

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

In the matter of the application of Missouri Cities
Water Company of St. Charles, Missouri, for authority
to file tariffs designed to increase rates for water
service to customers in the Missouri service area of
the company.

Case No. WR-89-178

RECEIVED

OCT 5 1989

In the matter of Missouri Cities Water Company of
St. Charles, Missouri, for authority to file tariffs
designed to increase sewer rates for customers in
certificated areas of Platte County, Missouri.

COMMISSION COUNSEL
Case No. SR-89-179
PUBLIC SERVICE COMMISSION

APPEARANCES: Byron E. Francis, Armstrong, Teasdale, Schlafly, Davis & Dicus,
One Metropolitan Square, St. Louis, Missouri 63102, for Missouri
Cities Water Company.

Richard S. Brownlee, III, Hendren and Andrae, 235 East High Street,
Jefferson City, Missouri 65102,
and

Jack Lukehart, Attorney at Law, 211 East Broadway, Brunswick, Missouri
65236, for the City of Brunswick, Missouri.

Carl J. Lumley, Curtis, Bamburg, Oetting, Brackman & Crossen, P.C.,
130 South Bemiston, Suite 200, Clayton, Missouri 63105, for the City
of Warrensburg, Missouri.

Janet L. Sievert, Assistant Public Counsel, Office of Public Counsel,
Post Office Box 7800, Jefferson City, Missouri 65102, for the Office
of Public Counsel and the public.

William K. Haas, Assistant General Counsel, and Robert J. Hack,
Assistant General Counsel, Missouri Public Service Commission, Post
Office Box 360, Jefferson City, Missouri 65102, for the Staff of the
Missouri Public Service Commission.

HEARING

EXAMINER: Alisa M. Dotson.

REPORT AND ORDER

On March 15, 1989, the Missouri Cities Water Company (Company) of
St. Charles, Missouri, filed with the Missouri Public Service Commission (Commission)
tariffs designed to increase its annual water and sewer revenues by \$1,103,583. On
April 12, 1989, the Commission issued its Suspension Order And Notice Of Proceedings.

On June 9, 1989, the Commission granted the applications to intervene filed by the cities of Brunswick, Missouri, and Warrensburg, Missouri.

On August 22, 1989, a local hearing was held in Brunswick, Missouri. The prehearing conference began as scheduled on September 5, 1989. The conference, which was scheduled until September 8th, adjourned on September 6, 1989. The Commission granted a Motion To Amend Schedule Of Proceedings and reconvened the prehearing on September 13, 1989. The hearing began on September 18, 1989 and Company offered a Stipulation And Agreement, which is attached hereto as Attachment A.

Findings of Fact

The Missouri Public Service Commission, having considered all of the competent and substantial evidence upon the whole record, makes the following findings of fact.

Company is a public utility company engaged in water and sewer service to the public in its certificated areas in Missouri. Company filed tariffs designed to produce an increase of approximately \$1,103,583 (16.14 percent) in charges for water and sewer service as follows:

	<u>Increase</u>	<u>Percent</u>
Brunswick	\$ 71,186.00	33.69
Mexico	349,778.00	33.42
Platte County (W)*	169,497.00	18.17
Platte County (S)*	6,350.00	21.49
Warrensburg	251,547.00	31.62
St. Charles (W)*	<u>255,225.00</u>	6.67
	\$1,103,583.00	

*W = water

*S = sewer

Company also proposed a system of uniform rates in which the capital improvements of each division would be distributed throughout all of Company's service areas.

Staff, Public Counsel and the intervenors proposed a different set of rates than Company. Staff opposed a system of uniform rates. Public Counsel proposed a

compromise rate design. The City of Brunswick supported Company's rate design as proposed.

During the prehearing conference, the parties reached a Stipulation And Agreement proposing resolution to issues such as rate increase, rate design, maintenance accrual and depreciation rates. The Stipulation And Agreement is attached to this Report And Order as Attachment A. The Commission has reviewed the Stipulation And Agreement and finds it reasonable.

At the local hearing in Brunswick, several concerns were raised that the Commission wishes to address. Several witnesses complained of poor water quality: dirty water that makes getting laundry clean difficult, a high alkaline content, poor taste and discoloration. However, the problems testified to went beyond inconvenience and nuisance to a potential safety hazard. Two witnesses testified to problems with the water that interfere with fire lines and fire mains.

Ron Tate, a Brunswick resident and customer of the Company, testified that fire equipment did not operate properly because of the amount of material that comes through the lines. He further testified that he had been at two or three fires where all of the nozzles on a truck would stop up because of the rocks and gravel in the system. Another witness, David Daniel, testified to water pressure problems. Mr. Daniel testified that the fire mains on the hill have no water pressure at all.

While the Commission appreciates that much of the difficulty is not the operation of the system but the physical age of the system itself, it also recognizes that such a situation, uncorrected, poses a potential danger to people and property. Therefore, the Commission has determined that the Company shall file plans for a replacement program for its distribution system and customer service lines in Brunswick, Missouri, as agreed to in the Stipulation And Agreement, with the Commission within 180 days following the effective date of this Report And Order.

Conclusions of Law

The Missouri Public Service Commission has arrived at the following conclusions.

The Company is a public utility subject to the jurisdiction of this Commission as provided in Chapters 386 and 393, R.S.Mo. 1986. The tariffs which are the subject matter of this proceeding were suspended pursuant to authority vested in this Commission in Section 393.150, R.S.Mo. 1986. The burden of proof to show that the proposed increased rates are just and reasonable shall be upon the Company. The Commission, after 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 purposes 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 in annual gross operating revenues provided for in paragraph 2 of the Stipulation And Agreement is just and reasonable, as are the proposed rates and rate design features and changes set out in Appendix A of said Stipulation And Agreement.

The Commission concludes that the revised tariffs herein suspended should be disallowed and that, in lieu thereof, Company should submit for Commission approval tariffs designed to implement the Stipulation And Agreement. The Commission further concludes that because the age and condition of the distribution system is

affecting fire mains and fire lines in the City of Brunswick, the Company will be required to submit a replacement plan as discussed herein.

It is, therefore,

ORDERED: 1. That the Missouri Public Service Commission adopts the Stipulation And Agreement filed herein on September 18, 1989.

ORDERED: 2. That the revised tariffs filed March 15, 1989, and suspended herein be, and they are, hereby disallowed, and Missouri Cities Water Company is authorized to file in lieu thereof, for approval of this Commission, revised tariffs designed to increase the Company's gross annual operating revenues by \$900,000 (exclusive of gross receipts and franchise taxes).

ORDERED: 3. That the tariffs filed shall embody the rate design features set out in Appendix A of the Stipulation And Agreement attached to this Report And Order.

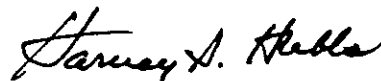
ORDERED: 4. That the tariffs filed pursuant to the authority contained herein shall be effective, upon approval by the Commission, for service rendered on and after October 15, 1989.

ORDERED: 5. That Missouri Cities Water Company file plans for a replacement program for its distribution system and customer service lines in the City of Brunswick, Missouri, as agreed to in the Stipulation And Agreement, within one hundred eighty (180) days of the effective date of this Report And Order.

ORDERED: 6. That this Report And Order shall become effective on the 15th day of October, 1989.

BY THE COMMISSION

(S E A L)



Harvey G. Hubbs
Secretary

Steinmeier, Chm., Mueller,
Fischer and Rauch, CC., Concur.

Dated at Jefferson City, Missouri,
on this 4th day of October, 1989.

BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI

In the matter of the Application)
of Missouri Cities Water Company)
of St. Charles, Missouri, for)
authority to file tariffs designed) Case No. WR-89-178
to increase rates for water service)
to customers in the Missouri)
service area of the company.)

In the matter of Missouri Cities)
Water Company of St. Charles,)
Missouri, for authority to file)
tariffs designed to increase) Case No. SR-89-179
sewer rates for customers in)
certificated areas of Platte)
County, Missouri.)

STIPULATION AND AGREEMENT

On March 15, 1989, Missouri Cities Water Company (Company) filed with the Missouri Public Service Commission (Commission) tariffs designed to increase its annual water and sewer revenues by \$1,103,583.

On April 12, 1989, the Commission issued its Suspension Order and Notice of Proceedings. On June 9, 1989, the Commission granted the Applications to Intervene filed on behalf of the Cities of Brunswick, Missouri and Warrensburg, Missouri.

On May 22, 1989, the Company filed its prepared direct testimony and minimum filing requirements. On August 18, 1989, the Staff of the Commission (Staff), the Office of Public Counsel (Public Counsel) and the City of Brunswick each filed prepared direct testimony. On August 22, 1989, a local hearing was held in Brunswick, Missouri. On August 31, 1989, Company, Staff, Public Counsel and the City of Brunswick each filed prepared rebuttal testimony.

A prehearing conference commenced on September 5, 1989, at which time representatives of all the parties appeared and participated to the extent each desired. As a result of the prehearing conference, Company, Staff, Public Counsel, and the Cities of Brunswick, Missouri and Warrensburg, Missouri, have reached an agreement, subject to the Commission's approval of this Stipulation and Agreement, that these cases shall be resolved as follows:

Exhibit No. 1
9/18/89 Case No. WR-89-178
Reporter 11A SR-89-179

1. That Company be authorized to file revised water and sewer tariffs designed to increase Company's Missouri jurisdictional gross annual revenues by \$900,000; that the increase in said annual revenues is exclusive of any applicable franchise and gross receipts taxes; and that said tariffs shall become effective as soon as possible, but in any event for service rendered on and after October 15, 1989.

2. That the Commission shall authorize Company to file tariffs designed to increase its gross annual revenues by division, exclusive of applicable franchise and gross receipts taxes, as follows:

Mexico	\$315,749
Platte County (Water)	\$169,497
Platte County (Sewer)	\$6,350
Warrensburg	\$251,547
St. Charles	\$156,857

3. All parties except Public Counsel agree that the rates to be charged in each division shall be calculated in accordance with the stipulated rate design attached hereto as Appendix A. Public Counsel agrees to the rates shown in Appendix A, but not necessarily to the calculation methods.

4. That the Commission shall prescribe revised depreciation rates for Company's water properties as set forth in Schedule 1 to the prefiled direct testimony of Staff Witness Love, and attached hereto as Appendix B; and that said revised depreciation rates shall become effective concurrently with Company's revised water tariffs.

5. That this Stipulation and Agreement represents a negotiated dollar settlement for the sole purpose of disposing of the captioned cases 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 except as provided in paragraph 6, or in this proceeding in the event the Commission does not approve this Stipulation and Agreement in its entirety.

6. That the Company shall modify its books and records in the following respect:

- A. The Company shall identify and eliminate all unused maintenance accrual balances which will remain unutilized on its books, which amount as identified by Company is \$147,131.
- B. That the Company proposed \$147,131 of unused maintenance accrual balance be amortized over a three-year period.
- C. Company and Public Counsel agree if a rate change is granted within the next three years, that rate base will be reduced by the remainder of the unamortized maintenance accrual balance.

7. For the sole purpose of calculating the Tax Impact of taxable Advances or Contributions in Aid of Construction under Company's Rule 18, Extension of Company Facilities, Company's allowed Rate of Return on original cost rate base is stipulated to be 11.23%.

8. Company, Staff and Public Counsel recognize that the recurring water quality problem in Brunswick is due, at least in part, to the age of the distribution system and the age and quality of the customer service lines. Company has, therefore, developed an information campaign for its Brunswick customers.

The Company shall take a two-pronged approach to address the quality of water in Company's Brunswick division:

- A. The Company shall make further attempts to investigate the complaints regarding discolored water, as well as complaints regarding sand and rock in the water. Copies of a written report on the findings of this investigation will be provided to Public Counsel and Staff in a timely manner.
- B. Company shall include in its, soon to be undertaken, information campaign in Brunswick complete information regarding the historical causes of poor quality water, the steps Company has taken in the past five years to alleviate the problems, and an estimate of the costs which would have to be incurred in order to replace the entire Brunswick distribution system. Such cost

estimate need not be based on a highly detailed engineering study of the Brunswick system, but can instead be based on generic cost figures adjusted to account for the most important specific features of the Brunswick division's system. A range of cost estimates is permissible so long as the range is not so large as to make the estimates meaningless. Rate impacts associated with upper and lower ends of the cost estimate range should be calculated in both dollars per customer per month and percentage increase over current rates. Office of the Public Counsel, Staff and Company shall mutually agree to the material provided for in this paragraph prior to distribution to Brunswick customers.

9. That none of the signatories to this Stipulation and Agreement shall be deemed to have approved or acquiesced in any ratemaking principle or any method of cost determination or cost allocation or rate design proposal underlying or allegedly underlying this Stipulation and Agreement and the revised rate design schedules and the revised depreciation rates provided for herein.

10. That the prefiled testimony, schedules and minimum filing requirements sponsored by Company witnesses Lynn Bultman, Keith R. Cardey, John E. Eckart, James L. Cutshaw, and Shari N. Miller; Staff witnesses Melvin T. Love, Jay W. Moore, Mehdi Nazeri, James A. Merciel, Jr., Wess A. Henderson, Doris L. Cattey, Doyle L. Gibbs, John J. White, and Kelly J. Riley; Public Counsel witnesses John S. Riley and Philip B. Thompson; and City of Brunswick witness Ray G. Stark shall be received into evidence without the necessity of said witnesses taking the witness stand.

11. That in the event the Commission accepts the specific terms of this Stipulation and Agreement, the signatories waive their respective rights to cross-examine the individuals named in the foregoing paragraph with respect to their prefiled testimonies and schedules; their respective rights to present oral argument and written briefs pursuant to Section 536.080.1 RSMo 1986; their

respective rights pertaining to the reading of the transcript by the Commission pursuant to Section 536.080.2 RSMo 1986; and their respective rights to judicial review pursuant to Section 386.510 RSMo 1986.

12. That the Staff shall have the right to submit to the Commission, in memorandum form, an explanation of its rationale for entering into the stipulations contained in this document, and to provide to the Commission whatever explanation the Commission requests. Staff's memorandum or explanation shall not become a 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. It is understood by the parties hereto that any rationales advanced by the Staff in such a memorandum are its own and are not acquiesced in or otherwise adopted by such other parties.

13. That this Stipulation and Agreement has resulted from extensive negotiations among the signatories and the terms hereof are interdependent; that in the event the Commission does not approve and adopt this Stipulation and Agreement in total, or in the event the revised tariffs and depreciation rates agreed to herein do not become effective in accordance with the provisions contained herein, the Stipulation and Agreement shall be void and no signatory shall be bound by any of the agreements or provisions hereof.

Respectfully submitted,


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APPENDIX A
MISSOURI CITIES WATER COMPANY

MO. CITIES WATER
MR-89-178
MEXICO DIV.

WHITE-SCHEDULE
MAY-1
STIMULATED
DEPRECIATION

14-Sep-89
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ACCOUNT NUMBER	ACCOUNT TITLE	PLANT BALANCE	* TAXES & RETURN	TAXES & RETURN	WHITE-SCHEDULE MAY-1 STIMULATED DEPRECIATION	TOTAL PLANT	CUSTOMER BILLING	METER CHARGE	COMPONENT NO. 1	COMPONENT NO. 2	RESIDUAL
302	FRANCHISE & CONSENTS	767	0.0147%	79	0	79					79
SA302	SPECIAL AREA	0	0.0000%	0	0	0					
310	LAND & LAND RIGHTS	25516	0.4897%	2632		2632			2632		
311	STRUCTURES	33000	0.6334%	3404	1139	4543			4543		
312	IMPOUNDING RESERVOIRS	183	0.00%	19	6	25			25		
314	WELLS	382609	7.3432%	39472	6838	46310			46310		
316	SUPPLY MAINS	151110	2.9062%	15589	3324	18913			18913		
320	LAND & LAND RIGHTS	0	0.0000%	0		0					
321	STRUCTURES	54019	1.0368%	5573	1350	6923			6923		
325	PUMPING EQUIPMENT	452533	8.6853%	46686	27152	73838			73838		
328	OTHER PUMPING	0	0.0000%	0	0	0					
330	LAND & LAND RIGHTS	13920	0.2672%	1436		1436			1436		
331	STRUCTURES	151712	2.9117%	15651	6068	21719			21719		
332	TREATING EQUIPMENT	365451	7.0139%	37702	14472	52174			52174		
340	LAND & LAND RIGHTS	11266	0.2162%	1162		1162				1162	
341	STRUCTURES	0	0.0000%	0	0	0					
342	RESERVOIRS & STAMPPIES	280068	5.3752%	28893	3949	32842				32842	
343	MAINS	2129671	40.8738%	219708	27408	247116			74135	172981	
344	FIRE MAINS	14919	0.2863%	1539	218	1757				1757	
345	SERVICES	374872	7.1947%	38674	11134	49808		49808			
346	METERS	212855	4.0852%	21959	16220	38179		38179			
347	METER INSTALLATIONS	195479	3.7517%	20167	5806	25973		25973			
348	HYDRANTS	193087	3.6866%	19817	4860	24677			24677		
349	OTHER	10336	0.1984%	1066	304	1370				1370	
345	SERVICES SPECIAL	0	0.0000%	0	0	0					
347	METER INSTALLATIONS	0	0.0000%	0	0	0					
348	HYDRANTS SPECIAL	0	0.0000%	0	0	0					
389	LAND & LAND RIGHTS	2057	0.0395%	212		212					212
390	STRUCTURES LEASE HOLD	63397	1.2167%	6540	1487	8027					8027
391	OFFICE FURNITURE	36332	0.6973%	3748	2205	5953					5953
392	TRANSPORTATION	10333	0.1983%	1066	1383	2449					2449
393	STORES	888	0.0170%	92	36	128					128
394	TOOLS	12454	0.2390%	1285	527	1812			1812		
395	LAB EQUIPMENT	12463	0.2392%	1286	890	2176			2176		
396	POWER EQUIPMENT	12106	0.2323%	1249	484	1733			1733		
397	COMMUNICATION	7815	0.1500%	806	521	1327					1327
398	MISCELLANEOUS	138	0.0026%	14	4	18					18
	TOTAL	5210356		0	139785	139785					
	COMPANY COMMON		0.0000%	0		0					0
	TOTAL COMPANY	5210356	100.00%	537527	139785	677312	0	113960	335046	210113	18194
				537527			0	3146	9248	5800	18194
						677312	0	117105	344294	215913	

MISSOURI CITIES WATER
WA-89-178
EXPENSES
MEXICO DIVISION

RATE-SCHEDULE
WAH-2
STIPULATED
WATERWORKS

14-Sep-89
03:25 PM

EXPENSE ACCOUNTS	EXPENSES AS ADJUSTED	CUSTOMER BILLING	METER CHARGE	COMPONENT #-1	COMPONENT #-2	RESIDUAL
SOURCE OF SUPPLY						
LABOR- EMPLOYEES	8032			8032		
LABOR OFFICERS						
PURCHASED WATER						
PURCHASED POWER	108962			108962		
FUEL						
MAINTENANCE-ACCURAL						
MATERIALS & SUPPLIES	503			503		
CONTRACT OTHERS	1880			1880		
RENT	1083			1083		
TRANSPORTATION	408			408		
MISC. OTHERS	5167			5167		
TOTAL SOURCE OF SUPPLY	126035					
TREATMENT						
LABOR- EMPLOYEES	30298			30298		
LABOR OFFICERS						
PURCHASED-TREATMENT						
PURCHASED POWER	12614			12614		
CHEMICALS	43569			43569		
MATERIALS & SUPPLIES						
CONTRACT OTHERS	16500			16500		
RENT						
TRANSPORTATION	1658			1658		
MISC-OTHERS	12745			12745		
TOTAL TREATMENT	117384					
T & D EXPENSE						
LABOR EMPLOYEES	66728			20018	46710	
LABOR OFFICERS						
PURCHASED POWER	62212			36705	25507	
MAINTENANCE ACCURAL	0			0		
MATERIAL & SUPPLIES	10744			10744		
CONTRACT OTHERS	26846					26846
RENT	278					278
TRANSPORTATION	7419			7419		
MISC-OTHERS	1738		1738			
TOTAL T & D	175965					
CUSTOMER ACCOUNTING						
LABOR EMPLOYEES	88671	88671				
LABOR OFFICERS						
PURCHASED POWER	950	950				
MATERIAL & SUPPLIES	1020	1020				
CONTRACT OTHERS	31629	31629				
RENT BUILDING	5244	5244				
RENT EQUIP	1184	1184				
TRANSPORTATION	6377	6377				
BAD DEBT	5331	5331				
MISC OTHER	19817	19817				
TOTAL CUSTOMER ACCT.	160223					
ADMIN. & GENERAL						
LABOR EMPLOYEES	7740	619	3251	1393	2477	
LABOR OFFICERS	9586	767	4026	1725	3068	
PENSION	29877	2390	12548	5378	9561	

MISSOURI CITIES WATER
MR-89-178
EXPENSES
MEXICO DIVISION

RATE-SCHEDULE
MAY-2
STIPULATED

14-Sep-89
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EXPENSE ACCOUNTS	EXPENSES AS ADJUSTED	CUSTOMER BILLING	METER CHARGE	COMPONENT 0-1	COMPONENT 0-2	RESIDUAL
ADMIN. TRANS.	-4166					-4166
PURCHASED POWER						0
MATERIAL & SUPPLIES	319					319
CONTRACT AUDIT	3801					3801
CONTRACT LEGAL	3037					3037
CONTRACT MANAGEMENT	14247	1140	5984	2564	4559	
CONTRACT OTHERS	23849					23849
RENT BUILDING	1066					1066
RENT EQUIPMENT	12					12
TRANSPORTATION	1544	141	564	183	657	
INSURANCE VEHICLE	3785	344	1383	448	1609	
INSURANCE LIABILITY	8693	791	3176	1029	3696	
INSURANCE WORKMANS COMP	4367	349	1834	786	1397	
INSURANCE PROPERTY	2324					2324
ADVERTISING	4678					4678
P. S. C. RATE CASE	4534					4534
P. S. C. OTHERS	5039					5039
MISC OTHER	11945					11945
TOTAL A. & G.	136277	166764	34505	331813	99240	83562
		22038	4560	43849	13115	83562
TOTAL EXPENSES	715884	188802	39065	375662	112355	0

MO. CITIES WATER
WR-89-178
MEXICO DIV.
TOTAL O&M

RATE-SCHEDULE
WAH-3
STIPULATED

14-Sep-89
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	Total	Customer Billing	Meter Cost	Component #1	Component #2
Plant Cost	677312		117105	344294	215913
O & M cost	715884	188802	39065	375662	112355
Total Cost	1393196	188802	156170	719956	328268

Private Fire	-18492
Other Revenue	-8739
	161571

MISSOURI CITIES WATER
 WR-89-178
 MEXICO DIV.
 RATE DETERMINATION

RATE-SCHEDULE
 WAH-4
 STIPULATED
 =====

14-Sep-89
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Customer Billing: \$161,571 divided by 54,420 bills = 2.9690 Customer Billing

Customer Service: \$156,170 divided by 5311 M.E.Q. divided by 12 2.4504 Base Meter Charge

Meter Size	Flow Factor	Base Meter Charge	CUSTOMER BILLING	'Customer Charge
5/8"	1.0000	2.4504	2.9690	5.4194
3/4"	1.5000	2.4504	2.9690	6.6446
1"	2.5000	2.4504	2.9690	9.0950
1 1/2"	5.0000	2.4504	2.9690	15.2211
2"	8.0000	2.4504	2.9690	22.5723
3"	15.0000	2.4504	2.9690	39.7252
4"	25.0000	2.4504	2.9690	64.2294
6"	50.0000	2.4504	2.9690	125.4898

Monthly Minimum

Meter Size	CUSTOMER Charge	COST PER CCF	Customer Charge
5/8"	5.4194	1.6674	7.0868
3/4"	6.6446	1.6674	8.3120
1"	9.0950	1.6674	10.7624
1 1/2"	15.2211	1.6674	16.8885
2"	22.5723	1.6674	24.2397
3"	39.7252	1.6674	41.3927
4"	64.2294	1.6674	65.8968
6"	125.4898	1.6674	127.1573

Commodity Rates

Component #1 719956 divided by 817798 0.8804
 Component #2 328268 divided by 417077 0.7871

	Comp 1	Comp 2	Total
Component #1	0.8804		0.8804
Component #2	0.8804	0.7871	1.6674

CUBIC FEET PER MONTH

FIRST 100 - 13400 1.6674
 OVER 13400 0.8804

MO. CITIES WATER
WR-89-178
MEXICO DIV
REVENUE ANALYSIS

RATE-SCHEDULE
WAH-5
STIPULATED
***** Monthly

14-Sep-89
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Meter Size	Customers	Proposed Rate	Proposed Revenue
5/8"	4371	7.0868	30976
3/4"			
1"	100	10.7624	1076
1 1/2"		168885	0
2"	55	24.2397	1333
3"	5	41.3927	207
4"	1		
6"	3	127.1573	381

4535

33974

12

407691

Commodity Revenue

417077
-54420

Step #1

1.6674

362657

604694

Step #2

0.8804

400721

352795

PUBLIC FIRE

Private Fire

18492

Other Revenue

8739

Actual Revenue

1392411

Proposed Revenue

1393196

DIFF.

-785

SCHEDULE
 WAH-6
 STIPULATED
 14-Sep-89
 03:33 PM
 MISSOURI CITIES WATER COMPANY
 WR-89-178
 MEXICO DIVISION
 RESIDENTIAL BILL COMPARISON
 5/8. IN. METER
 USAGE IN 100 OF CUBIC FEET
 MONTHLY RATE

Usage	Current Rate	Proposed Rate	Difference	Percentage
0.00	6.10	7.09	0.99	16.2295%
1.00	6.10	7.09	0.99	16.2295%
2.00	7.33	8.76	1.42	19.4131%
3.00	8.57	10.42	1.86	21.6799%
4.00	9.80	12.09	2.29	23.3759%
5.00	11.03	13.76	2.72	24.6928%
6.00	12.27	15.43	3.16	25.7448%
7.00	13.50	17.09	3.59	26.6046%
8.00	14.74	18.76	4.03	27.3204%
9.00	15.97	20.43	4.46	27.9256%
10.00	17.20	22.10	4.89	28.4440%
11.00	18.44	23.76	5.33	28.8930%
12.00	19.67	25.43	5.76	29.2857%
13.00	20.90	27.10	6.19	29.6320%
14.00	22.14	28.77	6.63	29.9398%

AVG.
USAGE

SCHEDULE WAH-7
STIPULATED

MEXICO DIVISION

CURRENT RATE \$259.07
% REVENUE INCREASE X 1.29%

ANNUAL CHARGE \$334.20
PER MONTH CHARGE \$ 27.85

REVENUE FROM PUBLIC HYDRANTS 7 X \$27.85 X 12 MO. = \$2339

SCHEDULE WAH-8
STIPULATED

MEXICO DIVISION
BULK RATE

CURRENT RATE	\$2.25
% REVENUE INCREASE	<u>29%</u>
PROPOSED RATE	\$3.00

SCHEDULE WAH-9
STIPULATED

MEXICO DIVISION
WR-89-178
FIRE RATES

<u>SIZE</u>	<u>RATE PER MONTH</u>
2" FIRE OUTLET OR CONNECTION	\$ 3.08
4" FIRE OUTLET OR CONNECTION	12.38
6" FIRE OUTLET OR CONNECTION	27.85
8" FIRE OUTLET OR CONNECTION	49.51
10" FIRE OUTLET OR CONNECTION	77.35

MO. CITIES WATER
WR-89-178
DANKVILLE DIV.

NOTE-SCHEDULE
WAY-1
STIMULATED
DEPRECIATION

14-Sep-89
03:42 PM

ACCOUNT NUMBER	ACCOUNT TITLE	PLANT BALANCE	TAXES & RETURN	TAXES & RETURN	DEPRECIATION	TOTAL PLANT	CUSTOMER BILLING	METER CHARGE	COMPONENT NO. 1	COMPONENT NO. 2	RESIDUAL
302	FRANCHISE & CONSENTS	13	0.0003%	1	0	1					
SA302	SPECIAL AREA	0	0.0000%	0	0	0					1
310	LAND & LAND RIGHTS	1735	0.04%	174		174			174		
311	STRUCTURES	6693	0.1388%	673	231	904			904		
312	IMPOUNDING RESERVOIRS	0		0		0					
314	WELLS	52333	1.0854%	5260	1209	6469			6469		
316	SUPPLY MAINS	60666	1.2582%	6098	1335	7433			7433		
320	LAND & LAND RIGHTS	0	0.0000%	0		0			0		
321	STRUCTURES	12336	0.2558%	1240	308	1548			1548		
325	PUMPING EQUIPMENT	212725	4.4119%	21381	12763	34144			34144		
328	OTHER PUMPING	199	0.0041%	20	12	32			32		
330	LAND & LAND RIGHTS	432	0.0090%	43		43			43		
331	STRUCTURES	144553	2.9580%	14529	5782	20311			20311		
332	TREATING EQUIPMENT	577085	9.8997%	57952	18893	66845			66845		
340	LAND & LAND RIGHTS	11995	0.2488%	1206		1206				1206	
341	STRUCTURES	0	0.0000%	0	0	0			0		
342	RESERVOIRS & STANDPIPES	156313	3.2834%	15912	2232	18144				18144	
343	MAINS	2439637	50.5977%	245211	23475	268686			102101	166585	
344	FIRE MAINS	28415	0.5893%	2856	415	3271				3271	
345	SERVICES	393880	8.1690%	39589	11698	51287		51287			
346	METERS	144781	3.0027%	14552	11032	25584		25584			
347	METER INSTALLATIONS	200934	4.1673%	20196	5968	26164		26164			
348	HYDRANTS	315296	6.6222%	32093	8078	40171			40171		
349	OTHER	5083	0.1054%	511	149	660				660	
345	SERVICES SPECIAL	0	0.0000%	0	0	0					
347	METER INSTALLATIONS	0	0.0000%	0	0	0					
348	HYDRANTS SPECIAL	0	0.0000%	0	0	0					
389	LAND & LAND RIGHTS	142	0.0029%	14		14					14
390	STRUCTURES LEASE HOLD	57432	1.1911%	5773	1388	7161					7161
391	OFFICE FURNITURE	48278	1.0013%	4852	2930	7782					7782
392	TRANSPORTATION	10022	0.2079%	1007	1341	2348					2348
393	STORES	1759	0.0365%	177	70	247					247
394	TOOLS	7742	0.1606%	778	327	1105			1105		
395	LAB EQUIPMENT	11224	0.2328%	1128	801	1929			1929		
396	POWER EQUIPMENT	438	0.0091%	44	18	62			62		
397	COMMUNICATION	11540	0.2393%	1160	770	1930					1930
398	MISCELLANEOUS	1953	0.0405%	196	56	252					252
TOTAL		4821634		0	111281	111281					
COMPANY COMMON			0.0000%	0		0					0
TOTAL COMPANY		4821634	100.00%	484629	111281	595910	0	103036	283272	189865	19736
				484629			0	3529	9703	6504	19736
						595910	0	106565	292975	196370	

MISSOURI CITIES WATER
MR-89-178
EXPENSES
PARKVILLE DIVISION

RATE-SCHEDULE
W-2
STIPULATED

14-Sep-89
03:43 PM

EXPENSE ACCOUNTS	EXPENSES AS ADJUSTED	CUSTOMER BILLING	METER CHARGE	COMPONENT 0-1	COMPONENT 0-2	RESIDUAL
SOURCE OF SUPPLY						
LABOR- EMPLOYEES	4778			4778		
LABOR OFFICERS						
PURCHASED WATER	13062			13062		
PURCHASED POWER	22630			22630		
FUEL						
MAINTENANCE-ACCRUAL	0			0		
MATERIALS & SUPPLIES						
CONTRACT OTHERS	701			701		
RENT						
TRANSPORTATION	667			667		
MISC. OTHERS	842			842		
TOTAL SOURCE OF SUPPLY	42680					
TREATMENT						
LABOR- EMPLOYEES	47460			47460		
LABOR OFFICERS						
PURCHASED-TREATMENT						
PURCHASED POWER	25109			25109		
CHEMICALS	39097			39097		
MATERIALS & SUPPLIES	25			25		
CONTRACT OTHERS	2709			2709		
RENT						
TRANSPORTATION	5718			5718		
MISC-OTHERS	15789			15789		
TOTAL TREATMENT	135907					
T & D EXPENSE						
LABOR EMPLOYEES	44124			16767	27357	
LABOR OFFICERS						
PURCHASED POWER	63782			43372	20410	
MAINTENANCE ACCRUAL	0			0	0	
MATERIAL & SUPPLIES	3770			3770		
CONTRACT OTHERS	15236					15236
RENT	525					525
TRANSPORTATION	5714			5714		
MISC-OTHERS	5083		5083			
TOTAL T & D	138234					
CUSTOMER ACCOUNTING						
LABOR EMPLOYEES	58363	58363				
LABOR OFFICERS						
PURCHASED POWER	3138	3138				
MATERIAL & SUPPLIES	1490	1490				
CONTRACT OTHERS	23632	23632				
RENT BUILDING						
RENT EQUIP	235	235				
TRANSPORTATION	2878	2878				
BAD DEBT	3290	3290				
MISC OTHER	19531	19531				
TOTAL CUSTOMER ACCT.	112577					
ADMIN. & GENERAL						
LABOR EMPLOYED	8681	747	1524	3382	3027	
LABOR OFFICERS	8507	732	1494	3314	2966	
PENSIONS	24015	2068	4217	9356	8374	

MISSOURI CITIES WATER
MR-89-178
EXPENSES
PARKVILLE DIVISION

DATE-SCHEDULE
MM-2
STIPULATED
AGREEMENT

14-Sep-89
03:43 PM

EXPENSE ACCOUNTS	EXPENSES AS ADJUSTED	CUSTOMER BILLING	METER CHARGE	COMPONENT #-1	COMPONENT #-2	RESIDUAL
ADMIN. TRAMS.	-4233					-4233
PURCHASED POWER	283					0
MATERIAL & SUPPLIES	3352					283
CONTRACT AUDIT	2681					3352
CONTRACT LEAS.	14620	1259	2567	5636	5098	2681
CONTRACT MANAGEMENT	21044					21044
CONTRACT OTHERS	945					945
RENT BUILDING	11					11
RENT EQUIPMENT	1293	111	227	504	451	
TRANSPORTATION	2993	258	526	1166	1044	
INSURANCE VEHICLE	6657	573	1169	2594	2321	
INSURANCE LIABILITY	3660	332	678	1504	1346	
INSURANCE WORKMAN'S COMP	2045					2045
INSURANCE PROPERTY	3617					3617
ADVERTISING	3685					3685
P. S. C. RATE ORGE	4448					4448
P. S. C. OTHERS	4156					4156
MISC OTHER						
TOTAL A. & B.	112660	118650	17485	27576	72394	57795
		14161	2087	32907	8540	57795
TOTAL EXPENSES	942058	132819	19572	308633	81034	0

MO. CITIES WATER
WR-89-178
PARKVILLE DIV.
TOTAL O&M

RATE-SCHEDULE
WAH-3
STIPULATED

14-Sep-89
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	Total	Customer Billing	Meter Cost	Component #1	Component #2
Plant Cost	595910		106565	292975	196370
O & M cost	542058	132819	19572	308633	81034
Total Cost	1137968	132819	126137	601608	277404

Private Fire -13138

Other Revenue -13632

106049

MO. CITIES WATER
WR-89-178
PARKVILLE, DIV
RATE DETERMINATION

RATE-SCHEDULE
WAH-4
STIPULATED

14-Sep-89
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Customer Billings: \$106,049 divided by 43,008 bills = 2.4658 Customer Billing

Customer Service: \$126,137 divided by 4324 M.E.Q. divided by 12 2.4309 Base Meter Charge

Meter Size	Flow Factor	Base Meter Charge	CUSTOMER BILLING	'Customer Charge
5/8"	1.0000	2.4309	2.4658	4.8967
3/4"	1.5000	2.4309	2.4658	6.1122
1"	2.5000	2.4309	2.4658	8.5432
1 1/2"	5.0000	2.4309	2.4658	14.6205
2"	8.0000	2.4309	2.4658	21.9134
3"	15.0000	2.4309	2.4658	38.9300
4"	25.0000	2.4309	2.4658	63.2395
6"	50.0000	2.4309	2.4658	124.0132

Monthly Minimum

Meter Size	CUSTOMER Charge	COST OF M GALLON	Customer Charge
5/8"	4.8967	1.7836	6.6804
3/4"	6.1122	1.7836	7.8958
1"	8.5432	1.7836	10.3268
1 1/2"	14.6205	1.7836	16.4042
2"	21.9134	1.7836	23.6970
3"	38.9300	1.7836	40.7136
4"	63.2395	1.7836	65.0231
6"	124.0132	1.7836	125.7968

Commodity Rates

Component #1 601608 divided by 596512 1.0085

Component #2 277404 divided by 357907 0.7751

	Comp 1	Comp 2	Total
Component #1	1.0085		1.0085
Component #2	1.0085	0.7751	1.7836

USAGE PER MONTH

FIRST 1000 - 100000 1.7836
OVER 100000 1.0085

14-Sep-89

MO. CITIES WATER
WR-89-178
PARKVILLE, DIV.
REVENUE ANALYSIS

RATE-SCHEDULE
WAH-5
STIPULATED
----- Monthly

14-Sep-89
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Meter Size	Customers	Proposed Rate	Proposed Revenue
5/8"	3405	6.6804	22747
3/4"			
1"	83	10.3268	857
1 1/2"	55	16.4042	902
2"	32	23.697	758
3"	7	40.7136	285
4"	1	65.0231	65
6"	1	125.7968	126
	<u>3584</u>		<u>25740</u>

12 308883

Commodity Revenue 357907
-43008

Step #1 1.7836 314899 561654

Step #2 1.0085 238605 240633

PUBLIC FIRE

Private Fire 13138

Other Revenue 13632

Actual Revenue 1137940

Proposed Revenue 1137968

DIFF. -28

SCHEDULE
WAH-6
STIPULATED

14-Sep-89
03:48 PM

MISSOURI CITIES WATER COMPANY
WR-89-178
PARKVILLE DIVISION
RESIDENTIAL BILL COMPARISON
1/5/8. IN. METER
USAGE IN 1000 OF GALLONS
MONTHLY RATE

Usage	Current Rate	Proposed Rate	Difference	Percentage
0.00	6.11	6.68	0.57	9.3355%
1.00	6.11	6.68	0.57	9.3355%
2.00	7.53	8.46	0.94	12.4784%
3.00	8.94	10.25	1.31	14.6264%
4.00	10.36	12.03	1.68	16.1873%
5.00	11.77	13.81	2.04	17.3730%
6.00	13.19	15.60	2.41	18.3041%
7.00	14.60	17.38	2.78	19.0548%
8.00	16.02	19.17	3.15	19.6728%
9.00	17.43	20.95	3.52	20.1905%
10.00	18.85	22.73	3.89	20.6304%
11.00	20.26	24.52	4.26	21.0089%
12.00	21.68	26.30	4.63	21.3379%
13.00	23.09	28.08	4.99	21.6267%
14.00	24.51	29.87	5.36	21.8821%

AVG.
USAGE

SCHEDULE WAH-7
STIPULATED

PARKVILLE WATER DIVISION

CURRENT RATE \$207.50
% REVENUE INCREASE X 1.19%

ANNUAL CHARGE \$244.85
PER MONTH CHARGE \$ 20.40

REVENUE FROM PUBLIC HYDRANTS 24 X \$20.40 X 12 MO. = \$5875

SCHEDULE WAH-8
STIPULATED

PARKVILLE WATER
BULK RATE

CURRENT RATE	\$1.50
% REVENUE INCREASE	<u>.18%</u>
PROPOSED RATE	\$1.75

SCHEDULE WAH-9
STIPULATED

PARKVILLE DIVISION
WR-89-178
FIRE RATES

<u>SIZE</u>	<u>RATE PER MONTH</u>
2" FIRE OUTLET OR CONNECTION	\$ 2.26
4" FIRE OUTLET OR CONNECTION	9.08
6" FIRE OUTLET OR CONNECTION	20.40
8" FIRE OUTLET OR CONNECTION	36.27
10" FIRE OUTLET OR CONNECTION	56.67

SCHEDULE WAH-10
STIPULATED

MO CITIES WATER
WR-89-179
PARKVILLE SEWER DIVISION

AS ADJUSTED REVENUE	\$29,548
GROSS REV. REQUIREMENT	<u>\$ 6,708</u>
TOTAL REVENUE	36,256
TOTAL CUSTOMERS	<u>100</u>
RATE	\$ 30.21 PER MONTH

STIPULATED AT COMPANY

PROPOSAL	\$ 29.62 PER MONTH
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NO. CITIES WATER
WA-89-178
WARRENSBURG DIV.

ANTE-SCHEDULE
WA-1
STIPULATED
DEPRECIATION

14-Sep-89
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ACCOUNT NUMBER	ACCOUNT TITLE	PLANT BALANCE	TAXES & RETURN	TAXES & RETURN	DEPRECIATION	TOTAL PLANT	CUSTOMER BILLING	METER CHARGE	COMPONENT NO. 1	COMPONENT NO. 2	RESIDUAL
302	FRANCHISE & CONSENTS	5083	0.1114%	498	0	498					498
SA302	SPECIAL AREA	0	0.0000%	0		0					0
310	LAND & LAND RIGHTS	9995	0.22%	979		979			979		
311	STRUCTURES	0		0		0					
312	IMPOUNDING RESERVOIRS	0		0		0					
314	WELLS	50799	1.1138%	4973	1173	6146			6146		
316	SUPPLY MAINS	68269	1.4969%	6664	1562	8186			8186		
320	LAND & LAND RIGHTS	0	0.0000%	0		0					
321	STRUCTURES	24063	0.3276%	2356	602	2958			2958		
325	PUMPING EQUIPMENT	186379	4.0865%	18247	11183	29430			29430		
328	OTHER PUMPING	8858	0.1942%	867	532	1399			1399		
330	LAND & LAND RIGHTS	511	0.0112%	50		50			50		
331	STRUCTURES	3583	0.0786%	351	143	494			494		
332	TREATING EQUIPMENT	71162	1.5603%	6967	2818	9785			9785		
340	LAND & LAND RIGHTS	34598	0.7586%	3387		3387				3387	
339	DISTR ANALYSIS	6726	0.15%	658	135	793				793	
342	RESERVOIRS & STANDPIPES	536322	11.7593%	52508	7562	60070				60070	
343	MAINS	2069270	45.3705%	202589	21680	224269			58310	165959	
344	FIRE MAINS	13910	0.3050%	1362	203	1565				1565	
345	SERVICES	569387	12.4843%	55745	16911	72656		72656			
346	METERS	187033	4.1009%	18311	14252	32563		32563			
347	METER INSTALLATIONS	242781	5.3232%	23769	7211	30980		30980			
348	HYDRANTS	248723	5.4535%	24351	6293	30644			30644		
343	MAINS SPECIAL	0	0.0000%	0	0	0					
345	SERVICES SPECIAL	0	0.0000%	0	0	0					
347	METER INSTALLATIONS	0	0.0000%	0	0	0					
348	HYDRANTS SPECIAL	0	0.0000%	0	0	0					
389	LAND & LAND RIGHTS	2222	0.0487%	218		218					218
390	STRUCTURES LEASE HOLD	136253	2.9875%	13340	3339	16679					16679
391	OFFICE FURNITURE	46801	1.0262%	4582	2841	7423					7423
392	TRANSPORTATION	11469	0.2515%	1123	1535	2658					2658
393	STORES	0		0		0					
394	TOOLS	9594	0.2104%	939	405	1344			1344		
395	LAB EQUIPMENT	3456	0.0758%	338	247	585			585		
396	POWER EQUIPMENT	0	0.0000%	0		0					
397	COMMUNICATION	11764	0.2579%	1152	785	1937			1937		
398	MISCELLANEOUS	1811	0.0337%	177	52	229					229
	TOTAL	4560822		0	101404	101404					
	COMPANY COMMON	0	0.0000%	0		0					0
	TOTAL COMPANY	4560822	100.00%	446521	101404	547925	0	136199	152247	231775	27704
				446521			0	7253	8108	12343	27704
						547925	0	143453	160355	244118	

MISSOURI CITIES WATER
MR-89-178
EXPENSES
WARRENSBURG DIVISION

RATE-SCHEDULE
WAH-2
STIPULATED

14-Sep-89
03:35 PM

EXPENSE ACCOUNTS	EXPENSES AS ADJUSTED	CUSTOMER BILLING	METER CHANGE	COMPONENT 0-1	COMPONENT 0-2	RESIDUAL
SOURCE OF SUPPLY						
LABOR- EMPLOYEES	1823			1823		
LABOR OFFICERS						
PURCHASED WATER						
PURCHASED POWER	46965			46965		
FUEL						
MAINTENANCE-ACCURAL						
MATERIALS & SUPPLIES	197			197		
CONTRACT OTHERS	1472			1472		
RENT						
TRANSPORTATION	271			271		
MISC. OTHERS	4500			4500		
TOTAL SOURCE OF SUPPLY	55228					
TREATMENT						
LABOR- EMPLOYEES	15688					
LABOR OFFICERS				15688		
PURCHASED-TREATMENT						
PURCHASED POWER	3019			3019		
CHEMICALS	10540			10540		
MATERIALS & SUPPLIES	210			210		
CONTRACT OTHERS	391			391		
RENT						
TRANSPORTATION	2068			2068		
MISC-OTHERS	9829			9829		
TOTAL TREATMENT	41745					
T & D EXPENSE						
LABOR EMPLOYEES	59111			15369	43742	
LABOR OFFICERS						
PURCHASED POWER	50733			27503	22830	
MAINTENANCE ACCURAL	-5122			-5122		
MATERIAL & SUPPLIES	5497					5497
CONTRACT OTHERS	39637					39637
RENT						
TRANSPORTATION	8135			4637	3498	
MISC-OTHERS	9775		9775			
TOTAL T & D	167766					
CUSTOMER ACCOUNTING						
LABOR EMPLOYEES	58858	58858				
LABOR OFFICERS						
PURCHASED POWER	1164	1164				
MATERIAL & SUPPLIES	772	772				
CONTRACT OTHERS	31531	31531				
RENT BUILDING						
RENT EQUIP	377	377				
TRANSPORTATION	3957	3957				
BAD DEBT	6266	6266				
MISC OTHER	19927	19927				
TOTAL CUSTOMER ACCT.	122852					
ADMIN. & GENERAL						
LABOR EMPLOYEES	6032	603	2352	724	2352	
LABOR OFFICERS	9236	924	3602	1108	3602	
PENSIONS	29555	2956	11526	3547	11526	

MISSOURI CITIES WATER
WA-89-178
EXPENSES
WARRENSBURG DIVISION

RATE-SCHEDULE
WAH-2
STIPULATED

14-Sep-89
03:35 PM

EXPENSE ACCOUNTS	EXPENSES AS ADJUSTED	CUSTOMER BILLING	METER CHARGE	COMPONENT #-1	COMPONENT #-2	RESIDUAL
ADMIN. TRAMS.	-3529					-3529
PURCHASED POWER						0
MATERIAL & SUPPLIES	308					308
CONTRACT AUDIT	3659					3659
CONTRACT LEGAL	2926					2926
CONTRACT MANAGEMENT	14703	1470	5734	1764	5734	
CONTRACT OTHERS	22953					22953
RENT BUILDING	1027					1027
RENT EQUIPMENT	110					110
TRANSPORTATION	1562	150	387	229	796	
INSURANCE VEHICLE	3097	297	768	454	1579	
INSURANCE LIABILITY	10114	969	2507	1483	5155	
INSURANCE WORKMANS COMP	4202	420	1639	504	1639	
INSURANCE PROPERTY	2234					2234
ADVERTISING	4186					4186
P. S. C. RATE CASE	4694					4694
P. S. C. OTHERS	3999					3999
MISC OTHER	15288					15288
TOTAL A. & G.	136356	130640	38291	149573	102454	102989
TOTAL EXPENSES	523947	31962	9368	36594	25066	102989
		162602	47659	186167	127519	0

MO. CITIES WATER
 WR-89-178
 WARRENSBURG DIV.
 RATE DETERMINATION

RATE-SCHEDULE
 WAH-4
 STIPULATED
 =====

14-Sep-89
 03:38 PM

Customer Billing: \$142,942 divided by 56,328 bills = 2.5377 Customer Billing

Customer Service: \$191,112 divided by 5701 M.E.Q. divided by 12 2.7935 Base Meter Charge

Meter Size	Flow Factor	Base Meter Charge	CUSTOMER BILLING	'Customer Charge
5/8"	1.0000	2.7935	2.5377	5.3312
3/4"	1.5000	2.7935	2.5377	6.7280
1"	2.5000	2.7935	2.5377	9.5215
1 1/2"	5.0000	2.7935	2.5377	16.5054
2"	8.0000	2.7935	2.5377	24.8860
3"	15.0000	2.7935	2.5377	44.4408
4"	25.0000	2.7935	2.5377	72.3763
6"	50.0000	2.7935	2.5377	142.2149

Monthly Minimum

Meter Size	CUSTOMER Charge	COST PER CCE	Customer Charge
5/8"	5.3312	1.0232	6.3544
3/4"	6.7280	1.0232	7.7512
1"	9.5215	1.0232	10.5448
1 1/2"	16.5054	1.0232	17.5286
2"	24.8860	1.0232	25.9093
3"	44.4408	1.0232	45.4641
4"	72.3763	1.0232	73.3995
6"	142.2149	1.0232	143.2381

Commodity Rates

Component #1 346522 divided by 1023942 0.3384
 Component #2 371637 divided by 542689 0.6848

	Comp 1	Comp 2	Total
Component #1	0.3384		0.3384
Component #2	0.3384	0.6848	1.0232

CUBIC FEET PER MONTH

FIRST 100 - 13400 1.0232
 OVER-13400 0.3384

MO. CITIES WATER
WR-89-178
WARRENSBURG DIV.
TOTAL O&M

RATE-SCHEDULE
WAH-3
STIPULATED

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	Total	Customer Billing	Meter Cost	Component #1	Component #2
Plant Cost	547925		143453	160355	244118
O & M cost	523947	162602	47659	186167	127519
Total Cost	1071873	162602	191112	346522	371637

Private Fire -5260

Other Revenue -14400

142942

MO. CITIES WATER
WR-86-111
WARRENSBURG DIV.
REVENUE ANALYSIS

RATE-SCHEDULE
WAH-5
STIPULATED

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----- Monthly

Meter Size	Customers	Proposed Rate	Proposed Revenue
5/8"	4528	6.3544	28773
3/4"			
1"	48	10.5448	506
1 1/2"	28	17.5286	491
2"	76	25.9093	1969
3"	7	45.4641	318
4"	6	73.3995	440
6"	1	143.2381	143
	4694		32641

12 391688

Commodity Revenue 542689
-56328

Step #1 1.0232 486361 497645

Step #2 0.3384 481253 162856

PUBLIC FIRE

Private Fire 5260

Other Revenue 14400

Actual Revenue 1071849

Proposed Revenue 1071873

DIFF. -24

SCHEDULE
WAH-6
STIPULATED

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MISSOURI CITIES WATER COMPANY
WR-89-178
WARRENSBURG DIVISION
RESIDENTIAL BILL COMPARISON
5/8. IN. METER
USAGE IN 100 OF CUBIC FEET
MONTHLY RATE

Usage	Current Rate	Proposed Rate	Difference	Percentage
0.00	5.41	6.35	0.94	17.3752%
1.00	5.41	6.35	0.94	17.3752%
2.00	6.06	7.37	1.31	21.6559%
3.00	6.71	8.40	1.68	25.1065%
4.00	7.36	9.42	2.06	27.9472%
5.00	8.01	10.44	2.43	30.3265%
6.00	8.66	11.47	2.80	32.3484%
7.00	9.31	12.49	3.18	34.0877%
8.00	9.96	13.51	3.55	35.6000%
9.00	10.62	14.54	3.92	36.9268%
10.00	11.27	15.56	4.29	38.1004%
11.00	11.92	16.58	4.67	39.1458%
12.00	12.57	17.61	5.04	40.0829%
13.00	13.22	18.63	5.41	40.9278%
14.00	13.87	19.65	5.78	41.6934%

AVG.
USAGE

SCHEDULE WAH-7
STIPULATED

WARRENSBURG

CURRENT RATE \$126.35

% REVENUE INCREASE X 1.31%

ANNUAL CHARGE \$165.52

PER MONTH CHARGE \$ 13.79

REVENUE FROM PUBLIC HYDRANTS 6 X \$13.79 X 12 MO. = \$993

SCHEDULE WAH-9
STIPULATED

WARRENSBURG DIVISION
WR-89-178
FIRE RATES

<u>SIZE</u>	<u>RATE PER MONTH</u>
2" FIRE OUTLET OR CONNECTION	\$ 1.53
4" FIRE OUTLET OR CONNECTION	6.17
6" FIRE OUTLET OR CONNECTION	13.79
8" FIRE OUTLET OR CONNECTION	24.53
10" FIRE OUTLET OR CONNECTION	38.31

NO. CITIES WATER
MR-89-178
ST. CHARLES DIV.

DATE-SCHEDULE
MM-1
STIPULATED
DEPRECIATION

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ACCOUNT NUMBER	ACCOUNT TITLE	PLANT BALANCE	TAXES & RETURN	TAXES & RETURN	DEPRECIATION	TOTAL PLANT	CUSTOMER BILLING	METER CHANGE	COMPONENT NO. 1	COMPONENT NO. 2	RESIDUAL
302	FRANCHISE & CONSENTS	12572	0.0083%	935	0	935					935
SA302	SPECIAL AREA	0	0.0000%	0	0	0					
310	LAND & LAND RIGHTS	5372	0.0249%	425		425			425		
311	STRUCTURES	0	0.0000%	0	0	0			0		
312	IMPOUNDING RESERVOIRS	0	0.0000%	0	0	0			0		
314	WELLS	0	0.0000%	0	0	0			0		
316	SUPPLY MAINS	0	0.0000%	0	0	0			0		
320	LAND & LAND RIGHTS	1193	0.0055%	94		94			94		
321	STRUCTURES	136698	0.6342%	10824	3417	14241			14241		
325	PUMPING EQUIPMENT	454399	2.1083%	35979	27264	63243			63243		
328	OTHER PUMPING	5613	0.0260%	444	337	781			781		
330	LAND & LAND RIGHTS	5372	0.0249%	425		425			425		
331	STRUCTURES	0	0.0000%	0	0	0			0		
332	TREATING EQUIPMENT	0	0.0000%	0	0	0			0		
339	OTHER	855198	2.9679%	67713	17104	84817			84817		
340	LAND & LAND RIGHTS	62977	0.2922%	4986		4986				4986	
341	STRUCTURES	40960	0.1900%	3243	2277	5520				5520	
342	RESERVOIRS & STANDPIPES	696208	3.2302%	55125	9817	64942				64942	
343	MAINS	13296564	61.6923%	1052798	58543	1111341			444537	666805	
344	FIRE MAINS	46484	0.2157%	3681	679	4360				4360	
345	SERVICES	2193510	10.1773%	173678	65147	238825		238825			
346	METERS	679209	2.1513%	53779	51756	105535		105535			
347	METER INSTALLATIONS	1155105	5.3594%	91459	34307	125766		125766			
348	HYDRANTS	1682578	7.8067%	133224	42569	175793			175793		
343	MAINS SPECIAL	3964	0.0184%	314	117	431				431	
345	SERVICES SPECIAL	0	0.0000%	0	0	0					
347	METER INSTALLATIONS	0	0.0000%	0	0	0					
348	HYDRANTS SPECIAL	0	0.0000%	0	0	0					
389	LAND & LAND RIGHTS	0	0.0000%	0		0					0
390	STRUCTURES LEASE HOLD	12893	0.0598%	1021	0	1021					1021
391	OFFICE FURNITURE	132725	0.6158%	10509	8056	18565					18565
392	TRANSPORTATION	7349	0.0341%	582	983	1565					1565
393	STORES	1652	0.0077%	131	66	197					197
394	TOOLS	32266	0.1497%	2555	1365	3920			3920		
395	LAB EQUIPMENT	0	0.0000%	0	0	0			0		
396	POWER EQUIPMENT	15016	0.0697%	1189	601	1790			1790		
397	COMMUNICATION	15658	0.0726%	1240	1044	2284					2284
398	MISCELLANEOUS	1513	0.0070%	120	43	163					163
TOTAL		21553048		0	325492	325492					
COMPANY COMMON			0.0000%	0		0					0
TOTAL COMPANY		21553048	100.00%	1706532	325492	2032024	0	470126	790065	747043	24789
				1706532			0	5806	9757	9226	24789
						2032024	0	475932	799823	756269	

MISSOURI CITIES WATER
MR-89-178
EXPENSES
ST. CHARLES DIVISION

RATE-SCHEDULE
MM-2
STIPULATED

14-Sep-89
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EXPENSE ACCOUNTS	EXPENSES AS ADJUSTED	CUSTOMER BILLING	METER CHARGE	COMPONENT 0-1	COMPONENT 0-2	RESIDUAL
SOURCE OF SUPPLY						
LABOR- EMPLOYEES	268			268		
LABOR OFFICERS						
PURCHASED WATER	832466			832466		
PURCHASED POWER	32757			32757		
FUEL						
MAINTENANCE-ACCRAUL						
MATERIALS & SUPPLIES						
CONTRACT OTHERS						
RENT						
TRANSPORTATION						
MISC. OTHERS						
TOTAL SOURCE OF SUPPLY	865491					
TREATMENT						
LABOR- EMPLOYEES	1924					
LABOR OFFICERS				1924		
PURCHASED-TREATMENT						
PURCHASED POWER						
CHEMICALS						
MATERIALS & SUPPLIES						
CONTRACT OTHERS						
RENT						
TRANSPORTATION	14			14		
MISC-OTHERS						
TOTAL TREATMENT	1938					
T & D EXPENSE						
LABOR EMPLOYEES	187534			75014	112520	
LABOR OFFICERS						
PURCHASED POWER	36781			35310	1471	
MAINTENANCE ACCRAUL	8760			8760		
MATERIAL & SUPPLIES	12303			12303		
CONTRACT OTHERS	36627					36627
RENT						
TRANSPORTATION	27456			10982	16474	
MISC-OTHERS	34409					34409
TOTAL T & D	343870					
CUSTOMER ACCOUNTING						
LABOR EMPLOYEES	172768	172768				
LABOR OFFICERS						
PURCHASED POWER	639	639				
MATERIAL & SUPPLIES	7155	7155				
CONTRACT OTHERS	109412					109412
RENT BUILDING	13442	13442				
RENT EQUIP	6916	6916				
TRANSPORTATION	25386	25386				
WAD DEBT	11757	11757				
MISC OTHER	70231	70231				
TOTAL CUSTOMER ACCT.	417726					
ADMIN. & GENERAL						
LABOR EMPLOYEES	30233	4837	12698		12698	
LABOR OFFICERS	35396	5663	14866		14867	
PENSIONS	109984	17597	46193		46194	

MISSOURI CITIES WATER
MR-89-178
EXPENSES
ST. CHARLES DIVISION

NOTE-SCHEDULE
MR-2
STIPULATED
EXPENSES

14-Sep-85
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EXPENSE ACCOUNTS	EXPENSES AS ADJUSTED	CUSTOMER BILLING	METER CHARGE	COMPONENT #-1	COMPONENT #-2	RESIDUAL
ADMIN. TRFMS.	-34041					-34041
PURCHASED POWER	879					0
MATERIAL & SUPPLIES	14102					679
CONTRACT AUDIT	11289					14102
CONTRACT LEGAL	53610					11289
CONTRACT MANAGEMENT	88605					53610
CONTRACT OTHERS	19728					88605
RENT BUILDING	46					19728
RENT EQUIPMENT	5918	947	2486		2495	46
TRANSPORTATION	8941	1431	3755			
INSURANCE VEHICLE	39003	6240	16381		3755	
INSURANCE LIABILITY	16239	2598	6820		16382	
INSURANCE WORKMANS COMP	8644	1303	3630		6821	
INSURANCE PROPERTY	16254				3631	
ADVERTISING	17128					16254
P. S. C. RATE CRSE	17018					17128
P. S. C. OTHERS	33031					17018
MISC. OTHER						33031
TOTAL A. & S.	492787	349011	106630	1009798	237308	418877
TOTAL EXPENSES	2121812	65946	26277	246384	58372	418880
		434859	133108	1258181	295680	-3

MO. CITIES WATER
WA-89-178
ST. CHARLES DIV.
TOTAL O&M

RATE-SCHEDULE
WAH-3
STIPULATED

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	Total	Customer Billing	Meter Cost	Component #1	Component #2
Plant Cost	2032024		475932	799823	756269
O & M cost	2121812	434859	133108	1258181	295680
Total Cost	4153852	434859	609040	2058004	1051949

PUBLIC FIRE

Private Fire -13889

Other Revenue -40143

380827

MISSOURI CITIES WATER
WR-89-178
ST. CHARLES DIV.
RATE DETERMINATION

RATE-SCHEDULE
WAM-4
STIPULATED

14-Sep-89
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Customer Billing: \$380,827 divided by 205,500 bills = 1.8532 Customer Billing

Customer Service: \$609,040 divided by 18926 M.E.Q. divided by 12 2.6817 Base Meter Charge

Meter Size	Flow Factor	Base Meter Charge	CUSTOMER BILLING	'Customer Charge
5/8"	1.0000	2.6817	1.8532	4.5348
3/4"	1.5000	2.6817	1.8532	5.8757
1"	2.5000	2.6817	1.8532	8.5574
1 1/2"	5.0000	2.6817	1.8532	15.2615
2"	8.0000	2.6817	1.8532	23.3066
3"	15.0000	2.6817	1.8532	42.0783
4"	25.0000	2.6817	1.8532	68.8950
6"	50.0000	2.6817	1.8532	135.9368

Monthly Minimum

Meter Size	CUSTOMER Charge	COST OF M GALLON	Customer Charge
5/8"	4.5348	1.5319	6.0668
3/4"	5.8757	1.5319	7.4076
1"	8.5574	1.5319	10.0893
1 1/2"	15.2615	1.5319	16.7935
2"	23.3066	1.5319	24.8385
3"	42.0783	1.5319	43.6102
4"	68.8950	1.5319	70.4269
6"	135.9368	1.5319	137.4687

Commodity Rates

Component '#1 2058004 divided by 2058713 0.9997

Component '#2 1051949 divided by 1976364 0.5323

	Comp-1	Comp-2	Total
Component '#1	0.9997		0.9997
Component '#2	0.9997	0.5323	1.5319

USAGE PER MONTH

FIRST 1000 - 100000	1.5319
OVER 100000	0.9997

MO. CITIES WATER
WR-89-178
ST. CHARLES DIV.
REVENUE ANALYSIS

RATE-SCHEDULE
WAH-5
STIPULATED
***** Monthly

14-Sep-89
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Meter Size	Customers	Proposed Rate	Proposed Revenue
5/8"	16720	6.0668	101437
3/4"			
1"	156	10.0893	1574
1 1/2"	151	16.7935	2536
2"	82	24.8385	2037
3"	7	43.6102	305
4"	6	70.4269	423
6"	3	137.4687	412
	17125		108724

12 1304684

Commodity Revenue 1976364
-205500

Step #1 1.5319 1770864 2712787

Step #2 0.9997 82349 82324

PUBLIC FIRE

Private Fire 13889

Other Revenue 40143

Actual Revenue 4153827

Proposed Revenue 4153852
DIFF. -25

SCHEDULE
WAH-6
STIPULATED

14-Sep-89
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MISSOURI CITIES WATER COMPANY
WR-89-178
ST. CHARLES DIVISION
RESIDENTIAL BILL COMPARISON
1/2 IN. METER
USAGE IN 1000 OF GALLONS
MONTHLY RATE

Usage	Current Rate	Proposed Rate	Difference	Percentage
0.00	5.75	6.07	0.32	5.5652%
1.00	5.75	6.07	0.32	5.5652%
2.00	7.23	7.60	0.37	5.1802%
3.00	8.71	9.13	0.43	4.9259%
4.00	10.18	10.67	0.48	4.7454%
5.00	11.66	12.20	0.54	4.6106%
6.00	13.14	13.73	0.59	4.5062%
7.00	14.62	15.26	0.65	4.4229%
8.00	16.09	16.79	0.70	4.3548%
9.00	17.57	18.33	0.76	4.2982%
10.00	19.05	19.86	0.81	4.2504%
11.00	20.53	21.39	0.86	4.2095%
12.00	22.00	22.92	0.92	4.1741%
13.00	23.48	24.45	0.97	4.1431%
14.00	24.96	25.98	1.03	4.1158%

AVG.
USAGE

SCHEDULE WAH-7
STIPULATED

MISSOURI CITIES WATER COMPANY
WR-89-178
PUBLIC FIRE HYDRANT RATES
ST. CHARLES DIVISION

CURRENT RATE \$304.18

% REVENUE INCREASE 1.04%

\$316.35

ANNUAL CHARGE \$316.35

CHARGE PER MONTH 26.36

REVENUE FROM PUBLIC HYDRANTS $9 \times 26.36 \times 12 = \2847

SCHEDULE WAH-9
STIPULATED

ST. CHARLES DIVISION
WR-89-178
FIRE RATES

<u>SIZE</u>	<u>RATE PER MONTH</u>
2" FIRE OUTLET OR CONNECTION	\$ 2.99
4" FIRE OUTLET OR CONNECTION	11.70
6" FIRE OUTLET OR CONNECTION	26.36
8" FIRE OUTLET OR CONNECTION	46.85
10" FIRE OUTLET OR CONNECTION	73.21

APPENDIX B
MISSOURI CITIES WATER COMPANY

MISSOURI CITIES WATER COMPANY - TOTAL COMPANY
CASE NO. WR-89-178
SCHEDULE OF RECOMMENDED WATER DEPRECIATION RATES

ACCOUNT NO.	ACCOUNT DESCRIPTION	AVERAGE SERVICE LIFE	NET SALVAGE	DEPR. RATE

SOURCE OF SUPPLY				

311	STRUCTURES & IMPROVEMENTS	29	0.00	3.45%
312	IMPOUNDING RESERVOIRS	29	0.00	3.45%
314	WELLS	45	(0.04)	2.31%
316	SUPPLY MAINS	46	(0.01)	2.20%
PUMPING PLANT				

321	STRUCTURES	42	(0.05)	2.50%
323	OTHER POWER EQUIPMENT	25	(0.02)	4.08%
325	PUMPING EQUIPMENT	17	(0.02)	6.00%
328	OTHER PUMPING EQUIPMENT	17	(0.02)	6.00%
TREATMENT PLANT				

331	STRUCTURES	26	(0.04)	4.00%
332	WATER TREATMENT EQUIPMENT	26	(0.03)	3.96%
OTHER INTANGIBLE PLANT				

339.100	HYSTUDY	50	0.00	2.00%
339.001	WELL FIELD PROJ	50	0.00	2.00%
339.200	DISTR ANALYSIS	50	0.00	2.00%
339.300	SLUDGE LINE	50	0.00	2.00%
TRANS. & DISTRIBUTION PLANT				

341	STRUCTURES	18	0.00	5.56%
342	RESERVOIRS & STANDPIPES	75	(0.06)	1.41%
343	MAINS	70	-0.02	1.46%
344	FIRE MAINS	70	-0.02	1.46%
345	SERVICES	37	-0.10	2.97%
346	METERS	13	0.01	7.62%
347	METER INSTALLATION	37	-0.10	2.97%
348	HYDRANTS	40	-0.01	2.53%
349	OTHER	34	0.00	2.94%

MISSOURI CITIES WATER COMPANY - TOTAL COMPANY
CASE NO. WR-89-178
SCHEDULE OF RECOMMENDED WATER DEPRECIATION RATES

ACCOUNT NO.	ACCOUNT DESCRIPTION	AVERAGE SERVICE LIFE	NET SALVAGE	DEPR. RATE

GENERAL PLANT				

390	STRUCTURES	41	(0.02)	2.49%
391	OFFICE FURNITURE	15	0.09	6.07%
392	TRANSPORTATION	6.5	0.13	13.38%
393	STORES EQUIPMENT	25	0.00	4.00%
394	TOOLS	22	0.07	4.23%
395	LABORATORY EQUIPMENT	14	0.00	7.14%
396	POWER EQUIPMENT	25	0.00	4.00%
397	COMMUNICATION EQUIPMENT	15	0.00	6.67%
398	MISCELLANEOUS	35	0.00	2.86%