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Exhibit No. 100

Staff – Exhibit 100 Clark Direct File No. WR-2023-0344

Exhibit No.: Issue(s): Rate Design Witness: Melanie Clark Sponsoring Party: MoPSC Staff Type of Exhibit: Direct Testimony Case No.: WR-2023-0344 Date Testimony Prepared: October 10, 2023

MISSOURI PUBLIC SERVICE COMMISSION

INDUSTRY ANALYSIS DIVISION

WATER, SEWER & STEAM DEPARTMENT

DIRECT TESTIMONY

OF

MELANIE CLARK

THE RAYTOWN WATER COMPANY

CASE NO. WR-2023-0344

Jefferson City, Missouri October 2023

1		DIRECT TESTIMONY OF
2		MELANIE CLARK
3		THE RAYTOWN WATER COMPANY
4		CASE NO. WR-2023-0344
5	Q.	Please state your name and business address.
6	А.	My name is Melanie Clark and my business address is 200 Madison Street,
7	P.O. Box 360	, Jefferson City, Missouri 65102.
8	Q.	By whom are you employed and in what capacity?
9	А.	I am employed by the Missouri Public Service Commission ("Commission") as
10	a Lead Senior	Utility Regulatory Auditor in the Water, Sewer, & Steam Department, Industry
11	Analysis Divi	sion.
12	Q.	Please describe your educational background and work experience.
13	А.	I graduated from Columbia College in April 2020 with a Master's of Business
14	Administratio	on Degree with an emphasis in Accounting. Prior to accepting my current position
15	with the Com	mission in October of 2022, I was employed by the Missouri Department of Social
16	Services as an	Accountant Supervisor from September 2020 to October 2022, where one of my
17	duties was to	assure compliance with grant laws and regulations.
18	Q.	What is the purpose of this direct testimony?
19	А.	The purpose of this direct testimony is to provide the Commission with Staff's
20	("Staff") reco	mmended rate design for The Raytown Water Company ("Raytown") rate case.
21	Q.	What is the purpose of Staff's rate design?
22	А.	The purpose is to design rates that are just and reasonable, and can be utilized
23	by a company	to collect the total revenue requirement. Staff seeks to maintain predictability for

Direct Testimony of Melanie Clark

1	customers wl	here possible and avoid rate shocks, while also maintaining an opportunity for the
2	company to r	remain financially stable, and continue to provide safe and adequate service.
3	Q.	What is the current rate structure?
4	А.	The rate structure currently consists of a fixed monthly customer charge and a
5	commodity (usage) charge.
6	Q.	Is Staff proposing to change the current rate structure?
7	А.	No. Staff believes the current rate structure is appropriate for Raytown.
8	Q.	How did Staff develop the proposed customer charge?
9	А.	The customer charge was developed using costs that are generally considered
10	fixed, and us	ed primarily to serve a particular customer (such as meters and service lines), and
11	the number of	of customers. These 'fixed' costs do not generally vary by how much water a
12	company pro	duces or sells.
13	Q.	How did Staff develop the proposed commodity charges?
14	А.	Commodity charges are generally composed of costs that vary with water
15	production, s	uch as electricity for pumping, chemical use, etc. As these costs vary with usage,
16	the customer	charge will vary to appropriately covers these costs. Staff believes the proposed
17	commodity c	harge effectively recovers the variable costs.
18	Q.	How did Staff design its proposed rates?
19	А.	Staff's rate design for Raytown's water operations is based on the revenue
20	requirement	developed by Staff's Auditing Department. This revenue requirement is
21	\$4,309,019,	an increase of \$1,174,782. After applying the general principles discussed
22	previously, S	Staff reviews the resulting rates and may make adjustments that are reasonable.
23	Staff's result	s of proposed reasonable rates are provided in Schedule MC-d2, attached to this

Direct Testimony of Melanie Clark

testimony. For further details on the revenue requirement please see the direct testimony of 1 2 Staff witness Keith D. Foster. 3 What are the current rates for Raytown? Q. Raytown currently has a customer charge for its water utility systems ranging 4 A. 5 from \$12.86 to \$178.31, based on meter size. For an average residential customer on a 5/8" meter, the customer charge is \$12.86. The commodity charge per 1,000 gallons of water used 6 is \$8.08. 7 8 Q. Did Staff perform a Class Cost of Study (CCOS) in this rate case? 9 A. No, the commercial and residential consumers have the same cost of service. 10 There is no additional treatment or distribution equipment to support the commercial customers, 11 and there are no unique costs to Raytown to service the existing commercial customers. 12 Therefore, only one customer class exists, and it is not necessary to complete a CCOS is 13 this case. 14 Q What will be the impact to a typical residential customer under Staff's proposal? 15 A. A typical residential customer will see an increase of \$13.59. The customer 16 charge on a 5/8" meter will increase from \$12.86 to \$20.53, and the commodity charge will 17 increase from \$8.08 to \$9.56. A customer with a 5/8" meter using 4,000 gallons of water per 18 day will see their bill increase from \$45.18 to \$58.77. 19 Q. Did Staff and Raytown reach an agreement on the rates? 20 A. Yes, Raytown is in agreement with Staff that these rates are reasonable and 21 appropriate to collect the agreed upon revenue requirement. 22 Q. Does this conclude your direct testimony? 23 A. Yes, it does.

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

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In the Matter of the Application of a Rate Increase of Raytown Water Company Case No. WR-2023-0344

AFFIDAVIT OF MELANIE CLARK

SS.

STATE OF MISSOURI)) COUNTY OF COLE)

COMES NOW MELANIE CLARK and on her oath declares that she is of sound mind and lawful age; that she contributed to the foregoing *Direct Testimony of Melanie Clark*; and that the same is true and correct according to her best knowledge and belief.

Further the Affiant sayeth not.

MELANIE CLARK

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 10^{+-1} day of October 2023.

Dunne L. Vaurt Notary Public

DIANNA L. VAUGHT Notary Public - Notary Seal State of Missouri Commissioned for Cole County My Commission Expires: July 18, 2027 Commission Number: 15207377

Melanie Clark

Present Position:

I am a Lead Senior Utility Regulatory Auditor, Water, Sewer, and Steam Department, Industrial Analysis Division of the Missouri Public Service Commission. As a Lead Senior Utility Regulatory Auditor, my duties include managing cases before the Commission for the Water, Sewer, and Steam Department, creating rate design and class cost of service studies, and I conduct research and analysis of the financial aspects of public utility operations.

Educational Credentials and Work Experience:

I completed an Associate in Science in Business Administration from Columbia College in 2016. In April 2018, I earned my Bachelors of Science in Business Administration majoring in Accounting and Finance with a minor in Management from Columbia College. Finally in April 2020, I completed the MBA program with an emphasis in Accounting from Columbia College. I have worked in finance, auditing, and governmental accounting with over 15 years of experience.

Company Name	Case Number(s)	Testimony/Issues
Missouri American Water Company	WA-2023-0345	Acquisition of Wood Heights
Missouri American Water Company	WO-2023-0008	WSIRA Recommendation
Evergy Missouri West	HT-2022-0284	QCA Rate Filing
Vicinity Kansas City, Inc.	HT-2023-0247	PACC Rate Filing
Evergy Missouri West	HT-2023-0360	QCA Rate Filing
Evergy Missouri West	НО-2023-0357	Prudence Review

Case Participation:

THE RAYTOWN WATER COMPANY Rate Making Income Statement-Water

ent Rates	
\$	3,884,609
\$	424,412
\$	4,309,019
	ent Rates \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

Account No. Cost of Service	
Item	Amount
602.000 Purchased Water	\$ 1,396,830
660.000 Operation Supervision & Engineering - TDE	\$ 85,485
662.000 Transmission & Distribution Lines Expenses	\$ 48,616
663.000 Meter Expenses - TDE	\$ 536
672.000 Maint. of Dist. Reservoirs & Standpipes - TDE	\$ 29,512
673.000 Maint. of Transmission & Distribution Mains	\$ 490,641
675.000 Maint. of Services - TDE	\$ 4,584
676.000 Maint. of Meters - TDE	\$ 5,254
677.000 Maint. of Hydrants - TDE	\$ 1,318
902.000 Meter Reading Expenses - CAE	\$ 170,755
903.000 Customer Records & Collection Expenses	\$ 318,392
904.000 Uncollectible Amounts - CAE	\$ 19,648
907.000 Safety Meeting / Safety Equipment	\$ 63,686
920.000 Admin. & General Salaries	\$ 292,954
921.000 Office Supplies & Expenses	\$ 219,075
921.100 ROW Permits	\$ 39,125
922.000 Admin. Expenses Transferred - Credit	\$ (81,821)
923.000 Outside Services Employed	\$ 282,424
923.500 Main GIS Mapping	\$ (1,717)
924.000 Property Insurance	\$ 68,100
925.000 Injuries & Damages	\$ 26,814
926.000 Employee Pensions & Benefits	\$ 344,617
928.000 Regulatory Commission Expenses	\$ 45,475
930.210 Board Reports & Directives	\$ 4,494
930.200 Misc. General Expenses	\$ 29,667
930.300 R & D Expenses (Education)	\$ 13,685
930.400 Pre-Employment Drug Screening	\$ 1,960
932.000 Maint. of General Plant - AGE	\$ 37,014
403.000 Depreciation Expense, Dep. Exp.	\$ 599,613
0.000 Plastic Meters Depreciation Offset	\$ (29,288)
421.000 Amortization of CIAC	\$ (18,131)
431.100 Interest on Customer Deposits	\$ 14,794
431.200 Other Penalty / Interest Expense	\$ 938
471.270 Trash Bag Expense	\$ 3,862

403.000 EIERA Issuance Costs	\$ 7,662
408.100 Property Taxes	\$ 144,427
408.000 Employer FICA/FUTA/SUTA	\$ 80,063
Sub-Total Operating Expenses	\$ 4,761,063
0.000 Current Income Taxes	\$ (177,703)
0.000 Deferred Income Taxes - Def. Inc. Tax	\$ 28,382
0.000 Additional Current Tax Required	\$ 280,070
934.000 Amortization of 2018 Deferred Tax (TCJA)	\$ (29,939)
Sub-Total Taxes	\$ 100,810
Interest on Long-Term Debt ¹	\$ 130,220
Interest on Preferred Stock ²	\$ 44,077
Return on Equity ³	\$ 447,631
Sub-Total Long-Term Debt & Return On Equity	\$ 621,928
Total Cost of Service	\$ 5,483,801
Overall Revenue Increase Needed	\$ 1,174,782

¹ Rate Base x Cost of Long-term Debt ² Rate Base x Cost of Preferred Stock

³ Rate Base x Cost of Equity (Mid-point)

Rate Base	\$ 9,144,649
Cost of Long-Term Debt	1.424%
Cost of Preferred Stock	0.482%
Cost of Equity	4.895%

Revenue Annualizations at Current Rates-Water

Annualized Customer Counts and Customer Charge Revenues

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	Residantial Me	tered C	ustomers	
Meter Size	Residential]	Rate *	Annual Revenue
5/8"	6,083	\$	12.86	\$ 938,729
1"	80	\$	23.33	\$ 22,397
1.5"	14	\$	40.54	\$ 6,811
2"	26	\$	61.24	\$ 19,107
3"	9	\$	109.46	\$ 11,822
4"	1	\$	178.31	\$ 2,140
Total	6,213			\$ 1,001,006

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*Monthly Service Charge

	Commercial Metered Customers								
Meter Size	Commercial]	Rate *		Annual Revenue				
5/8"	242	\$	12.86	\$	37,345				
1"	74	\$	23.33	\$	20,717				
1.5"	27	\$	40.54	\$	13,135				
2"	39	\$	61.24	\$	28,660				
3"	2	\$	109.46	\$	2,627				
4"	0	\$	178.31	\$	-				
Total	384			\$	102,484				

*Monthly Service Charge

Annualized Commodity Sales - Volumes and Revenues

Residential Commodity Sales								
Meter Size	Residential		Rate		Annual Revenue			
5/8"	25,548,600	\$	8.08	\$	2,064,327			
1"	1,440,000	\$	8.08	\$	116,352			
1.5"	221,200	\$	8.08	\$	17,873			
2"	1,549,600	\$	8.08	\$	125,208			
3"	1,249,200	\$	8.08	\$	100,935			
4"	326,700	\$	8.08	\$	26,397			
Total	30,335,300	-		\$	2,451,093			

*Volumes adjusted as needed per net revenue annualization at current rates.

Commercial Commodity Sales

Meter Size	Commercial	Rate	Annual Revenue
5/8"	1,040,600	\$ 8.08	\$ 84,080
1"	540,200	\$ 8.08	\$ 43,648
1.5"	496,800	\$ 8.08	\$ 40,141
2"	1,696,500	\$ 8.08	\$ 137,077
3"	68,600	\$ 8.08	\$ 5,543
4"	-	\$ 8.08	\$ -
Total	3,842,700		\$ 310,490

*Volumes adjusted as needed per net revenue annualization at current rates.

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Private Fire Hydrants and Automatic Sprinkler Systems Annual Charge

Code	Number of Meter Size		# of Customers	Та	riff Rate	 nual Per ustomer	Ann	ual Customer Charge
	Fire Hydrants and Auton	natic Sprinkler Systems						
FA (500)	1	PVT F Hyd/F Lines	35	\$	236.17	\$ 236.17	\$	8,266
FB (501)	2	PVT F Hyd/F Lines	16	\$	236.17	\$ 472.34	\$	7,557
FC (502)	3	PVT F Hyd/F Lines	1	\$	236.17	\$ 708.51	\$	709
FD (503)	4	PVT F Hyd/F Lines	0	\$	236.17	\$ 944.68	\$	-
FE (504)	1	4" F/Line Standpipe	4	\$	112.10	\$ 112.10	\$	448
FF (505)	1	8" F/Line Standpipe	3	\$	425.08	\$ 425.08	\$	1,275
			59	•			\$	18,256
FG (506)	2	F/H-1ea. 4",6 PVT F Hyd/F Lines		\$	211.48	\$ 422.96	\$	423
	1	4" F/Line Standpipe	;	\$	112.10	\$ 112.10	\$	112
	1	6" F/Line Standpipe	;	\$	236.17	\$ 236.17	\$	236
	1	8" F/Line Standpipe	1	\$	425.08	\$ 425.08	\$	425
FH (507)		< or = 2" F/Line Standpipe	3	\$	28.18	\$ 28.18	\$	85
		10" Standpipe		\$	717.52	\$ 717.52	\$	-
	TOTA	ALS	63	•			\$	1,281

Total Fire \$ 19,536

Other Operating Revenues					
Late Charges	\$ 93,090				
Metered Sales of Bulk Water	\$ 5,716				
NSF Checks - Charges	\$ 2,315				
Off/On During Hours	\$ 79,690				
KC Public Water Sales Revenue	\$ 8,904				
Antenna Rents Revenue	\$ 166,505				
Discounts Earned	\$ 2,807				
Trash Bags Revenue	\$ 5,664				
9820 Building Revenue	\$ -				
Multi Other Miscellaneous	\$ 59,721				
Total Other Revenues	\$ 424,412				

Total Operating Revenu	es	
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Residential Customer Charge	\$ 1,001,006
Residential Commodity Charge	\$ 2,451,093
Total Residential Revenues	\$ 3,452,099
Commercail Customer Charge	\$ 102,484
Commercial Commodity Charge	\$ 310,490
Total Commercial Revenues	\$ 412,974
Private Fire	\$ 18,256
Automatic Sprinkler System	\$ 1,281
Total Fire Revenues	\$ 19,536
Sub-Total Tariffed Rate Revenues	\$ 3,884,609
Other Operating Revenues	\$ 424,412
Total Operating Revenues	\$ 4,309,019

THE RAYTOWN WATER COMPANY

Development of Tariffed Rates-Water

Staff proposes to increase currently tariffed rates by a percentage equal to the agreed-upon overall revenue increase divided by the revenues generated by the currently tariffed rates.

Revenues Generated by Current Tariffed Rates	\$ 4,309,019
Agreed-Upon Overall Revenue Increase	\$ 1,174,782
Percentage Increase Needed	27.263%

	Metered Customer Rates									
Meter	Current Service		1		Current Usage		Proposed Usage			
Size	(Charge	(Charge]	Rate		Rate		
5/8"	\$	12.86	\$	20.53	\$	8.08	\$	9.56		
1"	\$	23.33	\$	37.25	\$	8.08	\$	9.56		
1.5"	\$	40.54	\$	64.73	\$	8.08	\$	9.56		
2"	\$	61.24	\$	97.78	\$	8.08	\$	9.56		
3"	\$	109.46	\$	174.78	\$	8.08	\$	9.56		
4"	\$	178.31	\$	284.71	\$	8.08	\$	9.56		

Private Fire Hydrants and Automatic Sprinkler Systems

	C	Current	Proposed				
	(Charge	Charge				
Fire Hydrant	\$	236.17	\$	378.97			
Sprinkler							

Meter Size				
2" or less	\$	28.18	\$	45.73
4"	\$	112.10	\$	181.90
6"	\$	236.17	\$	383.22
8"	\$	425.08	\$	689.75
10"	\$	631.28	\$	1,024.34
6" 8"	\$ \$	236.17 425.08	\$ \$	383. 689.

Revenue Annualizations at Proposed Rates-Water

Annualized Customer Counts and Customer Charge Revenues

Residential Customer Charge									
Meter Size	Residential		Rate *	Annual Revenue					
5/8"	6,083	\$	20.53	\$	1,498,899				
1"	80	\$	37.25	\$	35,762				
1.5"	14	\$	64.73	\$	10,875				
2"	26	\$	97.78	\$	30,509				
3"	9	\$	174.78	\$	18,876				
4"	1	\$	284.71	\$	3,417				
Total	6,213			\$	1,598,337				

*Monthly Service Charge

	Commercial Customer Charge									
Meter Size	er Size Commercial			Annual Revenue						
5/8"	242	\$	20.53	\$	59,631					
1"	74	\$	37.25	\$	33,080					
1.5"	27	\$	64.73	\$	20,973					
2"	39	\$	97.78	\$	45,763					
3"	2	\$	174.78	\$	4,195					
4"	0	\$	284.71	\$	-					
Total	384			\$	163,641					

*Monthly Service Charge

Annualized Commodity Sales - Volumes and Revenues

Meter Size	Residential*	Rate	Annual Revenue
5/8"	25,548,600	\$ 9.56	\$ 2,441,342
1"	1,440,000	\$ 9.56	\$ 137,602
1.5"	221,200	\$ 9.56	\$ 21,137
2"	1,549,600	\$ 9.56	\$ 148,075
3"	1,249,200	\$ 9.56	\$ 119,370
4"	326,700	\$ 9.56	\$ 31,218
Total	30,335,300		\$ 2,898,743

*Volumes adjusted as needed per net revenue annualization at current rates.

Annualized Commodity Sales - Volumes and Revenues								
Meter Size	Commercial*	Rate			Revenue			
5/8"	1,040,600	\$	9.56	\$	99,436			
1"	540,200	\$	9.56	\$	51,620			
1.5"	496,800	\$	9.56	\$	47,473			
2"	1,696,500	\$	9.56	\$	162,112			
3"	68,600	\$	9.56	\$	6,555			
4"	-	\$	9.56	\$	-			
Total	3,842,700			\$	367,196			

*Volumes adjusted as needed per net revenue annualization at current rates.

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Private Fire Hydrants and Automatic Sprinkler Systems Annual Charge											
Code	Number of Hydrants/Lines	Meter Size		Customers as of	Proposed Rate		Annual Customer		A	Annual Fire	
Fire Hydrants and Automatic Sprinkler Systems											
FA (500)	1	PVT F Hyd/F Lines		35	\$	378.97	\$	378.97	\$	13,264	
FB (501)	2	PVT F Hyd/F Lines		16	\$	378.97	\$	757.93	\$	12,127	
FC (502)	3	PVT F Hyd/F Lines		1	\$	378.97	\$	1,136.90	\$	1,137	
FD (503)	4	PVT F Hyd/F Lines		0	\$	378.97	\$	1,515.86	\$	-	
FE (504)	1	4" F/Line Standpipe		4	\$	181.90	\$	181.90	\$	728	
FF (505)	1	8" F/Line Standpipe		3	\$	689.75	\$	689.75	\$	2,069	
			-	59	•				\$	29,324	
FG (506)	2	F/H-1ea. 4", FVT F	Hyd/F Li	nes	\$	378.97	\$	757.93	\$	758	
	1	4" F/Li	ine Standp	oipe	\$	181.90	\$	181.90	\$	182	
	1	6" F/Li	6" F/Line Standpipe		\$	383.22	\$	383.22	\$	383	
	1	8" F/Li	ine Stand	1	\$	689.75	\$	689.75	\$	690	
FH (507)		< or = 2" F/Line Standpipe 3		\$	45.73	\$	45.73	\$	137		
,		10" Sta	andpipe	0	\$	1,024.34	\$	1,024.34	\$	-	
	TOTALS		-	63					\$	2,150	

Other Operating Revenues				
Late Charges	\$	93,090		
Metered Sales of Bulk Water	\$	5,716		
NSF Checks - Charges	\$	2,315		
Off/On During Hours	\$	79,690		
KC Public Water Sales Revenue	\$	8,904		
Antenna Rents Revenue	\$	166,505		
Discounts Earned	\$	2,807		
Trash Bags Revenue	\$	5,664		
9820 Building Revenue	\$	-		
Multi Other Miscellaneous	\$	59,721		
Total Other Revenues	\$	424,412		

Total	Oneveting	Dovonuos
1 0121	Operating	Revenues

Residential Customer Charge	\$ 1,598,337
Residential Commodity Charge	\$ 2,898,743
Total Residential Revenues	\$ 4,497,080
Commercial Customer Charge	\$ 163,641
Commercial Commodity Charge	\$ 367,196
Total Commercial Revenue	\$ 530,837
Private Fire	\$ 29,324
Automatic Sprinkler System	\$ 2,150
Total Fire Revenues	\$ 31,474
Sub-Total Tariffed Rate Revenues	\$ 5,059,391
Other Operating Revenues	\$ 424,412
Total Revenues at Proposed Rates	\$ 5,483,803

Revenue Check - Proposed Rates vs. Current RatesTotal Revenues at Proposed Rates\$ 5,483,803Total Revenues at Current Rates\$ 4,309,019Increase In Revenues at Proposed Rates\$ 1,174,784Agreed-Upon Increase in Operating Revenues\$ 1,174,782

Note: The difference between Increase Revenues at Proposed Rates and Agreed-Upon Increase in Operating Revenues is due to rounding in the EMS Run and further calculations.

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Total Fire \$ 31,474

THE RAYTOWN WATER COMPANY

Residential Customer Bill Comparison-Water

Rates for 5/8" Meter				
Proposed Base	Current	Proposed		
Customer Charge	Usage Rate	Usage Rate		
\$20.53	\$8.08	\$9.56		
	Proposed Base Customer Charge	Proposed BaseCurrentCustomer ChargeUsage Rate		

Current service charge is monthly charge. Usage rate is per 1,000 gallons used.

MONTHLY BILL COMPARISON 4,000 gallons/month usage **Current Rates** Customer Charge 12.86 \$ Usage Charge \$ 32.32 Total Bill \$ 45.18 **Proposed Rates** Customer Charge \$ 20.53 Usage Charge \$ 38.24 Total Bill \$ 58.77 **INCREASES Customer Charge §** Increase \$7.67 % Increase 59.673% **Usage Charge §** Increase \$5.92 % Increase 18.317%

Total Bill\$ Increase\$13.59% Increase30.089%