

Exhibit No: Issues:

Witness: Type of Exhibit: Case No:

Date Testimony Prepared:

Normalized Rate Case Expense; Capital Structure and Return on Equity; Correction to Staff's Direct Testimony; Liberty Utilities' Proposed Rate Design; Staff's Proposed Rate Design William G. Stannard Surrebuttal Testimony WR-2018-0170 SR-2018-0171 August 7, 2018

SURREBUTTAL TESTIMONY

OF

WILLIAM G. STANNARD

ON BEHALF OF SILVERLEAF RESORTS INC.

AND ORANGE LAKE COUNTRY CLUB, INC.

FILED³

AUG 24 2018

Missouri Public Service Commission

LIBERTY UTILITIES (MISSOURI WATER), LLC D/B/A LIBERTY UTILITIES

CASE NO. WR-2018-0170

Jefferson City, Missouri August 2018

Exhibit No. 303 Date <u>8-14-18</u> Reporter TV File No. <u>WR - 2018-0178</u>

CORE/9990000.7577/141764316.1

1.5

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

)

)

In the matter of Liberty Utilities (Missouri Water) LLC's Application for Rate Increase. File No. WR-2018-0170 SR-2018-0171

State of Missouri)) SS County of Jackson)

Affidavit of William Stannard

William G. Stannard, being first duly sworn, on his oath states:

1. My name is William Stannard. I am a consultant with Raftelis Financial Consultants, Inc., having its principal place of business at 3013 Main St., Kansas City, Missouri 64108. We have been retained by Silverleaf Resorts, Inc. and Orange Lake Country Club, Inc. in this proceeding on their behalf.

2. Attached hereto and made a part hereof for all purposes are my surrebuttal testimony and schedules which were prepared in written form for introduction into evidence in Missouri Public Service Commission Case No. WR-2018-0170 and SR-2018-0171.

3. I hereby swear and affirm that the testimony and schedules are true and correct and that they show the matters and things that they purport to show.

William G. Stannard

winnam G. Stannard

Subscribed and sworn to before me this $7^{\prime \prime \prime \prime}$ day of August 2018.

Ktary Public



Table of Contents

ι,

BACKGROUND OF WITNESS	1
EXECUTIVE SUMMARY	1
PERIOD FOR NORMALIZED RATE CASE EXPENSE	2
CAPITAL STRUCTURE AND RETURN ON EQUITY	3
CORRECTION TO STAFF'S DIRECT TESTIMONY	7
LIBERTY UTILITIES' PROPOSED RATE DESIGN	9
STAFF'S PROPOSED RATE DESIGN	11

1	BACKGROUND OF WITNESS
2	Q. Please state your name and business address.
3	A. My name is William G. Stannard and my business address is 3013 Main Street, Kansas City,
4	Missouri, 64108.
5	
6	Q. Are you the same William G. Stannard who has previously filed rebuttal testimony in this
7	case?
8	A. Yes, I am.
9	EXECUTIVE SUMMARY
10	Q. Please provide an overview of your surrebuttal testimony.
11	A. My surrebuttal testimony:
12	(1) Proposes a five-year period for normalization of rate case expense;
13	(2) Responds to the rebuttal testimony of Staff witness David Murray regarding capital
14	structure and return on equity;
15	(3) Confirms that Staff's revised rate design will recover the water and sewer revenue
16	requirement outlined in Staff's rebuttal testimony;
17	(4) Describes my concern that Liberty Utilities' proposed rate design for the Silverleaf
18	water and sewer systems would over-recover the revenue requirement Staff has indicated for these
19	systems in rebuttal testimony.
20	(5) Describes my concern that a rate revenue increase of 75 and 68 percent on Silverleaf's
21	water and sewer systems would cause severe rate shock; and offers a phased-in rate increase to
22	mitigate the rate shock problem created by the size of the proposed increase.

ı.

,

CORE/9990000.7577/141764316.1

1

PERIOD FOR NORMALIZED RATE CASE EXPENSE

2 Q. What are the positions of Liberty Utilities and Staff, respectively, regarding the time 3 period for recovering rate case expense?

A. In direct testimony, Liberty Utilities' Witness Jill Schwartz proposes a two-year period, arguing
that Liberty Utilities plans on filing another rate case in the next several years due to the acquisition
of Ozark International, Inc. Staff Witness Paul Harrison proposes a five-year recovery period,
given the large amount of time between Liberty Utilities' most recent rate case and this case. Mr.
Harrison also notes that there is no guarantee that Liberty Utilities will file for another rate increase
in two years.

10

11 Q. What is your position regarding this issue?

A. I believe a five-year period as recommended by Staff is more appropriate. The decision to file 12 a rate case is a management decision which will be made by Liberty Utilities, similar to the prior 13 decision to wait more than 10 years to file this most recent case. I believe it is important to note 14 that including recovery of rate case expenses in base rates means that Liberty Utilities will continue 15 to recover these expenses until the implementation of new rates. Liberty Utilities' proposal of 16 normalizing rate case expense recovery over a two-year period means that unless the Commission 17 approves a new tariff within two years, Liberty Utilities will over-recover this expense. It also 18 19 bears mentioning that even if Liberty Utilities files for new rates within two years, it will still overrecover because the process of establishing new rates could easily take another year. As I indicated 20 above, the decision to file for new rates is a management decision made by Liberty Utilities. By 21 deferring a rate case by more than a year Liberty Utilities can assure itself of over-recovering for 22

rate case expenses. A five-year period is more appropriate and should be approved by the
 Commission.

3

CAPITAL STRUCTURE AND RETURN ON EQUITY

4 Q. Has either Staff or Liberty Utilities provided rebuttal testimony on capital structure and 5 return on equity?

6 A. Yes. Staff witness David Murray filed rebuttal testimony on rate of return and capital structure 7 in support of Staff's proposed capital structure and return on equity. Liberty Utilities, through the 8 direct testimony of its witness Jill Schwartz, relies, problematically, on the testimony of Keith 9 Magee, who prepared testimony regarding cost of capital and served as a witness in a recent 10 Liberty Mid-States gas rate case (GR-2018-0013). The capital structure and return on equity Liberty Utilities is proposing for this water and sewer case, is completely reliant upon the attached 11 12 testimony of Liberty Utilities Witness Keith Magee from the gas rate case. His testimony, which has been attached to Ms. Schwartz's direct testimony, provides no risk analysis for a water utility 13 14 and was not prepared in connection with this case. Further, Ms. Schwartz provides no rationale regarding the applicability of the cost of capital parameters developed for a natural gas case to a 15 water and sewer case. 16

17

Q. Why do you say that Ms. Schwartz use of Mr. Magee's testimony from a different case is "problematic?"

A. Mr. Magee is not a witness to this case and therefore Silverleaf has no opportunity to ask questions about this testimony. The testimony does not analyze the risk profile of a water utility, and does not provide any support for a finding that the gas and water utility industries are similar.

CORE/9990000.7577/141764316.1

Policy choices should not be based on extraneous services having little connection to the case at
 hand,

Ms. Schwartz' proposal to use the same return on equity for this case as Mr. Magee developed for 3 a natural gas case implies that the business risk of the two industries is the same, which is 4 unreasonable. While Liberty Utilities (Missouri Water) and Liberty Mid-States are both utility 5 affiliates under the same parent company, the two industries do not have comparable business risk 6 profiles. Water utilities are generally completely vertically integrated, with the utility owning all 7 of the assets involved in the production and distribution of water. Natural gas utilities are 8 significantly less vertically integrated with different companies involved in the development of 9 natural gas supply, production, transmission and distribution. Water utilities do not have to 10 purchase their supply on an open market as gas utilities do. Gas utilities face competition from 11 12 electric utilities, whose product can also be used for cooking and heating. There is no alternative 13 commodity which can be substituted for water and sewer service. Also, gas is a flammable and combustible resource, unlike water. So, the transportation of gas carries safety risks that do not 14 15 occur with a water utility.

16

Given these factors, the business risk of water and sewer utilities is lower than that of natural gas utilities, not the same. Accordingly, I maintain the position in my direct testimony that a reasonable return on equity would range between 8.00 and 9.00 percent, employing the capital structure included in Staff Witness Paul Harrison's direct testimony.

CORE/9990000.7577/141764316.1

1 Q. Please summarize the content of Mr. Murray's rebuttal testimony.

A. Mr. Murray's testimony was filed in support of Staff's proposed capital structure and return on 2 3 equity in this case. Mr. Murray served as a Staff witness in the same Liberty Mid-States gas case 4 as Mr. Magee. Mr. Murray recommends employing the return on equity range and capital structure employed in his testimony in GR-2018-0013, rather than that of Mr. Magee. I note that the ALJ 5 6 in this case has required that Mr. Murray refile his rebuttal testimony without reference to GRS-7 2018-0013. I am at a disadvantage in being able to directly respond to Mr. Murray's rebuttal 8 testimony that will become part of the record in this docket, given the short window between the re-filing of Mr. Murray's rebuttal, and the deadline for surrebuttal testimony. 9

10

Q. Did Mr. Murray provide <u>direct</u> testimony regarding capital structure or return on equity?
 A. No. Mr. Murray's rebuttal testimony represents the first detailed analysis Staff has provided
 regarding these issues.

14

Q. Does this failure to file a detailed analysis with its case in chief create concerns forSilverleaf?

Yes. Because Staff waited until rebuttal to file its detailed analysis, Silverleaf was prevented from performing discovery and preparing rebuttal testimony on this analysis. Instead, Silverleaf's opportunity to rebut this testimony was limited to the much shorter time period before surrebuttal was due. Accordingly, Silverleaf filed a motion to strike portions of Mr. Murray's testimony as improper supplemental direct testimony. As mentioned above, that motion was granted and Mr. Murray will be re-filing his rebuttal testimony.

23

Q. To confirm, both Liberty and Staff are relying upon testimony from a natural gas case to support their proposed capital structure and return on equity in this case, correct?

A. That is correct. That said, it is noteworthy that while the method is the same (applying the gas 3 capital structure and return on equity to this case) the parameters used for capital structure and 4 return on equity differ. Mr. Magee's testimony from the gas case has been attached to Ms. 5 Schwartz' testimony in support of Liberty's proposed capital structure (53.00 percent equity, 47.00 6 percent debt) and return on equity (10.25 percent). Mr. Murray's rebuttal testimony has been filed 7 8 in support of Staff's capital structure (42.83 percent equity, 57.17 percent debt) and return on 9 equity (10.00 percent). As discussed in my rebuttal testimony, Staff's proposed capital structure is reasonable, while Liberty Utilities' is not. Further the return on equity proposed by both Liberty 10 and Staff are not reasonable. 11

12

Q. Taking into consideration the additional analysis provided by Mr. Murray, do you still believe Staff's proposed return on equity is unreasonable?

A. Yes, for three reasons. First, Mr. Murray proposes employing the same return on equity to this 15 water case as he developed for a natural gas case. The primary purpose of including return on 16 equity in the revenue requirement is to compensate the utility for the business risk it faces. Mr. 17 Murray indicates that it is reasonable to employ the same return on equity because both affiliates 18 (Liberty Utilities (Missouri Water) and Liberty Mid-States) are financed under the same corporate 19 structure and have similar business risk profiles. I disagree that the business risk profiles are the 20 same. The risks to water utilities are lower, for the reasons stated above. Accordingly, a more 21 appropriate range would between 8.00 and 9.00 percent, not the 10.00 percent proposed by Mr. 22 Murray. Second, as stated in my rebuttal testimony, Liberty Utilities (Missouri Water) is a state 23

operating subsidiary of a much larger parent company, which mitigates the overall business risk of the subsidiary company. Finally, Liberty Utilities current rate structure for Silverleaf water and sewer recovers approximately 35 percent of revenues in the fixed charge. Staff is proposing increasing this to 52 percent, which significantly mitigates weather risk and other factors, which causes customer usage to vary. Thus, the return on equity in this case should recognize the lower business risk accomplished by the desired rate design.

7

Q. Did Staff and Liberty Utilities propose a return on equity and capital structure in their Non-Unanimous Stipulation and Agreement filed on August 3?

10 A. The Non-Unanimous Stipulation and Agreement does include an agreed upon return on equity, but does not reference an agreed upon capital structure. This is unacceptable. The Commission 11 should <u>not</u> issue an order which is silent on capital structure, because it has a profound impact on 12 the revenue requirement used to develop the water and sewer rates for Silverleaf. For the purposes 13 14 of determining the revenue requirement, establishing a return on equity is meaningless without 15 also establishing the equity layer to which that return on equity is applied. If the Commission approves a 9.75 percent return on equity, but is silent on capital structure, Liberty Utilities could 16 17 be allowed up to a 9.75 percent overall rate of return¹. Staff has repeatedly emphasized the 18 appropriateness of a capital structure consisting of 42.83 percent equity and 57.17 percent debt, 19 which I support. If the Commission were to approve the 9.75 percent return on equity, it should be accompanied by a stated capital structure of 42.83 percent equity and 57.17 percent debt. 20

¹ The maximum allowed based on a capital structure consisting of 100.00 percent equity, and 0.00 percent debt.

1

CORRECTION TO STAFF'S DIRECT TESTIMONY

Q. You indicated in your direct testimony that Staff agreed to correct an error identified in
the calculation of Silverleaf's water rates. Has Staff provided rebuttal testimony correcting

4 this error?

A. Yes. Staff witness Matthew Barnes filed rebuttal testimony which included an explanation of the error and its resolution. Mr. Barnes also provided updated workpapers which include the revised Silverleaf water rate. **Tables 1 and 2** indicate an updated revenue proof which demonstrates that the Silverleaf water and sewer rates proposed in Staff's rebuttal testimony would recover Staff's proposed revenue requirement.



11 12

 Table 1: Water Rate Revenue Proof – Staff Rebuttal

 (Holiday Hills, Timber Creek, Ozark Mountain)

Rate	Units		Revenu			
Fixed Charge						
3/4"	644	\$	26.73	\$	206,568	
1"	21		45.44		11,451	
2"	80		106.92		102,642	
3"	10		294.03		35,283	
4"	3		374.22		<u>1</u> 3,472	
Total Fixed	758			\$	369,416	
Commodity Charge	36,510	\$	6.75	\$	246,311	
	Total	Wate	r Revenue	\$	615,727	
	Rebut	ttal W	orkpapers Variance	\$ \$	615,727 -	

Table 2: Sewer Rate Revenue Proof – Staff	Rebuttal
(Timber Creek, Ozark Mountain)	

Rate	Units		Charge	 Revenue
Fixed Charge				
3/4"	228	\$	34.02	\$ 93,087
1"	3		57.84	2,082
2"	14		180.32	30,294
	1_		340.23	 4,083
Total Fixed	246			\$ 129,546
Commodity Charge	8,187	\$	25.55	\$ 209,193
	Total	Sewe	r Revenue	\$ 338,739
	Rebu	ttal W	orkpapers	\$ 338,739
			Variance	\$ -

8

Q. Has Staff made any other changes in rebuttal testimony which impact the calculation of the Silverleaf water and sewer rates?

A. Yes. Mr. Harrison's rebuttal testimony indicates that Staff made further adjustments to the revenue requirement to reflect updated information they received regarding contributions in aid of construction (CIAC). This reduced the revenue requirement for the Silverleaf water and sewer systems by approximately \$11,000.

7

9

8 Q. Do these changes resolve the concern raised in your rebuttal testimony?

A. Yes. Staff has adequately addressed the specific Staff calculation errors I described in my
 rebuttal testimony. As described below, Liberty Utilities has not addressed the significant errors
 included in Liberty Utilities' direct testimony, and they remain unaddressed in Liberty Utilities'
 rebuttal testimony.

14

LIBERTY UTILITIES' PROPOSED RATE DESIGN

15 Q. Has Liberty Utilities' provided any rebuttal testimony regarding rate design?

A. Yes. Ms. Schwartz' testimony reiterates the company's proposal to consolidate the rates of the
KMB and Noel systems, or in the alternative consolidate the rates of at least the KMB systems.
The water and sewer rates for the Silverleaf systems are not addressed in Ms. Schwartz' testimony.
Accordingly, I remain concerned about the unexplained changes in Liberty's proposed Silverleaf
water and sewer rate structure.

Q. Other than the rate structure issues you previously identified, are there any other areas
 of ongoing concern which have not been addressed in Liberty Utilities' rebuttal testimony.

A. Yes. As discussed in my rebuttal testimony, Ms. Schwartz's direct testimony appears to 3 indicate agreement with Staff's revenue requirement in all areas except capital structure and return 4 on equity. But the difference between Staff and Liberty Utilities on capital structure and return on 5 equity do not explain the significant discrepancy between the revenue requirement proposed by 6 Liberty and that proposed by Staff for the Silverleaf Systems. Tables 3 and 4 indicate the revenue 7 proof for the rates proposed in Liberty Utilities' direct testimony. As indicated, these revenues 8 would exceed the revenue requirement proposed by Staff, both in direct testimony and rebuttal 9 testimony. 10

11

12

13 14

Table 3: Proposed Water Rates from JMS-2 (Holiday Hills, Timber Creek, Ozark Mountain)

			 	 			 	 			 Tatal
		3/4"	 1"	 1.5"		2"	 2.5"	 3"		4"	 Total
Rates											
Fixed (\$/Mo)	\$2	4.51	\$ 40.83	\$ -	\$	130.62	\$ -	\$		408.20	
Commodity	\$	9.74	\$ 12.88	\$ -	\$	5.69	\$ -	\$ 5.80	\$	5.80	
Units											
Accounts		648	21	-		81	-	10		3	763
Usage	15	,410	2,063	-		14,855	•	3,254		2,006	37,588
Revenues											
Fixed \$	\$ 190	,590	\$ 10,289	\$ -	\$1	26,963	\$ -	\$ 29,390	\$	14,695	\$ 371,927
Commodity \$	150	,093	26,571	-		84,525	 -	 18,873		11,635	 291,698
Total Revenue	\$ 340	,683	\$ 36,861	\$ -	\$2	11,488	\$ ~	\$ 48,264	\$	26,330	\$ 663,625
								St	aff	Rebuttal	\$ 615,727
									١	Variance	\$ 47,898
									Sta	ff Direct	\$ 620,270
									١	Variance	\$ 43,355

		3/4"		1"		1,5"	2"	 2.5"	 3"	• •	4"		Total
Rates			-		·			 	 	·			
Fixed	\$	57.97	\$	47.82	\$	95.62	\$ 153.00	\$ 229.50	\$ 286.88	\$	478.12		
Commodity	\$	30.91	\$	30.91	\$	30.91	\$ 30.91	\$ 30.91	\$ 30.91	\$	30.91		
Units													
Accounts		228		3		-	14	•	1		-		246
Usage		4,560		627		-	3,119	-	311		-		8,617
Revenues													
Fixed \$	\$ 15	58,606	\$	1,722	\$	-	\$ 25,704	\$ -	\$ 3,443	\$	-	\$	189,474
Commodity \$	14	40,950		19,381		-	96,408	-	9,613		-		266,351
Total Revenue	\$ 29	99,556	\$	21,102	\$	-	\$ 122,112	\$ -	\$ 13,056	\$	-	\$	455,825
									St	aff F	Rebuttal	\$	338,739
										١	/ariance	\$	117,086
										Sta	ff Direct	Ś	344,797
										1	ariance	\$	111,028

Table 4: Proposed Sewer Rates from JMS-2 (Timber Creek, Ozark Mountain)

5 Even accounting for Liberty Utilities' desired capital structure and return on equity, Liberty 6 Utilities has miscomputed and overstated the revenue requirement needed to service their desired capital structure and return on equity. The revenues which would be generated under the water 7 8 rates proposed in Ms. Schwartz's testimony (see Schedule JMS-2) would exceed the revenue 9 requirement proposed in Staff's rebuttal testimony by \$48,000 for the Silverleaf water systems 10 alone. The same is true of the sewer rates, which would over-recover the sewer revenue 11 requirement in Staff's rebuttal testimony by \$117,000. As discussed in my rebuttal testimony, this difference is too large to be explained by the differences in the capital structure and return on 12 13 equity proposed by Liberty and Staff. Excluding capital structure and return on equity, Liberty 14 Utilities has provided no testimony in support of a revenue requirement that differs from that being 15 proposed by Staff. In other words, approving Liberty Utilities' proposed revenue requirement 16 would allow the utility to significantly over-earn. The Commission must ensure that the revenue

1 2

3

1	requirement that it uses to set rates is the actual, calculated amount rather than the over-stated
2	numbers included in Liberty Utilities' testimony.
3	STAFF'S PROPOSED RATE DESIGN
4	Q. Has Staff made any changes to the proposed Silverleaf water and sewer rates since your
5	direct testimony?
6	A. Yes. Staff has revised the water rate design for Silverleaf water. In addition, Staff has reduced
7	the overall revenue requirement for the Silverleaf water and sewer systems as discussed above.
8	
9	Q. Have these changes alleviated any of the concerns regarding rate shock identified in your
10	direct testimony?
11	A. No. The overall increase in revenues as proposed by Staff still results in increases of 75 percent
12	and 68 percent for water and sewer, respectively. Further, the increases are still heavily weighted
13	toward the fixed customer charge, which places most of the burden of the large overall rate revenue
14	increase on the smallest volume users of the Silverleaf water and sewer systems and reduces the
15	incentive for ratepayers to use water responsibly, as stated in my rebuttal testimony. Consequently,
16	I maintain my proposal for an across the board increase to the Silverleaf water and sewer rate
17	schedules, as well as a 4-year phase-in of the proposed revenue increase.
18	
19	Q. Have you updated your rate design proposal and proposed phase-in to reflect the updated
20	revenue requirement presented by Staff in their rebuttal testimony?
21	A. I have. Tables 5 through 12 below represent updated impacts, alternative rate designs and
22	proposed phase-ins based on the revenue requirement presented in Staff's rebuttal testimony. For

CORE/9990000.7577/141764316.1

1 ease of reference, I have included the table number and page number of these same tables from

Table 5: Fixed and Variable Revenues

÷

• •

2 my rebuttal testimony.

3 4

5

	-		Existing		Staff Direct							Staff Rebuttal					
		Fixed	 Variable	 Total		Fixed		Variable	_	Total		Fixed		Variable		Total	
Water \$	\$	134,974	\$ 217,598	\$ 352,572	\$	478,601	\$	248,265	\$	726,867	\$	369,416	\$	246,311	\$	615,727	
Sewer \$		60,992	 141,150	202,142		132,736		212,382		345,118		129,546		209, 193		338,739	
Total \$	\$	195,965	\$ 358,748	\$ 554,714	\$	611,336	\$	460,648	\$	1,071,985	\$	498,962	\$	455,504	\$	954,466	
Water %		38%	62%	100.0%		66%		34%		100.0%		60%		40%		100.0%	
Sewer %		30%	70%	100.0%		38%		62%		100.0%		38%		62%		100.0%	
Total %		35%	65%	100.0%		57%		43%		100.0%		52%		48%		100.0%	
Water % ∆						255%		14%		106%		174%		13%		75%	
Sewer % ∆						118%		50%		71%		112%		48%		68%	
Total % A												155%		27%		72%	

6

7

8

9

10 11

Table 6: Monthly Water Bill Impacts (Holiday Hills, Timber Creek, Ozark Mountain) (Table 7, p. 19 in Rebuttal)

	 Existing	St	aff Direct	5	Staff Rebuttal
Usage (1,000 Gal.)	 2		2	·	2
Meter Size	3/4"		3/4"		3/4"
Fixed Charge	\$ 8.96	\$	31.81	\$	26.73
Commodity Rate	\$ 5.96	\$	6.80	\$	6.75
Fixed Portion of Bill	\$ 8.96	\$	31.81	\$	26.73
Commodity Portion of Bill	\$ 11,92	\$	13.60	\$	13.49
Total Bill	\$ 20.88	\$	45.41	\$	40.22
% Increase (Fixed)			255.0%		198.3%
% Increase (Commodity)			14.1%		13.2%
% Increase Bill			117.5%		92.6%

Table 7: Monthly Water Bill Impacts (Holiday Hills, Timber Creek, Ozark Mountain) (Table 8, p. 19 in Rebuttal)

	Ē	xisting	Sta	ff Direct	Sta	aff Rebuttal
Usage (1,000 Gal.)		1		1		1
Meter Size		3/4"		3/4"		3/4"
Fixed Charge	\$	16.00	\$	34.86	\$	34.02
Commodity Rate	\$	17.24	\$	25.94	\$	25.55
Fixed Portion of Bill	\$	16.00	\$	34.86	\$	34.02
Commodity Portion of Bill	\$	17.24	\$	25.94	\$	25,55
Total Bill	\$	33.24	\$	60.80	\$	59.57
% Increase (Fixed)				117.9%		112.6%
% Increase (Commodity)				50.5%		48.2%
% Increase Bill				82.9%		79.2%

Table 8: Monthly Water Bill Impacts – 3/4" Meter (Holiday Hills, Timber Creek, Ozark Mountain) (Table 9, p. 20 in Rebuttal)

		20th		40th	Ν	Aedian		60th		80th
	Pe	rcentile	Pe	rcentile			Pe	rcentile	Pe	rcentile
Existing Structure										
Fixed	\$	8,96	\$	8,96	\$	8,96	\$	8.96	\$	8.96
Commodity	\$	5.96	\$	5.96	\$	5.96	\$	5.96	\$	5.96
Staff Direct										
Fixed	\$	31.81	\$	31.81	\$	31.81	\$	31,81	\$	31.81
Commodity	\$	6.80	\$	6.80	\$	6.80	\$	6.80	\$	6.80
Staff Rebuttal										
Fixed	\$	26.73	\$	26.73	\$	26.73	\$	26.73	\$	26.73
Commodity	\$	6,75	\$	6.75	\$	6.75	\$	6.75	\$	6.75
Bill Impact (at Rebu	Ittal	Rates)								
Usage (gal.)		-		460		900		1,492		2,832
Existing	\$	8.96	\$	11.70	\$	14.32	\$	17.85	\$	25.84
Proposed	\$	26.73	\$	29.83	\$	32.80	\$	36.80	\$	45.84
\$ Change	\$	17.77	\$	18.13	\$	18,48	\$	18.94	\$	20.00
% Change		198.3%		154.9%		129.0%		106.1%		77.4%

11

, . · ·

1 2

3 4

5

6

7

8

9 10

ı

		20th		40th		1edian		60th	80th		
	Ре	rcentile	Pe	rcentile	EV	leulan	Pe	rcentile	Percentile		
Existing Structure											
Fixed	\$	16.00	\$	16.00	\$	16.00	\$	16.00	\$	16.00	
Commodity	\$	17.24	\$	17.24	\$	17.24	\$	17.24	\$	17.24	
Staff Direct											
Fixed	\$	34.86	\$	34.86	\$	34,86	\$	34.86	\$	34.86	
Commodity	\$	25.94	\$	25.94	\$	25.94	\$	25.94	\$	25.94	
Staff Rebuttal											
Fixed	\$	34.02	\$	34.02	\$	34.02	\$	34.02	\$	34.02	
Commodity	\$	25,55	\$	25.55	\$	25.55	\$	25.55	\$	25.55	
Bill Impact (at Reb	utta	al Rates)									
Usage (gal.)		-		210		500		840		2,138	
Existing	\$	16.00	\$	19.62	\$	24.62	\$	30.48	\$	52.85	
Proposed	\$	34.02	\$	39.39	\$	46.80	\$	55.49	\$	88.64	
\$ Change	\$	18.02	\$	19.77	\$	22.18	\$	25.00	\$	35.79	
% Change		112.6%		100.8%		90.1%		82.0%		67.7%	

Table 9: Monthly Scwer Bill Impacts – 3/4" Meter (Timber Creek, Ozark Mountain) (Table 10, p. 21 in Rebuttal)

· · · · ·

Table 10: Across the Board Water Rate Increase vs. Staff Rebuttal (Holiday Hills, Timber Creek, Ozark Mountain) (Table 11, p. 23 in Rebuttal)

Rate	E>	disting		Acros the Boa		Staff Rebuttal			
	C	harge	C	Charge	%Δ	C	harge	%Δ	
Fixed Charge									
3/4"	\$	8.96	\$	15.65	74.6%	\$	26.73	198.3%	
1"		14.93		26.07	74.6%		45.44	204.4%	
2"		47.76		83.41	74.6%	1	106.92	123.9%	
3"		89.55		156.39	74.6%	2	94.03	228.3%	
4 ¹¹		149.25		260.65	74.6%	3	374.22	150.7%	
Total Fixed									
Commodity Charge	\$	5.96	\$	10.41	74.6%	\$	6.75	13.2%	
Fixed %		38.3%		38.3%			60.0%		
Variable %		61.7%		61.7%			40.0%		

.

Table 11: Across the Board Sewer Rate Increase vs. Staff Rebuttal (Timber Creek, Ozark Mountain) (Table 12, p. 24 in Rebuttal)

Rate	E	xisting		Acros the Boa	-	Staff Rebuttal			
	C	harge	- (Charge	%Δ	Charge	%Δ		
Fixed Charge									
3/4"	\$	16.00	\$	26.81	67.6%	\$ 34.02	112.6%		
1"		26.67		44.69	67.6%	57.84	116.9%		
2"		85.33		142.99	67.6%	180.32	111.3%		
3"		160.00		268.12	67.6%	340.23	112.6%		
Total Fixed		- -			-				
Commodity Charge	\$	17.24	\$	28.89	67.6%	\$ 25.55	48.2%		
Fixed %		30.2%		30.2%		38,2%			
Variable %		69.8%		69.8%		61.8%			

Table 12: Fixed Charge² Comparison(Table 13, p. 25 in Rebuttal)

	1	Water	Sewer		
Missouri American Water	\$	9.00			
St. Louis MSD Sewer			\$	21.52	
Kansas City Water Services	\$	14.10	\$	21.30	
Lee's Summit	\$	9.95	\$	14.15	
Columbia	\$	9.75	\$	12.25	
Cape Giradeau	\$	8.48	\$	12.69	
Average	\$	10.26	\$	16.38	
Silverleaf Water and Sewer					
Existing	\$	8,96	\$	16.00	
Across the Board	\$	15.65	\$	26.81	
Staff Rebuttal	\$	26.73	\$	34.02	

² For utilities that have a meter size based fixed charge, charge is based on smallest meter size.

Rate	E	xisting	Pr	oposed	. <u> </u>	'ear 1		Year 2	Year3		3 Year 4		Year 5		
	(Charge	0	harge	C	harge	0	harge		Charge	C	Charge		Charge	
Fixed Charge															
3/4"	\$	8.96	\$	15.65	\$	10.30	\$	13.62	\$	17.30	\$	21.37	\$	15.65	
1"		14.93		26.07		17.16		22.70		28.82		35.61		26.07	
2"		47.76		83.41		54.90		72.62		92.20		113.91		83.41	
3"		89.55		156.39		102.94		136.16		172.88		213.58		156.39	
4"		149.25		260.65		171.57		226.93		288.13		355.96		260.65	
Commodity Charge	\$	5.96	\$	10.41	\$	6.85	\$	9.06	\$	11.51	\$	14.21	\$	10.41	
		Table						ewer R Mount		ncreas	9				
								ebuttal							
Rate	E>	isting	Pro	posed	Y	ear 1	Y	′ear 2		/ear 3	Y	'ear 4)	/ear 5	
					-		~ ~	1	· ·	harge	C	1			
	C	harge	C	harge	CI	narge	ι	harge	L L	Haige	Ļ	harge	C	harge	
Fixed Charge	C	harge	C	harge	CI	narge	ι	harge	, c	HaiRe	Ľ	narge	C	harge	
Fixed Charge 3/4"	Ci \$	harge 16.00	Cl \$	harge 26.81	сі \$	18.20	ر \$	narge 23.58	\$	29.48	\$	narge 35.98	¢	harge 26.81	

97.09

182,04

19,62

142.99

268.12

28.89 \$

125.76

235.81

25,41

\$

\$

157.25

294,85

31.77

191.87

359.78

38.77

\$

\$

142.99

268.12

28,89

Table 13: 4-Year Phase-In of Water Rate Increase (Holiday Hills, Timber Creek, Ozark Mountain) (Table 14, p. 26 in Rebuttal)

Ч. Ч. _с. с

12 13

1

2

3

14 Q. Does this conclude your surrebuttal testimony?

\$

85.33

160.00

17.24 \$

15

16 A. Yes.

2"

3"

Commodity Charge