



March 16, 2020

Mr. Kasey Emmick, Manager
East Daviess County Water Association
9210 KY 144
Philpot, KY 42366-9743

Re: Wholesale Water Rate Increase

Dear Kasey:

We have made the required rate calculations for fiscal year 2020-2021, as per the terms of our contract. A copy of these calculations is enclosed, as well as a copy of the fiscal year 2018-2019 true-up calculations.

Based on these calculations, the rate charged to the East Daviess County Water Association will increase to a rate of \$1.94 per thousand gallons for the fiscal year beginning June 1, 2020.

The ultimate per unit cost to EDCWA is dependent upon annual water usage and the costs contractually allocated to your association. Future year calculations may result in fluctuations in the rate per thousand gallons. The formal calculation will continue to be prepared annually.

Please contact me with any questions, or if you need further information.

Sincerely,



Kevin D. Frizzle
General Manager

Cc: Kentucky Public Service Commission
L. Holland, B. Howton, T. Lyons, J. Potts

Enclosures

NOTICE

Owensboro Municipal Utilities (“OMU”) has filed a proposed rate schedule which will adjust the rate for water service provided as follows:

	<u>Current Rate</u>	<u>Proposed Rate</u>	<u>% Difference</u>
Southeast Daviess County Water District	\$1.890 per 1000 gallons	\$2.350 per 1000 gallons	24.34% increase
West Daviess County Water District	\$2.270 per 1000 gallons	\$2.800 per 1000 gallons	23.35% increase
East Daviess County Water Association	\$1.630 per 1000 gallons	\$1.940 per 1000 gallons	19.02% increase

The proposed effective date is June 1, 2020.

The rates contained in this notice are the rates proposed by OMU. However, the Public Service Commission may order rates to be charged that differ from the proposed rates contained in this notice.

Any corporation, association, or person with a substantial interest in the matter may, by written request, within thirty (30) days after publication or mailing of this notice of the proposed rate changes request to intervene. Intervention may be granted beyond the thirty (30) day period for good cause shown.

Any person who has been granted intervention by the Public Service Commission may obtain copies of the rate application and any other filings made by OMU by contacting the General Manager, Kevin D. Frizzell, at the offices of OMU, 2070 Tamarack Road in Owensboro, Kentucky; telephone 270-926-3200.

Any person may examine the rate application and other filings made by OMU by visiting the offices of OMU at 2070 Tamarack Road in Owensboro, or by contacting the Public Service Commission at 211 Sower Boulevard in Frankfort, Kentucky; telephone 502-564-3940; psc.ky.gov.

Analysis: Proforma Charges to Wholesale Customers
Fiscal Year Ending May 31, 2020
Estimate for FY 2021 Rate

Line			FY 1991 Amount	FY 1991 Reference	Inflation Factor	Growth Factor	Calculated Growth Factor	FY 2020 Amount	
1.000									
1.001									
1.002									
1.003									
1.004									
1.005	<u>Water System Demands and Usage</u>							29 Years	
1.006									
1.007	System Annual Quantity	Mil. Gal.	4,846	+S10.050	0%	-0.43%	0.883	4,278	
1.008									
1.009	District Annual Quantity								
1.010	Southeast Daviess	Mil. Gal.	532	+S10.039	0%	0.96%	1.320	702	
1.011	West Daviess	Mil. Gal.	345	+S10.039	0%	0.84%	1.275	440	
1.012	East Daviess	Mil. Gal.	154	+S10.039	0%	2.42%	2.000	308	
1.013									
1.014	Maximum Day Quantity								
1.015	Southeast Daviess	mgd	1.990	+S10.040	0%	0.83%	1.271	2.529	
1.016	West Daviess	mgd	1.378	+S10.040	0%	0.61%	1.192	1.643	
1.017	East Daviess	mgd	0.612	+S10.040	0%	1.60%	1.585	0.970	
1.018									
1.019	System Maximum Day Quantity	mgd	16.91	+S10.045	0%	-0.51%	0.862	14.57	
1.020									
1.021	<u>Operation and Maintenance Expense</u>								
1.022									
1.023	Transmission and Dist. Expense	\$	269,521	(a)	5.83%	0%	5.172	1,393,927	
1.024	Source of Supply Expense	\$	121,068	(a)	7.61%	0%	8.390	1,015,701	
1.025	Existing Treatment Plant Expense								
1.026	Chemicals	\$	198,132	(a)	2.14%	-0.43%	1.635	323,886	
1.027	Other	\$	405,493	(a)	3.25%	0%	2.530	1,025,744	
1.028	New Treatment Plant Expense								
1.029	Chemicals	\$	0		n/a	n/a	n/a	169,006	
1.030	Other	\$	0		n/a	n/a	n/a	922,502	
1.031	Expanded Treatment Plant Expense								
1.032	Chemicals	\$	0		n/a	n/a	n/a	0	
1.033	Other	\$	0		n/a	n/a	n/a	0	
1.034	Pumping Expense								
1.035	Electric Power	\$	240,191	(a)	4.01%	-0.43%	2.776	666,821	
1.036	Other-Existing Plant	\$	8,840	(a)	7.92%	0%	9.118	80,606	
1.037	Other-New Plant	\$	0		n/a	n/a	n/a	74,696	
1.038	Other-Expanded Plant	\$	0		n/a	n/a	n/a	0	
1.039									
1.040	Administrative Expenses	\$	689,980	(a)	2.97%	0%	2.335	1,611,352	
1.041	Customer Accounting & Information	\$	176,825	(a)	4.92%	0%	4.031	712,842	
1.042									
1.043	(a) FY 1991 financial statements.		<u>2,110,050</u>					<u>7,997,084</u>	
1.044									
1.045									
1.046	<u>Debt Service Payments</u>								
1.047									
1.048	Existing Plant	\$	487,100					0	
1.049	1999 Improvements	\$	0					0	
1.050	2003 Improvements	\$	0					306,797	
1.051	2009 Improvements	\$	0					376,624	
1.052	2014 Improvements	\$	0					235,313	
1.053	2015 Improvements	\$	0					214,145	
1.054	Cavin Plant	\$	0					846,194	
1.055	2018 Improvements	\$	0					2,483,547	
1.056			<u>487,100</u>					<u>4,462,621</u>	
1.057									
1.058									

Analysis: Proforma Charges to Wholesale Customers
Fiscal Year Ending May 31, 2020
Estimate for FY 2021 Rate

Line			Wholesale Customers				OMU	Total	
			Southeast	West	East	Subtotal	Retail	OMU	
	Units		Daviess	Daviess	Daviess		Customers	System	
2.000									
2.001									
2.002									
2.003									
2.004									
2.005									
2.006	FY 2020 System Annual Quantity	Mil. gal.					2,828	4,278	+S1.007
2.007	FY 2020 District Annual Quantity	Mil. gal.	702	440	308	1,450	+S1.010, +S1.011, +S1.012		
2.008									
2.009	District Responsibility for Variable Expenses		16.41%	10.29%	7.20%	33.90%	@ROUND(+S2.007/S2.006,4)		
2.010									
2.011									
2.012	<u>District Responsibility for Fixed Costs of Existing Facilities</u>								
2.013									
2.014	FY 1989 District Base Quantity	mgd	2.378	1.939	0.594	4.911	+S10.010		
2.015	FY 1989 Plant Usage (Base)	mgd						17.54	+S10.021
2.016	After June 1, 2018?	Yes							
2.017	Percentages after June 1, 2018		13.56%	9.65%	4.09%	27.30%			
2.018	District Responsibility for Fixed Costs of Existing Facilities								
2.019	Percent		13.56%	9.65%	4.09%	27.30%	@IF(S2.016=No,ROUND(+S2.014/S2.015,4),ROUND(+S2.018,4)		
2.020									
2.021									
2.022	<u>District Responsibility for Fixed Costs of Existing Transmission Facilities</u>								
2.023									
2.024	FY 2020 District Maximum Day Quantity		2.529	1.643	0.970	5.142	+S1.015, +S1.016, +S1.017		
2.025	FY 2020 System Maximum Day Quantity							14.57	+S1.019
2.026									
2.027	District Responsibility for Fixed Costs of Existing Transmission Facilities								
2.028	Percent		17.36%	11.28%	6.66%	35.30%	@ROUND(+S2.024/S2.025,4)		
2.029									
2.030									
2.031	<u>District Responsibility for Fixed Costs of New Facilities</u>								
2.032									
2.033	FY 2020 System Maximum Day Quantity	mgd						14.57	+S1.019
2.034	less Base Year Plant Usage	mgd						17.54	Contract
2.035									
2.036	New Plant Capacity	mgd						10.00	Input
2.037	FY 2020 New Plant Usage	mgd						(2.97)	+S2.033-S2.034
2.038	FY 2020 New Plant Usage	mgd	(but not less than zero)					0.00	@IF(S2.037<0,0,+S2.037)
2.039	FY 2020 Reserve Capacity	mgd						10.00	+S2.036-S2.038
2.040									
2.041	FY 2020 Maximum Day Quantity	mgd	2.529	1.643	0.970	5.142	+S2.024		
2.042	FY 1989 District Base Quantity	mgd	2.378	1.939	0.594	4.911	+S10.010		
2.043	District Growth Quantity	mgd	0.151	(0.296)	0.376		+S2.041-S2.042		
2.044	But not less than zero	mgd	0.151	0.000	0.376		@IF(S2.043<0,0,+S2.043)		
2.045									
2.046	District Growth Ratio		1.000	0.000	1.000		@IF(S2.038=0,@IF(S2.044=0,0,1),S2.044/S2.038		
2.047									
2.048	Ratio District Growth Quantity / New Plant Capacity								
2.049									
2.050	Factor	percent	1.51%	0.00%	3.76%		@ROUND(S2.044/S2.036,4)		
2.051									
2.052									
2.053	Minimum District Responsibility	percent	12.75%	8.25%	4.00%	25.00%	(a)		
2.054									
2.055	District Responsibility for Fixed Costs of New Facilities								
2.056	Percent		12.75%	8.25%	4.00%	25.00%	@MAX(S2.050,S2.053)		
2.057	(a) Per Contracts.								
2.058									
2.059									
2.060	<u>District Responsibility for Fixed Costs of Expanded Facilities</u>								
2.061									
2.062	FY 2020 System Maximum Day Quantity	mgd						14.57	+S1.019
2.063	less Base Year Plant Usage	mgd						17.54	Contract
2.064									
2.065	New Plant Capacity	mgd						10.00	Input
2.066	FY 2020 Expanded Plant Usage	mgd						(2.97)	+S2.062-S2.063
2.067	FY 2020 Expanded Plant Usage	mgd	(but not less than zero)					0.00	@IF(S2.066<0,0,+S2.066)
2.068	FY 2020 Reserve Capacity	mgd						10.00	+S2.065-S2.067
2.069									
2.070	FY 2020 Maximum Day Quantity	mgd	2.529	1.643	0.970	5.142	+S2.024		
2.071	FY 1989 District Base Quantity	mgd	2.378	1.939	0.594	4.911	+S10.010		
2.072	District Growth Quantity	mgd	0.151	(0.296)	0.376		+S2.070-S2.071		
2.073	But not less than zero	mgd	0.151	0.000	0.376		@IF(S2.072<0,0,+S2.072)		
2.074									
2.075	District Growth Ratio		1.000	0.000	1.000		@IF(S2.067=0,@IF(S2.073=0,0,1),S2.073/S2.067		
2.076									
2.077	Ratio District Growth Quantity / Expanded Plant Capacity								
2.078									
2.079	Factor	percent	1.51%	0.00%	3.76%		@ROUND(S2.073/S2.065,4)		
2.080									
2.081									
2.082	Minimum District Responsibility	percent	15.61%	10.94%	7.07%	33.62%	(a)		
2.083									
2.084	District Responsibility for Fixed Costs of Expanded Facilities								
2.085	Percent		15.61%	10.94%	7.07%	33.62%	@MAX(S2.079,S2.082)		
2.086	(a) Per Contracts.								

Analysis: Proforma Charges to Wholesale Customers
Fiscal Year Ending May 31, 2020
Estimate for FY 2021 Rate

Line				
3.000				
3.001				
3.002	FY 2020 Annual Transmission & Distribution Expense	\$1,393,927	+S1.023	(a)
3.003				
3.004	Beginning of year inch-feet of transmission and distribution system			
3.005				
3.006	Distribution mains (less than 8 inch)	6,900,594		
3.007				
3.008	Transmission mains (8 inch & over)	5,301,976		
3.009				
3.010	Total	12,202,570		
3.011				
3.012	Transmission portion	43.45%		
3.013				
3.014	Calculated Transmission O&M Expense	\$605,661	@ROUND(S3.002*S3.012,0)	
3.015				
3.016	Net Distribution O&M Expense	\$788,266	+S3.002-S3.014	
3.017				
3.018				
3.019				
3.020				
3.021	(a) Total water trans. & dist. expense less maintenance of services,			
3.022	meters, hydrants and misc. plant.			
3.023				

Analysis: Proforma Charges to Wholesale Customers
Fiscal Year Ending May 31, 2020
Estimate for FY 2021 Rate

Line		FY 2020	
4.000			
4.001			
4.002		\$	
4.003			
4.004	Source of Supply Expense	1,015,701	+S1.024
4.005			
4.006	Water Treatment		
4.007	Existing Plant		
4.008	Chemicals	323,886	+S1.026
4.009	Other	1,025,744	+S1.027
4.010			
4.011	New Plant		
4.012	Chemicals	169,006	+S1.029
4.013	Other	922,502	+S1.030
4.014			
4.015	Expanded Plant		
4.016	Chemicals	0	+S1.032
4.017	Other	0	+S1.033
4.018			
4.019	Pumping Expense		
4.020	Electric Power	666,821	+S1.035
4.021	Other-Existing Plant	80,606	+S1.036
4.022	Other-New Plant	74,696	+S1.037
4.023	Other-Expanded Plant	0	+S1.038
4.024			
4.025	Variable Expenses		
4.026	Electric Power	666,821	+S4.020
4.027	Chemicals-Existing Plant	323,886	+S4.008
4.028	Chemicals-New and Expanded Plant	169,006	+S4.012
4.029	Total Variable Expenses	1,159,713	@SUM(S4.026..S4.028)
4.030			
4.031			
4.032			
4.033			

Analysis: Proforma Charges to Wholesale Customers
Fiscal Year Ending May 31, 2020
Estimate for FY 2021 Rate

Line					
5.000				FY 2020	
5.001				-----	
5.002				\$	
5.003	Existing Revenue Bonds				
5.004	Annual P & I		0		+S1.048
5.005					
5.006	Allocation - Existing Revenue Bonds	(a)			
5.007	Water Supply & Treatment	66.28%	0		@ROUND(S5.004*S5.007,0)
5.008	Transmission Mains	33.72%	0		@ROUND(S5.004*S5.008,0)
5.009	Total	100.00%	0		+S5.007+S5.008
5.010					
5.011	New Revenue Bonds				
5.012	Debt Service on Improvements - 1999 Bonds				
5.013	Annual P & I		0		+S1.049
5.014	Debt Service on Improvements - 2003 Bonds				
5.015	Annual P & I		306,797		+S1.050
5.016	Debt Service on Improvements - 2009 Bonds				
5.017	Annual P & I		376,624		+S1.051
5.018	Debt Service on Improvements - 2014 Bonds				
5.019	Annual P & I		235,313		+S1.052
5.020	Debt Service on Improvements - 2015 Bonds				
5.021	Annual P & I		214,145		+S1.053
5.022	Debt Service on Cavin Project				
5.023	Annual P & I		846,194		+S1.054
5.024	Debt Service on Improvements - 2018 Bonds				
5.025	Annual P & I		2,483,547		+S1.055
5.026					
5.027	Allocation - 1999 Improvements	(b)			
5.028	Water Supply & Treatment	42.25%	0		@ROUND(S5.013*S5.028,0)
5.029	Transmission Mains	57.75%	0		@ROUND(S5.013*S5.029,0)
5.030	Total	100.00%	0		+S5.028+S5.029
5.031					
5.032	Allocation - 2003 Improvements	(b)			
5.033	Water Supply & Treatment	47.74%	146,465		@ROUND(S5.015*S5.033,0)
5.034	Transmission Mains	52.26%	160,332		@ROUND(S5.015*S5.034,0)
5.035	Total	100.00%	306,797		+S5.033+S5.034
5.036					
5.037	Allocation - 2009 Improvements	(c)			
5.038	Water Supply & Treatment	58.51%	220,364		@ROUND(S5.017*S5.038,0)
5.039	Transmission Mains	4.74%	17,852		@ROUND(S5.017*S5.039,0)
5.040	Cavin Plant	13.68%	51,522		@ROUND(S5.017*S5.040,0)
5.041	Distribution/General Plant	23.07%	86,887		@ROUND(S5.017*S5.041,0)
5.042	Total	100.00%	376,625		+S5.038+S5.039+S5.040+S5.041
5.043					
5.044	Allocation - 2014 Improvements	(d)			
5.045	Water Supply & Treatment	27.26%	64,146		@ROUND(S5.019*S5.045,0)
5.046	Transmission Mains	26.53%	62,429		@ROUND(S5.019*S5.046,0)
5.047	Cavin Plant	11.89%	27,979		@ROUND(S5.019*S5.047,0)
5.048	Distribution/General Plant	34.32%	80,759		@ROUND(S5.019*S5.048,0)
5.049	Total	100.00%	235,313		+S5.045+S5.046+S5.047+S5.048
5.050					
5.051	Allocation - 2015 Improvements	(e)			
5.052	Water Supply & Treatment	44.00%	94,224		@ROUND(S5.021*S5.052,0)
5.053	Cavin Plant	0.00%	0		@ROUND(S5.021*S5.053,0)
5.054	Expanded Plant	56.00%	119,921		@ROUND(S5.021*S5.054,0)
5.055	Total	100.00%	214,145		+S5.052+S5.053+S5.054
5.056					
5.057	Allocation - 2018 Improvements	(f)			
5.058	Water Supply & Treatment	6.13%	152,241		@ROUND(S5.025*S5.058,0)
5.059	Transmission Mains	2.79%	69,291		@ROUND(S5.025*S5.059,0)
5.060	Cavin Plant	0.00%	0		@ROUND(S5.025*S5.060,0)
5.061	Expanded Plant	88.93%	2,208,619		@ROUND(S5.025*S5.061,0)
5.062	Distribution/General Plant	2.15%	53,396		@ROUND(S5.025*S5.062,0)
5.063	Total	100.00%	2,483,547		+S5.058+S5.059+S5.060+S5.061+S5.062
5.064					
5.065	Debt Service Summary				
5.066	Existing Treatment Facility		677,440		+S5.007+S5.028+S5.033+S5.038+S5.045+S5.052+S5.058
5.067	New Treatment Facility		925,695		+S5.023+S5.040+S5.047+S5.053+S5.060
5.068	Transmission Facilities		309,904		+S5.008+S5.029+S5.034+S5.039+S5.046+S5.059
5.069	Expanded Treatment Facility		2,328,540		+S5.054+S5.061
5.070	Distribution/General Plant		221,042		+S5.041+S5.048+S5.062
5.071			4,462,621		+S5.066+S5.067+S5.068+S5.069+S5.070
5.072	(a) Exhibit E, Contract				
5.073	(b) Based on dollars spent on improvements, per Water Construction Fund schedule.				
5.074	(c) Based on dollars spent on improvements, per Water Construction Fund schedule.				
5.075	(d) Based on estimated dollars to be spent on improvements, per Water Financial model.				
5.076	(e) Based on estimated dollars to be spent on improvements, per Water Financial model.				
5.077	(f) Based on estimated dollars to be spent on improvements, per Water Financial model.				

Analysis: Proforma Charges to Wholesale Customers
Fiscal Year Ending May 31, 2020
Estimate for FY 2021 Rate

Line		FY 2020	
6.000		-----	
6.001		\$	
6.002			
6.003			
6.004	Administrative and General Expenses	1,611,352	+S1.040
6.005			
6.006	Basis of Allocation = Supervised Expenses (b)		
6.007	Existing Treatment Facility	2,122,051	+S4.004+S4.009+S4.021
6.008			
6.009	New Treatment Facility	997,198	+S4.013+S4.022
6.010			
6.011	Expanded Treatment Facility	0	+S4.017+S4.023
6.012			
6.013	Transmission System	605,661	+S3.014
6.014			
6.015	Distribution System	788,266	+S3.016
6.016			
6.017	Customer Accounting & Information	712,842	+S1.041
6.018			
6.019	Total Above	5,226,019	@SUM(\$6.007..\$6.017)
6.020			
6.021	Allocation Of Admin. & Gen. Expense		
6.022	Existing Treatment Facility	654,297	@ROUND(+S6.004*S6.007/S6.019,0)
6.023			
6.024	New Treatment Facility	307,469	@ROUND(+S6.004*S6.009/S6.019,0)
6.025			
6.026	Expanded Treatment Facility	0	@ROUND(+S6.004*S6.011/S6.019,0)
6.027			
6.028	Transmission System	186,745	@ROUND(+S6.004*S6.013/S6.019,0)
6.029			
6.030	Distribution System	243,048	@ROUND(+S6.004*S6.015/S6.019,0)
6.031			
6.032	Customer Accounting & Information	219,792	@ROUND(+S6.004*S6.017/S6.019,0)
6.033			
6.034	Total Above	1,611,351	@SUM(\$6.022..\$6.032)
6.035			
6.036	(b) Excludes expenses which vary with the quantity of water produced.		

Analysis: Proforma Charges to Wholesale Customers
Fiscal Year Ending May 31, 2020
Estimate for FY 2021 Rate

Line			
7.000		FY 2020	
7.001		-----	
7.002		\$	
7.003	Existing Treatment Facility Fixed Costs		
7.004	Debt Service	677,440	+S5.066
7.005			
7.006	O&M Expense	2,122,051	+S4.004+S4.009+S4.021
7.007			
7.008	Replacements & Improvements	147,471	+S7.057
7.009			
7.010	Admin. & General Expense	<u>654,297</u>	+S6.022
7.011			
7.012	Total Existing Treatment Facility Fixed Costs	3,601,259	@SUM(\$7.004..\$7.010)
7.013			
7.014			
7.015	New Treatment Facility Fixed Costs		
7.016			
7.017	Debt Service	925,695	+S5.067
7.018			
7.019	O&M Expense	997,198	+S4.013+S4.022
7.020			
7.021	Replacements & Improvements	312,875	+S7.061
7.022			
7.023	Admin. & General Expense	<u>307,469</u>	+S6.024
7.024			
7.025	Total New Treatment Facility Fixed Costs	2,543,237	@SUM(\$7.017..\$7.023)
7.026			
7.027	Transmission Facility Fixed Costs		
7.028	Debt Service	309,904	+S5.068
7.029			
7.030	O&M Expense	605,661	+S3.014
7.031			
7.032	Replacements & Improvements	241,349	+S7.065
7.033			
7.034	Admin. & General Expense	<u>186,745</u>	+S6.028
7.035			
7.036	Total Transmission Facility Fixed Costs	1,343,659	@SUM(\$7.028..\$7.034)
7.037			
7.038	Expanded Treatment Facility Fixed Costs		
7.039			
7.040	Debt Service	2,328,540	+S5.069
7.041			
7.042	O&M Expense	0	+S4.017+S4.023
7.043			
7.044	Replacements & Improvements	0	+S7.069
7.045			
7.046	Admin. & General Expense	<u>0</u>	+S6.026
7.047			
7.048	Total Expanded Treatment Facility Fixed Costs	2,328,540	@SUM(\$7.040..\$7.046)
7.049			
7.050	Variable Expenses		
7.051	Total Amount	1,159,713	+S4.029
7.052			
7.053	Plant Investment as of May 31, 2019:		
7.054	Existing Treatment Facilities		
7.055	Existing/Additions	(a) 10,185,837	1.25% 127,323
7.056	Cavin Project Improvements	(a) <u>1,611,825</u>	1.25% <u>20,148</u>
7.057		11,797,662	147,471
7.058	New Treatment Facilities		
7.059	Additions	(a) 1,812,492	1.25% 22,656
7.060	Cavin Project Improvements	(a) <u>23,217,545</u>	1.25% <u>290,219</u>
7.061		25,030,037	312,875
7.062	Transmission Facilities		
7.063	Existing/Additions	(a) 16,852,493	1.25% 210,656
7.064	Cavin Project Improvements	(a) <u>2,455,475</u>	1.25% <u>30,693</u>
7.065		19,307,968	241,349
7.066	Expanded Treatment Facilities		
7.067	Additions	(a) 0	1.25% 0
7.068	Cavin Project Improvements	(a) <u>0</u>	1.25% <u>0</u>
7.069		0	0
7.070			
7.071	(a) Contributions to R&R Fund for FY 2017 were 1.25% of Plant Investment,		
7.072	excluding land. Distribution Plant and General Plant are excluded from		<u>701,695</u>
7.073	Water District cost allocations.		

Analysis: Proforma Charges to Wholesale Customers
Fiscal Year Ending May 31, 2020
Estimate for FY 2021 Rate

Line		Wholesale Customers				
		Total System Costs	Southeast Daviess	West Daviess	East Daviess	Subtotal
8.000						
8.001						
8.002						
8.003						
8.004						
8.005						
8.006	Existing Treatment Facility					
8.007	Total Costs	\$3,601,259	+S7.012			
8.008						
8.009	District Responsibility					
8.010	Percent		13.56%	9.65%	4.09%	27.30%
8.011	Amount		\$488,331	\$347,522	\$147,292	\$983,145
8.012						@ROUND(\$8.007*\$8.010,0)
8.013						
8.014	New Treatment Facility					
8.015	Total Costs	\$2,543,237	+S7.025			
8.016						
8.017	District Responsibility					
8.018	Percent		12.75%	8.25%	4.00%	25.00%
8.019	Amount		\$324,263	\$209,817	\$101,729	\$635,809
8.020						@ROUND(\$8.015*\$8.018,0)
8.021						
8.022	Transmission Facilities					
8.023	Total Costs	\$1,343,659	+S7.036			
8.024						
8.025	District Responsibility					
8.026	Percent		17.36%	11.28%	6.66%	35.30%
8.027	Amount		\$233,259	\$151,565	\$89,488	\$474,312
8.028						@ROUND(\$8.023*\$8.026,0)
8.029						
8.030	Expanded Treatment Facility					
8.031	Total Costs	\$2,328,540	+S7.048			
8.032						
8.033	District Responsibility					
8.034	Percent		15.61%	10.94%	7.07%	33.62%
8.035	Amount		\$363,485	\$254,742	\$164,628	\$782,855
8.036						@ROUND(\$8.031*\$8.034,0)
8.037						
8.038	Variable Expenses					
8.039	Total Costs	\$1,159,713	+S7.051			
8.040						
8.041	District Responsibility					
8.042	Percent		16.41%	10.29%	7.20%	33.90%
8.043	Amount		\$190,309	\$119,335	\$83,499	\$393,143
8.044						@ROUND(\$8.039*\$8.042,0)
8.045						
8.046	Total Prior Year True-Up Adjustment		SEDC \$18,152	WDC \$125,335	EDC (\$54,469)	\$89,018
8.047	Unrecovered True-Up Charges		\$0	\$0	\$54,469	\$54,469
8.048	True-Up Adjustment This Period		\$18,152	\$125,335	\$0	\$143,487
8.049						
8.050	Total Charges to Districts for FY 2020	\$1,617,799	\$1,208,316	\$586,636	\$3,412,751	+S8.011+S8.019+S8.027+S8.035+S8.043+S8.048
8.051						
8.052						
8.053	Effective Unit Charge		SEDC	WDC	EDC	
8.054	Existing Treatment Facility		\$0.710	\$0.804	\$0.488	\$0.691
8.055	New Treatment Facility		\$0.471	\$0.486	\$0.337	\$0.447
8.056	Transmission Facilities		\$0.339	\$0.351	\$0.296	\$0.334
8.057	Expanded Treatment Facility		\$0.528	\$0.590	\$0.545	\$0.551
8.058	Variable Expenses		\$0.277	\$0.276	\$0.277	\$0.277
8.059	Prior Year Trueup		\$0.026	\$0.290	\$0.000	\$0.101
8.060						
8.061	w/ true up		\$2.351	\$2.797	\$1.943	\$2.400
8.062	w/o true up		\$2.325	\$2.507	\$1.943	@SUM(\$8.054..\$8.059)

Analysis: Proforma Charges to Wholesale Customers
Fiscal Year Ending May 31, 2020
Estimate for FY 2021 Rate

Line	Wholesale Customers						
	Southeast Daviness	West Daviness	East Daviness	Subtotal			
9.000							
9.001							
9.002							
9.003							
9.004							
9.005							
9.006	Sales, FY 1991	Mil. gal	521	338	151	1,010	+S10.027
9.007	Growth Factor		1.320	1.275	2.000		S1.010 through S1.012
9.008	Sales, FY 2020	Mil. gal	688	432	302	1,422	@ROUND(S9.006*S9.007,0)
9.009							
9.010	Total FY 2020 Charges		\$1,617,799	\$1,208,316	\$586,636	\$3,412,751	+S8.050
9.011							
9.012	Effective unit cost (per 1000 gallons)		\$2.351	\$2.797	\$1.943	\$2.400	@ROUND(+S9.010/(1000*S9.008),3)
9.013							
9.014	Rate Floor - set in first fiscal year of						
9.015	operation of New Treatment Facility		\$1.148	\$1.213	\$1.148	\$1.168	(Per Contracts)
9.016							
9.017	WATER RATES effective June 1, 2020		\$2.351	\$2.797	\$1.943	\$2.400	@MAX(+S9.012,+S9.015)
9.018							
9.019	Effective Rate Over (Under) Floor		\$1.203	\$1.584	\$0.795		
9.020							
9.021							
9.022	Current Rates (per 1000 gallons) - effective 6-1-19		\$1.890	\$2.270	\$1.630		
9.023	Increase (Decrease)		\$0.461	\$0.527	\$0.313		
9.024	Percent Increase (Decrease)		24.4%	23.2%	19.2%		

Analysis: Proforma Charges to Wholesale Customers
Fiscal Year Ending May 31, 2020
Estimate for FY 2021 Rate

Line		Wholesale Customers			Subtotal	OMU Retail Customers	Total OMU System
		Southeast Davieess	West Davieess	East Davieess			
10.000							
10.001							
10.002							
10.003	Units						
10.004							
10.005	Data for Base Year FY 1989						
10.006							
10.007	Average of 5 Maximum Day Demands			(c)			
10.008	Amount (a)	mgd	2.330	1.900	0.582	4.812	
10.009	Allowance for Transmission Losses		2%	2%	2%	Estimated	
10.010	Amount Adjusted for Losses	mgd	2.378	1.939	0.594	4.911	
10.011							
10.012	For Information Only						
10.013	Annual sales	Mil cf	67.08	45.89	21.02	(a)	
10.014	Annual sales	Mil. gal.	502	343	157	@ROUND(7.48*S10.013,0)	
10.015	Average Day	mgd	1.38	0.94	0.43	+S10.014/365	
10.016	Ratio Max to Average Day		1.69	2.02	1.35	+S10.008/S10.015	
10.017							
10.018							
10.019	Average of System 5 maximum day demands				mgd	17.90 (a)	
10.020	Allowance for filter wash water					2%	
10.021	Adj. System 5 Maximum Day Demands (Base year plant usage)				mgd	17.54 @ROUND(+S10.019*(1-S10.020),2)	
10.022							
10.023							
10.024							
10.025	Input data for FY 1991 (a)						
10.026	Annual Sales	Million cf		(b)	135.0	399.2 534.2	
10.027	Annual Sales	Mil. gal.	521	338	151	1,010 2,986 3,996	
10.028				(c)			
10.029	Average of 5 Maximum Day Demands	mgd	1.95	1.35	0.60	@ROUND(S10.033*S10.027/365,3)	
10.030							
10.031	For Information Only						
10.032	Average Day	mgd	1.427	0.926	0.414	+S10.027/365	
10.033	Ratio Max to Average Day		1.37	1.46	1.45	+S10.029/S10.032 1.41 << Ave SE & W	
10.034							
10.035	Allowance for Transmission Losses		2%	2%	2%	Estimated	
10.036							
10.037	Data Adjusted for Water Losses						
10.038	District Data:						
10.039	Annual Water Sales	Mil. gal.	532	345	154	@ROUND(+S10.027/(1-S10.035),0)	
10.040	Average of 5 Maximum Day Demands	mgd	1.990	1.378	0.612	@ROUND(+S10.029/(1-S10.035),3)	
10.041							
10.042	Total System Data:						
10.043	Average of 5 Maximum Day Demands				mgd	17.26 (a)	
10.044	Filter wash water				mgd	0.35 @ROUND(0.02*S10.043,2)	
10.045	Adj. 5 Max. Day Demands				mgd	16.91 +S10.043-S10.044	
10.046							
10.047							
10.048	Total treated water			(a)	Mil. gal.	4,944 @ROUND(660.9*7.48,0)	
10.049	Filter wash water			(a)	Mil. gal.	98 @ROUND(13.1*7.48,0)	
10.050	Treated water delivered to trans. system				Mil. gal.	4,846 +S10.048-S10.049	
10.051							
10.052							
10.053							
10.054	(a) Source: OMU staff tabulation dated 8-19-91			(b) Total wholesale less Southeast Davieess and West Davieess.			
10.055	May, 1991 Financial Statement			(c) Amount per Districts' attorney.			
10.056				ratios of the other districts.			
10.057							
10.058	(d) East Davieess est 5 day max day demand						
10.059	FY 1989 Annual Sales	Million cf	21.02	<< OMU monthly listing of district sales			
10.060	FY 1989 Annual Sales	Mil. gal.	157.2	@ROUND(S10.059*7.48,1)			
10.061	Average day demand	mgd	0.431	@ROUND(S10.060/365,3)			
10.062	Estimated Max day ratio		1.35				
10.063	Est. East Davieess 5 day max day demand (mgd)		0.582	@ROUND(S10.061*S10.062,3)			
10.064							
10.065							
10.066							
10.067							

**East Daviess County Water Association
Historical Rate Analysis Summary
Costs and Charges after Floor**

Fiscal Year	Rate Chg. %	Estimate Gals. (000)	Actual Gals. (000)	Rate/Thous. Gals. \$	Collected From District \$	Actual Cost \$	Difference
FY 2007	0.00%	312,000	311,340	\$1.148	\$357,418	\$397,486	(\$40,068)
FY 2008	8.89%	315,000	315,964	\$1.250	\$394,955	\$422,121	(\$27,166)
FY 2009	8.80%	309,000	308,795	\$1.360	\$419,961	\$396,189	\$23,772
FY 2010	0.00%	299,000	291,304	\$1.360	\$396,173	\$334,417	\$61,756
FY 2011	0.00%	305,000	302,172	\$1.360	\$410,953	\$352,677	\$58,276
FY 2012	0.00%	296,000	301,556	\$1.360	\$410,116	\$359,043	\$51,073
FY 2013	-11.76%	303,000	308,007	\$1.200	\$369,524	\$417,815	(\$48,291)
FY 2014	0.00%	296,000	296,754	\$1.200	\$356,105	\$359,745	(\$3,640)
FY 2015	6.67%	297,000	294,469	\$1.280	\$376,919	\$338,050	\$38,869
FY 2016	0.00%	295,000	292,417	\$1.280	\$374,295	\$350,695	\$23,600
FY 2017	0.00%	297,000	297,336	\$1.280	\$380,590	\$394,433	(\$13,843)
FY 2018	0.00%	309,000	317,367	\$1.280	\$406,230	\$413,412	(\$7,182)
FY 2019	11.02%	290,000	294,748	\$1.421	\$418,874	\$481,561	(\$62,687)
Totals to Date		3,923,000	3,932,229		\$5,072,113	\$5,017,644	\$54,469

Analysis: Proforma Charges to Wholesale Customers
Fiscal Year Ending May 31, 2019
TRUE-UP CALCULATION

Line			FY 1991 Amount	FY 1991 Reference	Inflation Factor	Growth Factor	Calculated Growth Factor	FY 2019 Amount	
1.000									
1.001									
1.002									
1.003									
1.004									
1.005	<u>Water System Demands and Usage</u>							28 Years	
1.006									
1.007	System Annual Quantity	Mil. Gal.	4,846	+S10.050	0%	-0.40%	0.895	4,336	
1.008									
1.009	District Annual Quantity								
1.010	Southeast Daviess	Mil. Gal.	532	+S10.039	0%	0.86%	1.273	677	
1.011	West Daviess	Mil. Gal.	345	+S10.039	0%	0.97%	1.310	452	
1.012	East Daviess	Mil. Gal.	154	+S10.039	0%	2.42%	1.955	301	
1.013									
1.014	Maximum Day Quantity								
1.015	Southeast Daviess	mgd	1.990	+S10.040	0%	0.81%	1.254	2.495	
1.016	West Daviess	mgd	1.378	+S10.040	0%	0.84%	1.266	1.744	
1.017	East Daviess	mgd	0.612	+S10.040	0%	2.11%	1.792	1.097	
1.018									
1.019	System Maximum Day Quantity	mgd	16.91	+S10.045	0%	-0.52%	0.864	14.61	
1.020									
1.021	<u>Operation and Maintenance Expense</u>								
1.022									
1.023	Transmission and Dist. Expense	\$	269,521	(a)	5.60%	0%	4.601	1,239,975	
1.024	Source of Supply Expense	\$	121,068	(a)	7.70%	0%	7.986	966,802	
1.025	Existing Treatment Plant Expense								
1.026	Chemicals	\$	198,132	(a)	1.80%	-0.40%	1.476	292,359	
1.027	Other	\$	405,493	(a)	2.49%	0%	1.992	807,899	
1.028	New Treatment Plant Expense								
1.029	Chemicals	\$	0		n/a	n/a	n/a	149,394	
1.030	Other	\$	0		n/a	n/a	n/a	713,885	
1.031	Expanded Treatment Plant Expense								
1.032	Chemicals	\$	0		n/a	n/a	n/a	0	
1.033	Other	\$	0		n/a	n/a	n/a	0	
1.034	Pumping Expense								
1.035	Electric Power	\$	240,191	(a)	4.07%	-0.40%	2.743	658,811	
1.036	Other-Existing Plant	\$	8,840	(a)	7.51%	0%	7.605	67,233	
1.037	Other-New Plant	\$	0		n/a	n/a	n/a	78,150	
1.038	Other-Expanded Plant	\$	0		n/a	n/a	n/a	0	
1.039									
1.040	Administrative Expenses	\$	689,980	(a)	2.73%	0%	2.128	1,468,461	
1.041	Customer Accounting & Information	\$	176,825	(a)	5.35%	0%	4.303	760,901	
1.042									
1.043	(a) FY 1991 financial statements.		<u>2,110,050</u>					<u>7,203,871</u>	
1.044									
1.045									
1.046	<u>Debt Service Payments</u>								
1.047									
1.048	Existing Plant	\$	487,100					0	
1.049	1999 Improvements	\$	0					0	
1.050	2003 Improvements	\$	0					309,339	
1.051	2009 Improvements	\$	0					194,229	
1.052	2014 Improvements	\$	0					222,459	
1.053	2015 Improvements	\$	0					212,442	
1.054	Cavin Plant	\$	0					1,042,732	
1.055	2018 Improvements	\$	0					939,170	
1.056			<u>487,100</u>					<u>2,920,371</u>	
1.057									
1.058									

Analysis: Proforma Charges to Wholesale Customers

Fiscal Year Ending May 31, 2019
TRUE-UP CALCULATION

Line		Units	Wholesale Customers			Subtotal	OMU Retail Customers	Total OMU System	
			Southeast Davievs	West Davievs	East Davievs				
2.000									
2.001									
2.002									
2.003									
2.004									
2.005									
2.006	FY 2019 System Annual Quantity	Mil. gal.					2,906	4,336	+S1.007
2.007	FY 2019 District Annual Quantity	Mil. gal.	677	452	301	1,430	+S1.010, +S1.011, +S1.012		
2.008									
2.009	District Responsibility for Variable Expenses		15.61%	10.42%	6.94%	32.97%	@ROUND(+S2.007/S2.006,4)		
2.010									
2.011									
2.012	<u>District Responsibility for Fixed Costs of Existing Facilities</u>								
2.013									
2.014	FY 1989 District Base Quantity	mgd	2.378	1.939	0.594	4.911	+S10.010		
2.015	FY 1989 Plant Usage (Base)	mgd						17.54	+S10.021
2.016	After June 1, 2018?	Yes							
2.017	Percentages after June 1, 2018		13.56%	9.65%	4.09%	27.30%			
2.018	District Responsibility for Fixed Costs of Existing Facilities								
2.019	Percent		13.56%	9.65%	4.09%	27.30%	@IF(S2.016=No,ROUND(+S2.014/S2.015,4),ROUND(+S2.018,4)		
2.020									
2.021									
2.022	<u>District Responsibility for Fixed Costs of Existing Transmission Facilities</u>								
2.023									
2.024	FY 2019 District Maximum Day Quantity		2.495	1.744	1.097	5.336	+S1.015, +S1.016, +S1.017		
2.025	FY 2019 System Maximum Day Quantity							14.61	+S1.019
2.026									
2.027	District Responsibility for Fixed Costs of Existing Transmission Facilities								
2.028	Percent		17.08%	11.94%	7.51%	36.53%	@ROUND(+S2.024/S2.025,4)		
2.029									
2.030									
2.031	<u>District Responsibility for Fixed Costs of New Facilities</u>								
2.032									
2.033	FY 2019 System Maximum Day Quantity	mgd						14.61	+S1.019
2.034	less Base Year Plant Usage	mgd						17.54	Contract
2.035									
2.036	New Plant Capacity	mgd						10.00	Input
2.037	FY 2019 New Plant Usage	mgd						(2.93)	+S2.033-S2.034
2.038	FY 2019 New Plant Usage	mgd	(but not less than zero)					0.00	@IF(S2.037<0,0,+S2.037)
2.039	FY 2019 Reserve Capacity	mgd						10.00	+S2.036-S2.038
2.040									
2.041	FY 2019 Maximum Day Quantity	mgd	2.495	1.744	1.097	5.336	+S2.024		
2.042	FY 1989 District Base Quantity	mgd	2.378	1.939	0.594	4.911	+S10.010		
2.043	District Growth Quantity	mgd	0.117	(0.195)	0.503		+S2.041-S2.042		
2.044	But not less than zero	mgd	0.117	0.000	0.503		@IF(S2.043<0,0,+S2.043)		
2.045									
2.046	District Growth Ratio		1.000	0.000	1.000		@IF(S2.038=0,@IF(S2.044=0,0,1),S2.044/S2.038		
2.047									
2.048	Ratio District Growth Quantity / New Plant Capacity								
2.049									
2.050	Factor	percent	1.17%	0.00%	5.03%		@ROUND(S2.044/S2.036,4)		
2.051									
2.052									
2.053	Minimum District Responsibility	percent	12.75%	8.25%	4.00%	25.00%	(a)		
2.054									
2.055	District Responsibility for Fixed Costs of New Facilities								
2.056	Percent		12.75%	8.25%	5.03%	26.03%	@MAX(S2.050,S2.053)		
2.057	(a) Per Contracts.								
2.058									
2.059									
2.060	<u>District Responsibility for Fixed Costs of Expanded Facilities</u>								
2.061									
2.062	FY 2019 System Maximum Day Quantity	mgd						14.61	+S1.019
2.063	less Base Year Plant Usage	mgd						17.54	Contract
2.064									
2.065	New Plant Capacity	mgd						10.00	Input
2.066	FY 2019 Expanded Plant Usage	mgd						(2.93)	+S2.062-S2.063
2.067	FY 2019 Expanded Plant Usage	mgd	(but not less than zero)					0.00	@IF(S2.066<0,0,+S2.066)
2.068	FY 2019 Reserve Capacity	mgd						10.00	+S2.065-S2.067
2.069									
2.070	FY 2019 Maximum Day Quantity	mgd	2.495	1.744	1.097	5.336	+S2.024		
2.071	FY 1989 District Base Quantity	mgd	2.378	1.939	0.594	4.911	+S10.010		
2.072	District Growth Quantity	mgd	0.117	(0.195)	0.503		+S2.070-S2.071		
2.073	But not less than zero	mgd	0.117	0.000	0.503		@IF(S2.072<0,0,+S2.072)		
2.074									
2.075	District Growth Ratio		1.000	0.000	1.000		@IF(S2.067=0,@IF(S2.073=0,0,1),S2.073/S2.067		
2.076									
2.077	Ratio District Growth Quantity / Expanded Plant Capacity								
2.078									
2.079	Factor	percent	1.17%	0.00%	5.03%		@ROUND(S2.073/S2.065,4)		
2.080									
2.081									
2.082	Minimum District Responsibility	percent	15.61%	10.94%	7.07%	33.62%	(a)		
2.083									
2.084	District Responsibility for Fixed Costs of Expanded Facilities								
2.085	Percent		15.61%	10.94%	7.07%	33.62%	@MAX(S2.079,S2.082)		
2.086	(a) Per Contracts.								

Analysis: Proforma Charges to Wholesale Customers
Fiscal Year Ending May 31, 2019
TRUE-UP CALCULATION

Line				
3.000				
3.001				
3.002	FY 2019 Annual Transmission & Distribution Expense	\$1,239,975	+S1.023	(a)
3.003				
3.004	Beginning of year inch-feet of transmission and distribution system			
3.005				
3.006	Distribution mains (less than 8 inch)	6,869,294		
3.007				
3.008	Transmission mains (8 inch & over)	5,295,022		
3.009				
3.010	Total	12,164,316		
3.011				
3.012	Transmission portion	43.53%		
3.013				
3.014	Calculated Transmission O&M Expense	\$539,761	@ROUND(S3.002*S3.012,0)	
3.015				
3.016	Net Distribution O&M Expense	\$700,214	+S3.002-S3.014	
3.017				
3.018				
3.019				
3.020				
3.021	(a) Total water trans. & dist. expense less maintenance of services,			
3.022	meters, hydrants and misc. plant.			
3.023				

Analysis: Proforma Charges to Wholesale Customers
Fiscal Year Ending May 31, 2019
TRUE-UP CALCULATION

Line		FY 2019	

4.000			
4.001			
4.002		\$	
4.003			
4.004	Source of Supply Expense	966,802	+S1.024
4.005			
4.006	Water Treatment		
4.007	Existing Plant		
4.008	Chemicals	292,359	+S1.026
4.009	Other	807,899	+S1.027
4.010			
4.011	New Plant		
4.012	Chemicals	149,394	+S1.029
4.013	Other	713,885	+S1.030
4.014			
4.015	Expanded Plant		
4.016	Chemicals	0	+S1.032
4.017	Other	0	+S1.033
4.018			
4.019	Pumping Expense		
4.020	Electric Power	658,811	+S1.035
4.021	Other-Existing Plant	67,233	+S1.036
4.022	Other-New Plant	78,150	+S1.037
4.023	Other-Expanded Plant	0	+S1.038
4.024			
4.025	Variable Expenses		
4.026	Electric Power	658,811	+S4.020
4.027	Chemicals-Existing Plant	292,359	+S4.008
4.028	Chemicals-New and Expanded Plant	149,394	+S4.012
4.029	Total Variable Expenses	1,100,565	@SUM(S4.026..S4.028)
4.030			
4.031			
4.032			
4.033			

Analysis: Proforma Charges to Wholesale Customers
Fiscal Year Ending May 31, 2019
TRUE-UP CALCULATION

Line				
5.000			FY 2019	
5.001			-----	
5.002			\$	
5.003	Existing Revenue Bonds			
5.004	Annual P & I		0	+S1.048
5.005				
5.006	Allocation - Existing Revenue Bonds	(a)		
5.007	Water Supply & Treatment	66.28%	0	@ROUND(S5.004*S5.007,0)
5.008	Transmission Mains	33.72%	0	@ROUND(S5.004*S5.008,0)
5.009	Total	100.00%	0	+S5.007+S5.008
5.010				
5.011	New Revenue Bonds			
5.012	Debt Service on Improvements - 1999 Bonds			
5.013	Annual P & I		0	+S1.049
5.014	Debt Service on Improvements - 2003 Bonds			
5.015	Annual P & I		309,339	+S1.050
5.016	Debt Service on Improvements - 2009 Bonds			
5.017	Annual P & I		194,229	+S1.051
5.018	Debt Service on Improvements - 2014 Bonds			
5.019	Annual P & I		222,459	+S1.052
5.020	Debt Service on Improvements - 2015 Bonds			
5.021	Annual P & I		212,442	+S1.053
5.022	Debt Service on Cavin Project			
5.023	Annual P & I		1,042,732	+S1.054
5.024	Debt Service on Improvements - 2018 Bonds			
5.025	Annual P & I		939,170	+S1.055
5.026				
5.027	Allocation - 1999 Improvements	(b)		
5.028	Water Supply & Treatment	42.25%	0	@ROUND(S5.013*S5.028,0)
5.029	Transmission Mains	57.75%	0	@ROUND(S5.013*S5.029,0)
5.030	Total	100.00%	0	+S5.028+S5.029
5.031				
5.032	Allocation - 2003 Improvements	(b)		
5.033	Water Supply & Treatment	47.74%	147,679	@ROUND(S5.015*S5.033,0)
5.034	Transmission Mains	52.26%	161,661	@ROUND(S5.015*S5.034,0)
5.035	Total	100.00%	309,340	+S5.033+S5.034
5.036				
5.037	Allocation - 2009 Improvements	(c)		
5.038	Water Supply & Treatment	58.51%	113,645	@ROUND(S5.017*S5.038,0)
5.039	Transmission Mains	4.74%	9,206	@ROUND(S5.017*S5.039,0)
5.040	Cavin Plant	13.68%	26,571	@ROUND(S5.017*S5.040,0)
5.041	Distribution/General Plant	23.07%	44,809	@ROUND(S5.017*S5.041,0)
5.042	Total	100.00%	194,231	+S5.038+S5.039+S5.040+S5.041
5.043				
5.044	Allocation - 2014 Improvements	(d)		
5.045	Water Supply & Treatment	27.26%	60,642	@ROUND(S5.019*S5.045,0)
5.046	Transmission Mains	26.53%	59,018	@ROUND(S5.019*S5.046,0)
5.047	Cavin Plant	11.89%	26,450	@ROUND(S5.019*S5.047,0)
5.048	Distribution/General Plant	34.32%	76,348	@ROUND(S5.019*S5.048,0)
5.049	Total	100.00%	222,458	+S5.045+S5.046+S5.047+S5.048
5.050				
5.051	Allocation - 2015 Improvements	(e)		
5.052	Water Supply & Treatment	44.00%	93,475	@ROUND(S5.021*S5.052,0)
5.053	Cavin Plant	0.00%	0	@ROUND(S5.021*S5.053,0)
5.054	Expanded Plant	56.00%	118,968	@ROUND(S5.021*S5.054,0)
5.055	Total	100.00%	212,443	+S5.052+S5.053+S5.054
5.056				
5.057	Allocation - 2018 Improvements	(f)		
5.058	Water Supply & Treatment	6.13%	57,571	@ROUND(S5.025*S5.058,0)
5.059	Transmission Mains	2.79%	26,203	@ROUND(S5.025*S5.059,0)
5.060	Cavin Plant	0.00%	0	@ROUND(S5.025*S5.060,0)
5.061	Expanded Plant	88.93%	835,204	@ROUND(S5.025*S5.061,0)
5.062	Distribution/General Plant	2.15%	20,192	@ROUND(S5.025*S5.062,0)
5.063	Total	100.00%	939,170	+S5.058+S5.059+S5.060+S5.061+S5.062
5.064				
5.065	Debt Service Summary			
5.066	Existing Treatment Facility		473,012	+S5.007+S5.028+S5.033+S5.038+S5.045+S5.052+S5.058
5.067	New Treatment Facility		1,095,753	+S5.023+S5.040+S5.047+S5.053+S5.060
5.068	Transmission Facilities		256,088	+S5.008+S5.029+S5.034+S5.039+S5.046+S5.059
5.069	Expanded Treatment Facility		954,172	+S5.054+S5.061
5.070	Distribution/General Plant		141,349	+S5.041+S5.048+S5.062
5.071			2,920,374	+S5.066+S5.067+S5.068+S5.069+S5.070
5.072	(a) Exhibit E, Contract			
5.073	(b) Based on dollars spent on improvements, per Water Construction Fund schedule.			
5.074	(c) Based on dollars spent on improvements, per Water Construction Fund schedule.			
5.075	(d) Based on estimated dollars to be spent on improvements, per Water Financial model.			
5.076	(e) Based on estimated dollars to be spent on improvements, per Water Financial model.			
5.077	(f) Based on estimated dollars to be spent on improvements, per Water Financial model.			

Analysis: Proforma Charges to Wholesale Customers
Fiscal Year Ending May 31, 2019
TRUE-UP CALCULATION

Line		FY 2019	
6.000		-----	
6.001		\$	
6.002			
6.003			
6.004	Administrative and General Expenses	1,468,461	+S1.040
6.005			
6.006	Basis of Allocation = Supervised Expenses (b)		
6.007	Existing Treatment Facility	1,841,934	+S4.004+S4.009+S4.021
6.008			
6.009	New Treatment Facility	792,035	+S4.013+S4.022
6.010			
6.011	Expanded Treatment Facility	0	+S4.017+S4.023
6.012			
6.013	Transmission System	539,761	+S3.014
6.014			
6.015	Distribution System	700,214	+S3.016
6.016			
6.017	Customer Accounting & Information	760,901	+S1.041
6.018			
6.019	Total Above	4,634,845	@SUM(\$6.007..\$6.017)
6.020			
6.021	Allocation Of Admin. & Gen. Expense		
6.022	Existing Treatment Facility	583,581	@ROUND(+S6.004*S6.007/S6.019,0)
6.023			
6.024	New Treatment Facility	250,941	@ROUND(+S6.004*S6.009/S6.019,0)
6.025			
6.026	Expanded Treatment Facility	0	@ROUND(+S6.004*S6.011/S6.019,0)
6.027			
6.028	Transmission System	171,013	@ROUND(+S6.004*S6.013/S6.019,0)
6.029			
6.030	Distribution System	221,849	@ROUND(+S6.004*S6.015/S6.019,0)
6.031			
6.032	Customer Accounting & Information	241,077	@ROUND(+S6.004*S6.017/S6.019,0)
6.033			
6.034	Total Above	1,468,461	@SUM(\$6.022..\$6.032)
6.035			
6.036	(b) Excludes expenses which vary with the quantity of water produced.		

Analysis: Proforma Charges to Wholesale Customers
Fiscal Year Ending May 31, 2019
TRUE-UP CALCULATION

Line				
7.000			FY 2019	
7.001			-----	
7.002			\$	
7.003	Existing Treatment Facility Fixed Costs			
7.004	Debt Service	473,012	+S5.066	
7.005				
7.006	O&M Expense	1,841,934	+S4.004+S4.009+S4.021	
7.007				
7.008	Replacements & Improvements	140,010	+S7.057	
7.009				
7.010	Admin. & General Expense	<u>583,581</u>	+S6.022	
7.011				
7.012	Total Existing Treatment Facility Fixed Costs	3,038,537	@SUM(\$7.004..\$7.010)	
7.013				
7.014				
7.015	New Treatment Facility Fixed Costs			
7.016				
7.017	Debt Service	1,095,753	+S5.067	
7.018				
7.019	O&M Expense	792,035	+S4.013+S4.022	
7.020				
7.021	Replacements & Improvements	312,721	+S7.061	
7.022				
7.023	Admin. & General Expense	<u>250,941</u>	+S6.024	
7.024				
7.025	Total New Treatment Facility Fixed Costs	2,451,449	@SUM(\$7.017..\$7.023)	
7.026				
7.027	Transmission Facility Fixed Costs			
7.028	Debt Service	256,088	+S5.068	
7.029				
7.030	O&M Expense	539,761	+S3.014	
7.031				
7.032	Replacements & Improvements	233,374	+S7.065	
7.033				
7.034	Admin. & General Expense	<u>171,013</u>	+S6.028	
7.035				
7.036	Total Transmission Facility Fixed Costs	1,200,236	@SUM(\$7.028..\$7.034)	
7.037				
7.038	Expanded Treatment Facility Fixed Costs			
7.039				
7.040	Debt Service	954,172	+S5.069	
7.041				
7.042	O&M Expense	0	+S4.017+S4.023	
7.043				
7.044	Replacements & Improvements	0	+S7.069	
7.045				
7.046	Admin. & General Expense	<u>0</u>	+S6.026	
7.047				
7.048	Total Expanded Treatment Facility Fixed Costs	954,172	@SUM(\$7.040..\$7.046)	
7.049				
7.050	Variable Expenses			
7.051	Total Amount	1,100,565	+S4.029	
7.052				
7.053	Plant Investment as of May 31, 2018:			
7.054	Existing Treatment Facilities			
7.055	Existing/Additions	(a) 9,588,933	1.25%	119,862
7.056	Cavin Project Improvements	(a) <u>1,611,825</u>	1.25%	<u>20,148</u>
7.057		<u>11,200,758</u>		<u>140,010</u>
7.058	New Treatment Facilities			
7.059	Additions	(a) 1,800,161	1.25%	22,502
7.060	Cavin Project Improvements	(a) <u>23,217,545</u>	1.25%	<u>290,219</u>
7.061		<u>25,017,706</u>		<u>312,721</u>
7.062	Transmission Facilities			
7.063	Existing/Additions	(a) 16,214,463	1.25%	202,681
7.064	Cavin Project Improvements	(a) <u>2,455,475</u>	1.25%	<u>30,693</u>
7.065		<u>18,669,938</u>		<u>233,374</u>
7.066	Expanded Treatment Facilities			
7.067	Additions	(a) 0	1.25%	0
7.068	Cavin Project Improvements	(a) <u>0</u>	1.25%	<u>0</u>
7.069		<u>0</u>		<u>0</u>
7.070				
7.071	(a) Contributions to R&R Fund for FY 2017 were 1.25% of Plant Investment,			
7.072	excluding land. Distribution Plant and General Plant are excluded from			<u>686,105</u>
7.073	Water District cost allocations.			

Analysis: Proforma Charges to Wholesale Customers
Fiscal Year Ending May 31, 2019
TRUE-UP CALCULATION

Line	Description	Total System Costs	Wholesale Customers			Subtotal	
			Southeast Daviess	West Daviess	East Daviess		
8.000							
8.001							
8.002							
8.003							
8.004							
8.005							
8.006	Existing Treatment Facility						
8.007	Total Costs	\$3,038,537	+S7.012				
8.008							
8.009	District Responsibility						
8.010	Percent		13.56%	9.65%	4.09%	27.30%	+S2.019
8.011	Amount		\$412,026	\$293,219	\$124,276	\$829,521	@ROUND(\$8.007*\$8.010,0)
8.012							
8.013							
8.014	New Treatment Facility						
8.015	Total Costs	\$2,451,449	+S7.025				
8.016							
8.017	District Responsibility						
8.018	Percent		12.75%	8.25%	5.03%	26.03%	+S2.056
8.019	Amount		\$312,560	\$202,245	\$123,308	\$638,113	@ROUND(\$8.015*\$8.018,0)
8.020							
8.021							
8.022	Transmission Facilities						
8.023	Total Costs	\$1,200,236	+S7.036				
8.024							
8.025	District Responsibility						
8.026	Percent		17.08%	11.94%	7.51%	36.53%	+S2.028
8.027	Amount		\$205,000	\$143,308	\$90,138	\$438,446	@ROUND(\$8.023*\$8.026,0)
8.028							
8.029							
8.030	Expanded Treatment Facility						
8.031	Total Costs	\$954,172	+S7.048				
8.032							
8.033	District Responsibility						
8.034	Percent		15.61%	10.94%	7.07%	33.62%	+S2.085
8.035	Amount		\$148,946	\$104,386	\$67,460	\$320,792	@ROUND(\$8.031*\$8.034,0)
8.036							
8.037							
8.038	Variable Expenses						
8.039	Total Costs	\$1,100,565	+S7.051				
8.040							
8.041	District Responsibility						
8.042	Percent		15.61%	10.42%	6.94%	32.97%	+S2.009
8.043	Amount		\$171,798	\$114,679	\$76,379	\$362,856	@ROUND(\$8.039*\$8.042,0)
8.044							
8.045							
8.046	Total Prior Year True-Up Adjustment		SEDC \$0	WDC \$0	EDC \$0	\$0	
8.047	Unrecovered True-Up Charges		\$0	\$0	\$0	\$0	
8.048	True-Up Adjustment This Period		\$0	\$0	\$0	\$0	
8.049							
8.050	Total Charges to Districts for FY 2019	\$1,250,330	\$857,837	\$481,561	\$2,589,728	+S8.011+S8.019+S8.027+S8.035+S8.043+S8.048	
8.051							
8.052							
8.053	Effective Unit Charge		SEDC	WDC	EDC		
8.054	Existing Treatment Facility		\$0.621	\$0.660	\$0.421	\$0.592	@ROUND(+S8.011/(1000*S9.008),3)
8.055	New Treatment Facility		\$0.471	\$0.456	\$0.418	\$0.455	@ROUND(+S8.019/(1000*S9.008),3)
8.056	Transmission Facilities		\$0.309	\$0.323	\$0.306	\$0.313	@ROUND(+S8.027/(1000*S9.008),3)
8.057	Expanded Treatment Facility		\$0.225	\$0.235	\$0.229	\$0.229	@ROUND(+S8.035/(1000*S9.008),3)
8.058	Variable Expenses		\$0.259	\$0.258	\$0.259	\$0.259	@ROUND(+S8.043/(1000*S9.008),3)
8.059	Prior Year Trueup		\$0.000	\$0.000	\$0.000	\$0.000	@ROUND(+S8.048/(1000*S9.008),3)
8.060							
8.061	w/ true up		\$1.886	\$1.932	\$1.632	\$1.847	@SUM(\$8.054..\$8.059)
8.062	w/o true up		\$1.886	\$1.932	\$1.632		

Analysis: Proforma Charges to Wholesale Customers
Fiscal Year Ending May 31, 2019
TRUE-UP CALCULATION

Line			Wholesale Customers				
			-----	-----	-----	-----	
			Southeast	West	East	Subtotal	
			Daviess	Daviess	Daviess		
			-----	-----	-----	-----	
9.000							
9.001							
9.002							
9.003							
9.004							
9.005							
9.006	Sales, FY 1991	Mil. gal	521	338	151	1,010	+S10.027
9.007	Growth Factor		1.273	1.310	1.955		S1.010 through S1.012
9.008	Sales, FY 2019	Mil. gal	663	444	295	1,402	@ROUND(S9.006*S9.007,0)
9.009							
9.010	Total FY 2019 Charges		\$1,250,330	\$857,837	\$481,561	\$2,589,728	+S8.050
9.011							
9.012	Effective unit cost (per 1000 gallons)		\$1.886	\$1.932	\$1.632	\$1.847	@ROUND(+S9.010/(1000*S9.008),3)
9.013							
9.014	Rate Floor - set in first fiscal year of						
9.015	operation of New Treatment Facility		\$1.148	\$1.213	\$1.148	\$1.169	(Per Contracts)
9.016							
9.017	WATER RATES effective June 1, 2019		\$1.886	\$1.932	\$1.632	\$1.847	@MAX(+S9.012,+S9.015)
9.018							
9.019	Effective Rate Over (Under) Floor		\$0.738	\$0.719	\$0.484		
9.020							
9.021							
9.022	Current Rates (per 1000 gallons) - effective 6-1-19		\$1.890	\$2.270	\$1.630		
9.023	Increase (Decrease)		(\$0.004)	(\$0.338)	\$0.002		
9.024	Percent Increase (Decrease)		-0.2%	-14.9%	0.1%		

Analysis: Proforma Charges to Wholesale Customers
Fiscal Year Ending May 31, 2019
TRUE-UP CALCULATION

Line	Wholesale Customers					Subtotal	OMU Retail Customers	Total OMU System	
	Units	Southeast Davieess	West Davieess	East Davieess					
10.000									
10.001									
10.002									
10.003									
10.004									
10.005	Data for Base Year FY 1989								
10.006									
10.007	Average of 5 Maximum Day Demands			(c)					
10.008	Amount (a)	mgd	2.330	1.900	0.582	4.812			
10.009	Allowance for Transmission Losses		2%	2%	2%	Estimated			
10.010	Amount Adjusted for Losses	mgd	2.378	1.939	0.594	4.911			
10.011									
10.012	For Information Only								
10.013	Annual sales	Mil. cf	67.08	45.89	21.02	(a)			
10.014	Annual sales	Mil. gal.	502	343	157	@ROUND(7.48*S10.013,0)			
10.015	Average Day	mgd	1.38	0.94	0.43	+S10.014/365			
10.016	Ratio Max to Average Day		1.69	2.02	1.35	+S10.008/S10.015			
10.017									
10.018									
10.019	Average of System 5 maximum day demands					mgd	17.90	(a)	
10.020	Allowance for filter wash water						2%		
10.021	Adj. System 5 Maximum Day Demands (Base year plant usage)					mgd	17.54	@ROUND(+S10.019*(1-S10.020),2)	
10.022									
10.023									
10.024									
10.025	Input data for FY 1991 (a)								
10.026	Annual Sales	Million cf		(b)		135.0	399.2	534.2	
10.027	Annual Sales	Mil. gal.	521	338	151	1,010	2,986	3,996	
10.028				(c)					
10.029	Average of 5 Maximum Day Demands	mgd	1.95	1.35	0.60	@ROUND(S10.033*S10.027/365,3)			
10.030									
10.031	For Information Only								
10.032	Average Day	mgd	1.427	0.926	0.414	+S10.027/365			
10.033	Ratio Max to Average Day		1.37	1.46	1.45	+S10.029/S10.032	1.41	<< Ave SE & W	
10.034									
10.035	Allowance for Transmission Losses		2%	2%	2%	Estimated			
10.036									
10.037	Data Adjusted for Water Losses								
10.038	District Data:								
10.039	Annual Water Sales	Mil. gal.	532	345	154	@ROUND(+S10.027/(1-S10.035),0)			
10.040	Average of 5 Maximum Day Demands	mgd	1.990	1.378	0.612	@ROUND(+S10.029/(1-S10.035),3)			
10.041									
10.042	Total System Data:								
10.043	Average of 5 Maximum Day Demands					mgd	17.26	(a)	
10.044	Filter wash water					mgd	0.35	@ROUND(0.02*S10.043,2)	
10.045	Adj. 5 Max. Day Demands					mgd	16.91	+S10.043-S10.044	
10.046									
10.047									
10.048	Total treated water				(a)	Mil. gal.	4,944	@ROUND(660.9*7.48,0)	
10.049	Filter wash water				(a)	Mil. gal.	98	@ROUND(13.1*7.48,0)	
10.050	Treated water delivered to trans. system					Mil. gal.	4,846	+S10.048-S10.049	
10.051									
10.052									
10.053									
10.054	(a) Source: OMU staff tabulation dated 8-19-91				(b) Total wholesale less Southeast Davieess and West Davieess.				
10.055	May, 1991 Financial Statement				(c) Amount per Districts' attorney.				
10.056					ratios of the other districts.				
10.057									
10.058	(d) East Davieess est 5 day max day demand								
10.059	FY 1989 Annual Sales	Million cf	21.02	<< OMU monthly listing of district sales					
10.060	FY 1989 Annual Sales	Mil. gal.	157.2	@ROUND(S10.059*7.48,1)					
10.061	Average day demand	mgd	0.431	@ROUND(S10.060/365,3)					
10.062	Estimated Max day ratio		1.35						
10.063	Est. East Davieess 5 day max day demand (mgd)		0.582	@ROUND(S10.061*S10.062,3)					
10.064									
10.065									
10.066									
10.067									