

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

In the matter of Missouri-American Water Company's)
tariffs to increase rates for water service in the) CASE NO. WR-91-211
Joplin and St. Joseph, Missouri, areas of the)
Company.)

The Staff of the Missouri Public Service Commission,)
Complainant,)
vs.) CASE NO. WC-91-375
Missouri-American Water Company,)
Respondent.)

APPEARANCES: Errol D. Taylor, Attorney at Law, Brown, Douglas and Brown,
510 Francis Street, St. Joseph, Missouri 64501, for the
Missouri-American Water Company, Inc.

Willard C. Reine, Attorney at Law, 314 East High Street,
Jefferson City, Missouri 65101, for Public Water Supply
Districts No. 1 and No. 2 of Buchanan County, Public Water
Supply District No. 1 of DeKalb County, and Public Water
Supply District No. 2 of Andrew County.

Gary W. Duffy, Attorney at Law, Brydon, Swearingen & England, P.C.
P. O. Box 456, Jefferson City, Missouri 65102, for St. Joseph
Light & Power Company.

James M. Fischer, Attorney at Law, Akre, Wendt & Fischer,
102 East High Street, Jefferson City, Missouri 65101,
for Ag Processing, Inc.

John B. Coffman, and Douglas E. Micheel, Assistants Public Counsel,
P. O. Box 7800, Jefferson City, Missouri 65102, for the Office
of the Public Counsel and the Public.

Penny G. Baker, Deputy General Counsel, Michaelene A. Knudsen, and
Thomas H. Luckenbill, Assistants General Counsel, P. O. Box 360,
Jefferson City, Missouri 65102, for the Staff of the Missouri
Public Service Commission.

Hearing
Examiner: C. Gene Fee

REPORT AND ORDER

Procedural History

This matter commenced on November 20, 1990, when Missouri-American Water Company, Inc. (Company) filed proposed tariffs to increase rates for water service on an annual basis by approximately \$1.9 million or 17.2 percent. The Staff of the Missouri Public Service Commission filed a complaint seeking to reduce the Company's rates. The two cases were consolidated for all purposes.

During the course of the hearing which commenced July 17, 1991, the parties asked for a continuance for the purpose of drafting a Stipulation and Agreement reflecting a proposed settlement which had been reached in principle. On July 26, 1991, at a hearing convened for that purpose, the parties submitted to the Commission a written Stipulation and Agreement. The Company also furnished for review proposed tariffs to increase gross annual revenues by \$452,369 as provided for in the Stipulation.

Findings Of Fact

The Missouri Public Service Commission has arrived at the following findings of fact:

Company is a public utility which provides water services in an area in the State of Missouri including the Cities of Joplin and St. Joseph. In this case the Company sought Commission approval of an annual increase in water revenues in the approximate amount of \$1.9 million. The Commission Staff countered with a complaint seeking a reduction in rates on an annual basis in the range of from \$347,213 to \$448,075. As a result of the negotiations between the various parties, it is recommended that the Commission approve an annual increase in Missouri jurisdictional gross revenues for water service of \$452,369.

The tariffs proposed by the parties in this matter also include a number of rate design and service charge changes intended to bring the rates charged by the

Company closer to the costs of rendering service. Because the two portions of the Company's service area are unconnected, the proposed increases are in varying amounts that are based on the actual cost of rendering service pursuant to the class cost of service study performed by the Company.

The Commission has reviewed the rates stipulated by the parties and finds that they are reasonable and the Stipulation and Agreement should be adopted in disposition of all the matters in this case. The Stipulation, which adequately describes the numerous proposed tariff changes is attached hereto and is incorporated herein by reference.

Conclusions of Law

The Missouri Public Service Commission has arrived at the following conclusions of law:

The Company is a public utility subject to the jurisdiction of this Commission pursuant to Chapters 386 and 393, RSMo Supp. 1990. The tariffs which are the subject matter of this proceeding were suspended pursuant to the authority vested in this Commission in Section 393.150, RSMo. The burden of proof to show that the proposed increased rates are just and reasonable shall be upon the Company. The Commission, after a notice and hearing, may order a change in any rate, charge or practice, including rate design, and it may determine and prescribe the lawful rate, charge, or practice thereafter to be observed.

The Commission may consider all facts which, in its judgment, have any bearing upon the proper determination of the price to be charged, with due regard, among other things, to a reasonable average return upon the value of the property actually used in public service, and to the necessity of making reservations out of income for surplus and contingencies. In so doing, the Commission shall consider the fair value of the property in its proper relationship to all other facts that have a material bearing on the establishment of fair and just rates.

For ratemaking and rate design purposes, the Commission may accept a stipulation of settlement on any contested matters submitted by the parties. The Commission is of the opinion that when the matters of agreement between the parties appear to be reasonable and proper they should be accepted.

The Commission concludes that the proposed rate increase provided for in the Stipulation and Agreement attached hereto, is just and reasonable and should be adopted. The Commission also concludes that the tariffs submitted, which bear an issue date of July 26, 1991, and a proposed effective date of August 1, 1991, should be approved to be effective for service rendered on and after August 1, 1991.

The Commission is also of the opinion that, as provided for in the Stipulation and Agreement, as corrected by interlineation at the time of the hearing, the prefiled testimony and exhibits of all parties should be received in evidence as hereinafter ordered.

IT IS THEREFORE ORDERED:

1. That the Missouri Public Service Commission adopts the Stipulation and Agreement filed herein on July 25, 1991, and offered at the hearing held on July 26, 1991.
2. That the revised tariffs filed on November 20, 1990, and suspended herein, be, and they are, hereby disallowed and the revised tariffs listed as follows bearing an issue of July 26, 1991, and an effective date of August 1, 1991, be approved for service rendered on and after August 1, 1991.

ST. JOSEPH DISTRICT:

P.S.C. MO. No. 1

Fourth Revised Sheet No. 1, Canceling Third Revised Sheet No. 1
Third Revised Sheet No. 2, Canceling Second Revised Sheet No. 2

JOPLIN DISTRICT:

P.S.C. MO. No. 2

Fourth Revised Sheet No. 3, Canceling Third Revised Sheet No. 3

Second Revised Sheet No. 5, Canceling First Revised Sheet No. 5

3. Pursuant to the Stipulation and Agreement the prefiled testimony, schedules, exhibits and minimum filing requirements submitted by Missouri-American Water Company, the Commission Staff, the Office of the Public Counsel, AG Processing, Inc., and the Public Water Supply Districts, shall be received into evidence as follows:

Exhibit 1	Hearing Memorandum
Exhibit 2	Stipulation and Agreement
Exhibit 3	Minimum Filing Requirements
Exhibit 4	Testimony of Company Witness Moon
Exhibit 5	Testimony of Company Witness Holsapple
Exhibit 6	Testimony of Company Witness Salser
Exhibit 7	Testimony of Company Witness McKitrick
Exhibit 8	Testimony of Company Witness Phillips
Exhibit 9	Rebuttal Testimony of Company Witness Phillips
Exhibit 10	Rebuttal Testimony of Company Witness Trim
Exhibit 11	Rebuttal Testimony of Company Witness Cole
Exhibit 12	Rebuttal Testimony of Company Witness Holsapple
Exhibit 13	Rebuttal Testimony of Company Witness Salser
Exhibit 14	Rebuttal Testimony of Company Witness McKitrick
Exhibit 15	Rebuttal Testimony of Company Witness Darby
Exhibit 16	Company update of Accounting Exhibits
Exhibit 17	Surrebuttal Testimony of Company Witness Salser
Exhibit 18	Direct Testimony of Staff Witness Pfleeger
Exhibit 19	Surrebuttal Testimony of Staff Witness Pfleeger
Exhibit 20	Direct Testimony of Staff Witness Ruppel
Exhibit 21	Surrebuttal Testimony of Staff Witness Ruppel
Exhibit 22	Direct Testimony of Staff Witness Merciel
Exhibit 23	Direct Testimony of Staff Witness Gray
Exhibit 24	Surrebuttal Testimony of Staff Witness Gray
Exhibit 25	Rebuttal Testimony of Staff Witness Henderson
Exhibit 26	Direct Testimony of Staff Witness Moore
Exhibit 27	Rebuttal Testimony of Staff Witness Moore
Exhibit 28	Surrebuttal Testimony of Staff Witness Moore
Exhibit 29	Surrebuttal Testimony of Staff Witness Oligschlaeger
Exhibit 30	Staff Accounting Schedules
Exhibit 31	Direct Testimony of Public Counsel Witness Ewers
Exhibit 32	Surrebuttal Testimony of Public Counsel Witness Ewers
Exhibit 33	Surrebuttal Testimony of Public Counsel Witness Trippensee
Exhibit 34	Direct Testimony of AG Processing Witness Harwig
Exhibit 35	Rebuttal testimony of Ag Processing Witness Harwig
Exhibit 36	Direct testimony of Public Water Supply Supply District Witness Figley

4. That this Report and Order shall become effective on August 1, 1191.

BY THE COMMISSION

Brent Stewart

Brent Stewart
Executive Secretary

(S E A L)

Rauch, McClure and Perkins, CC., Concur.
Steinmeier, Chm., and Mueller, C., Absent.

Dated at Jefferson City, Missouri,
on this 30th day of July, 1991.

BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI

In the matter of Missouri-American)	
Water Company's tariffs to)	
increase rates for water service)	Case No. WR-91-211
in the Joplin and St. Joseph,)	
Missouri, areas of the Company.)	
 The Staff of the Missouri Public)	
Service Commission,)	
)	
Complainant;)	
v.)	Case No. WC-91-375
)	
The Missouri-American Water)	
Company, a Missouri corporation,)	
)	
Respondent.)	

STIPULATION AND AGREEMENT

On November 20, 1990, Missouri-American Water Company, Inc. (Company) filed with the Missouri Public Service Commission (Commission) proposed tariffs reflecting increased rates for water service provided to customers in the Joplin and St. Joseph, Missouri, service areas to become effective on December 20, 1990. On December 14, 1990, the Commission issued its Suspension Order and Notice of Proceedings which suspended Company's proposed tariffs for 120 days beyond December 20, 1990, to April 19, 1991, and further suspended those tariffs for a period of six months beyond April 19, 1991, to October 19, 1991.

On January 18, 1991, the Commission granted intervention to St. Joseph Light & Power Company, Ag Processing, Inc., the City of St. Joseph, Public Water Supply District No. 2 of Buchanan County, Public Water Supply District No. 1 of Buchanan County, Public Water

PUBLIC SERVICE COMMISSION
JUL 25 1991
FILED

Supply District No. 2 of Andrew County and Public Water Supply District No. 1 of DeKalb County.

On May 17, 1991, the parties filed a complaint, docketed as Case No. WC-91-375, alleging that Company's present rates were not just and reasonable and should be reduced. On May 22, 1991, the Commission ordered that Staff's complaint be consolidated with Company's pending rate case in Docket No. WR-91-211. All parties to the Case No. WR-91-211 were made parties to the consolidated proceeding.

On July 3, 1991, Staff filed a motion to strike Company's rebuttal testimony and exhibits as inconsistent with previous Commission rulings in this case. On July 12, 1991, the Commission granted this motion, however, on the first day of hearing, July 17, 1991, the Commission granted Company's motion to set aside the Commission order of July 12, 1991.

The parties engaged in a prehearing conference on July 1-3, 1991 in the Commission's hearing room on the 5th Floor of the Harry S Truman State Office Building. On July 17, 1991, the parties proceeded with the hearing of this matter before the Commission. All parties except the City of St. Joseph appeared and participated.

During the prehearing conference and on July 17 and July 18, 1991, the parties participated in settlement discussions and have reached an agreement. Subject to the Commission's approval the parties have agreed that this consolidated proceeding shall be resolved as follows:

1. That Company be authorized to file revised water tariffs effective August 1, 1991, designed to increase Company's Missouri

jurisdictional gross annual revenues by \$452,369, exclusive of applicable of franchise, gross receipts and other taxes.

2. That the Commission shall authorize Company to file tariffs effective August 1, 1991, designed in increase its jurisdictional gross annual revenues by district, exclusive of applicable franchise and gross receipt taxes, as follows:

Joplin	\$308,745
St. Joseph	\$143,624

3. That this Stipulation and Agreement represents a negotiated dollar settlement for the sole purpose of disposing of this case and none of the parties herein shall be prejudiced by or bound by the terms of this Stipulation and Agreement in any other proceeding. None of the parties shall be deemed to have approved or acquiesced in any particular treatment for any underlying or allegedly underlying principle of ratemaking regarding any issue in this consolidated proceeding. Furthermore, Public Counsel has not agreed to the inclusion of any imprudently built wells into rate base or to any expenses relating thereto.

4. The Company and Public Service Commission Staff stipulate and agree that the acquisition adjustment in the amount of \$360,831 relating to plant purchased in the St. Joseph District prior to 1914 shall be amortized and written off as a below-the-line expense and shall not be included in the Company's cost of service. No other parties to this proceeding, and specifically St. Joseph Light & Power Company, shall be deemed to have approved or acquiesced in the agreement as between Company and Public Service Commission Staff

concerning this acquisition adjustment and such parties shall not be prejudiced by or bound by such agreement as between Company and Public Service Commission Staff in any other matters or proceedings that may involve acquisition adjustments.

5. The parties agree and stipulate to the rate design attached hereto as Appendix A. None of the parties herein shall be bound by the rate design method or cost of service determination or cost allocation or calculation used to generate the stipulated rate design herein in any future cases involving Missouri water utilities.

6. That this Stipulation and Agreement represents a negotiated dollar settlement for the sole purpose of disposing of this consolidated proceeding as captioned above and none of the signatories to this Stipulation and Agreement shall be prejudiced by or bound by the terms of this Stipulation and Agreement in any other proceeding, or in this proceeding, in the event the Commission does not approve this Stipulation and Agreement.

7. That the prefiled testimony, schedules and minimum filing requirements sponsored by Company witnesses Moon, Salser, Holsapple, Phillips, Trim, Cole, and Darby; Staff witnesses Pfleeger, Ruppel, Merciel, Gray, Henderson, Moore, and Oligschlaeger; Public Counsel's witnesses Ewers and Trippensee; Ag Processing, Inc. witness Harwig; and witness for the intervening public water supply districts, Figley, shall be received into evidence without the necessity of those witnesses taking the witness stand.

8. That in the event that the Commission accepts the specific terms of this Stipulation and Agreement, the parties waive their

respective rights to cross examine the witnesses named in paragraph seven (7) with respect to their prefiled testimonies and schedules.

9. That in the event that the Commission accepts the specific terms of this Stipulation and Agreement, the parties waive their respective rights pertaining to (1) the presentation of oral argument or filing of written briefs, pursuant to Section 536.080(1), RSMo. 1986, as amended; (2) the reading of the transcript by the Commission, pursuant to Section 536.080(2), RSMo. 1986, as amended; and (3) judicial review, pursuant to Section 386.510, RSMo. 1986, as amended.

10. That the agreements in this Stipulation and Agreement have resulted from extensive negotiations among the signatory parties and are interdependent. In the event the Commission does not approve or adopt this Stipulation and Agreement in total, or in the event the revised tariffs agreed to herein do not become effective in accordance with the provisions contained herein, this Stipulation and Agreement shall be void and no party shall be bound by any of the agreements or provisions hereof.

11. The Staff shall have the right to submit to the Commission, in memorandum form, an explanation of its rationale for entering into this Stipulation and Agreement, and to provide the Commission whatever further explanation the Commission requests. The Staff's memorandum shall not become part of the record of this proceeding and shall not bind or prejudice the Staff in any future proceeding or in this proceeding in the event the Commission does not approve the Stipulation and Agreement. Any rationales advanced by

Staff in such a memorandum are its own and not acquiesced in or otherwise adopted by the other stipulated parties.

WHEREFORE, the parties respectfully request from the Commission the following: (1) that the Commission approve this Stipulation and Agreement in its entirety; (2) that the Commission have its Report and Order reflect that the Company shall recognize and write off below-the-line, the utility plant acquisition adjustment of \$360,831 previously referred to in paragraph four (4) of this Stipulation and Agreement; and (3) that the Commission approve the reflected rates in Appendix A hereof.

Respectfully submitted,

Penny G. Baker by Michaelene A. Knudsen
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Michaelene A. Knudsen
Assistant General Counsel

Thomas H. Luckenbill
Assistant General Counsel

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CERTIFICATE OF SERVICE

I hereby certify that copies of the foregoing have been mailed or hand-delivered to all parties of record on this 25th day of July, 1991.

Michael D. Knucke

MISSOURI AMERICAN WATER
 WR-91-211
 ST. JOSEPH DISTRICT
 RATE DETERMINATION

25-Jul-91
 10:58 AM

Customer Billing: \$892,145 divided by 114,544 bills = 7.7887 Customer Billing

Customer Service: \$531,372 divided by 31,331 M.E.Q. divided by 12 1.4133 Base Meter Charge

MONTHLY MINIMUM

Meter Size	Flow Factor	Base Meter Charge	MONTHLY METER CHARGE	CUSTOMER BILLING	CUSTOMER CHARGE
5/8"	1.0000	1.4133	1.4133	7.7887	9.2020
3/4"	1.5000	1.4133	2.1200	7.7887	9.9087
1"	2.5000	1.4133	3.5333	7.7887	11.3220
1 1/2"	5.0000	1.4133	7.0666	7.7887	14.8553
2"	8.0000	1.4133	11.3066	7.7887	19.0953
3"	15.0000	1.4133	21.1999	7.7887	28.9886
4"	25.0000	1.4133	35.3332	7.7887	43.1219
6"	50.0000	1.4133	70.6664	7.7887	78.4551
8"	80.0000	1.4133	113.0663	7.7887	120.8550

QUARTERLY MINIMUM

Meter Size	Flow Factor	Base Meter Charge	QUARTERLY METER CHARGE	CUSTOMER BILLING	CUSTOMER CHARGE
5/8"	1.0000	1.4133	4.2400	7.7887	12.0287
3/4"	1.5000	1.4133	6.3600	7.7887	14.1486
1"	2.5000	1.4133	10.6000	7.7887	18.3886
1 1/2"	5.0000	1.4133	21.1999	7.7887	28.9886
2"	8.0000	1.4133	33.9199	7.7887	41.7086
3"	15.0000	1.4133	63.5998	7.7887	71.3885
4"	25.0000	1.4133	105.9996	7.7887	113.7883
6"	50.0000	1.4133	211.9993	7.7887	219.7880
8"	80.0000	1.4133	339.1989	7.7887	346.9875

Commodity Rates

Component #1 \$3,435,966 divided by 6,394,635 \$0.5373

Component #2 \$1,953,940 divided by 3,932,701 \$0.4968

	COMP #1	COMP #2	Total
2ND STEP RATE	\$0.5373		\$0.5373
1ST. STEP RATE	\$0.5373	\$0.4968	\$1.0342

USAGE PER CCF

FIRST 1000 CCF \$1.0342 PER 100 CCF

OVER 1000 CCF \$0.5373 PER 100 CCF

MISSOURI AMERICAN WATER.

WR-91-211

ST. JOSEPH DISTRICT

REVENUE ANALYSIS

25-Jul-91

10:59 AM

Meter Size	Annual Customers	Monthly	
		Proposed Rate	Proposed Revenue
5/8"	1,188	\$9.2000	\$10,930
3/4"	216	\$9.9100	\$2,141
1"	864	\$11.3200	\$9,780
1 1/2"	768	\$14.8600	\$11,412
2"	2,604	\$19.1000	\$49,736
3"	48	\$28.9900	\$1,392
4"	276	\$43.1200	\$11,901
6"	36	\$78.4600	\$2,825
8"	12	\$120.8600	\$1,450
	6,012		\$101,567

QUARTERLY			
Meter Size	Annual Customers	Proposed Rate	Proposed Revenue
5/8"	106,516	\$12.0300	\$1,281,387
3/4"	716	\$14.1500	\$10,131
1"	924	\$18.3900	\$16,992
1 1/2"	164	\$28.9900	\$4,754
2"	212	\$41.7100	\$8,843
3"	0	\$71.3900	\$0
4"	0	\$113.7900	\$0
6"	0	\$219.7900	\$0
	108,532		\$1,322,108

Commodity Revenue

Step#1	\$1.0342	3,932,701	\$4,067,199
Step#2	\$0.5373	2,461,934	\$1,322,797

Private Fire			\$144,592
Other Revenue			\$25,280
Actual Revenue			\$6,983,544
Proposed Revenue			\$6,983,296
		DIFF.	\$248

MISSOURI AMERICAN WATER.
 WR-91-211
 ST. JOSEPH DISTRICT
 REVENUE ANALYSIS

25-Jul-91
 10:54 AM

RESIDENTIAL
Monthly

Meter Size	Customer Billing	Proposed Rate	Proposed Revenue
5/8"	132	\$9.20	\$1,214
3/4"	0	\$9.91	\$0
1"	12	\$11.32	\$136
1 1/2"	0	\$14.86	\$0
2"	0	\$19.10	\$0
3"	0	\$28.99	\$0
4"	0	\$43.12	\$0
6"	0	\$78.46	\$0
	144	\$120.86	\$1,350

QUARTERLY

Meter Size	Customer Billing	Proposed Rate	Proposed Revenue
5/8"	96,352	\$12.03	\$1,159,115
3/4"	216	\$14.15	\$3,056
1"	116	\$18.39	\$2,133
1 1/2"	4	\$28.99	\$116
2"	20	\$41.71	\$834
3"	0	\$71.39	\$0
4"	0	\$113.79	\$0
6"	0	\$219.79	\$0
	96,708		\$1,165,254

Commodity Revenue

Monthly

	100 ccf	Rate	
1st Block	1,082	\$1.0342	\$1,119
2nd Block		\$0.5373	\$0

Quarterly

1st Block	2,182,718	\$1.0342	\$2,257,367
2nd Block		\$0.5373	\$0

Reconciling Item

Total

0	\$0
2,183,800	\$3,425,091

MISSOURI AMERICAN WATER.
 WR-91-211
 ST. JOSEPH DISTRICT
 REVENUE ANALYSIS

25-Jul-91
 10:44 AM

COMMERCIAL
Monthly

Meter Size	Customer Billing	Proposed Rate	Proposed Revenue
5/8"	788	\$9.20	\$7,176
3/4"	144	\$9.91	\$1,427
1"	492	\$11.32	\$5,569
1 1/2"	588	\$14.86	\$8,738
2"	1,032	\$19.10	\$19,711
3"	24	\$28.99	\$696
4"	0	\$43.12	\$0
6"	0	\$78.46	\$0
	<u>3,068</u>	<u>\$120.86</u>	<u>\$43,317</u>

QUARTERLY

Meter Size	Customer Billing	Proposed Rate	Proposed Revenue
5/8"	10,024	\$12.03	\$120,589
3/4"	456	\$14.15	\$6,452
1"	724	\$18.39	\$13,314
1 1/2"	124	\$28.99	\$3,595
2"	92	\$41.71	\$3,837
3"	0	\$71.39	\$0
4"	0	\$113.79	\$0
6"	0	\$219.79	\$0
	<u>11,420</u>		<u>\$147,788</u>

Commodity Revenue

Monthly	100 ccf	Rate	
1st Block	481,546	\$1.0342	\$498,015
2nd Block	121,215	\$0.5373	\$65,129
Quarterly			
1st Block	551,131	\$1.0342	\$569,988
2nd Block	8,393	\$0.5373	\$4,510
Reconciling Item	0		\$0
Total	<u>1,162,285</u>		<u>\$1,328,738</u>

MISSOURI AMERICAN WATER.
WR-91-211
JOSEPH DISTRICT
REVENUE ANALYSIS

25-Jul-91
10:49 AM

INDUSTRIAL
Monthly

Meter Size	Customer Billing	Proposed Rate	Proposed Revenue
5/8"	108	\$9.50	\$1,026
3/4"	24	\$9.91	\$238
1"	204	\$11.32	\$2,309
1 1/2"	84	\$14.86	\$1,248
2"	972	\$19.10	\$18,565
3"	24	\$28.99	\$696
4"	188	\$43.12	\$7,762
6"	12	\$78.46	\$942
	<u>1,608</u>	<u>\$120.86</u>	<u>\$32,785</u>

QUARTERLY

Meter Size	Customer Billing	Proposed Rate	Proposed Revenue
5/8"	48	\$12.03	\$481
3/4"	20	\$14.15	\$283
1"	32	\$18.39	\$588
1 1/2"	4	\$28.99	\$116
2"	4	\$41.71	\$167
3"	0	\$71.39	\$0
4"	0	\$113.79	\$0
6"	0	\$219.79	\$0
	<u>108</u>		<u>\$1,635</u>

Commodity Revenue

Monthly	100 ccf	Rate	
1st Block	373,135	\$1.0342	\$385,896
2nd Block	1,359,156	\$0.5373	\$730,275
Quarterly			
1st Block	28,136	\$1.0342	\$29,098
2nd Block	1,081	\$0.5373	\$581
Reconciling Item			
Total	<u>1,761,508</u>		<u>\$1,180,271</u>

MISSOURI AMERICAN WATER.
 WR-91-211
 ST. JOSEPH DISTRICT
 REVENUE ANALYSIS

25-Jul-91
 10:51 AM

OPA
Monthly

Meter Size	Customer Billing	Proposed Rate	Proposed Revenue
5/8"	168	\$9.20	\$1,546
3/4"	48	\$9.91	\$476
1"	156	\$11.32	\$1,766
1 1/2"	96	\$14.86	\$1,427
2"	324	\$19.10	\$6,188
3"		\$28.99	\$0
4"	60	\$43.12	\$2,587
6"		\$78.46	\$0
	852	\$120.86	\$13,989

QUARTERLY

Meter Size	Customer Billing	Proposed Rate	Proposed Revenue
5/8"	100	\$12.03	\$1,203
3/4"	24	\$14.15	\$340
1"	52	\$18.39	\$956
1 1/2"	32	\$28.99	\$928
2"	96	\$41.71	\$4,004
3"	0	\$71.39	\$0
4"	0	\$113.79	\$0
6"	0	\$219.79	\$0
	304		\$7,431

Commodity Revenue

Monthly	100 ccf	Rate	
1st Block	105,229	\$1.0342	\$108,828
2nd Block	77,143	\$0.5373	\$41,449
Quarterly			
1st Block	36,317	\$1.0342	\$37,559
2nd Block		\$0.5373	\$0
Reconciling Item			\$0
Total	218,689		\$209,256

MISSOURI AMERICAN WATER.
 WR-91-211
 ST. JOSEPH DISTRICT
 REVENUE ANALYSIS

25-Jul-91
 10:57 AM

SALE FOR RESALE
Monthly

Meter Size	Customer Billing	Proposed Rate	Proposed Revenue
5/8"	0	\$9.20	\$0
3/4"	0	\$9.91	\$0
1"	0	\$11.32	\$0
1 1/2"	0	\$14.86	\$0
2"	276	\$19.10	\$5,272
3"	0	\$28.99	\$0
4"	36	\$43.12	\$1,552
6"	24	\$78.46	\$1,883
8"	12	\$120.86	\$1,450
	348		\$10,157

QUARTERLY

Meter Size	Customer Billing	Proposed Rate	Proposed Revenue
5/8"	0	\$12.03	\$0
3/4"	0	\$14.15	\$0
1"	0	\$18.39	\$0
1 1/2"	0	\$28.99	\$0
2"	0	\$41.71	\$0
3"	0	\$71.39	\$0
4"	0	\$113.79	\$0
6"	0	\$219.79	\$0
	0		\$0

Commodity Revenue

Monthly	100 ccf	Rate	
1st Block	148,477	\$1.0342	\$153,555
2nd Block	909,854	\$0.5373	\$488,435
Quarterly			
1st Block		\$1.0342	\$0
2nd Block		\$0.5373	\$0

Reconciling Item

Total	1,057,531	\$652,147
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23-Jul-91
02:46 PM

MISSOURI AMREICAN WATER CO.
JOPLIN DIST.
WR-91-211
RESIDENTIAL BILL COMPARISION
^5/8. IN. METER
USAGE IN 100
QUARTERLY RATE

Usage	Current Rate	Proposed Rate	Difference	Percentage
0.00	11.11	16.55	5.44	48.9649%
6.00	17.33	22.62	5.29	30.5455%
9.00	20.44	25.66	5.22	25.5397%
12.00	23.55	28.70	5.15	21.8561%
15.00	26.66	31.73	5.07	19.0319%
18.00	29.77	34.77	5.00	16.7978%
21.00	32.88	37.81	4.93	14.9863%
24.00	35.99	40.85	4.85	13.4879%
27.00	39.10	43.88	4.78	12.2279%
30.00	42.21	46.92	4.71	11.1535%
33.00	45.32	49.96	4.63	10.2266%
36.00	48.43	52.99	4.56	9.4187%
39.00	51.54	56.03	4.49	8.7084%
42.00	54.65	59.07	4.42	8.0788%
45.00	57.76	62.10	4.34	7.5171%

23-Jul-91
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2" METER

MISSOURI AMERICAN WATER CO
WR-91-211
Joplin Dist.
Large Users
Usage In CCF
Monthly Bill

Usage	Current Rate	Proposed Rate	Difference	Percentage
1000.00	858.43	1,043.38	184.95	21.5451%
2000.00	1,389.43	1,569.28	179.85	12.9442%
3000.00	1,920.43	2,095.18	174.75	9.0995%
5000.00	2,982.43	3,146.98	164.55	5.5173%
8000.00	4,575.43	4,724.68	149.25	3.2620%
10000.00	5,637.43	5,776.48	139.05	2.4665%
20000.00	10,947.43	11,035.48	88.05	0.8043%
40000.00	21,567.43	21,553.48	(13.95)	-0.0647%
45000.00	24,222.43	24,182.98	(39.45)	-0.1629%
50000.00	26,877.43	26,812.48	(64.95)	-0.2417%
55000.00	29,532.43	29,441.98	(90.45)	-0.3063%
60000.00	32,187.43	32,071.48	(115.95)	-0.3602%
65000.00	34,842.43	34,700.98	(141.45)	-0.4060%
70000.00	37,497.43	37,330.48	(166.95)	-0.4452%
75000.00	40,152.43	39,959.98	(192.45)	-0.4793%

MISSOURI AMERICAN WATER COMPANY
WR-91-211
St. Joseph District
Private Fire Charges

<u>PRESENT CHARGE</u>	<u>PROPOSED CHARGES</u>	<u>DOLLAR INCREASE</u>	<u>% INCREASE</u>
2" \$ 42.96	\$ 46.51	\$ 3.55	8.26%
3" \$ 96.60	\$ 104.50	\$ 11.45	8.33%
4" \$ 171.60	\$ 186.03	\$ 25.88	8.41%
6" \$ 386.16	\$ 418.57	\$ 32.41	8.39%
8" \$ 686.52	\$ 744.12	\$ 57.60	8.39%
10" \$1,072.68	\$1,162.69	\$ 90.01	8.39%
12" \$1,544.76	\$1,674.27	\$129.51	8.39%

PRIVATE FIRE HYDRANTS

\$386.16	\$418.57	8.39%
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MISSOURI AMERICAN WATER
 WA-91-211
 JOPLIN DISTRICT
 RATE DETERMINATION

25-Jul-91
 11:01 AM

Customer Billing: \$587,676 divided by 75,000 bills = 7.8273 Customer Billing

Customer Service: \$758,402 divided by 21,740 M.E.D. divided by 12 2.9071 Base Meter Charge

MONTHLY MINIMUM

Meter Size	Flow Factor	Base Meter Charge	MONTHLY METER CHARGE	CUSTOMER BILLING	CUSTOMER CHARGE
5/8"	1.0000	2.9071	2.9071	7.8273	10.7344
3/4"	1.5000	2.9071	4.3606	7.8273	12.1880
1"	2.5000	2.9071	7.2677	7.8273	15.0951
1 1/2"	5.0000	2.9071	14.5355	7.8273	22.3628
2"	8.0000	2.9071	23.2567	7.8273	31.0841
3"	15.0000	2.9071	43.6064	7.8273	51.4337
4"	25.0000	2.9071	72.6773	7.8273	80.5046
6"	50.0000	2.9071	145.3546	7.8273	153.1819
8"	80.0000	2.9071	232.5673	7.8273	240.3946

QUARTERLY MINIMUM

Meter Size	Flow Factor	Base Meter Charge	QUARTERLY METER CHARGE	CUSTOMER BILLING	CUSTOMER CHARGE
5/8"	1.0000	2.9071	8.7213	7.8273	16.5486
3/4"	1.5000	2.9071	13.0819	7.8273	20.9092
1"	2.5000	2.9071	21.8032	7.8273	29.6305
1 1/2"	5.0000	2.9071	43.6064	7.8273	51.4337
2"	8.0000	2.9071	69.7702	7.8273	77.5975
3"	15.0000	2.9071	130.8191	7.8273	138.6464
4"	25.0000	2.9071	218.0319	7.8273	225.8592
6"	50.0000	2.9071	436.0637	7.8273	443.8910
8"	80.0000	2.9071	697.7019	7.8273	705.5293

Commodity Rates

Component #1 \$1,945,814 divided by 3,699,707 \$0.5259

Component #2 \$1,334,672 divided by 2,744,443 \$0.4863

	COMP #1	COMP #2	Total
2ND STEP RATE	\$0.5259		\$0.5259
1ST. STEP RATE	\$0.5259	\$0.4863	\$1.0123

USAGE PER CCF

FIRST 1000 CCF \$1.0123 PER 100 CCF
 OVER 1000 CCF \$0.5259 PER 100 CCF

MISSOURI AMERICAN WATER.

WR-91-211

JOPLIN DISTRICT
REVENUE ANALYSIS

25-Jul-91

11:04 AM

Monthly

Meter Size	Annual Customers	Proposed Rate	Proposed Revenue
5/8"	2,120	\$10.7300	\$22,748
3/4"	258	\$12.1900	\$3,145
1"	1,554	\$15.1000	\$23,465
1 1/2"	559	\$22.3600	\$12,499
2"	2,177	\$31.0800	\$67,661
3"	0	\$51.4300	\$0
4"	168	\$80.5000	\$13,524
6"	48	\$153.1000	\$7,353
8"	24	\$240.3900	\$5,769
	6,908		\$156,164

QUARTERLY

Meter Size	Annual Customers	Proposed Rate	Proposed Revenue
5/8"	64,072	\$16.5500	\$1,060,392
3/4"	320	\$20.9100	\$6,691
1"	3,523	\$29.6300	\$104,386
1 1/2"	55	\$51.4300	\$2,829
2"	202	\$77.6000	\$15,675
3"	0	\$138.6500	\$0
4"	0	\$225.8600	\$0
6"	0	\$443.8900	\$0
	68,172		\$1,189,973

Commodity Revenue

Step' #1	\$1.0123	2,744,443	\$2,778,200
Step' #2	\$0.5259	953,264	\$502,373

Private Fire \$76,142

Other Revenue \$10,291

Actual Revenue \$4,713,144

Proposed Revenue \$4,712,999

DIFF. \$145

MISSOURI AMERICAN WATER.
 WR-91-211
 JOPLIN DISTRICT
 REVENUE ANALYSIS

25-Jul-91
 11:09 AM

RESIDENTIAL
Monthly

Meter Size	Customer Billing	Proposed Rate	Proposed Revenue
5/8"	0	\$10.73	\$0
3/4"	0	\$12.19	\$0
1"	0	\$15.10	\$0
1 1/2"	0	\$22.36	\$0
2"	0	\$31.00	\$0
3"	0	\$51.43	\$0
4"	0	\$80.50	\$0
6"	0	\$153.18	\$0
	0		\$0

QUARTERLY

Meter Size	Customer Billing	Proposed Rate	Proposed Revenue
5/8"	57,563	\$16.55	\$952,661
3/4"	147	\$20.91	\$3,071
1"	2,666	\$29.63	\$78,991
1 1/2"	4	\$51.43	\$206
2"	43	\$77.60	\$3,337
3"	0	\$138.64	\$0
4"	0	\$225.86	\$0
6"	0	\$443.89	\$0
	60,423		\$1,038,276

Commodity Revenue

Monthly	100 ccf	Rate	
1st Block		\$1.0123	\$0
2nd Block		\$0.5259	\$0
Quarterly			
1st Block	1,520,410	\$1.0123	\$1,539,111
2nd Block		\$0.5259	\$0
Reconciling Item	0		\$0
Total	1,520,410		\$2,577,381

MISSOURI AMERICAN WATER.
 WR-91-211
 JOPLIN DISTRICT
 REVENUE ANALYSIS

25-Jul-91
 11:03 AM

COMMERCIAL
Monthly

Meter Size	Customer Billing	Proposed Rate	Proposed Revenue
5/8"	1,916	\$10.73	\$20,559
3/4"	246	\$12.19	\$2,999
1"	1,266	\$15.10	\$19,117
1 1/2"	403	\$22.36	\$9,011
2"	1,277	\$31.08	\$39,689
3"	0	\$51.43	\$0
4"	0	\$80.50	\$0
6"	0	\$153.18	\$0
8"	0		\$0
	<u>5,108</u>		<u>\$91,374</u>

QUARTERLY

Meter Size	Customer Billing	Proposed Rate	Proposed Revenue
5/8"	6,369	\$16.55	\$105,407
3/4"	125	\$20.91	\$2,614
1"	833	\$29.63	\$24,682
1 1/2"	43	\$51.43	\$2,211
2"	115	\$77.60	\$8,924
3"	0	\$138.65	\$0
4"	0	\$225.86	\$0
6"	0	\$443.89	\$0
	<u>7,485</u>		<u>\$143,838</u>

Commodity Revenue

Monthly	100 ccf	Rate	
1st Block	555,933	\$1.0123	\$562,771
2nd Block	187,989	\$0.5259	\$98,863
Quarterly			
1st Block	383,560	\$1.0123	\$387,294
2nd Block		\$0.5259	\$0
Reconciling Item	0		\$0
Total	<u>1,047,482</u>		<u>\$1,284,140</u>

MISSOURI AMERICAN WATER.
 WR-91-211
 JOPLIN DISTRICT
 REVENUE ANALYSIS

25-Jul-91
 11:06 AM

INDUSTRIAL
Monthly

Meter Size	Customer Billing	Proposed Rate	Proposed Revenue
5/8"	84	\$10.73	\$901
3/4"	8	\$12.19	\$0
1"	132	\$15.10	\$1,993
1 1/2"	48	\$22.36	\$1,073
2"	360	\$31.00	\$11,189
3"	8	\$51.43	\$0
4"	132	\$80.50	\$10,626
6"	48	\$153.18	\$7,353
	<u>804</u>		<u>\$33,135</u>

QUARTERLY

Meter Size	Customer Billing	Proposed Rate	Proposed Revenue
5/8"	12	\$16.55	\$199
3/4"	8	\$20.91	\$167
1"	0	\$29.63	\$0
1 1/2"	0	\$51.43	\$0
2"	0	\$77.60	\$0
3"	0	\$138.65	\$0
4"	0	\$225.86	\$0
6"	0	\$443.89	\$0
	<u>20</u>		<u>\$366</u>

Commodity Revenue

Monthly	100 ccf	Rate	
1st Block	214,040	\$1.0123	\$216,673
2nd Block	572,003	\$0.5259	\$300,816
Quarterly			
1st Block	457	\$1.0123	\$463
2nd Block		\$0.5259	\$0
Reconciling Item	0		\$0
Total	786,500		\$551,453

MISSOURI AMERICAN WATER.
 WR-91-211
 JOPLIN DISTRICT
 REVENUE ANALYSIS

25-Jul-91
 11:07 AM

OPA
Monthly

Meter Size	Customer Billing	Proposed Rate	Proposed Revenue
5/8"	120	\$10.73	\$1,288
3/4"	12	\$12.19	\$146
1"	156	\$15.10	\$2,356
1 1/2"	100	\$22.36	\$2,415
2"	384	\$31.00	\$11,935
3"	0	\$51.43	\$0
4"	36	\$80.50	\$2,898
6"	0	\$153.18	\$0
8"	24	\$240.39	\$5,769
	<u>840</u>		<u>\$26,806</u>

QUARTERLY

Meter Size	Customer Billing	Proposed Rate	Proposed Revenue
5/8"	120	\$16.55	\$2,118
3/4"	40	\$20.91	\$836
1"	24	\$29.63	\$711
1 1/2"	8	\$51.43	\$411
2"	44	\$77.60	\$3,414
3"	0	\$138.65	\$0
4"	0	\$225.86	\$0
6"	0	\$443.89	\$0
	<u>244</u>		<u>\$7,492</u>

Commodity Revenue

Monthly	100 ccf	Rate	
1st Block	98,833	\$1.0123	\$100,049
2nd Block	11,533	\$0.5259	\$6,065
Quarterly			
1st Block	4,743	\$1.0123	\$4,801
2nd Block		\$0.5259	\$0
Reconciling Item	0		\$0
Total	<u>115,109</u>		<u>\$145,213</u>

MISSOURI AMERICAN WATER.
WR-91-211
JOPLIN DISTRICT
REVENUE ANALYSIS

25-Jul-91
11:11 AM

SALE FOR RESALE
Monthly

Meter Size	Customer Billing	Proposed Rate	Proposed Revenue
5/8"	0	\$10.73	\$0
3/4"	0	\$12.19	\$0
1"	0	\$15.10	\$0
1 1/2"	0	\$22.36	\$0
2"	156	\$31.00	\$4,848
3"	0	\$51.43	\$0
4"	0	\$80.50	\$0
6"	0	\$153.18	\$0
8"	0	\$240.39	\$0
	156		\$4,848

QUARTERLY

Meter Size	Customer Billing	Proposed Rate	Proposed Revenue
5/8"	0	\$16.55	\$0
3/4"	0	\$20.91	\$0
1"	0	\$29.63	\$0
1 1/2"	0	\$51.43	\$0
2"	0	\$77.60	\$0
3"	0	\$138.65	\$0
4"	0	\$225.86	\$0
6"	0	\$443.89	\$0
	0		\$0

Commodity Revenue

Monthly	100 ccf	Rate	
1st Block	48,195	\$1.0123	\$48,788
2nd Block	180,107	\$0.5259	\$94,718
Quarterly			
1st Block		\$1.0123	\$0
2nd Block		\$0.5259	\$0
Reconciling Item	0		\$0
Total	228,302		\$148,355

23-Jul-91
04:10 PM

MISSOURI AMERICAN WATER CO.
ST. JOSEPH DIST.
WR-91-211
RESIDENTIAL BILL COMPARISON
5/8. IN. METER
USAGE IN 100 CUBIC FEET
QUARTERLY RATE

Usage	Current Rate	Proposed Rate	Difference	Percentage
0.00	10.07	12.03	1.96	19.4638%
6.00	16.35	18.24	1.89	11.5289%
9.00	19.49	21.34	1.85	9.4791%
12.00	22.63	24.44	1.81	7.9981%
15.00	25.77	27.54	1.77	6.8780%
18.00	28.91	30.65	1.74	6.0013%
21.00	32.05	33.75	1.70	5.2963%
24.00	35.19	36.85	1.66	4.7171%
27.00	38.33	39.95	1.62	4.2329%
30.00	41.47	43.06	1.59	3.8219%
33.00	44.61	46.16	1.55	3.4689%
36.00	47.75	49.26	1.51	3.1622%
39.00	50.89	52.36	1.47	2.8934%
42.00	54.03	55.47	1.44	2.6559%
45.00	57.17	58.57	1.40	2.4444%

23-Jul-91
04:12 PM

2" METER

MISSOURI AMERICAN WATER CO
WR-91-211
ST. Joseph Dist.
Large Users
Usage In CCF
Monthly Bill

Usage	Current Rate	Proposed Rate	Difference	Percentage
=====	=====	=====	=====	=====
1000.00	1,066.41	1,053.30	(13.11)	-1.2294%
2000.00	1,614.41	1,590.60	(23.81)	-1.4748%
3000.00	2,162.41	2,127.90	(34.51)	-1.5959%
5000.00	3,258.41	3,202.50	(55.91)	-1.7159%
8000.00	4,902.41	4,814.40	(88.01)	-1.7952%
10000.00	5,998.41	5,889.00	(109.41)	-1.8240%
20000.00	11,478.41	11,262.00	(216.41)	-1.8854%
40000.00	22,438.41	22,008.00	(430.41)	-1.9182%
45000.00	25,178.41	24,694.50	(483.91)	-1.9219%
50000.00	27,918.41	27,381.00	(537.41)	-1.9249%
55000.00	30,658.41	30,067.50	(590.91)	-1.9274%
60000.00	33,398.41	32,754.00	(644.41)	-1.9295%
65000.00	36,138.41	35,440.50	(697.91)	-1.9312%
70000.00	38,878.41	38,127.00	(751.41)	-1.9327%
75000.00	41,618.41	40,813.50	(804.91)	-1.9340%

MISSOURI AMERICAN WATER COMPANY
WR-91-211
Joplin District
Private Fire Charges

<u>PRESENT CHARGE</u>	<u>PROPOSED CHARGES</u>	<u>DOLLAR INCREASE</u>	<u>% INCREASE</u>
2" \$ 26.64	\$ 36.51	\$ 9.87	37.06%
4" \$ 106.32	\$ 136.03	\$ 29.71	27.94%
6" \$ 239.28	\$ 305.78	\$ 66.50	27.79%
8" \$ 425.28	\$ 543.77	\$118.49	27.86%
10" \$ 664.56	\$ 851.98	\$187.42	28.20%
12" \$ 956.88	\$1,225.22	\$268.34	28.04%

PRIVATE FIRE HYDRANTS

\$ 305.78	\$ 386.16	\$ 80.38	20.81%
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