,323</u>	<u>\$18,978,788</u>	<u>\$13,983,349</u>	<u>(\$2,143,395)</u>
Note (1): Classes of customers include Residential, Commercial, OPA and Sale for Resale											
<b>Authorized Production Costs (1)</b>											
Water	\$12,345,504	\$14,684,065	\$18,474,873	\$18,739,529	\$18,952,075	\$20,004,431	\$20,288,740	\$20,288,740	\$20,288,740	\$20,018,222	\$19,723,865
Sewer	12,450	83,007	111,156	128,559	142,535	219,038	239,706	239,706	239,706	909,967	1,639,293
	<u>\$12,357,954</u>	<u>\$14,767,092</u>	<u>\$18,586,029</u>	<u>\$18,868,088</u>	<u>\$19,094,610</u>	<u>\$20,223,469</u>	<u>\$20,528,446</u>	<u>\$20,528,446</u>	<u>\$20,528,446</u>	<u>\$20,928,189</u>	<u>\$21,363,158</u>
<b>Actual Production Costs</b>											
Water	\$15,368,394	\$15,607,118	\$17,215,075	\$18,409,894	\$19,140,166	\$20,275,212	\$19,050,403	\$19,792,061	\$20,132,948	\$20,542,707	\$20,418,115
Sewer	95,533	141,707	114,124	134,483	228,851	787,771	232,540	532,769	934,841	1,295,278	1,642,132
	<u>\$15,463,927</u>	<u>\$15,748,825</u>	<u>\$17,329,199</u>	<u>\$18,544,377</u>	<u>\$19,369,017</u>	<u>\$21,062,983</u>	<u>\$19,282,943</u>	<u>\$20,324,830</u>	<u>\$21,067,789</u>	<u>\$21,837,985</u>	<u>\$22,060,248</u>
<b>Production Costs</b>											
<b>Variance - Surcharge (Credit)</b>											
Water	\$3,022,890	\$923,033	(\$1,259,798)	(\$329,635)	\$188,091	\$270,781	(\$1,238,337)	(\$496,679)	(\$155,792)	\$524,485	\$694,250
Sewer	83,083	58,700	2,968	5,924	86,316	568,733	(7,166)	293,063	695,135	385,311	2,839
	<u>\$3,105,973</u>	<u>\$981,733</u>	<u>(\$1,256,830)</u>	<u>(\$323,711)</u>	<u>\$274,407</u>	<u>\$839,514</u>	<u>(\$1,245,503)</u>	<u>(\$203,616)</u>	<u>\$539,343</u>	<u>\$909,796</u>	<u>\$697,090</u>
<b>Revenues net of Expenses</b>											
<b>Variance - Surcharge (Credit)</b>											
Water	\$1,515,029	\$18,872,861	\$19,206,559	\$13,588,365	\$6,760,918	(\$11,239,647)	\$6,792,597	\$9,419,344	\$18,897,763	\$14,745,899	(\$441,634)
Sewer	84,819	99,503	(17,115)	394,790	7,406	525,356	(72,431)	249,363	620,368	147,246	(1,004,672)
	<u>\$1,599,848</u>	<u>\$18,972,364</u>	<u>\$19,189,444</u>	<u>\$13,983,155</u>	<u>\$6,768,324</u>	<u>(\$10,714,291)</u>	<u>\$6,720,166</u>	<u>\$9,668,707</u>	<u>\$19,518,131</u>	<u>\$14,893,145</u>	<u>(\$1,446,306)</u>

### Consumption Analysis MAWC & Staff Rate Case as Filed vs. Actual





Missouri American Water Company  
Pension / PBOP Analysis

Schedule JMW-5

Pension - As Filed

	2017	RYE 5/31/2018	RYE 5/31/2019
Pension	\$6,982,081	\$6,049,100	\$5,635,996
MAWC Cap Rate	42.30%	42.30%	42.30%
Total Capitalized Pension	\$2,953,209	\$2,558,587	\$2,383,856
Total Pension Expense	\$4,028,871	\$3,490,513	\$3,252,140

PBOP - As Filed

	2017	RYE 5/31/2018	RYE 5/31/2019
PBOP	\$808,378	\$583,880	\$500,943
MAWC Cap Rate	42.3%	42.3%	42.3%
Total Capitalized PBOP	\$341,920	\$246,964	\$211,884
Total Expensed PBOP	\$466,459	\$336,916	\$289,059
Total Pension & PBOP Expense	\$4,495,330	\$3,827,430	\$3,541,199

Pension - As Filed

	2017	RYE 5/31/2018	RYE 5/31/2019
Total Pension Expense			
Pension Expense	\$4,028,871	\$3,490,513	\$3,252,140
Amortization of Tracker	(723,181)	(539,892)	(539,892)
Total Expensed Pension	\$3,305,690	\$2,950,621	\$2,712,248
Total PBOP Expense			
PBOP Expense	\$466,459	\$336,916	\$289,059
Amortization of Tracker	(1,294,957)	(1,301,940)	(1,301,940)
Total Expensed PBOP	(\$828,498)	(\$965,024)	(\$1,012,881)
Total Pension and PBOP expense			\$1,699,367

Pension - Revised Surrebuttal

	Traditional 2018	ASC 715 2018		
		Service	Non-Service	Total
Pension	\$5,329,456	\$4,229,654	1,099,801	\$5,329,456
Capitalization Rate - Revised per Rebuttal	43.47%	43.47%		
Total Capitalized Pension	\$2,316,714	\$1,838,631	\$0	\$1,838,631
Total Expensed Pension	\$3,012,741	\$2,391,024	\$1,099,801	\$3,490,825

PBOP - Revised Surrebuttal

	Traditional 2018	2018		
		Service	Non-Service	Total
PBOP	(\$525,855)	\$1,240,185	(\$1,766,040)	(\$525,855)
Capitalization Rate - Revised per Rebuttal	43.47%	43.47%		
Total Capitalized PBOP	(\$228,589)	\$539,109	\$0	\$539,109
Total Expensed PBOP	(\$297,266)	\$701,077	(\$1,766,040)	(\$1,064,964)
Total Pension & PBOP Expense	\$2,715,476	\$3,092,100	(\$666,239)	\$2,425,861

Pension - Revised Surrebuttal

	Traditional 2018	ASC 715 2018		
		Service	Non-Service	Total
Total Pension Expense				
Pension Expense	\$3,012,741	\$2,391,024	\$1,099,801	\$3,490,825
Amortization of Tracker	(\$82,960)	(\$82,960)		(\$82,960)
Total Expensed Pension	\$2,429,781	\$1,808,064	\$1,099,801	\$2,907,865
Total PBOP Expense				
PBOP Expense	(\$297,266)	\$701,077	(\$1,766,040)	(\$1,064,964)
Amortization of Tracker	(1,307,424)	(1,307,424)		(1,307,424)
Total Expensed PBOP	(\$1,604,690)	(\$606,347)	(\$1,766,040)	(\$2,372,388)
Total Pension and PBOP expense	\$825,092			\$535,477

