

GRAND RAPIDS PUBLIC UTILITIES COMMISSION REGULAR WORK SESSION MEETING AGENDA

Tuesday, November 29, 2022 8:00 AM

CALL TO ORDER: Pursuant to due notice and call thereof, a Special Meeting of the Grand Rapids Public Utilities Commission will be held on Tuesday, November 29, 2022 at 8:00 AM in the conference room of the Public Works/Public Utilities Service Center at 500 SE 4th Street, Grand Rapids, Minnesota.

CALL OF ROLL:

BUSINESS:

- 1. Consider a motion to approve \$203,898.56 of verified claims for October and November 2022.
- Rate Study Discussion Part 2
- 3. Review 2023 Proposed Operations and Capital Budgets

ADJOURNMENT:

The next Regular Meeting of the Commission is scheduled for Wednesday, December 14, 2022 at 4:00 PM in the conference room of the Public Works/Public Utilities Service Center at 500 SE 4th Street.

The next Regular Work Session is scheduled for Wednesday, January 25, 2023 at 8:00 AM in the conference room of the Public Works/Public Utilities Service Center at 500 SE 4th Street.



GRAND RAPIDS PUBLIC UTILITIES COMMISSION AGENDA ITEM

AGENDA DATE: November 29, 2022

AGENDA ITEM: Consider a motion to approve \$203,898.56 of verified claims for October

and November 2022.

PREPARED BY: Jean Lane, Business Services Manager

BACKGROUND:

See attached check registers:

Computer check register \$203,898.56 Manual check register \$-0-

Total \$203,898.56

RECOMMENDATION:

Consider a motion to approve \$203,898.56 of verified claims for October and November 2022.

Grand Rapids Public Utilities Accounts Payable October/November 2022

(Meeting Date: 11/29/2022)

NAME	AMOUNT	NAME	AMOUNT
Acheson Tire	788.76	Napa Auto Parts	31.88
Amaril Uniform	3,968.95	Nextera	618.04
APG Media	678.77	North Central Laboratories	439.62
Aramark	212.96	Northeast Technical Services	9,787.33
Automation Direct	180.00	Northern Drug Screening	214.00
Burgraff's	125.50	Northern Horizons Solway	8,972.07
CarQuest	6.54	Northland Portables	126.75
Central McGowan	610.00	Public Utilities	5,485.68
C N A Surety	250.00	Rapids Radio	1,472.50
Cogsdale	1,050.00	Rapids Welding	38.56
Coles	387.53	RCB Collections	634.28
Compass Minerals	3,921.32	Resco	371.40
Core & Main	10,566.81	RMB Environmental Lab	786.27
Dakota Supply Group	5,684.68	Sandstroms	139.83
Davis Petroleum	3,387.52	SEH	493.75
Fastenal	3,743.51	Thousand Lakes Production	240.00
Figgins Truck & Trailer	10,921.39	TNT Construction	39,756.10
Flow Measurement	701.00	VC3	5,256.50
Frontier Energy	3,483.27	Viking Electric	951.41
Further	99.00	Water Conservation Services	8,200.00
Grainger	3,538.11	Wesco	8,188.40
Hawkins	6,045.82	WUSZ-FM	420.00
Hawkinson Construction	18,333.27	Xerox	260.06
Hawkinson Sand & Gravel	119.35	Ziegler	3,237.18
Herc-U-Lift	341.46	3	, ,
Industrial Lubricant	528.12	Energy Efficiency Rebate:	
Innovative	103.32	Beaty, David	150.00
Jamar Service	4,404.52	Forst, Neal	70.00
L&M	42.86	ISD 318	1,429.92
Latvala Lumbar	22.95	Ploetz, Amber	55.00
Macqueen Equipment	8,308.87	Rapids Brewery	1,013.93
Martin's Snowplow	131.28	Rapido Browery	1,010.30
McMaster-Carr	6,579.16		
Mielke Electric Works	3,342.50		
Minnesota Municipal Utilities	2,449.00		
wiii iii esota iviui iicipai Otiiities	2,449.00		

203,898.56



GRAND RAPIDS PUBLIC UTILITIES COMMISSION AGENDA ITEM

AGENDA DATE: November 29, 2022

AGENDA ITEM: Rate Study Discussion – Part 2

PREPARED BY: Julie Kennedy, General Manager

BACKGROUND:

Rate Study Discussion – Draft Final Report. Discussion at this meeting will focus on the projected financial conditions at existing rates, the cost of service results, rate recommendations, and financial conditions at projected rates.

RECOMMENDATION:

Discussion only. Anticipated action item at December 14 Regular Meeting.



November 29, 2022

Grand Rapids Public Utilities Commission 500 SE 4th Street Grand Rapids, MN 55744

Subject: Electric, Water and Domestic Wastewater Rate Studies

Commission Members:

Dave Berg Consulting, LLC has undertaken a study of the retail rates GRPUC charges its customers for electric, water and domestic wastewater service. Reports have been provided for each utility summarizing the analyses undertaken and the resulting recommendations for changes to the existing rates.

The first year (2023) rate recommendations result in a reduction in average electric bills of 6.5% and increases of 10% for water and 5% for domestic wastewater. Table 1 below summarizes the combined impact on an average residential customer's combined monthly bills utilizing 700 kWh electric and 3000 gallons for water and wastewater. As shown, the total monthly bill for 2023 is reduced by \$2.06 or 1.5%.

Table 1
2023 Residential Bill Impact

Utility	Current	2023	Increase (\$)	Increase (%)
Electric (700 kWh)	\$88.61	\$83.34	(\$5.27)	(5.9%)
Water (3000 gallons)	20.04	22.05	2.01	10.0%
Wastewater (3000 gallons)	<u>24.34</u>	<u>25.54</u>	<u>1.20</u>	<u>4.9%</u>
Total	\$132.99	\$130.93	(\$2.06)	(1.5%)

Table 2 below summarizes the combined impact on an average commercial customer's combined monthly bills utilizing 2000 kWh electric and 17,000 gallons for water and wastewater. As shown, the total monthly bill for 2023 is reduced by \$2.75 or 0.6%.

Table 2
2023 Commercial Bill Impact

Utility	Current	2023	Increase (\$)	Increase (%)
Electric (2000 kWh)	\$262.51	\$247.46	(\$15.05)	(5.7%)
Water (17,000 gallons)	68.69	77.38	8.69	12.7%
Wastewater (17,000 gallons)	94.32	97.83	<u>3.51</u>	<u>3.7%</u>
Total	\$425.52	\$422.77	(\$2.75)	(0.6%)

Table 3 shows the combined end-of-year reserves for all three utilities assuming implementation of the recommended rate adjustments.

Table 3
Projected EOY Cash Reserves
Proposed Rates

Utility	2022	2023	2024	2025	2026	2027
Electric	\$4,118,902	\$4,492,526	\$4,726,758	\$4,910,742	\$4,957,575	\$4,990,807
Water	280,237	1,025,670	577,164	234,045	(145,995)	(119,038)
Wastewater	<u>178,992</u>	(689,700)	619,768	(21,990)	(391,611)	<u>(917,842)</u>
Total	\$4,578,131	\$4,828,496	\$5,923,691	\$5,122,797	\$4,419,969	\$3,953,928

Each report contains more detailed information regarding the recommendations for each utility. Thank you for the opportunity to be of service to GRPUC through the conduct of this study.

Sincerely,

Dave Berg Consulting, LLC

David A. Berg, PE Principal





Electric, Water and Domestic Wastewater Cost of Service and Rate Design Studies

Grand Rapids Public Utilities Commission

David A. Berg, PE Principal – Dave Berg Consulting Nov. 29, 2022



Item 2.

A Review of Where We Are

Item 2.

Operating Results at Existing Rates

Table 2-3 Projected Operating Results Existing Rates

Year	2022	2023	2024	2025	2026	2027
Operating Revenues	\$19,061,765	\$18,448,198	\$18,977,138	\$19,515,558	\$20,064,303	\$20,624,106
Less Operating Expenses	(15,133,717)	(16,471,822)	(17,535,707)	(18,642,543)	(19,600,947)	(20,298,209)
Less Non -Operating Expenses	(1,075,942)	(1,045,042)	(1,044,661)	(1,047,838)	(1,047,100)	(1,065,454)
Net Income	2,852,105	931,335	396,769	(174,823)	(583,744)	(739,557)
Net Income as Percent of Revenues	15.0%	5.0%	2.1%	-0.9%	-2.9%	-3.6%



Table 2-3
Projected Operating Results
Existing Rates

Year	2022	2023	2024	2025	2026	2027
Operating Revenues	\$1,917,471	\$1,935,782	\$1,955,944	\$1,976,291	\$1,996,965	\$2,017,865
Less Operating Expenses	(1,857,320)	(1,924,009)	(2,188,640)	(2,309,776)	(2,422,246)	(2,536,321)
Less Non -Operating Expenses	<u>(58,171)</u>	<u>(69,105)</u>	(293,836)	(288,518)	(279,975)	(274,149)
Net Income	\$1,980	\$(57,332)	\$(526,532)	\$(622,003)	\$(705,257)	\$(792,605)
Net Income as Percent of Revenues	0.1%	-3.0%	-26.9%	-31.5%	-35.3%	-39.3%

Table 2-3
Projected Operating Results
Existing Rates

Year	2022	2023	2024	2025	2026	2027
Operating Revenues	\$1,857,414	\$1,875,029	\$1,892,336	\$1,909,774	\$1,927,476	\$1,945,311
Less Operating Expenses	(1,739,764)	(1,925,685)	(1,685,572)	(1,751,177)	(1,817,935)	(1,892,360)
Less Non -Operating Expenses	<u>(81,595)</u>	(86,371)	(162,550)	(168,633)	(160,547)	<u>(155,261)</u>
Net Income	36,054	(137,027)	44,213	(10,037)	(51,006)	(102,310)
Net Income as Percent of Revenues	1.9%	-7.3%	2.3%	-0.5%	-2.6%	-5.3%



Item 2.

Cash Reserves at Existing Rates

Electric

Table 2-4
Projected Cash Reserves
Existing Rates

Year	2022	2023	2024	2025	2026	2027
Beginning Balance	\$1,520,146	\$4,118,902	\$4,521,158	\$4,755,960	\$4,495,451	\$3,990,969
Plus Net Income	2,852,105	931,335	396,769	(174,823)	(583,744)	(739,557)
Less Capital Improvements	(950,607)	(1,176,840)	(929,440)	(883,440)	(884,440)	(886,440)
Less ERP Proj Costs	-	(80,833)	-	-	-	-
Plus Deprec/Amort	910,382	942,069	981,297	1,012,278	1,041,726	1,071,208
Less Debt Principal	(135,100)	(135,450)	(135,800)	(136,500)	-	-
Less LCP Payment	(78,024)	(78,024)	(78,024)	(78,024)	(78,024)	(78,024)
Ending Balance	\$4,118,902	\$4,521,158	\$4,755,960	\$4,495,451	\$3,990,969	\$3,358,155
As a percent of revenue	21.6%	24.5%	25.1%	23.0%	19.9%	16.3%



Table 2-3
Projected Cash Reserves-Water
Existing Rates

Year	2022	2023	2024	2025	2026	2027
Beginning Balance	\$1,087,187	\$178,992	\$(858,321)	\$92,587	\$(1,121,727)	\$(2,305,049)
Plus Net Income	1,980	(57,332)	(526,532)	(622,003)	(705,257)	(792,605)
Less Capital Improvements	(452,761)	(6,005,500)	(1,363,575)	(973,580)	(912,511)	(1,274,000)
Less ERP Project Costs	-	(80,833)	-	-	-	-
Plus Depreciation	332,035	347,127	547,310	592,763	625,216	654,633
Plus State Grants	-	-	2,500,000	-	-	-
Plus Available Bond Funds	-	4,850,000	-	-	-	-
Less Existing Debt Principal	(789,450)	(90,775)	(94,100)	(94,250)	(68,250)	(71,500)
Less New Debt Principal	ے	<u>-</u>	(112,195)	(117,244)	(122,520)	(128,033)
Ending Balance	\$178,992	\$(858,321)	\$92,587	\$(1,121,727)	\$(2,305,049)	\$(3,916,555)
Reserves as % of Operating Revenue	9.3%	-44.3%	4.7%	-56.8%	-115.4%	-194.1%



Domestic Wastewater

Table 2-3
Projected Cash Reserves
Existing Rates

Year	2022	2023	2024	2025	2026	2027
Beginning Balance	\$904,673	\$280,237	\$933,198	\$296,946	\$(336,782)	\$(1,118,796)
Plus Net Income	36,054	(137,027)	44,213	(10,037)	(51,006)	(102,310)
Less Capital Improvements	(344,289)	(1,097,350)	(735,067)	(697,100)	(849,435)	(528,000)
Less ERP Project Costs	-	(80,833)	-	-	-	-
Plus Depreciation/Amortization	237,213	248,690	285,268	309,770	333,007	361,321
Plus Available Bond Funds	-	1,900,000	-	-	-	-
Less Existing Debt Principal	(553,414)	(180,519)	(185,788)	(189,464)	(165,572)	(171,094)
Less New Debt Principal	_	<u>-</u>	<u>(44,878)</u>	(46,898)	<u>(49,008)</u>	<u>(51,213)</u>
Ending Balance	\$280,237	\$933,198	\$296,946	\$(336,782)	\$(1,118,796)	\$(1,610,092)
Reserves as % of Operating Revenue	15.1%	49.8%	15.7%	-17.6%	-58.0%	-82.8%



Combined End of Year Reserves – Existing Rates

	2022	2023	2024
Electric	\$ 4,118,902	\$ 4,521,158	\$ 4,755,960
Water	178,992	(858,321)	92,587
Domestic WW	 280,237	933,198	296,946
Total	\$ 4,578,131	\$ 4,596,034	\$ 5,145,493
	2025	2025	2027
	2025	2026	2027
Electric	\$ 4,495,451	\$ 3,990,969	\$ 3,358,155
Water	(1,121,727)	(2,305,049)	(3,916,555)
Domestic WW	 (336,782)	(1,118,796)	(1,610,092)
Total	\$ 3,036,941	\$ 567,123	\$ (2,168,492)



Item 2.

Cost of Service

Electric

Table 3-3
Cost of Service Results
Comparison of % Cost and Revenues
2021 Test Year

Customer Classification	Allocated Cost to Serve	Revenues	Increase/ (Decrease)
Residential	32.5%	34.1%	-4.8%
Commercial	17.6%	18.0%	-2.2%
Demand & Energy	36.1%	35.4%	2.0%
Industrial	9.7%	9.3%	3.8%
Load Management	3.0%	2.0%	53.3%
Lighting	<u>1.1%</u>	1.2%	<u>-7.8%</u>
Total	100.0%	100.0%	0.0%



Table 3-3
Water Cost of Service Results
Comparison of % Cost and Revenues
2021 Test Year

Customer Classification	Allocated Cost to Serve	Revenues	Increase/ (Decrease)
Residential	37.5%	38.3%	-2.1%
Commercial	41.3%	34.8%	18.6%
Industrial	8.8%	10.1%	-13.3%
Multi - Family	9.9%	14.4%	-31.4%
LaPrairie	2.6%	2.4%	7.0%
Total	100.0%	100.0%	0.0%



Domestic Wastewater LaPrairie and Cohasset

Table 3-1
LaPrairie and Cohasset

Item	GRPUC Total	Cohasset	LaPrairie
System Investment	\$ 5,649,642	\$427,588	\$7,695
3% Depreciation	\$169,489	\$12,828	\$231
2% Interest	\$112,993	\$8,552	\$154
5% O&M	\$282,482	\$21,379	<u>\$385</u>
Total Fixed Cost	\$564,964	\$42,759	\$769
Sales	304,606	47,055	10,701
Fixed Cost/Unit	\$1.85	\$0.91	\$0.07
Cost Reduction/Unit	n/a	\$0.95	\$1.78
Current Commodity Rate	\$4.44	\$2.75	\$2.65
Current Reduction	n/a	\$1.69	\$1.79



Item 2.

Rate Recommendations

Overall Recommendations

- Electric
 - Redesign purchased power adjustment to reflect new MP contract
 - Results in overall 6.5% decrease in 2023
- Water
 - Annual increases of 10% per year
- Domestic Wastewater
 - Annual increases of 5%



Residential Bill Impact

2023 Residential Bill Impact

Utility	Current	2023	Increase (\$)	Increase (%)
Electric (700 kWh)	\$88.61	\$83.34	(\$5.27)	(5.9%)
Water (3000 gallons)	20.04	22.05	2.01	10.0%
Wastewater (3000 gallons)	<u>24.34</u>	<u>25.54</u>	<u>1.20</u>	<u>4.9%</u>
Total	\$132.99	\$130.93	(\$2.06)	(1.5%)



Commercial Bill Impact

2023 Commercial Bill Impact

Utility	Current	2023	Increase (\$)	Increase (%)
Electric (2000 kWh)	\$262.51	\$247.46	(\$15.05)	(5.7%)
Water (17,000 gallons)	68.69	77.38	8.69	12.7%
Wastewater (17,000 gallons)	<u>94.32</u>	97.83	<u>3.51</u>	3.7%
Total	\$425.52	\$422.77	(\$2.75)	(0.6%)



Combined Reserve Funds

Projected EOY Cash Reserves Proposed Rates

Utility	2022	2023	2024	2025	2026	2027
Electric	\$4,118,902	\$4,492,526	\$4,726,758	\$4,910,742	\$4,957,575	\$4,990,807
Water	280,237	1,025,670	577,164	234,045	(145,995)	(119,038)
Wastewater	178,992	(689,700)	619,768	<u>(21,990)</u>	(391,611)	<u>(917,842)</u>
Total	\$4,578,131	\$4,828,496	\$5,923,691	\$5,122,797	\$4,419,969	\$3,953,928



Item 2.

Rate Recommendations - Electric

Electric

- Redesign purchased power adjustment to reflect new MP contract
- Results in overall 6.5% decrease in 2023
- Changes to Load Management and EV Charging Rates



Load Management Rates

Table 4-2
Load Management Energy Rates

(\$/kWh)

Customer Groups	Current Rate	Proposed 2023	Proposed 2024	Proposed 2025
Off Peak Heat/Cool	0.0648	0.0699	0.0750	0.0800
Storage Heat	0.0545	0.0630	0.0715	0.0800



EV Charging Rates

Table 4-3 EV Charging Rate

Item	GRPUC Existing Rate	GRPUC Proposed Rate
Customer charge	\$4.10/mo. – existing cust \$26.00/mo – stand alone	\$4.10/mo. – existing cust \$26.00/mo – stand alone
On-peak Energy ⁽¹⁾	\$0.1515/kWh	\$0.1612/kWh
Off-peak Energy	\$0.0422/kWh	\$0.055/kWh

(1) On-peak – 8 a.m. to 10 p.m. Monday through Friday



Projected Operating Results at Proposed Rates

Table 4-4 Projected Operating Results Proposed Rates

Year	2022	2023	2024	2025	2026	2027
Operating Revenues	\$19,061,765	\$18,419,566	\$18,977,138	\$19,960,632	\$20,607,360	\$21,270,933
Less Operating Expenses	(15,133,717)	(16,471,822)	(17,535,707)	(18,642,543)	(19,600,947)	(20,298,209)
Less Non -Operating Expenses	(1,075,942)	(1,045,042)	(1,045,230)	<u>(1,048,419)</u>	(1,038,842)	(1,046,235)
Net Income	2,852,105	902,702	396,200	269,670	(32,429)	(73,511)
Net Income as Percent of Revenues	15.0%	4.9%	2.1%	1.4%	-0.2%	-0.3%



Projected Cash Reserves at Proposed Rates

Table 4-5
Projected Cash Reserves
Proposed Rates

Year	2022	2023	2024	2025	2026	2027
Beginning Balance	\$1,520,146	\$4,118,902	\$4,492,526	\$4,726,758	\$4,910,742	\$4,957,575
Plus Net Income	2,852,105	902,702	396,200	269,670	(32,429)	(73,511)
Less Capital Improvements	(950,607)	(1,176,840)	(929,440)	(883,440)	(884,440)	(886,440)
Less ERP Proj Costs	-	(80,833)	-	-	-	-
Plus Deprec/Amort	910,382	942,069	981,297	1,012,278	1,041,726	1,071,208
Less Debt Principal	(135,100)	(135,450)	(135,800)	(136,500)	-	-
Less LCP Payment	<u>(78,024)</u>	(78,024)	<u>(78,024)</u>	<u>(78,024)</u>	(78,024)	<u>(78,024)</u>
Ending Balance	\$4,118,902	\$4,492,526	\$4,726,758	\$4,910,742	\$4,957,575	\$4,990,807
As a percent of revenue	21.6%	24.4%	24.9%	24.6%	24.1%	23.5%



Neighboring Utilities – Residential Comparison

Table 4-9
Monthly Bill Comparison
Residential Rates

Monthly Consumption kWh	GRPUC existing	GRPUC 2023 Proposed	LCP Existing	Brainerd Existing	MP Existing	MP Interim
300	\$41.64	\$39.38	\$84.09	\$44.69	\$49.26	\$51.68
700	88.61	83.34	140.21	82.61	102.53	107.42
1000	127.68	120.16	182.30	111.05	142.49	149.22
1250	160.24	150.83	217.38	134.75	175.79	184.05
1500	192.80	181.51	252.45	158.45	209.09	218.89

Time-of-Use Considerations

Table 4-10 Example TOU Rate

Residential

Item	Rate
Customer charge	\$10.25/mo.
On-peak Energy ⁽¹⁾	\$0.1612/kWh
Off-peak Energy	\$0.0806/kWh

(1) On-peak – 8 a.m. to 8 p.m. Monday through Friday



Large Transformer - Residential

Table 4-11 Increased Transformation Charge

Residential

Item	Value
Installed Cost (25 kVa)	\$10,756
Annual Fixed Costs as % of Cost	
Depreciation	3%
Interest	4%
O&M	<u>1%</u>
Total	8%
Annual Fixed Cost (25 kVa)	\$860
Annual Fixed Cost/kVa	\$34.42
Monthly Fixed Cost/kVa	\$2.87



Electric Bottom Line

- Total Electric 2027 cash reserves increase by \$1.6 million
- New PPAC passes through more MISO transmission costs which are outside GRPUC control



Item 2.

Rate Recommendations - Water

Water

- Annual increases of 10% per year
- Some cost-of-service adjustments



Cost-of-Service Adjusments

Table 4-1
Average Annual Rate Increases

Customer Class	Avg Increase
Residential	10.0%
Commercial	12.5%
Industrial	8.1%
Multi-Family	4.7%
LaPrairie	10.4%
Total System	10.0%



Projected Operating Results at Proposed Rates

Table 4-2
Projected Operating Results
Proposed Rates

Year	2022	2023	2024	2025	2026	2027
Operating Revenues	\$1,917,471	\$2,104,403	\$2,314,504	\$2,548,847	\$2,810,666	\$3,103,141
Less Operating Expenses	(1,857,320)	(1,924,009)	(2,188,640)	(2,309,776)	(2,422,246)	(2,536,321)
Less Non -Operating Expenses	<u>(58,171)</u>	<u>(69,105)</u>	(293,836)	(288,518)	(279,975)	(274,149)
Net Income	\$1,980	\$111,289	\$(167,972)	\$(49,447)	\$108,444	\$292,670
Net Income as Percent of Revenues	0.1%	5.3%	-7.3%	-1.9%	3.9%	9.4%



Projected Cash Reserves at Proposed Rates

Table 4-3
Projected Cash Reserves
Proposed Rates

Year	2022	2023	2024	2025	2026	2027
Beginning Balance	\$1,087,187	\$178,992	\$(689,700)	\$619,768	\$(21,990)	\$(391,611)
Plus Net Income	1,980	111,289	(167,972)	(49,447)	108,444	292,670
Less Capital Improvements	(452,761)	(6,005,500)	(1,363,575)	(973,580)	(912,511)	(1,274,000)
Less ERP Project Costs	-	(80,833)	-	-	-	-
Plus Depreciation	332,035	347,127	547,310	592,763	625,216	654,633
Plus State Grants	-	-	2,500,000	-	-	-
Plus Available Bond Funds	-	4,850,000	-	-	-	-
Less Existing Debt Principal	(789,450)	(90,775)	(94,100)	(94,250)	(68,250)	(71,500)
Less New Debt Principal	<u>-</u>	<u>-</u>	<u>(112,195)</u>	(117,244)	<u>(122,520)</u>	(128,033)
Ending Balance	\$178,992	\$(689,700)	\$619,768	\$(21,990)	\$(391,611)	\$(917,842)
Reserves as % of Operating Revenue	9.3%	-32.8%	26.8%	-0.9%	-13.9%	-29.6%



Residential Bill Impact

Table 4-4
Monthly Water Bill Comparisons

Residential Usage (gallons)	2,000	3,000	6,000
Current Rate	\$16.25	\$20.04	\$33.39
2023 Proposed	17.88	22.05	36.74
2024 Proposed	19.67	24.26	40.43
2025 Proposed	21.64	26.69	44.48
2026 Proposed	23.81	29.37	48.95
2027 Proposed	26.20	32.32	53.86



Water Bottom Line

Total Water 2027 cash reserves increase by \$3 million



Rate Recommendations – Domestic Wastewater

Domestic Wastewater

- Annual increases of 5% per year
- New water meter size based customer charges



Monthly Customer Charges

- Current monthly customer charges
 - -All City Customers \$11.02
 - -All Rural Customers \$12.04
 - -LaPrairie \$11.73
 - -Cohasset \$12.14



Customer Charges

		2023	2024	2025	2026	2027
Customer Charges	Current	Proposed	Proposed	Proposed	Proposed	Proposed
Residential/Commercial/Industrial	Rate	Rate	Rate	Rate	Rate	Rate
5/8-3/4 inch	n/a	11.50	12.00	12.60	13.30	14.00
1 inch	n/a	13.00	15.00	17.00	19.00	21.00
1 1/4 inch	n/a	15.00	17.00	19.00	21.50	24.00
1 1/2 inch	n/a	17.00	20.00	23.00	26.00	29.00
2 inch	n/a	20.00	25.00	30.00	40.00	50.00
3 inch	n/a	25.00	30.00	35.00	45.00	55.00
4 inch	n/a	35.00	45.00	55.00	65.00	75.00
6 inch	n/a	50.00	60.00	70.00	75.00	85.00



Projected Operating Results at Proposed Rates

Table 3-2
Projected Operating Results
Proposed Rates

Year	2022	2023	2024	2025	2026	2027
Operating Revenues	\$1,857,414	\$1,967,502	\$2,080,082	\$2,200,382	\$2,329,451	\$2,463,563
Less Operating Expenses	(1,739,764)	(1,925,685)	(1,685,572)	(1,751,177)	(1,817,935)	(1,892,360)
Less Non -Operating Expenses	<u>(81,595)</u>	(86,371)	(162,550)	(168,633)	(160,547)	<u>(155,261)</u>
Net Income	36,054	(44,554)	231,959	280,572	350,969	415,942
Net Income as Percent of Revenues	1.9%	-2.3%	11.2%	12.8%	15.1%	16.9%



Projected Cash Reserves at Proposed Rates

Table 3-3
Projected Cash Reserves
Proposed Rates

Year	2022	2023	2024	2025	2026	2027
Beginning Balance	\$904,673	\$280,237	\$1,025,670	\$577,164	\$234,045	\$(145,995)
Plus Net Income	36,054	(44,554)	231,959	280,572	350,969	415,942
Less Capital Improvements	(344,289)	(1,097,350)	(735,067)	(697,100)	(849,435)	(528,000)
Less ERP Project Costs	-	(80,833)	-	-	-	-
Plus Depreciation/Amortization	237,213	248,690	285,268	309,770	333,007	361,321
Plus Available Bond Funds	-	1,900,000	-	-	-	-
Less Existing Debt Principal	(553,414)	(180,519)	(185,788)	(189,464)	(165,572)	(171,094)
Less New Debt Principal	ے	_	<u>(44,878)</u>	(46,898)	(49,008)	(51,213)
Ending Balance	\$280,237	\$1,025,670	\$577,164	\$234,045	\$(145,995)	\$(119,038)
Reserves as % of Operating Revenue	15.1%	52.1%	27.7%	10.6%	-6.3%	-4.8%



Residential Bill Impact

Table 3-4
Monthly Wastewater Bill Comparisons

Residential Usage (gallons)	2,000	3,000	6,000
Current Rate	\$19.90	\$24.34	\$37.66
2023 Proposed	20.86	25.54	39.58
2024 Proposed	21.88	26.82	41.64
2025 Proposed	22.98	28.17	43.74
2026 Proposed	24.16	29.59	45.88
2027 Proposed	25.36	31.04	48.08



Domestic Wastewater Bottom Line

 Total Domestic Wastewater 2027 cash reserves increase by \$1.5 million



Blandin Wastewater Treatment Billing

- Blandin pays its calculated share of WW treatment plant costs
- Current monthly billing is very detailed and time consuming
- Recommending new billing process
 - Annual estimate of Blandin costs
 - Monthly bill = annual cost divided by 12
 - End of year detailed reconciliation of estimate vs. actual
 - Difference between estimate and actual included in first 6 monthly bills of succeeding year



Item 2.

Before and After Reserves

Combined End of Year Reserves – Existing Rates

	2022	2023	2024
Electric	\$ 4,118,902	\$ 4,521,158	\$ 4,755,960
Water	178,992	(858,321)	92,587
Domestic WW	 280,237	 933,198	 296,946
Total	\$ 4,578,131	\$ 4,596,034	\$ 5,145,493
	2025	2026	2027
Electric	\$ 4,495,451	\$ 3,990,969	\$ 3,358,155
Water	(1,121,727)	(2,305,049)	(3,916,555)
Domestic WW	 (336,782)	 (1,118,796)	 (1,610,092)
Total	\$ 3,036,941	\$ 567,123	\$ (2,168,492)



Combined Reserve Funds – Proposed Rates

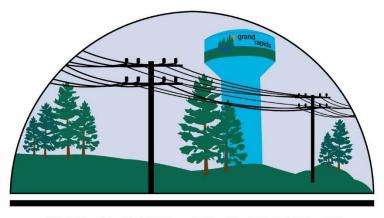
Projected EOY Cash Reserves Proposed Rates

Utility	2022	2023	2024	2025	2026	2027
Electric	\$4,118,902	\$4,492,526	\$4,726,758	\$4,910,742	\$4,957,575	\$4,990,807
Water	280,237	1,025,670	577,164	234,045	(145,995)	(119,038)
Wastewater	178,992	(689,700)	619,768	<u>(21,990)</u>	(391,611)	<u>(917,842)</u>
Total	\$4,578,131	\$4,828,496	\$5,923,691	\$5,122,797	\$4,419,969	\$3,953,928



Item 2.

Questions/Discussion



GRAND RAPIDS PUBLIC UTILITIES

Service is Our Nature

DOMESTIC WASTEWATER RATE DESIGN STUDY

Draft Report

November 23, 2022



REPORT OUTLINE

Cover Letter

Section 1 - Introduction

Section 2 – Projected Operating Results – Existing Rates

Section 3 – Proposed Rates

Item 2.



November 29, 2022

Grand Rapids Public Utilities Commission 500 SE 4th Street Grand Rapids, MN 55744

Subject: Domestic Wastewater Rate Study

Commission Members:

Dave Berg Consulting, LLC has undertaken a study of the retail rates GRPUC charges its customers for domestic wastewater services. This report summarizes the analysis undertaken and the resulting recommendations for changes to the existing rates.

Based on the financial needs of the domestic wastewater utility for the projected study period of 2023-2027, I am recommending annual 5% increases in overall wastewater rates each year. Additional rate design recommendations are presented in Section 3 of the report.

Thank you for the opportunity to be of service to GRPUC through the conduct of this study. I wish to express my appreciation for the valuable assistance I received from GRPUC staff relative to the execution of this study.

Sincerely,

Dave Berg Consulting, LLC

David A. Berg, PE Principal

Section 1

Introduction

The City of Grand Rapids, MN owns a municipal utility providing service to approximately 3,200 retail wastewater customers and wholesale service to 2 neighboring communities (LaPrairie and Cohasset). The wastewater utility is operated under the direction of the Grand Rapids Public Utilities Commission (GRPUC). This report has been prepared by Dave Berg Consulting, LLC to examine the rates and charges for domestic wastewater services in Grand Rapids. This study does not address wastewater treatment services to Blandin. The study includes projected operating results for 2022-2027 (Study Period). As a result of the analyses undertaken and reported on herein, wastewater rate recommendations have been developed for implementation by GRPUC.

Section 2 Projected Operating Results Existing Rates

The rates charged for domestic wastewater service by GRPUC, combined with other operating and non-operating revenues, must be sufficient to meet the cost of providing services to GRPUC's customers. This is necessary to ensure the long-term financial health of the GRPUC domestic wastewater utility. The cost of providing utility service consists of normal operating expenses for domestic wastewater systems, customer and A&G functions, system depreciation expenses, capital improvements and other non-operating expenses.

An analysis of the operating results for the GRPUC domestic wastewater utility during the 2022-2027 Study Period has been performed assuming the current retail rates and charges remain in effect through the Study Period. This analysis has been done to determine the overall need, if any, for additional revenue through rates to meet projected revenue requirements. The analyses and assumptions utilized in these projections are explained below.

Estimated Revenues – Existing Rates

Operating Revenues

GRPUC provides domestic wastewater services to residential, commercial and industrial customers. It also provides wholesale service to the communities of La Prairie and Cohasset. Total sales to GRPUC customers for the Study Period are assumed to increase by 1% each year through the Study Period.

Section 2

Exhibit 2-A is a summarized listing of GRPUC's historical and projected domestic wastewater operating results at existing rates. The historical and projected revenues from sales to different groups of customers are included as part of Utility Revenues. Utility revenues also include fees from septage haulers.

Other Operating Revenues

GRPUC also receives other miscellaneous operating revenue from other normal operating procedures. These other operating revenues include service connections, permit fees, merchandise and jobbing, jetting services, maintenance services, and other miscellaneous operating revenues. These revenues are also included in the Total Operating Revenues in Exhibit 2-A.

Revenue Requirements

Operating Expenses

Operating expenses for the domestic wastewater system are shown in Exhibit 2-A. Projections of operating expenses are based on budgeted amounts provided by GRPUC.

Depreciation

GRPUC has annual depreciation costs associated with domestic wastewater system investments. Depreciation during the Study Period is based on budgeted GRPUC amounts. Depreciation is a funded non-cash expense that generates monies available for annual capital improvements, debt principal payments and reserves.

Projected Operating Results - Existing Rates

Non-operating Income (Expenses)

GRPUC's non-operating income and expenses are associated with penalties, interest expenses, bond fees, and costs and revenues associated with the combined service center.

Capital Improvements

GRPUC makes annual capital investments in its domestic wastewater system. The domestic wastewater utility also pays a share of improvements to the combined service center. The combined capital improvements for the domestic wastewater utility are shown in Table 2-1 below.

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Table 2-1
Capital Improvements

Capital Item	2022	2023	2024	2025	2026	2027
Wastewater Capital	\$333,289	\$1,027,300	\$720,067	\$694,100	\$846,435	\$525,000
Service Center Capital	<u>\$10,975</u>	<u>\$70,050</u>	<u>\$15,000</u>	<u>\$3,000</u>	<u>\$3,000</u>	<u>\$3,000</u>
Total	\$344,289	\$1,097,350	\$735,067	\$697,100	\$849,435	\$528,000

Debt Service

GRPUC had a large debt issue partially payable by the domestic wastewater utility that was paid in full in February of 2022. The domestic wastewater utility is also responsible for payment of a portion of two General Obligation bonds issued in 2021 and a Clean Water Revolving fund from 2009. Additionally, it is estimated that \$2.0 million in new debt will be issued in late 2023 to support ongoing capital improvements. Table 2-2 summarizes the current and planned debt service for the domestic wastewater utility.

Section 2

Table 2-2
Annual Debt Service

Item	2022	2023	2024	2025	2026	2027
Current Interest	\$36,434	\$36,410	\$20,957	\$27,378	\$22,670	\$17,806
Current Principal	\$553,414	\$180,519	\$185,788	\$189,464	\$165,572	\$171,094
Planned Interest	-	-	\$90,000	\$87,980	\$85,870	\$83,665
Planned Principal	=	=	<u>\$48,878</u>	<u>\$46,898</u>	<u>\$49,008</u>	<u>\$51,213</u>
Total Debt	\$589,848	\$216,929	\$341,623	\$351,720	\$323,121	\$323,778

Projected Operating Results – Existing Rates

Based on the assumptions outlined above, the resulting projected operating results assuming continued application of the existing retail rates are summarized below in Table 2-3. A summary presentation of the historical and projected operating results is also shown in Exhibit 2-A

Projected Operating Results – Existing Rates

Table 2-3
Projected Operating Results
Existing Rates

Year	2022	2023	2024	2025	2026	2027
Operating Revenues	\$1,857,414	\$1,875,029	\$1,892,336	\$1,909,774	\$1,927,476	\$1,945,311
Less Operating Expenses	(1,739,764)	(1,925,685)	(1,685,572)	(1,751,177)	(1,817,935)	(1,892,360)
Less Non -Operating Expenses	<u>(81,595)</u>	(86,371)	(162,550)	(168,633)	(160,547)	(155,261)
Net Income	36,054	(137,027)	44,213	(10,037)	(51,006)	(102,310)
Net Income as Percent of Revenues	1.9%	-7.3%	2.3%	-0.5%	-2.6%	-5.3%

Cash Reserves

A summary of the impact of the projected operating results on GRPUC's cash reserves for the Study Period is shown at the end of Exhibit 2-A and in Table 2-3 below.

As shown below, under existing retail rates and estimated revenue requirements over the Study Period, the cash reserves for the domestic wastewater utility are projected to decrease from \$900,000 to negative \$1.6 million by the end of the Study Period. As a percentage of operating revenues, reserves are projected to decrease from 49% to negative 83% during the Study Period.

Section 2

Table 2-3
Projected Cash Reserves
Existing Rates

Year	2022	2023	2024	2025	2026	2027
Beginning Balance	\$904,673	\$280,237	\$933,198	\$296,946	\$(336,782)	\$(1,118,796)
Plus Net Income	36,054	(137,027)	44,213	(10,037)	(51,006)	(102,310)
Less Capital Improvements	(344,289)	(1,097,350)	(735,067)	(697,100)	(849,435)	(528,000)
Less ERP Project Costs	-	(80,833)	-	-	-	-
Plus Depreciation/Amortization	237,213	248,690	285,268	309,770	333,007	361,321
Plus Available Bond Funds	-	1,900,000	-	-	-	-
Less Existing Debt Principal	(553,414)	(180,519)	(185,788)	(189,464)	(165,572)	(171,094)
Less New Debt Principal	<u>-</u>	<u>-</u>	(44,878)	(46,898)	<u>(49,008)</u>	(51,213)
Ending Balance	\$280,237	\$933,198	\$296,946	\$(336,782)	\$(1,118,796)	\$(1,610,092)
Reserves as % of Operating Revenue	15.1%	49.8%	15.7%	-17.6%	-58.0%	-82.8%

Grand Rapids Public Utilites Commission Domestic Wastewater Operating Results at Existing Rates

		Historical				Projected												
		2017		2018		2019		2020		2021		2022	2023	202		2025	2026	2027
OPERATING REVENUES																		
Utility Revenues																		
City	Ś	1,400,265	Ś	1,451,844	Ś	1,526,688	Ś	1,470,730	Ś	1,552,917	Ś	1,572,118 \$	1,588,171	\$ 1,603,998	3 \$	1,619,941 \$	1,636,133 \$	1,652,443
Rural		148,245	*	140,786	*	148,936	*	145,720	-	137,664	\$	149,071	150,633	152,113		153,609	155,119	156,644
Septage haulers		85,508		101,253		111,071		154,531		155,932	Ψ.	124,335	124,335	124,335		124,335	124,335	124,335
	Ś		\$	1,693,883	ċ	1,786,695	ć	1,770,981	<u>,</u>	1,846,513	Ś	1,845,524 \$	1,863,139			1,897,884 \$	1,915,586 \$	1,933,421
Total Utility Revenues Other Operating Revenues	ş	1,034,016	Ş	1,055,005	ş	1,760,093	Ş	1,770,561	Ş	1,040,313	ş	1,043,324 \$	1,003,135	3 1,000,440	ڊ ر	1,057,004 \$	1,513,360 \$	1,555,421
Other Other	Ś	26,582	ć	30.448	ć	15,928	ć	24,298	<u>.</u>	18.094	Ś	11,890 \$	11,890	\$ 11,890		11,890 \$	11,890 \$	11,890
	Ş		Ş	,	Ş		Þ		Þ	-,	Ş	11,690 \$	11,690	5 11,690	υş	11,690 \$	11,690 \$	11,690
Penalties		5,247	_	5,625	_	5,492		1,157		1,676	 							 -
Total Operating Revenues	\$	1,665,847	Ş	1,729,956	\$	1,808,115	\$	1,796,436	Ş	1,866,283	\$	1,857,414 \$	1,875,029	\$ 1,892,336	5 \$	1,909,774 \$	1,927,476 \$	1,945,311
OPERATING EXPENSES																		
Collection																		
Operations																		
Supervision and engineering	\$	35,092	\$	30,099	\$	26,323	\$	26,143	\$	25,032	\$	25,902 \$	26,679	\$ 28,012	2 \$	29,413 \$	30,884 \$	32,428
Crew personnel		,	•	,	•	-,-				.,	•	132,696	136,677	143,511		150,686	158,220	166,132
Records												2,700	2,835	2,920		3,008	3,098	3,191
Inspections		19,908		11,122		640		330		1,012		1,000	1,050	1,082		1,114	1,147	1,182
Thawing mains & services		13,500		11,122		0.0		550		1,012		500	525	541		557	574	591
Locating expense		1,090		-		9,136		9,877		10,100		14,000	14,420	15,141		15,898	16,693	17,528
Service on customer premises		9,928		72		359		424		556		700	721	757		795	835	876
•		1,644		18,809		28,554		30,779		30,810		28,680	29,540	31,017		32,568	34,197	35,907
Mapping						488												
Small tools		2,326		1,070				919		2,059		1,200	1,260	1,298		1,337	1,377	1,418 7,091
Safety		2,948		3,709		2,042		3,467		4,076		6,000	6,300	6,489		6,684	6,884	
Seminar/training		25		6,632		7,600		1,262		5,659		6,300	6,615	6,813		7,018	7,228	7,445
Uniforms expense												200	210	216		223	230	236
Miscellaneous meetings												150	158	162	2	167	172	177
Other		2,443		97		69		87		95		· ·		-		-		
Stores		13,335		2,583		85		3,056		5,400		2,761	2,899	2,986		3,076	3,168	3,263
Power purchased		2,037		13,654		14,397		14,327		15,439		14,465	15,188	15,644	1	16,113	16,597	17,095
Maintenance																		
Lift stations		39,114		48,596		40,003		38,225		94,555		33,000	34,650	35,690		36,760	37,863	38,999
Mains		38,848		41,583		34,383		81,457		74,472		284,968	412,466	124,840)	128,585	132,443	136,416
Services		6,653		3,497		5,685		7,323		4,733		8,400	8,820	9,085	5	9,357	9,638	9,927
Miscellaneous		1,592		3,535		195		330		6,897		<u> </u>	3,600	3,708	3	3,819	3,934	4,052
Total Collection Expenses	\$	176,983	\$	185,058	\$	169,959	\$	218,006	\$	280,895	\$	563,621 \$	704,613	\$ 429,912	2 \$	447,178 \$	465,180 \$	483,952
Domestic Wastewater Treatment																		
Domestic plant	\$	71,997	\$	98,442	\$	88,623	\$	80,610	\$	88,786		79,763	83,788	86,359	9	89,012	91,752	94,581
Domestic portion of sec plant/serv center		452,935	•	445,364	•	431,736		433,422		464,234		496,756	496,756	496,756		496,756	496,756	496,756
Domestic portion of sludge disposal		.52,555		5,50 .		.51,750		.55, .22		.0.,25.		44,000	44,000	44,000		44,000	44,000	44,000
	_	-	_		_		_				_							
Total Domestic Plant Expenses	\$	524,932	\$	543,806	\$	520,359	\$	514,032	>	553,020	\$	620,519 \$	624,544	\$ 627,115	> \$	629,769 \$	632,508 \$	635,337
Other Operating Expenses																		
Customer accounts expense	\$	67,549	\$	69,584	\$	75,564	\$	65,153	\$	96,181	\$	69,762 \$	73,767	\$ 77,982	2 \$	82,440 \$	87,152 \$	92,135
Truck expense - operation												3,600	0	()	0	0	0
Administrative and general		232,836		233,050		242,805		209,342		263,013		245,048	274,072	265,295	5	282,021	300,087	319,614
Depreciation - wastewater collection		127,333		139,524		142,340		190,015		236,713		236,713	248,190	284,768	3	309,270	332,507	360,821
Depreciation - other		16,395		16,519		15,984		17,288		17,727		-	-	-		-	-	-
Amortization - intangibles		5,948		5,868		5,457		4,786		4,852		500	500	500)	500	500	500
Service center		22,098		17,749		21,258		18,027		20,514		-	-	-		-	-	-
Total Other Operating Expenses	\$		\$		\$	503,408	\$	504,611	\$	639,000	\$	555,624 \$	596,528	\$ 628,546	5 \$	674,231 \$	720,246 \$	773,071
Total Operating Expenses	\$	1,174,074	\$	1,211,158	\$	1,193,726	\$	1,236,649	\$	1,472,915	\$	1,739,764 \$	1,925,685	\$ 1,685,572	2 \$	1,751,177 \$	1,817,935 \$	1,892,360

Item 2.

Grand Rapids Public Utilites Commission Domestic Wastewater Operating Results at Existing Rates

	Historical					Projected							
	2017	2018	2019	2020	2021		2022	2023	2024	2025	2026	2027	
NET OPERATING INCOME	\$ 491,773 \$	518,798 \$	614,389 \$	559,787 \$	393,368	\$	117,649 \$	(50,656) \$	206,764 \$	158,596 \$	109,541 \$	52,951	
NON-OPERATING INCOME (EXPENSES)													
Gain (loss) on property disposition	\$ 3,000 \$	(94,827) \$	5,000 \$	- \$	27,500	\$	- \$	- \$	- \$	- \$	- \$	-	
Penalties	-	-	-	-	-		12,297	11,600	11,600	11,600	11,600	11,600	
Interest expense	(20,134)	(18,979)	(18,078)	(16,107)	(17,471)		(36,434)	(36,410)	(20,957)	(27,378)	(22,670)	(17,806)	
Less new debt interest	-	-	-	-	-		-	-	(90,000)	(87,980)	(85,870)	(83,665)	
Interest expense customer deposits	-	-	-	-	-		(1,160)	(1,160)	(1,160)	(1,160)	(1,160)	(1,160)	
Bond fees	(183)	(324)	(285)	(605)	(233)		(500)	(500)	(500)	(500)	(500)	(500)	
Amortization of debt premiums and discounts	(146)	(146)	(146)	(146)	(146)		-	-	-	-	-	-	
Amortization of regulatory asset	(374)	(374)	(374)	(374)	(1,016)		-	-	-	-	-	-	
Lease revenues combined service center	20,927	2,983	5,845	4,794	3,266		5,113	3,600	3,600	3,600	3,600	3,600	
CSC Bldg & Grounds Expenses	 	<u> </u>		<u> </u>	-		(60,910)	(63,501)	(65,133)	(66,815)	(65,546)	(67,330)	
Total Non-Operating Revenues (Expenses)	\$ 3,090 \$	(111,667) \$	(8,038) \$	(12,438) \$	11,900	\$	(81,595) \$	(86,371) \$	(162,550) \$	(168,633) \$	(160,547) \$	(155,261)	
NET INCOME	\$ 494,863 \$	407,131 \$	606,351 \$	547,349 \$	405,268	\$	36,054 \$	(137,027) \$	44,213 \$	(10,037) \$	(51,006) \$	(102,310)	
as a percent of Operating Revenues	29.7%	23.5%	33.5%	30.5%	21.7%		1.9%	-7.3%	2.3%	-0.5%	-2.6%	-5.3%	
CASH RESERVES													
Beginning of Year						\$	904,673 \$	280,237 \$	933,198 \$	296,946 \$	(336,782) \$	(1,118,796)	
Plus Net Income							36,054	(137,027)	44,213	(10,037)	(51,006)	(102,310)	
Less Capital Improvements							(344,289)	(1,097,350)	(735,067)	(697,100)	(849,435)	(528,000)	
Less ERP Project Costs							-	(80,833)	-	-	-	-	
Plus Depreciation/Amortization							237,213	248,690	285,268	309,770	333,007	361,321	
Plus Available Bond Funds							-	1,900,000	-	-	-	-	
Less Debt Service Principal							(553,414)	(180,519)	(185,788)	(189,464)	(165,572)	(171,094)	
Less New Debt Principal (1)									(44,878)	(46,898)	(49,008)	(51,213)	
End of Year				\$	904,673	\$	280,237 \$	933,198 \$	296,946 \$	(336,782) \$	(1,118,796) \$	(1,610,092)	
As a percent of revenue (1) Assumes \$2.0 million bond issue in late 2023.					48.5%		15.1%	49.8%	15.7%	-17.6%	-58.0%	-82.8%	

Section 3 Proposed Rates

Changes to rates are generally based on the overall need for revenues to fund operating expenses and maintain adequate cash reserve balance. The projected operating results at existing rates as presented in Section 2 of this report outline the overall revenue needs of the domestic wastewater utility. Those projections plus additional factors described below have been considered in developing the proposed rates summarized in this section of the report.

Proposed Rates

Revenue Needs

In Section 2, it shows that GRPUC's projected annual change in domestic wastewater net income, assuming continuation of the existing retail rates, declines from 1.9% of revenue in 2022 to negative 5.3% of revenue in 2027. Additionally, it also shows GRPUC's projected cash reserves decline from \$900,000 to negative \$1.6 million by the end of the Study Period. Based on these projected results, annual rate increases of 5% for each year 2023-2027 are recommended.

Recommended Rates

Exhibit 3-A shows the existing and recommended rates for domestic wastewater for each year from 2023-2027. Specific rate recommendations are outlined below.

Customer Charges

Under the current domestic wastewater rate structure, all customers pay a monthly customer charge ranging from \$11.02 per month to \$12.14 per month. There is no

Section 3

variation in customer charges for larger customers vs. smaller customers. GRPUC existing water rates differentiate monthly customer charges based on meter/service size. It is recommended that the domestic wastewater customer charges be based on the same meter/service sizes as each customer has for water service. In Exhibit 3-A a new series of customer charges based on size are summarized at the bottom of the exhibit.

LaPrairie and Cohasset

GRPUC provides wastewater service to the neighboring communities of LaPrairie and Cohasset. These communities are wholesale wastewater customers, they have their own collection systems and deliver wastewater to the GRPUC system for treatment. The current rates paid by these communities are lower than rates paid by GRPUC's regular retail customers to reflect the fact that they do not require use of entire GRPUC collection system to deliver their wastewater for treatment. An analysis has been undertaken to examine the discount for these communities as compared to the existing Residential commodity rate. Based on information provided by GRPUC staff, an estimate of the wastewater collection system dedicated to GRPUC retail customers and to LaPrairie and Cohasset was made. The System Investment in Table 3-1 shows these values. Based on annual values of 3% depreciation, 2% interest and 5% O&M, the total annual fixed cost for each entity was calculated. This fixed cost divided by sales results in the allocated fixed cost per unit for each group. A comparison of the LaPrairie and Cohasset values to the GRPUC value arrives at a cost-based reduction in commodity cost for each community. This cost-based reduction is an indication of how much lower the commodity rate could be for LaPrairie and Cohasset based their allocated system usage. A comparison of the cost-based reduction to the actual commodity rate reduction shows that LaPrairie's current rate reduction of \$1.79/unit is very close to the calculated costbased reduction of \$1.78/unit. For Cohasset, their current rate reduction of \$1.69/unit exceeds the cost-based reduction of \$0.95/unit. To reflect this analysis, the rate increases for Cohasset exceed the LaPrairie and overall increases as presented in Exhibit 3-A.

Table 3-1
LaPrairie and Cohasset

Item	GRPUC Total	Cohasset	LaPrairie
System Investment	\$ 5,649,642	\$427,588	\$7,695
3% Depreciation	\$169,489	\$12,828	\$231
2% Interest	\$112,993	\$8,552	\$154
5% O&M	\$282,482	\$21,379	<u>\$385</u>
Total Fixed Cost	\$564,964	\$42,759	\$769
Sales	304,606	47,055	10,701
Fixed Cost/Unit	\$1.85	\$0.91	\$0.07
Cost Reduction/Unit	n/a	\$0.95	\$1.78
Current Commodity Rate	\$4.44	\$2.75	\$2.65
Current Reduction	n/a	\$1.69	\$1.79

Projected Operating Results – Proposed Rates

Based on the proposed rates outlined above, the resulting projected operating results are summarized below in Table 3-2. A summary presentation of the operating results is shown in Exhibit 3-B.

Table 3-2
Projected Operating Results
Proposed Rates

Year	2022	2023	2024	2025	2026	2027
Operating Revenues	\$1,857,414	\$1,967,502	\$2,080,082	\$2,200,382	\$2,329,451	\$2,463,563
Less Operating Expenses	(1,739,764)	(1,925,685)	(1,685,572)	(1,751,177)	(1,817,935)	(1,892,360)
Less Non -Operating Expenses	<u>(81,595)</u>	(86,371)	(162,550)	(168,633)	(160,547)	(155,261)
Net Income	36,054	(44,554)	231,959	280,572	350,969	415,942
Net Income as Percent of Revenues	1.9%	-2.3%	11.2%	12.8%	15.1%	16.9%

Cash Reserves

A summary of the impact of the projected operating results with the proposed rate adjustments on GRPUC's cash reserves for the Study Period is shown at the end of Exhibit 3-B and in Table 3-3 below. As shown below, with the recommended increases, the reserve levels reach negative 4.8% of operating revenue in 2027.

Table 3-3
Projected Cash Reserves
Proposed Rates

Year	2022	2023	2024	2025	2026	2027
Beginning Balance	\$904,673	\$280,237	\$1,025,670	\$577,164	\$234,045	\$(145,995)
Plus Net Income	36,054	(44,554)	231,959	280,572	350,969	415,942
Less Capital Improvements	(344,289)	(1,097,350)	(735,067)	(697,100)	(849,435)	(528,000)
Less ERP Project Costs	-	(80,833)	-	-	-	-
Plus Depreciation/Amortization	237,213	248,690	285,268	309,770	333,007	361,321
Plus Available Bond Funds	-	1,900,000	-	-	-	-
Less Existing Debt Principal	(553,414)	(180,519)	(185,788)	(189,464)	(165,572)	(171,094)
Less New Debt Principal	<u>-</u>	<u>-</u>	(44,878)	(46,898)	(49,008)	<u>(51,213)</u>
Ending Balance	\$280,237	\$1,025,670	\$577,164	\$234,045	\$(145,995)	\$(119,038)
Reserves as % of Operating Revenue	15.1%	52.1%	27.7%	10.6%	-6.3%	-4.8%

Residential Bill Impact

Table 4-4 below summarizes the impact on monthly bills for different size residential customers. An average GRPUC residential customer consumes approximately 3000 gallons per month. For that average size customer, the first year bill increase is \$1.20 per month. For all customer usages shown, the annual increases are between 4.8% and 5.2% through 2027.

Table 3-4
Monthly Wastewater Bill Comparisons

Residential Usage (gallons)	2,000	3,000	6,000
Current Rate	\$19.90	\$24.34	\$37.66
2023 Proposed	20.86	25.54	39.58
2024 Proposed	21.88	26.82	41.64
2025 Proposed	22.98	28.17	43.74
2026 Proposed	24.16	29.59	45.88
2027 Proposed	25.36	31.04	48.08

Blandin Wastewater Treatment Billing

GRPUC bills its largest customer, Blandin, for Blandin's direct use of the GRPUC wastewater treatment facility for treating its industrial wastewater stream. Blandin is billed monthly for its share of actual wastewater treatment plant operating expenses. Analysis and creation of this monthly bill is a labor intensive activity for GRPUC billing personnel. It is recommended that GRPUC engage in discussions with Blandin to simplify this billing process. At the beginning of each year, GRPUC and Blandin would estimate and agree to a flat monthly payment by Blandin for estimated treatment services. At the end of the year, GRPUC would detail the actual costs for the year and present to Blandin for review. If the total estimated payments by Blandin exceed actual annual costs, GRPUC would issue a credit to Blandin the overpayment. If the estimated payments are less than the actual costs, Blandin would pay GRPUC for the total underpayment. This allows GRPUC to compile the detailed costs on an annual basis rather than on a monthly basis and Blandin would only need to review annual costs rather than monthly costs. The option also exists that for any credit owed Blandin, it could be spread over the next 6 monthly estimated bills and any under payment by Blandin could also be spread over 6 monthly bills as an additional amount owed.

Grand Rapids Public Utilities Commission Existing and Proposed Rates

	•	2023	2024	2025	2026	2027
Class	Current Rate	Proposed Rate	Proposed Rate	Proposed Rate	Proposed Rate	Proposed Rate
City Residential	Nate	Nate	Nate	Nate	Nate	Nate
Customer Charge	11.02	n/a	n/a	n/a	n/a	n/a
Commodity Charge	4.44	4.68	4.94	5.19	5.43	5.68
commounty enable				3.13	3.13	3.00
City Commercial						
Customer Charge	11.02	n/a	n/a	n/a	n/a	n/a
Commodity Charge	4.90	4.99	5.17	5.37	5.54	5.71
City Commercial 2nd Meter						
Commodity Charge	4.90	4.99	5.17	5.37	5.54	5.71
City Communical Blandin Flore						
City Commercial - Blandin Flow	4.00	4.00	5.17	5.37	5.54	5.71
Commodity Charge	4.90	4.99	5.17	5.57	5.54	5.71
City Industrial						
Customer Charge	11.02	n/a	n/a	n/a	n/a	n/a
Commodity Charge	4.90	4.99	5.17	5.37	5.54	5.71
Rural Residential						
Customer Charge	12.04	n/a	n/a	n/a	n/a	n/a
Commodity Charge	4.90	4.99	5.17	5.37	5.54	5.71
Rural Commercial						
Customer Charge	12.04	n/a	n/a	n/a	n/a	n/a
Commodity Charge	5.36	5.45	5.63	5.83	6.00	6.17
Rural Industrial (LaPrairie)						
Customer Charge	11.73	n/a	n/a	n/a	n/a	n/a
Commodity Charge	2.65	2.75	2.88	3.02	3.17	3.33
Rural Industrial (Cohasset)						
Customer Charge	12.14	n/a	n/a	n/a	n/a	n/a
Commodity Charge	2.75	2.90	3.05	3.20	3.36	3.55
Customer Charges						
Residential/Commercial/Industrial						
5/8-3/4 inch	n/a	11.50	12.00	12.60	13.30	14.00
1 inch	n/a	13.00	15.00	17.00	19.00	21.00
1 1/4 inch	n/a	15.00	17.00	19.00	21.50	24.00
1 1/2 inch	n/a	17.00	20.00	23.00	26.00	29.00
2 inch	n/a	20.00	25.00	30.00	40.00	50.00
3 inch	n/a	25.00	30.00	35.00	45.00	55.00
4 inch	n/a	35.00	45.00	55.00	65.00	75.00
6 inch	n/a	50.00	60.00	70.00	75.00	85.00

Grand Rapids Public Utilites Commission Domestic Wastewater Operating Results at Proposed Rates

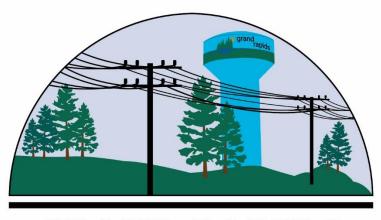
		Historical					Projected										
		2017		2018	2019	1	2020		2021		2022	2023	2024	ctcu	2025	2026	2027
OPERATING REVENUES																	
Utility Revenues																	
City	\$	1,400,265	\$	1,451,844 \$	1,526,688	\$	1,470,730	\$	1,552,917	\$	1,572,118 \$	1,671,342 \$	1,773,648	\$	1,883,368 \$	2,001,125 \$	2,122,176
Rural		148,245		140,786	148,936		145,720		137,664	\$	149,071	159,935	170,209		180,790	192,101	205,162
Septage haulers		85,508		101,253	111,071		154,531		155,932		124,335	124,335	124,335		124,335	124,335	124,335
Total Utility Revenues	\$	1,634,018	\$	1,693,883 \$	1,786,695	\$	1,770,981	\$	1,846,513	\$	1,845,524 \$	1,955,612 \$	2,068,192	\$	2,188,492 \$	2,317,561 \$	2,451,673
Other Operating Revenues																	
Other	\$	26,582	\$	30,448 \$	15,928	\$	24,298	\$	18,094	\$	11,890 \$	11,890 \$	11,890	\$	11,890 \$	11,890 \$	11,890
Penalties		5,247		5,625	5,492		1,157		1,676		-	-	-		-	-	-
Total Operating Revenues	\$	1,665,847	\$	1,729,956 \$	1,808,115	\$	1,796,436	\$	1,866,283	\$	1,857,414 \$	1,967,502 \$	2,080,082	\$	2,200,382 \$	2,329,451 \$	2,463,563
OPERATING EXPENSES Collection																	
Operations																	
Supervision and engineering	Ś	35,092	Ś	30,099 \$	26,323	Ś	26,143	Ś	25,032	\$	25,902 \$	26,679 \$	28,012	Ś	29,413 \$	30,884 \$	32,428
Crew personnel	•	,	•		-,-	•			-,	•	132,696	136,677	143,511		150,686	158,220	166,132
Records											2,700	2,835	2,920		3,008	3,098	3,191
Inspections		19,908		11,122	640		330		1,012		1,000	1,050	1,082		1,114	1,147	1,182
Thawing mains & services		.,		,					,-		500	525	541		557	574	591
Locating expense		1,090		-	9,136		9,877		10,100		14,000	14,420	15,141		15,898	16,693	17,528
Service on customer premises		9,928		72	359		424		556		700	721	757		795	835	876
Mapping		1,644		18,809	28,554		30,779		30,810		28,680	29,540	31,017		32,568	34,197	35,907
Small tools		2,326		1,070	488		919		2,059		1,200	1,260	1,298		1,337	1,377	1,418
Safety		2,948		3,709	2,042		3,467		4,076		6,000	6,300	6,489		6,684	6,884	7,091
Seminar/training		25		6,632	7,600		1,262		5,659		6,300	6,615	6,813		7,018	7,228	7,445
Uniforms expense				2,222	1,000		_,		2,222		200	210	216		223	230	236
Miscellaneous meetings											150	158	162		167	172	177
Other		2,443		97	69		87		95		-	-	-		-	-	
Stores		13,335		2,583	85		3,056		5,400		2,761	2,899	2,986		3,076	3,168	3,263
Power purchased		2,037		13,654	14,397		14,327		15,439		14,465	15,188	15,644		16,113	16,597	17,095
Maintenance		2,037		25,05	1,,557		1,,52,		13,133		21,103	15,100	13,011		10,110	10,557	17,055
Lift stations		39,114		48,596	40,003		38,225		94,555		33,000	34,650	35,690		36,760	37,863	38,999
Mains		38,848		41,583	34,383		81,457		74,472		284,968	412,466	124,840		128,585	132,443	136,416
Services		6,653		3,497	5,685		7,323		4,733		8,400	8,820	9,085		9,357	9,638	9,927
Miscellaneous		1,592		3,535	195		330		6,897		-	3,600	3,708		3,819	3,934	4,052
Total Collection Expenses	\$	176,983	Ċ	185,058 \$	169,959	Ċ	218,006	ċ	280,895	\$	563,621 \$	704,613 \$	429,912	ċ	447,178 \$	465,180 \$	483,952
Total Collection Expenses	Ý	170,383	Ą	185,056 \$	105,555	Ý	210,000 ,	Ų	200,033	Ý	303,021 3	704,013 \$	423,312	Ý	447,170 9	403,180 3	403,332
Domestic Wastewater Treatment																	
Domestic plant	\$	71,997	\$	98,442 \$	88,623	\$	80,610	\$	88,786		79,763	83,788	86,359		89,012	91,752	94,581
Domestic portion of sec plant/serv center		452,935		445,364	431,736		433,422		464,234		496,756	496,756	496,756		496,756	496,756	496,756
Domestic portion of sludge disposal		-		<u> </u>	-				-		44,000	44,000	44,000		44,000	44,000	44,000
Total Domestic Plant Expenses	\$	524,932	\$	543,806 \$	520,359	\$	514,032	\$	553,020	\$	620,519 \$	624,544 \$	627,115	\$	629,769 \$	632,508 \$	635,337
Other Operating Expenses																	
Customer accounts expense	\$	67,549	\$	69,584 \$	75,564	\$	65,153	\$	96,181	\$	69,762 \$	73,767 \$	77,982	\$	82,440 \$	87,152 \$	92,135
Truck expense - operation											3,600	0	0		0	0	0
Administrative and general		232,836		233,050	242,805		209,342		263,013		245,048	274,072	265,295		282,021	300,087	319,614
Depreciation - wastewater collection		127,333		139,524	142,340		190,015		236,713		236,713	248,190	284,768		309,270	332,507	360,821
Depreciation - other		16,395		16,519	15,984		17,288		17,727		-	-	-		-	-	-
Amortization - intangibles		5,948		5,868	5,457		4,786		4,852		500	500	500		500	500	500
Service center		22,098		17,749	21,258		18,027		20,514		<u> </u>	<u> </u>	-		<u> </u>	-	-
Total Other Operating Expenses	\$	472,159	\$	482,294 \$	503,408	\$	504,611	\$	639,000	\$	555,624 \$	596,528 \$	628,546	\$	674,231 \$	720,246 \$	773,071
Total Operating Expenses	\$	1,174,074	\$	1,211,158 \$	1,193,726	\$	1,236,649	\$	1,472,915	\$	1,739,764 \$	1,925,685 \$	1,685,572	\$	1,751,177 \$	1,817,935 \$	1,892,360

Item 2.

Grand Rapids Public Utilites Commission Domestic Wastewater Operating Results at Proposed Rates

	Historical							Projected					
	 2017	2018	2019	2020	2021		2022	2023	2024	2025	2026	2027	
NET OPERATING INCOME	\$ 491,773 \$	518,798 \$	614,389 \$	559,787 \$	393,368	\$	117,649 \$	41,817 \$	394,509 \$	449,205 \$	511,516 \$	571,203	
NON-OPERATING INCOME (EXPENSES)													
Gain (loss) on property disposition	\$ 3,000 \$	(94,827) \$	5,000 \$	- \$	27,500	\$	- \$	- \$	- \$	- \$	- \$	-	
Penalties	-	-	-	-	-		12,297	11,600	11,600	11,600	11,600	11,600	
Interest expense	(20,134)	(18,979)	(18,078)	(16,107)	(17,471)		(36,434)	(36,410)	(20,957)	(27,378)	(22,670)	(17,806)	
Less new debt interest	-	-	-	-	-		-	-	(90,000)	(87,980)	(85,870)	(83,665)	
Interest expense customer deposits	-	-	-	-	-		(1,160)	(1,160)	(1,160)	(1,160)	(1,160)	(1,160)	
Bond fees	(183)	(324)	(285)	(605)	(233)		(500)	(500)	(500)	(500)	(500)	(500)	
Amortization of debt premiums and discounts	(146)	(146)	(146)	(146)	(146)		-	-	-	-	-	-	
Amortization of regulatory asset	(374)	(374)	(374)	(374)	(1,016)		-	-	-	-	-	-	
Lease revenues combined service center	20,927	2,983	5,845	4,794	3,266		5,113	3,600	3,600	3,600	3,600	3,600	
CSC Bldg & Grounds Expenses	 				-		(60,910)	(63,501)	(65,133)	(66,815)	(65,546)	(67,330)	
Total Non-Operating Revenues (Expenses)	\$ 3,090 \$	(111,667) \$	(8,038) \$	(12,438) \$	11,900	\$	(81,595) \$	(86,371) \$	(162,550) \$	(168,633) \$	(160,547) \$	(155,261)	
NET INCOME	\$ 494,863 \$	407,131 \$	606,351 \$	547,349 \$	405,268	\$	36,054 \$	(44,554) \$	231,959 \$	280,572 \$	350,969 \$	415,942	
as a percent of Operating Revenues	29.7%	23.5%	33.5%	30.5%	21.7%		1.9%	-2.3%	11.2%	12.8%	15.1%	16.9%	
CASH RESERVES													
Beginning of Year						\$	904,673 \$	280,237 \$	1,025,670 \$	577,164 \$	234,045 \$	(145,995)	
Plus Net Income							36,054	(44,554)	231,959	280,572	350,969	415,942	
Less Capital Improvements							(344,289)	(1,097,350)	(735,067)	(697,100)	(849,435)	(528,000)	
Less ERP Project Costs							-	(80,833)	-	-	-	-	
Plus Depreciation/Amortization							237,213	248,690	285,268	309,770	333,007	361,321	
Plus Available Bond Funds							-	1,900,000	-	-	-	-	
Less Debt Service Principal							(553,414)	(180,519)	(185,788)	(189,464)	(165,572)	(171,094)	
Less New Debt Principal (1)							-	-	(44,878)	(46,898)	(49,008)	(51,213)	
End of Year				\$	904,673	\$	280,237 \$	1,025,670 \$	577,164 \$	234,045 \$	(145,995) \$	(119,038)	
As a percent of revenue					48.5%		15.1%	52.1%	27.7%	10.6%	-6.3%	-4.8%	

(1) Assumes \$2.0 million bond issue in late 2023.



GRAND RAPIDS PUBLIC UTILITIES

Service is Our Nature

WATER COST OF SERVICE AND RATE DESIGN STUDY

Draft Report

November 23, 2022



REPORT OUTLINE

Cover Letter

Section 1 - Introduction

Section 2 – Projected Operating Results – Existing Rates

Section 3 - Cost of Service

Section 4 – Proposed Rates

Item 2.



November 29, 2022

Grand Rapids Public Utilities Commission 500 SE 4th Street

Grand Rapids, MN 55744

Subject: Water Rate Study

Commission Members:

Dave Berg Consulting, LLC has undertaken a study of the retail rates GRPUC charges its customers for water service. This report summarizes the analyses undertaken and the resulting recommendations for changes to the existing rates.

Based on the financial needs of the water utility for the projected study period of 2023-2027, I am recommending annual 10% increases in overall water rates each year. Based on the cost-of-service analysis, certain classes of customers will experience increases more than average and others will experience increases less than average. Section 4 of the report summarizes the recommendations in detail.

Thank you for the opportunity to be of service to GRPUC through the conduct of this study. I wish to express my appreciation for the valuable assistance I received from GRPUC staff relative to the execution of this study.

Sincerely,

Dave Berg Consulting, LLC

David A. Berg, PE Principal

Section 1

Introduction

The City of Grand Rapids, MN owns a municipal utility providing service to approximately 3,300 water customers. The water utility operates under the direction of the Grand Rapids Public Utilities Commission (GRPUC). This report has been prepared by Dave Berg Consulting, LLC to examine the rates and charges for water services in Grand Rapids. The study includes an examination of the allocated cost of service based on 2021 utility operations (Test Year). It also includes projected operating results for 2022-2027 (Study Period). As a result of the analyses undertaken and reported on herein, water rate recommendations have been developed for implementation by GRPUC.

Section 2 Projected Operating Results Existing Rates

The rates charged for water services by GRPUC, combined with other operating and non-operating revenues, must be sufficient to meet the cost of providing services to GRPUC's customers. This is necessary to ensure the long-term financial health of the GRPUC water utility. The cost of providing utility service consists of normal operating expenses for water systems, customer and A&G functions, system depreciation expenses, capital improvements and other non-operating expenses.

An analysis of the operating results for the GRPUC water utility during the 2022-2027 Study Period has been performed assuming the current rates and charges remain in effect through the Study Period. This analysis has been done to determine the overall need, if any, for additional revenue through rates to meet projected revenue requirements. The analyses and assumptions utilized in these projections are explained below.

Estimated Revenues - Existing Rates

Operating Revenues

GRPUC provides water services to residential, commercial and industrial customers as well as to the City of La Prairie on a wholesale basis. Total sales to GRPUC customers for the Study Period are assumed to increase 1% per year above current sales levels.

Exhibit 2-A is a summarized listing of GRPUC's historical and projected water operating results at existing rates. The historical and projected revenues from sales of water to different groups of customers are included as part of Utility Revenues.

Section 2

Other Operating Revenues

GRPUC also receives other miscellaneous operating revenue from other normal operating procedures. These other operating revenues include service connections, permit fees, thawing service, merchandizing and jobbing, antenna rent and other miscellaneous operating revenues. These revenues are also included in the Operating Revenues in Exhibit 2-A.

Revenue Requirements

Operating Expenses

Operating expenses for the water utility are shown in Exhibit 2-A. Projections of operating expenses are based on budgeted amounts provided by GRPUC.

Depreciation

GRPUC has annual depreciation costs associated with water system investments. Depreciation during the Study Period is based on budgeted GRPUC amounts. Depreciation is a funded non-cash expense that generates monies available for annual capital improvements, debt principal payments and reserves.

Non-operating Income (Expenses)

GRPUC's non-operating income and expenses are associated with penalties, interest expenses, and costs and revenues associated with the combined service center.

Capital Improvements

GRPUC makes annual capital investments in its water system. The water utility also pays a share of improvements to the combined service center. The combined capital improvements for the water utility are shown in Table 2-1 below.

Projected Operating Results - Existing Rates

Table 2-1
Capital Improvements

Capital Item	2022	2023	2024	2025	2026	2027
Water Capital	\$439,160	\$5,912,100	\$1,343,575	\$969,580	\$908,511	\$1,270,000
Service Center Capital	<u>\$13,601</u>	<u>\$93,400</u>	<u>\$20,000</u>	<u>\$4,000</u>	<u>\$4,000</u>	<u>\$4,000</u>
Total	\$452,761	\$6,005,500	\$1,363,575	\$973,580	\$912,511	\$1,274,000

Debt Service

GRPUC had a large debt issue partially payable by the water utility that was paid in full in February of 2022. The water utility is also responsible for payment of a portion of two General Obligation bonds issued in 2021. Additionally, it is estimated that \$5.0 million in new debt will be issued in late 2023 to support ongoing capital improvements. Table 2-2 summarizes the current and planned debt service for the water utility.

Table 2-2
Annual Debt Service

Item	2022	2023	2024	2025	2026	2027
Current Interest	\$12,818	\$18,964	\$17,063	\$15,113	\$13,114	\$11,018
Current Principal	\$789,450	\$90,775	\$94,100	\$94,250	\$68,250	\$71,500
Planned Interest	-	-	\$225,000	\$219,951	\$214,675	\$209,162
Planned Principal	<u>-</u>	<u>-</u>	<u>\$112,195</u>	<u>\$117,244</u>	<u>\$122,520</u>	<u>\$128,033</u>
Total Debt	\$802,268	\$109,739	\$448,358	\$446,558	\$418,559	\$419,713

Section 2

Projected Operating Results – Existing Rates

Based on the assumptions outlined above, the resulting projected operating results assuming continued application of the existing retail rates are summarized below in Table 2-3. A summary presentation of the historical and projected operating results is also shown in Exhibit 2-A.

Table 2-3
Projected Operating Results
Existing Rates

Year	2022	2023	2024	2025	2026	2027
Operating Revenues	\$1,917,471	\$1,935,782	\$1,955,944	\$1,976,291	\$1,996,965	\$2,017,865
Less Operating Expenses	(1,857,320)	(1,924,009)	(2,188,640)	(2,309,776)	(2,422,246)	(2,536,321)
Less Non -Operating Expenses	<u>(58,171)</u>	<u>(69,105)</u>	(293,836)	(288,518)	(279,975)	(274,149)
Net Income	\$1,980	\$(57,332)	\$(526,532)	\$(622,003)	\$(705,257)	\$(792,605)
Net Income as Percent of Revenues	0.1%	-3.0%	-26.9%	-31.5%	-35.3%	-39.3%

Cash Reserves

A summary of the impact of the projected operating results on GRPUC's cash reserves for the Study Period is shown at the end of Exhibit 2-A and in Table 2-4 below.

As shown below, under existing retail rates and estimated revenue requirements over the Study Period, the cash reserves for the water utility are projected to decrease from \$1.1 million to negative \$3.9 million by the end of the Study Period. As a percentage of operating revenues, reserves are projected to decrease from 58% to negative 194% during the Study Period. The cash reserve analysis also includes the assumption of securing \$2.5 million in state grants for water capital projects.

Projected Operating Results – Existing Rates

Table 2-3
Projected Cash Reserves-Water
Existing Rates

Year	2022	2023	2024	2025	2026	2027
Beginning Balance	\$1,087,187	\$178,992	\$(858,321)	\$92,587	\$(1,121,727)	\$(2,305,049)
Plus Net Income	1,980	(57,332)	(526,532)	(622,003)	(705,257)	(792,605)
Less Capital Improvements	(452,761)	(6,005,500)	(1,363,575)	(973,580)	(912,511)	(1,274,000)
Less ERP Project Costs	-	(80,833)	-	-	-	-
Plus Depreciation	332,035	347,127	547,310	592,763	625,216	654,633
Plus State Grants	-	-	2,500,000	-	-	-
Plus Available Bond Funds	-	4,850,000	-	-	-	-
Less Existing Debt Principal	(789,450)	(90,775)	(94,100)	(94,250)	(68,250)	(71,500)
Less New Debt Principal	<u>-</u>	<u>-</u>	(112,195)	(117,244)	(122,520)	(128,033)
Ending Balance	\$178,992	\$(858,321)	\$92,587	\$(1,121,727)	\$(2,305,049)	\$(3,916,555)
Reserves as % of Operating Revenue	9.3%	-44.3%	4.7%	-56.8%	-115.4%	-194.1%

Grand Rapids Public Utilites Commission Water Operating Results at Existing Rates

	 Historical						Projected					
	2017	2018	2019	2020	2021		2022	2023	2024	2025	2026	2027
OPERATING REVENUES												
Utility Revenues												
City sales	\$ 1,465,307 \$	1,453,122 \$	1,543,505 \$	1,531,862 \$	1,633,096	\$	1,626,338 \$	1,639,058 \$	1,653,714 \$	1,668,448 \$	1,683,400 \$	1,698,467
Rural sales	 34,796	30,816	34,744	35,249	37,877		38,616	39,156	39,511	39,870	40,233	40,599
Total Utility Revenues	\$ 1,500,103 \$	1,483,938 \$	1,578,249 \$	1,567,111 \$	1,670,973	\$	1,664,954 \$	1,678,214 \$	1,693,225 \$	1,708,318 \$	1,723,633 \$	1,739,066
Other Operating Revenues												
Miscellaneous service	\$ 184,560 \$	219,813 \$	247,799 \$	209,774 \$	213,862	\$	252,517 \$	257,568 \$	262,719 \$	267,973 \$	273,332 \$	278,799
Penalties	 5,307	5,564	5,492	1,157	1,676		<u> </u>	<u> </u>				
Total Operating Revenues	\$ 1,689,970 \$	1,709,315 \$	1,831,540 \$	1,778,042 \$	1,886,511	\$	1,917,471 \$	1,935,782 \$	1,955,944 \$	1,976,291 \$	1,996,965 \$	2,017,865
OPERATING EXPENSES												
Production												
Operations												
Supervision and engineering	\$ - \$	5,468 \$	- \$	- \$	-	\$	- \$	- \$	- \$	- \$	- \$	-
Operators wages	141,248	144,538	152,676	158,636	161,855		182,512	187,987	197,387	207,256	217,619	228,500
Water treatment expense	91,516	96,407	89,041	111,014	114,019		101,460	106,533	109,729	113,021	116,411	119,904
Station Supplies and Expenses							2,325	2,441	2,514	2,590	2,668	2,748
Permits and Fees							3,900	4,095	4,218	4,344	4,475	4,609
Miscellaneous Production Expense							15,000	15,750	16,223	16,709	17,210	17,727
Power purchased	164,487	167,067	169,964	168,760	195,190		166,570	174,899	180,145	185,550	191,116	196,850
Other	18,360	16,251	22,818	18,573	26,250		-	-	-	-	-	-
Maintenance												
Supervision	15,232	8,404	209	-	-		-	-	-	-	-	-
WTP buildings and grounds	13,609	7,904	10,565	6,761	17,906		18,600	19,530	20,116	20,719	21,341	21,981
WTP HVAC System							1,000	1,050	1,082	1,114	1,147	1,182
Wellhouses							4,500	4,725	4,867	5,013	5,163	5,318
Wellhead protection							1,000	1,050	1,082	1,114	1,147	1,182
Wells, pumps, mains	4,150	3,678	4,577	6,009	14,353		2,400	2,520	2,596	2,673	2,754	2,836
Maintenance of WTP equipment	37,707	32,868	40,549	62,363	51,511		60,490	66,015	67,995	70,035	72,136	74,300
Maintenance of SCADA System							8,040	11,442	8,785	9,049	9,320	9,600
Underground Clearwell							5,500	5,775	5,948	6,127	6,310	6,500
DCS	7,154	7,037	7,922	6,954	8,183		-	-	-	-	-	-
Inspections	 9,231	6,975	10,594	4,630	2,381		3,504	8,679	8,940	9,208	9,484	9,769
Total Production Expenses	\$ 502,694 \$	496,597 \$	508,915 \$	543,700 \$	591,648	\$	576,801 \$	612,491 \$	631,625 \$	654,522 \$	678,303 \$	703,004
Distribution												
Operations												
Supervision and engineering	\$ 17,899 \$	10,045 \$	27,437 \$	29,361 \$	43,108		38,593	39,751	41,738	43,825	46,016	48,317
Records	17,561	13,282	4,714	10,527	1,275		4,800	5,040	5,191	5,347	5,507	5,673
Inspections	1,289	-	619	6,325	11,359		9,000	17,950	18,489	19,043	19,614	20,203
Thaw and flush hydrants, etc.	376	10,005	18,499	4,932	8,054		11,700	12,285	12,654	13,033	13,424	13,827
Locating expense	-	-	15,686	21,105	13,630		21,000	21,630	22,712	23,847	25,039	26,291
Service on customer premises	6,195	8,841	21,008	7,372	46,238		21,996	22,656	23,789	24,978	26,227	27,538
Mapping	10,459	18,877	28,554	30,799	30,810		34,272	35,300	37,065	38,918	40,864	42,908
Small tools	2,672	2,440	1,665	3,412	3,465		2,400	6,920	2,728	2,809	2,894	2,981
Safety	3,674	9,408	5,683	9,000	14,826		16,500	16,995	17,845	18,737	19,674	20,658
Seminar/training	18,907	20,102	19,287	14,211	20,365		19,200	19,776	20,765	21,803	22,893	24,038
Uniforms Expense							300	315	324	334	344	355
Other	(4,253)	139	79	57	378		-	-	-	-	-	-
Stores	12,323	12,905	837	15,074	24,983		14,255	14,683	15,417	16,188	16,997	17,847
Maintenance												
Towers and tanks	57,562	50,438	3,076	8,573	16,669		5,000	5,250	5,408	5,570	5,737	5,909
Elevated Tank Control System							2,400	2,520	2,596	2,673	2,754	2,836

Grand Rapids Public Utilites Commission Water Operating Results at Existing Rates

	 Historical						Projected					
	2017	2018	2019	2020	2021		2022	2023	2024	2025	2026	2027
Booster Pump	· 	<u></u> -					2,130	2,237	2,304	2,373	2,444	2,517
Booster station	106	372	705	303	2,563		500	525	541	557	574	591
Mains and hydrants	128,861	182,080	108,480	138,680	93,945		232,000	200,000	206,000	212,180	218,545	225,102
Services	25,327	10,046	18,326	9,019	43,923		46,000	29,925	30,823	31,747	32,700	33,681
Meters	4,621	5,249	(367)	(2,553)	8,584		2,400	6,972	7,321	7,687	8,071	8,475
Other	10,042	3,060	472	147	5,320		-	-	-	-	-	-
Total Distribution Expenses	\$ 313,621 \$	357,289 \$	274,760 \$	306,344 \$	389,495	\$	484,446 \$	460,729 \$	473,706 \$	491,650 \$	510,319 \$	529,745
Other Operating Expenses												
Customer accounts expense	\$ 90,247 \$	92,884 \$	101,017 \$	88,418 \$	122,931	\$	91,935 \$	94,710 \$	99,428 \$	104,382 \$	109,584 \$	115,044
Administrative and general	322,604	336,698	330,815	320,734	335,912		372,103	408,953	436,570	466,459	498,825	533,895
Depreciation - water	272,370	293,004	305,680	325,827	331,343		331,035	346,127	546,310	591,763	624,216	654,633
Depreciation - other	16,395	16,519	15,984	17,288	17,727		-	-	-	-	-	-
Amortization - intangibles	5,948	5,868	5,457	4,786	4,852		1,000	1,000	1,000	1,000	1,000	-
Service center	22,098	17,749	21,258	18,027	20,513							
Total Other Operating Expenses	\$ 729,662 \$	762,722 \$	780,211 \$	775,080 \$	833,278	\$	796,073 \$	850,789 \$	1,083,309 \$	1,163,604 \$	1,233,624 \$	1,303,572
Total Operating Expenses	\$ 1,545,977 \$	1,616,608 \$	1,563,886 \$	1,625,124 \$	1,814,421	\$	1,857,320 \$	1,924,009 \$	2,188,640 \$	2,309,776 \$	2,422,246 \$	2,536,321
NET OPERATING INCOME	\$ 143,993 \$	92,707 \$	267,654 \$	152,918 \$	72,090	\$	60,151 \$	11,773 \$	(232,696) \$	(333,485) \$	(425,281) \$	(518,456)
NON-OPERATING INCOME (EXPENSES)												
Gain (loss) on property disposition	\$ 3,000 \$	- \$	(105,172) \$	1,125 \$	-	\$	- \$	- \$	- \$	- \$	- \$	-
Penalties	-	-	-	-	-		12,085	11,400	11,400	11,400	11,400	11,400
Bond fees	(342)	(606)	(533)	(1,132)	(992)		(500)	(500)	(500)	(500)	(500)	(500)
Amortization of debt premiums and discounts	(271)	(271)	(271)	(974)	(974)		-	-	-	-	-	-
Amortization of regulatory asset	(703)	(703)	(703)	-	(642)		-	-	-	-	-	-
Interest expense - customer deposits	(4,347)	(4,208)	(1,295)				(1,140)	(1,140)	(1,140)	(1,140)	(1,140)	(1,140)
Interest expense - existing debt	(34,300)	(32,639)	(31,242)	(28,771)	(28,643)		(12,818)	(18,964)	(17,063)	(15,113)	(13,114)	(11,018)
Interest expense - new debt (1)	-	-	-	-	-		-	-	(225,000)	(219,951)	(214,675)	(209,162)
Lease revenues combined service center	20,927	2,983	5,845	4,794	3,265		5,113	3,600	3,600	3,600	3,600	3,600
CSC Building/Grounds expenses	 	<u> </u>	<u> </u>	-	-		(60,910)	(63,501)	(65,133)	(66,815)	(65,546)	(67,330)
Total Non-Operating Revenues (Expenses)	\$ (16,036) \$	(35,444) \$	(133,371) \$	(24,958) \$	(27,986)	\$	(58,171) \$	(69,105) \$	(293,836) \$	(288,518) \$	(279,975) \$	(274,149)
NET INCOME	\$ 127,957 \$	57,263 \$	134,283 \$	127,960 \$	44,104	\$	1,980 \$	(57,332) \$	(526,532) \$	(622,003) \$	(705,257) \$	(792,605)
as a percent of Operating Revenues	7.6%	3.4%	7.3%	7.2%	2.3%		0.1%	-3.0%	-26.9%	-31.5%	-35.3%	-39.3%
CASH RESERVES												
Beginning of Year						\$	1,087,187 \$	178,992 \$	(858,321) \$	92,587 \$	(1,121,727) \$	(2,305,049)
Plus Net Income							1,980	(57,332)	(526,532)	(622,003)	(705,257)	(792,605)
Less Capital Improvements							(452,761)	(6,005,500)	(1,363,575)	(973,580)	(912,511)	(1,274,000)
Less ERP Project Costs							-	(80,833)				
Plus Depreciation							332,035	347,127	547,310	592,763	625,216	654,633
Plus State Grant Funds							-	-	2,500,000	-	-	-
Plus Available Bond Funds							-	4,850,000	-	-	-	-
Less Debt Service Principal							(789,450)	(90,775)	(94,100)	(94,250)	(68,250)	(71,500)
Less New Debt Principal (1)									(112,195)	(117,244)	(122,520)	(128,033)
End of Year				\$	1,087,187	\$	178,992 \$	(858,321) \$	92,587 \$	(1,121,727) \$	(2,305,049) \$	(3,916,555)
As a percent of revenue (1) Assumes \$5.0 million bond issue in late FY 2023					57.6%		9.3%	-44.3%	4.7%	-56.8%	-115.4%	-194.1%

Section 3

Cost-of-Service

A cost-of-service analysis was performed to determine the allocated cost to serve each of GRPUC's customer classes within the water utility. Customer classes exist, in part, because the cost to serve different kinds of customers varies. The cost-of-service analysis for water has been performed on a 2021 'Test Year' based on budgeted 2021 financials, operations and sales. The results of the cost-of-service study give an indication of the degree of revenue recovery warranted for each class of customers. A comparison of the allocated cost to serve a class of customers and the actual revenues received from that class is taken into consideration during rate design.

Functionalization of Costs

GRPUC's Test Year water revenue requirements have been divided into four functional categories. These categories are described below.

Production – costs associated with GRPUC's source of supply, pumping and water treatment.

Distribution – distribution expenses are related to the GRPUC system for delivering water to GRPUC customers over the local pipeline system.

Customer – these costs are fixed costs associated with the service facilities utilized to deliver water directly to customers. They also include items such as meter reading, billing, collections and customer service.

Revenue – revenue related costs include certain non-operating revenues and utility margin.

Section 3

Table 3-1 below summarizes the functional water costs for the 2021 Test Year. The detailed cost functions are shown in Exhibit 3-A.

Table 3-1
Functional Water Costs
2021 Test Year

	Revenue
Component	Requirement
Production	\$851,304
Distribution	720,585
Customer	197,470
Revenue	<u>(29,186)</u>
Total	\$1,740,172

Classification of Costs

GRPUC's Test Year revenue requirements have been divided into distinct cost classifications. The water cost classifications are described below.

Demand Related – demand related costs are costs required to meet the overall maximum demand on the system. Demand related costs are predominately associated with facility fixed costs.

Commodity Related – commodity costs tend to vary with the annual quantity of water produced.

Customer Related – costs related to serving, metering and billing of individual customers.

Revenue Related – revenue related costs vary by the amount of revenue received by the utility or are associated with other operating and non-operating revenues.

Exhibits 3-B through 3-D show the detailed classification of revenue requirements within the production, distribution and customer functions.

Allocation of Costs

Based on an analysis of customer class service characteristics, the classified costs summarized above were allocated to the major GRPUC customer classes. Allocation of costs was performed on a fully-distributed, embedded cost allocation basis. Specific allocation factors were utilized in each of the cost classification categories as described below. Exhibit 3-E contains a summary of the development of the various allocation factors.

Demand Allocations

Allocation of water production demand costs are based on each class' contribution to the utility's system peak day usage. The allocation of the distribution demand costs is based on the peak hour usage of each individual class.

Commodity Allocations

Each class' share of test year commodity requirements was used to allocate commodity related costs.

Customer Facilities Allocations

The customer facilities allocator was used to allocate costs associated with the physical facilities required to serve individual customers. For the customer facility allocators, weighted customer allocation factor was developed based on the average equivalent meter size for the customers in each class. Weighting factors are developed to represent the difference in service configurations between customer classifications. For instance, a larger customer facility is required for a single industrial demand customer than for a single residential customer.

Section 3

Customer Service Allocations

The customer service allocator is for allocation of costs associated with customer service – meter reading, billing, collections and customer inquiries. As with the customer facilities allocators, weighted customer service allocators are developed to represent the different levels of customer service required by different size customers.

Revenue Allocations

Revenue related costs were allocated based on each class' share of total demand, commodity, customer facility and customer service costs.

Cost of Service Results

Based on the classifications and allocations described above, the estimated cost to serve each major class of customers for the 2021 Test Year was determined. Exhibit 3-F presents this analysis in detail. Table 3-2 below summarizes the total allocated costs for each class compared to the total revenues received from the class during 2021.

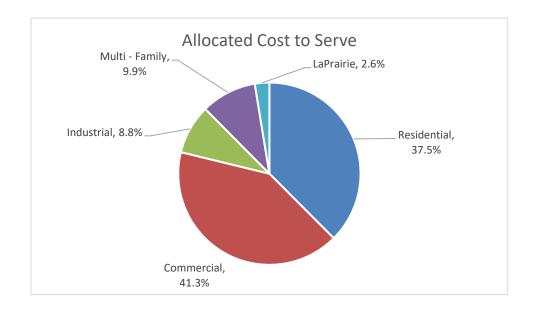
Table 3-2
Water Cost of Service Results
Comparison of Cost and Revenues
2021 Test Year

Customer Classification	Allocated Cost to Serve	Revenues
Residential	\$652,911	\$666,661
Commercial	\$718,359	\$605,610
Industrial	\$152,648	\$176,054
Multi - Family	\$171,470	\$249,974
LaPrairie	<u>\$44,785</u>	<u>\$41,873</u>
Total	\$1,740,172	\$1,740,172

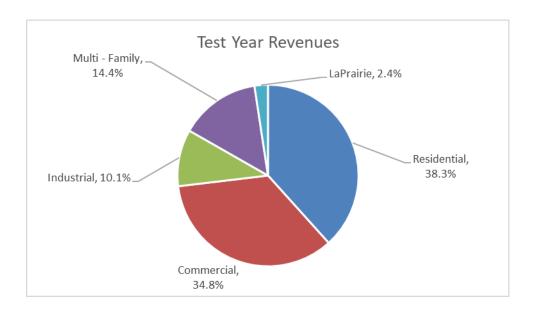
The revenue requirements and revenues as allocated to each class and summarized above are shown on a total dollar basis. Table 3-3 below makes the comparison based on percentages of total cost to serve and total revenues. The charts following Table 3-3 show a graphical comparison between allocated cost to serve and revenues as a percentage of the totals. The percentage increase/(decrease) in each class' revenue shown below is the adjustment necessary to produce revenues from each class in accordance with the allocated cost to serve. The percentage adjustments do not represent the recommended change in each class' rates. The cost-of-service results are one item for consideration in rate design. It is important to note also that the adjustments shown in the table below would not change the total revenue received by the utility and are not indicative of overall revenue needs of the utility going forward. Recommendations regarding rate design are included in Section 4 of this report.

Table 3-3
Water Cost of Service Results
Comparison of % Cost and Revenues
2021 Test Year

		-	
Customer Classification	Allocated Cost to Serve	Revenues	Increase/ (Decrease)
Residential	37.5%	38.3%	-2.1%
Commercial	41.3%	34.8%	18.6%
Industrial	8.8%	10.1%	-13.3%
Multi - Family	9.9%	14.4%	-31.4%
LaPrairie	<u>2.6%</u>	<u>2.4%</u>	7.0%
Total	100.0%	100.0%	0.0%



Cost-of-Service



As indicated above, GRPUC's existing class revenues do not exactly match the allocated cost to serve each class. Cost based rates are one of several goals in establishing rates. The relationship between allocated costs and revenues for each class should be considered, in addition to other rate related goals, in developing recommended rates.

Grand Rapids Public Utilities Commission Functionalization of 2021 Test Year Revenue Requirements

	2024				
DEVENUE DECLUDEMENT	2021	Draduction	Distribution	Customor	Dovonus Classification Das
REVENUE REQUIREMENT OPERATING EXPENSES	<u>Test Year</u>	Production	<u>Distribution</u>	Customer	Revenue Classification Bas
Production Operation	127 657	127.657			- 100% production
WTP Operators Wages OT	127,657	127,657	-	-	100% production
WTP Operators Wages - OT	34,198	34,198	-	-	- 100% production
Other Operating Wages	-	-	-	-	- 100% production
Water Treatment Expense	114,018	114,018	-	-	- 100% production
Heating Fuel	-	-	-	-	- 100% production
Station Supplies and Expenses	4,031	4,031	-	-	- 100% production
Permits and Fees	3,893	3,893	-	-	- 100% production
Miscellaneous Production Expense	18,326	18,326	-	-	- 100% production
Power Purchased	195,190	195,190	<u> </u>		100% production
Total Operation	497,314	497,314	-	-	-
Production Maintenance					
WTP Buildings and Grounds	17,851	17,851	-	-	- 100% production
WTP HVAC System	54	54	_	_	- 100% production
Wellhouses	6,272	6,272	_	_	- 100% production
Wellhead Protection	-	-	_	_	- 100% production
Wells, Pumps and Mains	8,081	8,081	_	_	- 100% production
Maintenance of WTP Equipment	51,510	51,510	_	_	- 100% production
Maintenance of SCADA System - WTP	8,183	8,183	_	-	- 100% production
-	0,103	-	-	-	•
Underground Clearwell	2 201		-	-	 100% production 100% production
Maintenance Inspections - WTP	2,381	2,381	- -	- -	- 100% production
Total Maintenance	94,333	94,333	-	-	-
Distribution Operation					
Supervision and Engineering	43,108	-	43,108	-	 100% distribution
Records (Mapping-Meters-Valves)	1,275	-	1,275	-	 100% distribution
Maintenance Inspections	11,359	-	11,359	-	- 100% distribution
Thaw/Flush Hydrants, Mains, Services	8,054	-	8,054	-	- 100% distribution
Locating Expense	13,630	-	13,630	-	- 100% distribution
Service on Customer Premises	46,238	-	46,238	-	- 100% distribution
Mapping Expense	30,810	-	30,810	-	- 100% distribution
Small Tools Expense	3,465	-	3,465	-	- 100% distribution
Safety Expense	14,826	_	14,826	_	- 100% distribution
Seminar/Training Expense	20,365	_	20,365	_	- 100% distribution
Uniforms Expense	378	_	378	_	- 100% distribution
Miscellaneous Meetings	-	_	-	_	- NA
Rentals	2	_	2	_	- 100% distribution
Stores Expense (Labor)	24,981	_	24,981	-	- 100% distribution
Total Distribution Operation	218,492	-	218,492	-	-
Distribution Maintenance Towers and Tanks	16,298		16,298		- 100% distribution
		-		-	- 100% distribution
Elevated Tank Control System	371	-	371	-	
Booster Pump (21st St SW)	2,538	-	2,538	-	- 100% distribution
Booster Station	25	-	25	-	- 100% distribution
Mains and Hydrants	93,944	-	93,944	-	- 100% distribution
Services	43,923	-	43,923	-	- 100% distribution
Meters and Meter Installations	6,396	-	6,396	-	- 100% distribution
Miscellaneous Distribution Expense	5,320		5,320		- 100% distribution
Total Distribution Maintenance	168,816	-	168,816	-	-
Other					
Truck Expense - Operation	(2,658)	 .	(2,658)		- 100% distribution
Total Other	(2,658)	-	(2,658)	-	-
Customer Accounting					
Supervision	26,434	_	_	26,434	- 100% customer
Meter Reading	2,426	_	_	2,426	- 100% customer
Customer Billing and Accounting	95,918	_	_	95,918	- 100% customer
Collecting Expense	-	=	-	-	- NA
Collecting Expense	-	-	-	-	= IN/A

Grand Rapids Public Utilities Commission Functionalization of 2021 Test Year Revenue Requirements

	2021					
REVENUE REQUIREMENT	Test Year	Production	Distribution	Customer	Revenu	e Classification Basis
Miscellaneous Expense	(1,847)	-	-	(1,847)	-	100% customer
Miscellaneous Customer Information			<u> </u>	<u> </u>	-	NA
Total Customer Accounting	122,931	-	-	122,931	-	
Administrative and General Expenses						
Administrative & General Salaries	57,101	28,196	15,790	13,115	_	labor
Commissioner Salaries	2,680	1,324	741	616	_	labor
City Treasurer Salary	165	81	46	38		labor
General Office Supplies and Phone	8,407	4,151	2,325	1,931	_	labor
Accounting Outside Service	6,594	3,256	1,823	1,514	_	labor
Data Processing Outside Service	24,036	11,869	6,647	5,521	_	labor
Legal Outside Service	3,741	1,847	1,035	859	_	labor
Engineering Outside Service	3,400	1,679	940	781	_	labor
Other Outside Service	229	113	63	52	_	labor
Fiber Optic Outside Service	-	-	-	-	_	NA
Insurance - Fire	6,166	1,668	4,498	_	_	plant in service
Insurance - Liability	4,096	1,108	2,988	_	_	plant in service
Insurance - Worker's Compensation	11,369	5,614	3,144	2,611	_	labor
Insurance - Worker's Comp Deductible	-	-	-	-	_	NA
Insurance - Auto	572	155	417	-	-	plant in service
Insurance - Miscellaneous	539	146	393	-	-	plant in service
Insurance Claims - Injuries & Damages	9,980	4,928	2,760	2,292	_	labor
Insurance - Group Health	114,281	56,430	31,603	26,248	-	labor
Insurance - Group Health Co-insurance	-	-	, -	, -	-	NA
Insurance - Group Health HSA funding	27,980	13,816	7,737	6,426	-	labor
Insurance - Group Life	1,009	498	279	232	-	labor
Employee Assistance Programs	-	-	-	-	-	NA
Insurance - Group Dental	5,888	2,907	1,628	1,352	-	labor
Insurance - Third Party Admin Costs	276	136	76	63	-	labor
FICA	-	-	-	-	-	NA
PERA	(45,566)	(22,500)	(12,601)	(10,466)	-	labor
Paid Time Off	80,058	39,531	22,139	18,388	-	labor
Extended Illness Benefit	8,287	4,092	2,292	1,903	-	labor
Short-Term Disability Payments	-	-	-	-	-	NA
Disability Insurance	2,871	1,418	794	659	-	labor
Unemployment Compensation	-	-	-	-	-	NA
Lump Sum Payments	-	-	-	-	-	NA
Miscellaneous General Expense	(1,170)	(578)	(324)	(269)	-	labor
Maintenance of General Plant	2,922	1,443	808	671	-	labor
Total Administrative and General	335,909	163,327	98,043	74,539	-	
Depreciation	331,343	89,624	241,718	-	-	plant in service
Amortization	974	263	710	-	-	plant in service
Total Operating Expenses	1,767,453	844,861	725,122	197,470	-	

Item 2.

Grand Rapids Public Utilities Commission Functionalization of 2021 Test Year Revenue Requirements

REVENUE REQUIREMENT	2021 Test Year	Production	C	istribution	Customer	Revenue	Classification Basis
•			_				
Non Operating Revenues (Expenses)							
Interest expense	(22,826)	(6,174)		(16,652)	-	-	plant in service
Bond fees - long term debt	 (992)	 (268)		(724)		 -	plant in service
Total Non-Operating Revenues (Expenses)	 (23,819)	 (6,443)		(17,376)	-	-	
Other Operating Revenues (Expenses)							
Service Connections	20,953	-		20,953	-	-	100% distribution
Permit Fees	1,680	-		-	-	1,680	100% revenue
Thawing Service	960	-		960	-	-	100% distribution
Water Shutoff Fees	-	-		-	-	-	NA
Merchandising and Jobbing (Net)	1,285	-		-	-	1,285	100% revenue
City of Grand Rapids Jobbing (Net)	-	-		-	-	-	NA
City of LaPrairie Jobbing (Net)	2,437	-		-	-	2,437	100% revenue
Equipment Rental Revenue	-	-		-	-	-	NA
Service Center	(20,513)	-		-	-	(20,513)	100% revenue
Lease revenues combined service center	3,265	-		-	-	3,265	100% revenue
Antenna Rental Revenue	194,341	-		-	-	194,341	100% revenue
Miscellaneous Income	 11,988	 -		<u> </u>		 11,988	100% revenue
Total Other Operating Revenues	216,395	-		21,913	-	194,482	
Margin	165,296	-		-	-	165,296	100% revenue
Total Revenue Requirement	\$ 1,740,172	\$ 851,304	\$	720,585 \$	197,470	\$ (29,186)	

Grand Rapids Public Utilities Commission 2021 Test Year Water Production Classification

	2021			
REVENUE REQUIREMENT	Test Year	Demand	Commodity	Classification Basis
OPERATING EXPENSES				
Production Operation				
WTP Operators Wages	127,657	127,657	-	100% demand
WTP Operators Wages - OT	34,198	34,198	-	100% demand
Other Operating Wages	-	-	-	100% demand
Water Treatment Expense	114,018	-	114,018	100% commodity
Heating Fuel	-	-	-	NA
Station Supplies and Expenses	4,031	4,031	-	100% demand
Permits and Fees	3,893	3,893	-	100% demand
Miscellaneous Production Expense	18,326	18,326	-	100% demand
Power Purchased	195,190		195,190	100% commodity
Total Operation	497,314	188,106	309,208	
Production Maintenance				
WTP Buildings and Grounds	17,851	17,851	-	100% demand
WTP HVAC System	54	54	-	100% demand
Wellhouses	6,272	6,272	-	100% demand
Wellhead Protection	-	-	-	100% demand
Wells, Pumps and Mains	8,081	8,081	-	100% demand
Maintenance of WTP Equipment	51,510	-	51,510	100% commodity
Maintenance of SCADA System - WTP	8,183	8,183	-	100% demand
Underground Clearwell	-	-	-	NA
Maintenance Inspections - WTP	2,381	2,381	-	100% demand
Total Maintenance	94,333	42,822	51,510	
Distribution Operation				
Supervision and Engineering	-	-	-	NA
Records (Mapping-Meters-Valves)	-	-	-	NA
Maintenance Inspections	=	-	-	NA
Thaw/Flush Hydrants, Mains, Services	=	-	-	NA
Locating Expense	=	-	-	NA
Service on Customer Premises	-	-	-	NA
Mapping Expense	-	-	-	NA
Small Tools Expense	-	-	-	NA
Safety Expense	-	-	-	NA
Seminar/Training Expense	-	-	-	NA
Uniforms Expense	-	-	-	NA
Miscellaneous Meetings	-	-	-	NA
Rentals	-	-	-	NA
Stores Expense (Labor)	<u> </u>			NA
Total Distribution Operation	-	-	-	
Distribution Maintenance				
Towers and Tanks	-	-	-	NA
Elevated Tank Control System	-	-	-	NA
Booster Pump (21st St SW)	-	-	-	NA
Booster Station	-	-	-	NA
Mains and Hydrants	-	-	-	NA

Grand Rapids Public Utilities Commission 2021 Test Year Water Production Classification

	2021			
REVENUE REQUIREMENT	Test Year	Demand	Commodity	Classification Basis
Services	-	-	-	NA
Meters and Meter Installations	-	-	-	NA
Miscellaneous Distribution Expense				NA
Total Distribution Maintenance	-	-	-	
Other				
Truck Expense - Operation	-	-	-	NA
Total Other	-	-	-	
Customer Accounting				
Supervision	-	_	_	NA
Meter Reading	-	_	_	NA
Customer Billing and Accounting	_	_	_	NA
Collecting Expense	_	-	_	NA
Miscellaneous Expense	-	-	-	NA
Miscellaneous Customer Information	_	-	_	NA
Total Customer Accounting				
Administrative and General Expenses	22.425	22.426		1000/
Administrative & General Salaries	28,196	28,196	-	100% demand
Commissioner Salaries	1,324	1,324	-	100% demand
City Treasurer Salary	81	81	-	100% demand
General Office Supplies and Phone	4,151	4,151	-	100% demand
Accounting Outside Service	3,256	3,256	-	100% demand
Data Processing Outside Service	11,869	11,869	-	100% demand
Legal Outside Service	1,847	1,847	-	100% demand
Engineering Outside Service	1,679	1,679	-	100% demand
Other Outside Service	113	113	-	100% demand
Fiber Optic Outside Service	-	-	-	NA
Insurance - Fire	1,668	1,668	-	100% demand
Insurance - Liability	1,108	1,108	-	100% demand
Insurance - Worker's Compensation	5,614	5,614	-	100% demand
Insurance - Worker's Comp Deductible	-	-	-	NA
Insurance - Auto	155	155	-	100% demand
Insurance - Miscellaneous	146	146	-	100% demand
Insurance Claims - Injuries & Damages	4,928	4,928	-	100% demand
Insurance - Group Health	56,430	56,430	-	100% demand
Insurance - Group Health Co-insurance	-	-	-	NA
Insurance - Group Health HSA funding	13,816	13,816	-	100% demand
Insurance - Group Life	498	498	-	100% demand
Employee Assistance Programs	-	-	-	NA
Insurance - Group Dental	2,907	2,907	-	100% demand
Insurance - Third Party Admin Costs	136	136	-	100% demand
FICA	-	-	-	NA
PERA	(22,500)	(22,500)	-	100% demand
Paid Time Off	39,531	39,531	-	100% demand
Extended Illness Benefit	4,092	4,092	-	100% demand
Short-Term Disability Payments	-	-	-	NA

Grand Rapids Public Utilities Commission 2021 Test Year Water Production Classification

	2021			
REVENUE REQUIREMENT	Test Year	<u>Demand</u>	Commodity	Classification Basis
Disability Insurance	1,418	1,418	-	100% demand
Unemployment Compensation	-	-	-	NA
Lump Sum Payments	-	-	-	NA
Miscellaneous General Expense	(578)	(578)	-	100% demand
Maintenance of General Plant	 1,443	 1,443		100% demand
Total Administrative and General	163,327	163,327	-	
Depreciation	89,624	89,624	-	100% demand
Amortization	263	263	-	100% demand
Total Operating Expenses	844,861	484,143	360,719	
Non Operating Revenues (Expenses)				
Interest expense	(6,174)	(6,174)	-	100% demand
Bond fees - long term debt	 (268)	 (268)	-	100% demand
Total Non-Operating Revenues (Expenses)	(6,443)	(6,443)	-	
Other Operating Revenues (Expenses)				
Service Connections	-	-	-	NA
Permit Fees	-	-	-	NA
Thawing Service	-	-	-	NA
Water Shutoff Fees	-	-	-	NA
Merchandising and Jobbing (Net)	-	-	-	NA
City of Grand Rapids Jobbing (Net)	-	-	-	NA
City of LaPrairie Jobbing (Net)	-	-	-	NA
Equipment Rental Revenue	-	-	-	NA
Service Center	-	-	-	NA
Lease revenues combined service center	-	-	-	NA
Antenna Rental Revenue	-	-	-	NA
Miscellaneous Income	 	 	-	NA
Total Other Operating Revenues	-	-	-	
Margin	-	-	-	NA
Total Revenue Requirement	\$ 851,304	\$ 490,586	360,719	

Grand Rapids Public Utilities Commission 2021 Test Year Distribution Classification

	2021		Customer	
REVENUE REQUIREMENT	Test Year	Demand	Facilities	Classification Basis
OPERATING EXPENSES				
Production Operation				
WTP Operators Wages	-	-	-	NA
WTP Operators Wages - OT	-	-	-	NA
Other Operating Wages	-	-	-	NA
Water Treatment Expense	-	-	-	NA
Heating Fuel	-	-	-	NA
Station Supplies and Expenses	-	-	-	NA
Permits and Fees	-	-	-	NA
Miscellaneous Production Expense	-	-	-	NA
Power Purchased	-	-	-	NA
Total Operation	-	-	-	
Production Maintenance				
WTP Buildings and Grounds	-	-	-	NA
WTP HVAC System	-	-	-	NA
Wellhouses	-	-	-	NA
Wellhead Protection	-	-	-	NA
Wells, Pumps and Mains	-	-	-	NA
Maintenance of WTP Equipment	-	-	-	NA
Maintenance of SCADA System - WTP	-	-	-	NA
Underground Clearwell	-	-	-	NA
Maintenance Inspections - WTP				NA
Total Maintenance	-	-	-	
Distribution Operation				
Supervision and Engineering	43,108	43,108	_	100% Dist demand
Records (Mapping-Meters-Valves)	1,275	1,275	_	100% Dist demand
Maintenance Inspections	11,359	11,359	-	100% Dist demand
Thaw/Flush Hydrants, Mains, Services	8,054	5,674	2,380	Dist/Cust split
Locating Expense	13,630	5,074	13,630	100% Cust facilities
Service on Customer Premises	46,238	_	46,238	100% Cust facilities
Mapping Expense	30,810	30,810		100% Cust racinties
Small Tools Expense	3,465	3,465	_	100% Dist demand
Safety Expense	14,826	14,826	_	100% Dist demand
Seminar/Training Expense	20,365	20,365	_	100% Dist demand
Uniforms Expense	378	378	_	100% Dist demand
Miscellaneous Meetings	576	578	_	NA
Rentals	2	2	-	100% Dist demand
Stores Expense (Labor)	24,981	24,981	_	100% Dist demand
Total Distribution Operation	218,492	156,244	62,248	100% Dist demand
	_10,.02	200,277	02,240	
Distribution Maintenance				
Towers and Tanks	16,298	16,298	-	100% Dist demand
Elevated Tank Control System	371	371	-	100% Dist demand
Booster Pump (21st St SW)	2,538	2,538	-	100% Dist demand
Booster Station	25	25	-	100% Dist demand
Mains and Hydrants	93,944	66,179	27,766	Dist/Cust split
Services	43,923	-	43,923	100% Cust facilities

Grand Rapids Public Utilities Commission 2021 Test Year Distribution Classification

	2021		Customer	
REVENUE REQUIREMENT	Test Year	<u>Demand</u>	<u>Facilities</u>	Classification Basis
Meters and Meter Installations	6,396	-	6,396	100% Cust facilities
Miscellaneous Distribution Expense	5,320	5,320		100% Dist demand
Total Distribution Maintenance	168,816	90,731	78,085	
Other				
Truck Expense - Operation	(2,658)	(1,872)	(786)	Dist/Cust split
Total Other	(2,658)	(1,872)	(786)	
Customer Accounting				
Supervision	-	-	-	NA
Meter Reading	-	-	-	NA
Customer Billing and Accounting	-	-	-	NA
Collecting Expense	-	-	-	NA
Miscellaneous Expense	-	-	-	NA
Miscellaneous Customer Information				NA
Total Customer Accounting	-	-	-	
Administrative and General Expenses				
Administrative & General Salaries	15,790	11,610	4,180	labor
Commissioner Salaries	741	545	196	labor
City Treasurer Salary	46	34	12	labor
General Office Supplies and Phone	2,325	1,709	615	labor
Accounting Outside Service	1,823	1,285	539	Dist/Cust split
Data Processing Outside Service	6,647	4,682	1,964	Dist/Cust split
Legal Outside Service	1,035	729	306	Dist/Cust split
Engineering Outside Service	940	662	278	Dist/Cust split
Other Outside Service	63	45	19	Dist/Cust split
Fiber Optic Outside Service	-	-	1 220	NA Diet/Guet aulit
Insurance - Fire	4,498	3,169	1,329	Dist/Cust split
Insurance - Liability	2,988	2,105	883	Dist/Cust split labor
Insurance - Worker's Compensation	3,144	2,312	832	
Insurance - Worker's Comp Deductible	-	-	-	labor
Insurance - Auto	417	307	111	labor
Insurance - Miscellaneous	393	289	104 731	labor labor
Insurance Claims - Injuries & Damages Insurance - Group Health	2,760 31,603	2,029 23,236	8,366	labor
Insurance - Group Health Co-insurance	-	-	-	labor
Insurance - Group Health HSA funding	7,737	5,689	2,048	labor
Insurance - Group Life	279	205	2,048 74	labor
Employee Assistance Programs	-	-	-	labor
Insurance - Group Dental	1,628	1,197	431	labor
Insurance - Third Party Admin Costs	76	56	20	labor
FICA	-	-	-	NA
PERA	(12,601)	(9,265)	(3,336)	labor
Paid Time Off	22,139	16,278	5,861	labor
Extended Illness Benefit	2,292	1,685	607	labor
Short-Term Disability Payments	-	-	-	NA
Disability Insurance	794	584	210	labor
Unemployment Compensation	-	-	-	NA
2				

Grand Rapids Public Utilities Commission 2021 Test Year Distribution Classification

	2021		Customer	
REVENUE REQUIREMENT	<u>Test Year</u>	<u>Demand</u>	<u>Facilities</u>	Classification Basis
Lump Sum Payments	-	-	-	NA
Miscellaneous General Expense	(324)	(228)	(96)	Dist/Cust split
Maintenance of General Plant	808	569	239	Dist/Cust split
Total Administrative and General	98,043	71,518	26,525	
Depreciation	241,718	170,278	71,441	Dist/Cust split
Amortization	710	500	210	Dist/Cust split
Total Operating Expenses	725,122	487,398	237,723	
Non Operating Revenues (Expenses)				
Interest expense	(16,652)	(11,731)	(4,922)	Dist/Cust split
Bond fees - long term debt	(724)	(510)	(214)	Dist/Cust split
Total Non-Operating Revenues (Expenses)	(17,376)	(12,240)	(5,136)	
Other Operating Revenues (Expenses)				
Service Connections	20,953	-	20,953	100% Cust facilities
Permit Fees	-	-	-	NA
Thawing Service	960	-	960	100% Cust facilities
Water Shutoff Fees	-	-	-	NA
Merchandising and Jobbing (Net)	-	-	-	NA
City of Grand Rapids Jobbing (Net)	-	-	-	NA
City of LaPrairie Jobbing (Net)	-	-	-	NA
Equipment Rental Revenue	-	-	-	NA
Service Center	-	-	-	NA
Lease revenues combined service center	-	-	-	NA
Antenna Rental Revenue	-	-	-	NA
Miscellaneous Income				NA
Total Other Operating Revenues	21,913	-	21,913	
Margin	-	-	-	NA
Total Revenue Requirement	\$ 720,585	\$ 499,639	\$ 220,946	

Grand Rapids Public Utilities Commission 2021 Test Year Customer Classification

	2021		
REVENUE REQUIREMENT	<u>Test Year</u>	<u>Customer</u>	Classification Basis
OPERATING EXPENSES			
Production Operation			
WTP Operators Wages	-	-	100% Customer
WTP Operators Wages - OT	-	-	100% Customer
Other Operating Wages	-	-	100% Customer
Water Treatment Expense	-	-	100% Customer
Heating Fuel	-	-	100% Customer
Station Supplies and Expenses	-	-	100% Customer
Permits and Fees	-	-	100% Customer
Miscellaneous Production Expense	-	-	100% Customer
Power Purchased			100% Customer
Total Operation	-	-	
Production Maintenance			
WTP Buildings and Grounds	-	-	100% Customer
WTP HVAC System	-	-	100% Customer
Wellhouses	-	-	100% Customer
Wellhead Protection	-	-	100% Customer
Wells, Pumps and Mains	-	-	100% Customer
Maintenance of WTP Equipment	-	-	100% Customer
Maintenance of SCADA System - WTP	-	-	100% Customer
Underground Clearwell	-	-	100% Customer
Maintenance Inspections - WTP			100% Customer
Total Maintenance	-	-	
Distribution Operation			
Supervision and Engineering	-	-	100% Customer
Records (Mapping-Meters-Valves)	-	-	100% Customer
Maintenance Inspections	-	-	100% Customer
Thaw/Flush Hydrants, Mains, Services	-	-	100% Customer
Locating Expense	-	-	100% Customer
Service on Customer Premises	-	-	100% Customer
Mapping Expense	-	-	100% Customer
Small Tools Expense	-	-	100% Customer
Safety Expense	-	-	100% Customer
Seminar/Training Expense	-	-	100% Customer
Uniforms Expense	-	-	100% Customer
Miscellaneous Meetings	-	-	100% Customer
Rentals	-	-	100% Customer
Stores Expense (Labor)			100% Customer
Total Distribution Operation	-	-	
Distribution Maintenance			
Towers and Tanks	-	-	100% Customer
Elevated Tank Control System	-	-	100% Customer

Grand Rapids Public Utilities Commission 2021 Test Year Customer Classification

	2021			
REVENUE REQUIREMENT	<u>Test Year</u>	Classification Basis		
Booster Pump (21st St SW)	-			
Booster Station	-	-	100% Customer	
Mains and Hydrants	-	-	100% Customer	
Services	-	-	100% Customer	
Meters and Meter Installations	-	-	100% Customer	
Miscellaneous Distribution Expense			100% Customer	
Total Distribution Maintenance	-	-		
Other				
Truck Expense - Operation			100% Customer	
Total Other	-	-		
Customer Accounting				
Supervision	26,434	26,434	100% Customer	
Meter Reading	2,426	2,426	100% Customer	
Customer Billing and Accounting	95,918	95,918	100% Customer	
Collecting Expense	-	-	100% Customer	
Miscellaneous Expense	(1,847)	(1,847)	100% Customer	
Miscellaneous Customer Information			100% Customer	
Total Customer Accounting	122,931	122,931		
Administrative and General Expenses				
Administrative & General Salaries	13,115	13,115	100% Customer	
Commissioner Salaries	616	616	100% Customer	
City Treasurer Salary	38	38	100% Customer	
General Office Supplies and Phone	1,931	1,931	100% Customer	
Accounting Outside Service	1,514	1,514	100% Customer	
Data Processing Outside Service	5,521	5,521	100% Customer	
Legal Outside Service	859	859	100% Customer	
Engineering Outside Service	781	781	100% Customer	
Other Outside Service	52	52	100% Customer	
Fiber Optic Outside Service	-	-	100% Customer	
Insurance - Fire	-	-	100% Customer	
Insurance - Liability	-	-	100% Customer	
Insurance - Worker's Compensation	2,611	2,611	100% Customer	
Insurance - Worker's Comp Deductible	-	-	100% Customer	
Insurance - Auto	-	-	100% Customer	
Insurance - Miscellaneous	-	-	100% Customer	
Insurance Claims - Injuries & Damages	2,292	2,292	100% Customer	
Insurance - Group Health	26,248	26,248	100% Customer	
Insurance - Group Health Co-insurance	- 6.426	-	100% Customer	
Insurance - Group Health HSA funding	6,426	6,426	100% Customer	
Insurance - Group Life	232	232	100% Customer	
Employee Assistance Programs	- 1 252	- 1 252	100% Customer	
Insurance - Group Dental	1,352	1,352	100% Customer	

Grand Rapids Public Utilities Commission 2021 Test Year Customer Classification

	2021			
REVENUE REQUIREMENT	<u>Test Year</u>	<u>Customer</u>	Classification Basis	
Insurance - Third Party Admin Costs	63	63	100% Customer	
FICA	-	-	100% Customer	
PERA	(10,466)	(10,466)	100% Customer	
Paid Time Off	18,388	18,388	100% Customer	
Extended Illness Benefit	1,903	1,903	100% Customer	
Short-Term Disability Payments	-	-	100% Customer	
Disability Insurance	659	659	100% Customer	
Unemployment Compensation	-	-	100% Customer	
Lump Sum Payments	-	-	100% Customer	
Miscellaneous General Expense	(269)	100% Customer		
Maintenance of General Plant	671	671	100% Customer	
Total Administrative and General	74,539	74,539		
Depreciation	-	-	100% Customer	
Amortization	-	-	100% Customer	
Total Operating Expenses	197,470	197,470		
Non Operating Revenues (Expenses)				
Interest expense	-	-	100% Customer	
Bond fees - long term debt	-		100% Customer	
Total Non-Operating Revenues (Expenses)	-	-		
Other Operating Revenues (Expenses)				
Service Connections	-	-	100% Customer	
Permit Fees	-	-	100% Customer	
Thawing Service	-	-	100% Customer	
Water Shutoff Fees	-	-	100% Customer	
Merchandising and Jobbing (Net)	-	-	100% Customer	
City of Grand Rapids Jobbing (Net)	-	-	100% Customer	
City of LaPrairie Jobbing (Net)	-	-	100% Customer	
Equipment Rental Revenue	-	-	100% Customer	
Service Center	-	-	100% Customer	
Lease revenues combined service center	-	-	100% Customer	
Antenna Rental Revenue	-	-	100% Customer	
Miscellaneous Income	-		100% Customer	
Total Other Operating Revenues	-	-		
Margin	-	-	100% Customer	
Total Revenue Requirement	\$ 197,470	\$ 197,470		

Grand Rapids Public Utilites Commission 2021 Test Year Allocation Factors

Demand Allocation Factors	<u>Total</u>	Residential	Commercial	<u>Industrial</u>	Multi - Family	<u>LaPrairie</u>
System Peak Day - gallons	1,533	449	731	146	167	40
SPD	100.0%	29.3%	47.7%	9.5%	10.9%	2.6%
Class Peak Day - gallons	1,884	573	731	332	167	83
CPD	100.0%	30.4%	38.8%	17.6%	8.8%	4.4%
Class Peak Hour - gallons	131	50	53	10	14	4
СРН	100.0%	37.9%	40.4%	7.7%	10.9%	3.1%
Energy Allocation Factors						
Commodity - gallons	324,695	100,617	128,988	44,479	40,187	10,424
С	100.0%	31.0%	39.7%	13.7%	12.4%	3.2%
Customers						
Number of Customers	3,287	2,581	582	6	116	2
Equivalent Meter Weight		1.005	4.338	29.667	2.500	46.3
Customer Service Weight		1.0	2.0	50.0	2.0	20.0
Equivalent Meters						
Weighted Number of Cust	5,680	2,595	2,525	178	290	93
EM	100.0%	45.7%	44.5%	3.1%	5.1%	1.6%
Customer Service Allocation Factor						
Weighted Number of Cust	4,317	2,581	1,164	300	232	40
CS	100.0%	59.8%	27.0%	6.9%	5.4%	0.9%
Revenue Allocator						
Sum of Other Rev Reqs	1,769,358	663,861	730,408	155,208	174,346	45,536
R	100.0%	37.5%	41.3%	8.8%	9.9%	2.6%

Grand Rapids Public Utilites Commission 2021 Test Year Allocation of Revenue Requirements

							Allocation
	<u>Total</u>	Residential	Commercial	<u>Industrial</u>	Multi - Family	<u>LaPrairie</u>	<u>Factor</u>
<u>Plant</u>							
Demand	490,586	143,741	233,956	46,751	53,295	12,842	SPD
Commodity	360,719	111,780	143,299	49,414	44,646	11,580	С
Total Power Supply	851,304	255,521	377,255	96,165	97,941	24,423	
<u>Distribution</u>							
Demand	499,639	189,353	201,692	38,396	54,512	15,685	CPH
Customer Facilities	220,946	100,926	98,216	6,924	11,281	3,598	EM
Total Distribution	720,585	290,279	299,909	45,320	65,793	19,284	
Customer							
Customer Service	197,470	118,061	53,244	13,723	10,612	1,830	CS
Total Customer Facility	197,470	118,061	53,244	13,723	10,612	1,830	
<u>Revenue</u>							
Other Operating Revenue	(194,482)	(72,970)	(80,284)	(17,060)	(19,164)	(5,005)	R
Margin	165,296	62,019	68,236	14,500	16,288	4,254	R
Total Revenue	(29,186)	(10,951)	(12,048)	(2,560)	(2,876)	(751)	
Total Revenue Requirements	1,740,172	652,911	718,359	152,648	171,470	44,785	
Total Revenues	1,740,172	666,661	605,610	176,054	249,974	41,873	
Percent Revenue Requirements	100.0%	37.5%	41.3%	8.8%	9.9%	2.6%	
Percent Revenues	100.0%	38.3%	34.8%	10.1%	14.4%	2.4%	
Percent Change	0.0%	-2.1%	18.6%	-13.3%	-31.4%	7.0%	
Revenue Req/unit	5.359	6.489	5.569	3.432	4.267	4.296	
Revenue/unit	5.359	6.626	4.695	3.958	6.220	4.017	

Section 4 Proposed Rates

Changes to rates are generally based on the overall need for revenues and results of the cost-of-service analyses. The projected operating results at existing rates as presented in Section 2 of this report outline the overall revenue needs of the water utility. Section 3 summarizes the cost-of-service results. These factors have been considered in developing the proposed rates summarized in this section of the report.

Proposed Rates

Revenue Needs

In Section 2, it shows that GRPUC's projected annual change in water net income, assuming continuation of the existing retail rates, decreases from 0.1% in 2022 to negative 39.3% in 2027. GRPUC's projected cash reserves decline from \$1.1 million to negative \$3.9 million by the end of the Study Period. For the water utility, a series of annual 10% rate increases are recommended for 2023 through 2027.

Cost of Service Considerations

The results of the water cost-of-service analysis in Section 3 indicate that there are subsidies from Multi-Family and Industrial customers to Commercial customers and the City LaPrairie. Rate increases for different groups of customers vary based on the cost-of-service results. Table 4-1 shows the average rate increases by customer class and for the total system through the Study Period.

Table 4-1 Average Annual Rate Increases

Customer Class	Avg Increase
Residential	10.0%
Commercial	12.5%
Industrial	8.1%
Multi-Family	4.7%
LaPrairie	10.4%
Total System	10.0%

Recommended Rates

Exhibit 4-A shows the existing and recommended water rates by customer class for each year from 2023-2027.

Projected Operating Results - Proposed Rates

Based on the proposed rates outlined above, the resulting projected operating results are summarized below in Table 4-2. A summary presentation of the operating results is shown in Exhibit 4-B.

Table 4-2
Projected Operating Results
Proposed Rates

Year	2022	2023	2024	2025	2026	2027
Operating Revenues	\$1,917,471	\$2,104,403	\$2,314,504	\$2,548,847	\$2,810,666	\$3,103,141
Less Operating Expenses	(1,857,320)	(1,924,009)	(2,188,640)	(2,309,776)	(2,422,246)	(2,536,321)
Less Non -Operating Expenses	<u>(58,171)</u>	<u>(69,105)</u>	(293,836)	(288,518)	(279,975)	(274,149)
Net Income	\$1,980	\$111,289	\$(167,972)	\$(49,447)	\$108,444	\$292,670
Net Income as Percent of Revenues	0.1%	5.3%	-7.3%	-1.9%	3.9%	9.4%

Cash Reserves

A summary of the impact of the projected operating results with the proposed rate adjustments on GRPUC's cash reserves for the Study Period is shown at the end of Exhibit 4-B and in Table 4-3 below. As shown below, with the recommended increases, the reserve levels in 2027 increase from negative 194% of operating revenue to negative 14% of operating revenue. This represents an increase of \$3.5 million.

Table 4-3
Projected Cash Reserves
Proposed Rates

Year	2022	2023	2024	2025	2026	2027
Beginning Balance	\$1,087,187	\$178,992	\$(689,700)	\$619,768	\$(21,990)	\$(391,611)
Plus Net Income	1,980	111,289	(167,972)	(49,447)	108,444	292,670
Less Capital Improvements	(452,761)	(6,005,500)	(1,363,575)	(973,580)	(912,511)	(1,274,000)
Less ERP Project Costs	-	(80,833)	-	-	-	-
Plus Depreciation	332,035	347,127	547,310	592,763	625,216	654,633
Plus State Grants	-	-	2,500,000	-	-	-
Plus Available Bond Funds	-	4,850,000	-	-	-	-
Less Existing Debt Principal	(789,450)	(90,775)	(94,100)	(94,250)	(68,250)	(71,500)
Less New Debt Principal	<u>-</u>	<u>-</u>	(112,195)	<u>(117,244)</u>	(122,520)	(128,033)
Ending Balance	\$178,992	\$(689,700)	\$619,768	\$(21,990)	\$(391,611)	\$(917,842)
Reserves as % of Operating Revenue	9.3%	-32.8%	26.8%	-0.9%	-13.9%	-29.6%

Residential Bill Impact

Table 4-4 below summarizes the impact on monthly bills for different size residential customers. An average GRPUC residential customer consumes approximately 3000 gallons per month. For that average size customer, the first year bill increase is \$2.01 per month. For all customer usages shown, the annual increases are 10% through 2027.

Table 4-4
Monthly Water Bill Comparisons

J			
Residential Usage (gallons)	2,000	3,000	6,000
Current Rate	\$16.25	\$20.04	\$33.39
2023 Proposed	17.88	22.05	36.74
2024 Proposed	19.67	24.26	40.43
2025 Proposed	21.64	26.69	44.48
2026 Proposed	23.81	29.37	48.95
2027 Proposed	26.20	32.32	53.86

Grand Rapids Public Utilities Commission Existing and Proposed Rates

Item 2.

		_	2023	2024	2025	2026	2027
61		Current	Proposed	Proposed	Proposed	Proposed	Proposed
Class	Ole and	Rate	Rate	Rate	Rate	Rate	Rate
Custoi	mer Charges						
	Residential/Commercial/Industrial	0.67	0.54	10.40	11 54	12.00	12.00
	5/8-3/4 inch	8.67	9.54	10.49	11.54	12.69	13.96
	1 inch	12.08	13.29	14.62	16.08	17.69	19.46
	1 1/4 inch	13.87	15.26	16.79	18.47	20.32	22.35
	1 1/2 inch	15.54	17.10	18.81	20.69	22.76	25.04
	2 inch	25.12	27.63	30.39	33.43	36.77	40.45
	3 inch	95.13	104.64	115.10	126.61	139.27	153.20
	4 inch	121.01	133.11	146.42	161.06	177.17	194.89
	6 inch	181.58	199.74	219.71	241.68	265.85	292.44
	Multi-Family						
	Unit Charge	5.20	5.46	5.73	6.02	6.32	6.64
	Customer charge	3.47	3.82	4.20	4.62	5.08	5.59
Comm	odity Charges						
	Residential						
	0-4,000	3.79	4.17	4.59	5.05	5.56	6.12
	4,000-8,000	4.78	5.26	5.79	6.37	7.01	7.71
	8,000-30,000	5.99	6.59	7.25	7.98	8.78	9.66
	over 30,000	9.57	10.53	11.58	12.74	14.01	15.41
	Commercial						
	0-40,000	3.33	3.77	4.27	4.84	5.48	6.21
	40,000-400,000	4.11	4.66	5.28	5.98	6.78	7.68
	over 400,000	5.25	5.95	6.74	7.64	8.66	9.81
	Industrial						
	0-400,000	3.33	3.60	3.89	4.20	4.54	4.90
	over 400,000	4.11	4.44	4.80	5.18	5.59	6.04
	Multi-Family						
	0-4,000 per unit	3.79	3.98	4.18	4.39	4.61	4.84
	4,000-8,000 per unit	4.78	5.02	5.27	5.53	5.81	6.10
	8,000-30,000 per unit	5.99	6.29	6.60	6.93	7.28	7.64
	over 30,000 per unit	9.57	10.05	10.55	11.08	11.63	12.21
	Rural Industrial (LaPrairie)						
	0-400,000	3.33	3.68	4.07	4.50	4.97	5.49
	over 400,000	4.11	4.54	5.02	5.55	6.13	6.77

Grand Rapids Public Utilites Commission Water Operating Results at Proposed Rates

	 Historical				Projected						
	2017	<u>2018</u>	<u>2019</u>	2020	2021	2022	2023	2024	2025	<u>2026</u>	2027
OPERATING REVENUES											
Utility Revenues											
City sales	\$ 1,465,307 \$	1,453,122 \$	1,543,505 \$	1,531,862 \$	1,633,096	\$ 1,626,338 \$	1,803,592 \$	2,003,554 \$	2,227,090 \$	2,477,411 \$	2,757,578
Rural sales	 34,796	30,816	34,744	35,249	37,877	38,616 \$	43,243 \$	48,231 \$	53,784 \$	59,923 \$	66,764
Total Utility Revenues	\$ 1,500,103 \$	1,483,938 \$	1,578,249 \$	1,567,111 \$	1,670,973	\$ 1,664,954 \$	1,846,835 \$	2,051,785 \$	2,280,874 \$	2,537,334 \$	2,824,342
Other Operating Revenues											
Miscellaneous service	\$ 184,560 \$	219,813 \$	247,799 \$	209,774 \$	213,862	\$ 252,517 \$	257,568 \$	262,719 \$	267,973 \$	273,332 \$	278,799
Penalties	 5,307	5,564	5,492	1,157	1,676	 <u> </u>	-	-	-		-
Total Operating Revenues	\$ 1,689,970 \$	1,709,315 \$	1,831,540 \$	1,778,042 \$	1,886,511	\$ 1,917,471 \$	2,104,403 \$	2,314,504 \$	2,548,847 \$	2,810,666 \$	3,103,141
OPERATING EXPENSES											
Production											
Operations											
Supervision and engineering	\$ - \$	5,468 \$	- \$	- \$	-	\$ - \$	- \$	- \$	- \$	- \$	-
Operators wages	141,248	144,538	152,676	158,636	161,855	182,512	187,987	197,387	207,256	217,619	228,500
Water treatment expense	91,516	96,407	89,041	111,014	114,019	101,460	106,533	109,729	113,021	116,411	119,904
Station Supplies and Expenses						2,325	2,441	2,514	2,590	2,668	2,748
Permits and Fees						3,900	4,095	4,218	4,344	4,475	4,609
Miscellaneous Production Expense						15,000	15,750	16,223	16,709	17,210	17,727
Power purchased	164,487	167,067	169,964	168,760	195,190	166,570	174,899	180,145	185,550	191,116	196,850
Other	18,360	16,251	22,818	18,573	26,250	-	-	-	-	-	-
Maintenance											
Supervision	15,232	8,404	209	-	-	-	-	-	-	-	-
WTP buildings and grounds	13,609	7,904	10,565	6,761	17,906	18,600	19,530	20,116	20,719	21,341	21,981
WTP HVAC System						1,000	1,050	1,082	1,114	1,147	1,182
Wellhouses						4,500	4,725	4,867	5,013	5,163	5,318
Wellhead protection						1,000	1,050	1,082	1,114	1,147	1,182
Wells, pumps, mains	4,150	3,678	4,577	6,009	14,353	2,400	2,520	2,596	2,673	2,754	2,836
Maintenance of WTP equipment	37,707	32,868	40,549	62,363	51,511	60,490	66,015	67,995	70,035	72,136	74,300
Maintenance of SCADA System						8,040	11,442	8,785	9,049	9,320	9,600
Underground Clearwell						5,500	5,775	5,948	6,127	6,310	6,500
DCS	7,154	7,037	7,922	6,954	8,183	-	-	-	-	-	-
Inspections	9,231	6,975	10,594	4,630	2,381	3,504	8,679	8,940	9,208	9,484	9,769
Total Production Expenses	\$ 502,694 \$	496,597 \$	508,915 \$	543,700 \$	591,648	\$ 576,801 \$	612,491 \$	631,625 \$	654,522 \$	678,303 \$	703,004
Distribution											
Operations											
Supervision and engineering	\$ 17,899 \$	10,045 \$	27,437 \$	29,361 \$	43,108	38,593	39,751	41,738	43,825	46,016	48,317
Records	17,561	13,282	4,714	10,527	1,275	4,800	5,040	5,191	5,347	5,507	5,673
Inspections	1,289	-	619	6,325	11,359	9,000	17,950	18,489	19,043	19,614	20,203
Thaw and flush hydrants, etc.	376	10,005	18,499	4,932	8,054	11,700	12,285	12,654	13,033	13,424	13,827
Locating expense	-	-	15,686	21,105	13,630	21,000	21,630	22,712	23,847	25,039	26,291
Service on customer premises	6,195	8,841	21,008	7,372	46,238	21,996	22,656	23,789	24,978	26,227	27,538
Mapping	10,459	18,877	28,554	30,799	30,810	34,272	35,300	37,065	38,918	40,864	42,908
Small tools	2,672	2,440	1,665	3,412	3,465	2,400	6,920	2,728	2,809	2,894	2,981
Safety	3,674	9,408	5,683	9,000	14,826	16,500	16,995	17,845	18,737	19,674	20,658
Seminar/training	18,907	20,102	19,287	14,211	20,365	19,200	19,776	20,765	21,803	22,893	24,038
Uniforms Expense						300	315	324	334	344	355
Other	(4,253)	139	79	57	378	-	-	-	-	-	-
Stores	12,323	12,905	837	15,074	24,983	14,255	14,683	15,417	16,188	16,997	17,847
Maintenance											
Towers and tanks	57,562	50,438	3,076	8,573	16,669	5,000	5,250	5,408	5,570	5,737	5,909
Elevated Tank Control System						2,400	2,520	2,596	2,673	2,754	2,836

Grand Rapids Public Utilites Commission Water Operating Results at Proposed Rates

			Historical						Projected			
	2017	2018	2019	2020	2021		2022	2023	2024	2025	2026	2027
Booster Pump							2,130	2,237	2,304	2,373	2,444	2,517
Booster station	106	372	705	303	2,563		500	525	541	557	574	591
Mains and hydrants	128,861	182,080	108,480	138,680	93,945		232,000	200,000	206,000	212,180	218,545	225,102
Services	25,327	10,046	18,326	9,019	43,923		46,000	29,925	30,823	31,747	32,700	33,681
Meters	4,621	5,249	(367)	(2,553)	8,584		2,400	6,972	7,321	7,687	8,071	8,475
Other	10,042	3,060	472	147	5,320		-	-	-	-	-	-
Total Distribution Expenses	\$ 313,621 \$	357,289 \$	274,760 \$	306,344 \$	389,495	\$	484,446 \$	460,729 \$	473,706 \$	491,650 \$	510,319 \$	529,745
Other Operating Expenses												
Customer accounts expense	\$ 90,247 \$	92,884 \$	101,017 \$	88,418 \$	122,931	\$	91,935 \$	94,710 \$	99,428 \$	104,382 \$	109,584 \$	115,044
Administrative and general	322,604	336,698	330,815	320,734	335,912		372,103	408,953	436,570	466,459	498,825	533,895
Depreciation - water	272,370	293,004	305,680	325,827	331,343		331,035	346,127	546,310	591,763	624,216	654,633
Depreciation - other	16,395	16,519	15,984	17,288	17,727		-	-	-	-	-	-
Amortization - intangibles	5,948	5,868	5,457	4,786	4,852		1,000	1,000	1,000	1,000	1,000	-
Service center	 22,098	17,749	21,258	18,027	20,513							-
Total Other Operating Expenses	\$ 729,662 \$	762,722 \$	780,211 \$	775,080 \$	833,278	\$	796,073 \$	850,789 \$	1,083,309 \$	1,163,604 \$	1,233,624 \$	1,303,572
Total Operating Expenses	\$ 1,545,977 \$	1,616,608 \$	1,563,886 \$	1,625,124 \$	1,814,421	\$	1,857,320 \$	1,924,009 \$	2,188,640 \$	2,309,776 \$	2,422,246 \$	2,536,321
NET OPERATING INCOME	\$ 143,993 \$	92,707 \$	267,654 \$	152,918 \$	72,090	\$	60,151 \$	180,394 \$	125,864 \$	239,071 \$	388,420 \$	566,820
NON-OPERATING INCOME (EXPENSES)												
Gain (loss) on property disposition	\$ 3,000 \$	- \$	(105,172) \$	1,125 \$	-	\$	- \$	- \$	- \$	- \$	- \$	-
Penalties	-	-	-	-	-		12,085	11,400	11,400	11,400	11,400	11,400
Bond fees	(342)	(606)	(533)	(1,132)	(992)		(500)	(500)	(500)	(500)	(500)	(500)
Amortization of debt premiums and discounts	(271)	(271)	(271)	(974)	(974)		-	-	-	-	-	-
Amortization of regulatory asset	(703)	(703)	(703)	-	(642)		-	-	-	-	-	-
Interest expense - customer deposits	(4,347)	(4,208)	(1,295)				(1,140)	(1,140)	(1,140)	(1,140)	(1,140)	(1,140)
Interest expense - existing debt	(34,300)	(32,639)	(31,242)	(28,771)	(28,643)		(12,818)	(18,964)	(17,063)	(15,113)	(13,114)	(11,018)
Interest expense - new debt (1)	-	-	-	-	-		-	-	(225,000)	(219,951)	(214,675)	(209,162)
Lease revenues combined service center	20,927	2,983	5,845	4,794	3,265		5,113	3,600	3,600	3,600	3,600	3,600
CSC Building/Grounds expenses	 		<u> </u>	-	-		(60,910)	(63,501)	(65,133)	(66,815)	(65,546)	(67,330)
Total Non-Operating Revenues (Expenses)	\$ (16,036) \$	(35,444) \$	(133,371) \$	(24,958) \$	(27,986)	\$	(58,171) \$	(69,105) \$	(293,836) \$	(288,518) \$	(279,975) \$	(274,149)
NET INCOME	\$ 127,957 \$	57,263 \$	134,283 \$	127,960 \$	44,104	\$	1,980 \$	111,289 \$	(167,972) \$	(49,447) \$	108,444 \$	292,670
as a percent of Operating Revenues	7.6%	3.4%	7.3%	7.2%	2.3%		0.1%	5.3%	-7.3%	-1.9%	3.9%	9.4%
CASH RESERVES												
Beginning of Year						\$	1,087,187 \$	178,992 \$	(689,700) \$	619,768 \$	(21,990) \$	(391,611)
Plus Net Income							1,980	111,289	(167,972)	(49,447)	108,444	292,670
Less Capital Improvements Less ERP Project Costs							(452,761)	(6,005,500) (80,833)	(1,363,575)	(973,580)	(912,511)	(1,274,000)
Plus Depreciation							332,035	347,127	547,310	592,763	625,216	654,633
Plus State Grant Funds							-	-	2,500,000	-	-	-
Plus Available Bond Funds							_	4,850,000	-	_	_	_
Less Debt Service Principal							(789,450)	(90,775)	(94,100)	(94,250)	(68,250)	(71,500)
Less New Debt Principal (1)							-		(112,195)	(117,244)	(122,520)	(128,033)
End of Year				Ś	1,087,187	Ś	178,992 \$	(689,700) \$	619,768 \$	(21,990) \$	(391,611) \$	(917,842)
As a percent of revenue				Ţ	57.6%	Ý	9.3%	-32.8%	26.8%	-0.9%	-13.9%	-29.6%
(1) Assumes \$5.0 million bond issue in late FY 2023												



ELECTRIC COST OF SERVICE AND RATE DESIGN STUDY

Draft Report

November 23, 2022



REPORT OUTLINE

Cover Letter

Section 1 - Introduction

Section 2 – Projected Operating Results – Existing Rates

Section 3 - Cost of Service

Section 4 – Proposed Rates

Item 2.



November 29, 2022

Grand Rapids Public Utilities Commission 500 SE 4th Street Grand Rapids, MN 55744

Subject: Electric Rate Study

Commission Members:

Dave Berg Consulting, LLC has undertaken a study of the retail rates GRPUC charges its customers for electric service. This report summarizes the analyses undertaken and the resulting recommendations for changes to the existing rates.

The new wholesale contract with MP which became effective 1/1/22 has a significant impact on the overall results. Based on the analyses undertaken, no significant changes in existing retail rates are recommended. A redesign of the purchased power adjustment will impact overall customer bills. Based on the new PPAC calculation, which was altered to better reflect the new wholesale contract, overall average bills for customers in 2023 will be reduced by approximately 6.5% from 2022. There are some small changes recommended for certain rates as detailed in Section 4 of the report, these are also made to reflect the new wholesale contract.

Thank you for the opportunity to be of service to GRPUC through the conduct of this study. I wish to express my appreciation for the valuable assistance I received from GRPUC staff relative to the execution of this study.

Sincerely,

Dave Berg Consulting, LLC

David A. Berg, PE Principal

Introduction

The City of Grand Rapids, MN owns and operates a municipal electric utility providing service to approximately 7400 residential, commercial, industrial and lighting customers. The electric utility operates under the direction of the Grand Rapids Public Utilities Commission (GRPUC). This report has been prepared by Dave Berg Consulting, LLC to examine the rates and charges for electric service in Grand Rapids. The study includes an examination of the allocated cost of service based on a 2021 'Test Year.' It also includes projected operating results for 2022-2027 (Study Period). As a result of the analyses undertaken and reported on herein, new proposed electric rates have been recommended for implementation by Grand Rapids.



Section 2 Projected Operating Results Existing Rates

The rates charged for electric services by GRPUC, combined with other operating and non-operating revenues, must be sufficient to meet the cost of providing services to GRPUC's retail customers. This is necessary to ensure the long-term financial health of GRPUC. The cost of providing services consists of normal operating expenses such as wholesale power purchases, local distribution, customer and administrative functions, capital improvements and contributions to the City of Grand Rapids and other non-operating expenses.

An analysis of the operating results for GRPUC during the 2022-2027 Study Period has been performed assuming the current retail rates and charges remain in effect through the Study Period. This analysis has been done to determine the overall need, if any, for additional revenue through rates to meet projected revenue requirements. The analyses and assumptions utilized in these projections are explained below.

Estimated Revenues – Existing Rates

Retail Sales

GRPUC sells retail power and energy to residential, commercial, and industrial customers. The majority of these customers are located within the City of Grand Rapids, however GRPUC does serve certain residential and commercial customers in rural areas outside the City limits. GRPUC also has special rates for sales to heating and cooling, load management and security lighting classes of customers. GRPUC has been experiencing moderate growth in total retail sales to its customers. For the Study Period, 1% annual growth in total sales has been assumed after 2022. Also, the addition of an 800-kW demand billed customer has been assumed in 2023.



GRPUC offsets certain wholesale costs through its Purchased Power Adjustment Clause (PPAC) which automatically adjusts retail electric bills based on certain adjustments on the monthly wholesale bills from Minnesota Power. These adjustments are outside GRPUC's control and difficult to predict. The PPAC ensures that the results of these variable wholesale cost adjustments are properly passed through to retail electric customers.

Exhibit 2-A is a detailed listing of GRPUC's historical and projected operating results at existing rates. The historical and projected revenues from retail sales of power and energy plus the PPAC pass-through are included at the beginning of the exhibit under Utility Revenues.

Other Operating Revenues

GRPUC also receives revenue from other normal operating procedures. These other operating revenues include certain charges made for services not based on power and energy sales. These revenues are shown in Exhibit 2-A as Other Operating Revenues. Utility Revenues combined with Other Operating Revenues result in GRPUC's Total Operating Revenues.

Revenue Requirements

Purchased Power

GRPUC purchases all of its wholesale power and energy requirements from Minnesota Power under the terms of a wholesale power contract. Purchased power is the largest single operating expense for GRPUC. In 2021 a new agreement was negotiated and signed with Minnesota Power. That contract went into effect January 1, 2022. As explained above, GRPUC makes an adjustment to its retail bills through use of a PPAC for certain wholesale power costs. The new contract impacts that calculation. In the first year of the new contract, GRPUC set the PPAC adjustment at \$0.01583/kWh. For future years in the Study Period, the PPAC was calculated utilizing the existing PPAC

Projected Operating Results – Existing Rates

formula. Table 2-1 lists the PPAC rates for each year as included in the projections. The new contract with Minnesota Power necessitates revisiting the PPAC formula, that is addressed in Section 4 of this report.

Table 2-1
Retail PPAC

Year	Rate (\$/kWh)
2022	0.01583
2023	0.00865
2024	0.01072
2025	0.01279
2026	0.01486
2027	0.01693

Total wholesale power cost projections are based on the rates contained in the new Minnesota Power contract.

Other Operating Expenses

GRPUC incurs other operating expenses associated with local electric system operations. Distribution operating and maintenance expenses are related to the substations, overhead and underground lines and customer facilities located in Grand Rapids. Customer accounting expenses are required for reading meters, sending and processing bills and dealing with customer inquiries. To meet state mandated requirements, GRPUC must make conservation improvement program investments with a goal of reducing electric consumption. Administrative and general expenses cover utility management, employee benefits, training and other administrative costs. Other operating expenses for the Study Period have been based on Study Period budgets provided by GRPUC.

Depreciation

GRPUC has annual depreciation and amortization costs based on its system investments. Depreciation during the Study Period is based on existing plant in service plus an amount for new capital improvements. Depreciation is a funded non-cash expense that generates monies available for annual capital improvements, debt principal payments and reserves.

Non-operating Income (Expenses)

GRPUC's non-operating income and expenses are associated with investment income, penalties, interest expenses, and costs and revenues associated with the combined service center.

Payment in Lieu of Taxes

GRPUC makes an annual payment in lieu of taxes ('PILOT') to the City of Grand Rapids. The payment is calculated as the maximum of \$.005 per kWh sold the previous year or \$871,701. Based on this formula, the PILOT has been assumed to be a flat payment of \$871,701 per year through the Study Period.

Capital Improvements

GRPUC makes annual capital investments in its electric system. The electric utility also pays a share of improvements to the combined service center. The combined capital improvements for the electric utility are shown in Table 2-2 below.

Projected Operating Results – Existing Rates

Table 2-2
Capital Improvements

Capital Item	2022	2023	2024	2025	2026	2027
Electric Capital	\$804,968	\$873,290	\$864,440	\$870,440	\$871,440	\$873,440
Service Center Capital	<u>\$145,639</u>	\$303,550	\$65,000	\$13,000	\$13,000	<u>\$13,000</u>
Total	\$950,607	\$1,176,840	\$929,440	\$883,440	\$884,440	\$886,440

Debt Service

GRPUC has annual debt principal payments. The last payment on this debt is scheduled for 2025.

Loss of Revenue Payment to Lake Country Power

GRPUC acquired electric service territory from Lake Country Power (LCP). As part of that acquisition, the annual loss of revenue payment is made to LCP for sales to customers in those areas. The loss of revenue payment has been assumed to be approximately \$78,000 per year.

Projected Operating Results – Existing Rates

Based on the assumptions outlined above, the resulting projected operating results assuming continued application of the existing retail rates is summarized in Table 2-3. A detailed presentation of the operating results is shown in Exhibit 2-A.

Table 2-3
Projected Operating Results
Existing Rates

Year	2022	2023	2024	2025	2026	2027
Operating Revenues	\$19,061,765	\$18,448,198	\$18,977,138	\$19,515,558	\$20,064,303	\$20,624,106
Less Operating Expenses	(15,133,717)	(16,471,822)	(17,535,707)	(18,642,543)	(19,600,947)	(20,298,209)
Less Non -Operating Expenses	(1,075,942)	(1,045,042)	(1,044,661)	(1,047,838)	(1,047,100)	(1,065,454)
Net Income	2,852,105	931,335	396,769	(174,823)	(583,744)	(739,557)
Net Income as Percent of Revenues	15.0%	5.0%	2.1%	-0.9%	-2.9%	-3.6%

Cash Reserves

A summary of the impact of the projected operating results on GRPUC's cash reserves is shown at the end of Exhibit 2-A and in Table 2-4 below. A projected strong net income in 2022 is projected to increase the cash balance from \$1.5 million to \$4.0 million (21.2% of operating revenues) at the end of 2022. For 2023 through 2027 the cash balance is projected to decrease annually to \$3.4 million or 16.3 percent of operating revenues.

Projected Operating Results – Existing Rates

Table 2-4
Projected Cash Reserves
Existing Rates

Year	2022	2023	2024	2025	2026	2027
Beginning Balance	\$1,520,146	\$4,118,902	\$4,521,158	\$4,755,960	\$4,495,451	\$3,990,969
Plus Net Income	2,852,105	931,335	396,769	(174,823)	(583,744)	(739,557)
Less Capital Improvements	(950,607)	(1,176,840)	(929,440)	(883,440)	(884,440)	(886,440)
Less ERP Proj Costs	-	(80,833)	-	-	-	-
Plus Deprec/Amort	910,382	942,069	981,297	1,012,278	1,041,726	1,071,208
Less Debt Principal	(135,100)	(135,450)	(135,800)	(136,500)	-	-
Less LCP Payment	<u>(78,024)</u>	(78,024)	<u>(78,024)</u>	(78,024)	<u>(78,024)</u>	<u>(78,024)</u>
Ending Balance	\$4,118,902	\$4,521,158	\$4,755,960	\$4,495,451	\$3,990,969	\$3,358,155
As a percent of revenue	21.6%	24.5%	25.1%	23.0%	19.9%	16.3%

Grand Rapids Public Utilites Commission Electric Operating Results at Existing Rates

		Historical				Projected												
	-	2017	201	8	2019		2020	2021		2022	2023	202		2025		2026		2027
OPERATING REVENUES																		
Utility Revenues																		
City residential	Ś	3,496,976	3,848,068	3 Ś	3,821,527	Ś	4,142,608 \$	4,311,259	Ś	4,485,931 \$	4,571,803	\$ 4,631,25	0 Ś	4,691,535	Ś	4,752,623	Ś	4,814,576
City commercial and demand & energy		9,790,884	9,051,114		9,189,588		8,874,782	9,411,411	•	9,880,460	10,394,294	10,510,36		10,628,022		10,747,276		10,868,611
Rural residential		1,023,159	1,136,79		1,125,900		1,182,228	1,213,463		1,251,841	1,261,106	1,261,11		1,261,114		1,261,114		1,261,114
Rural commercial and demand & energy		544,806	569,994	ļ	583,743		563,487	626,763		639,013	643,016	643,09	7	643,097		643,097		643,097
Security lighting		57,566	55,300)	56,412		60,075	61,567		61,371	60,994	60,99	4	60,994		60,994		60,994
Total Retail Sales	\$	14,913,391	14,661,267	7 \$	14,777,170	\$	14,823,180 \$	15,624,463	\$	16,318,615 \$	16,931,212	\$ 17,106,82	4 \$	17,284,762	\$	17,465,103	\$	17,648,392
Purchased power adjustment passthrough		693,130	612,842		436,847		400,954	2,401,457		2,631,811	1,405,647	1,758,97		2,119,457		2,487,860		2,864,374
Total Utility Revenues	Ś	15,606,521	15,274,109	\$	15,214,017	Ś	15,224,134 \$	18,025,920	\$	18,950,426 \$	18,336,859	\$ 18,865,79	9 \$	19,404,219	\$	19,952,964	Ś	20,512,767
Other Operating Revenues		.,,.	-, ,		-, ,-	·	-, , - ,	-,,-			-,,	,,		., . ,		-,,		, ,
Pole rentals	\$	16,715	-	\$	38,624	\$	21,416 \$	23,577	\$	21,000 \$	21,000	\$ 21,00	0 \$	21,000	\$	21,000	\$	21,000
Other		176,275	95,319	5	119,168		75,804	148,569		90,339	90,339	90,33	9	90,339		90,339		90,339
Penalties		49,752	49,954		46,823		9,869	14,294		-	-	-		-		-		-
Total Operating Revenues	\$	15,849,263	15,419,378	\$	15,418,632	\$	15,331,223 \$	18,212,360	\$	19,061,765 \$	18,448,198	\$ 18,977,13	8 \$	19,515,558	\$	20,064,303	\$	20,624,106
OPERATING EXPENSES																		
Purchased Power	\$	10,991,941	11,169,489	\$	11,336,920	\$	11,069,792 \$	13,611,143	\$	11,807,430 \$	12,931,589	\$ 13,831,85	1 \$	14,777,844	\$	15,568,697	\$	16,178,333
Distribution Operations																		
Supervision and engineering	\$	75,537	83,435	\$	88,122	\$	89,308 \$	88,820	\$	90,495 \$	93,210	\$ 97,87	0 \$	102,764	\$	107,902	\$	113,297
Crew Personnel										230,683	237,603	249,48	3	261,958		275,055		288,808
Substations		14,410	6,480)	6,373		5,580	6,334		6,614	6,944	7,15	3	7,367		7,588		7,816
Overhead and underground lines		122,256	57,556	5	147,490		91,108	366,055		9,000	9,450	9,73		10,026		10,326		10,636
Locating Expense										48,000	50,400	51,91	2	53,469		55,073		56,726
Meters		103,488	21,75		74,041		79,910	75,208		-	-	-		-		-		-
Customer installations		43,143	21,943		14,714		13,129	22,802		-	-	-		-		-		-
Mapping		81,756	67,602		57,115		34,139	47,363		-	-	-	_			-		-
Small tools		31,520	22,379		15,027		17,833	30,801		28,000	29,400	30,28		31,190		32,126		33,090
Safety		21,887	18,733		12,098		29,396	30,613		17,000	17,850	18,38		18,937		19,505		20,090
Seminar/training		41,493	12,554	+	12,617		11,590	11,401		12,000	12,600	12,97		13,367		13,768		14,181
Uniforms Expense										11,000	11,550	11,89		12,253		12,621		13,000
Rentals Stores		81,237	97,862	,	126,094		95,509	155,224		3,164 55,849	3,322 57,524	3,42 60,40		3,525 63,421		3,630 66,592		3,739 69,921
Stores		61,237	97,802	<u>.</u>	126,094		95,509	155,224		55,649	57,524	60,40	1	63,421		00,592		09,921
Distribution Maintenance																		
Supervision and engineering		75,537	83,326	5	88,121		89,128	88,780		90,309	93,018	97,66		102,552		107,680		113,064
Crew Personnel										158,000	162,740	170,87	7	179,421		188,392		197,811
Locating expense		-	-		11,871		15,769	37,924		-	-	-		-		-		-
Substations		24,965	58,720		73,803		55,319	52,509		60,335	63,352	65,25		67,210		69,226		71,303
Overhead lines		139,379	122,630)	177,900		174,777	236,987		22,000	23,100	23,79		24,507		25,242		25,999
Overhead Lines - Tree Trimming										80,000	150,000	154,50		159,135		163,909		80,000
Underground lines		93,839	56,368	3	43,292		98,188	22,259		16,000	16,800	17,30	4	17,823		18,358		18,909
Underground Lines - Locating		2.505					770			-	-			- 2705		-		-
Line transformers		3,506	-		6,914		778	-		2,500	2,625	2,70	4	2,785		2,869		2,955
Security Lighting		284	4,375)			1,173	5,047		-	-	-		-		-		
Street lighting		1 220	- 11 00/	,	_		2,158	42 542		-	-	-	1	-		-		-
Meters Other		1,320 43,995	11,890 12,127		2,316 57,645		4,168 7,031	42,513 5,922		500	525	54	1	557		574		591
	-					ć			<u>_</u>			- 4 005 15		1 122 267		4 400 427	<u>_</u>	
Total Distribution Expenses	\$	999,552	759,72	7 \$	1,015,553	>	915,991 \$	1,326,562	\$	941,448 \$	1,042,014	\$ 1,086,15	b \$	1,132,267	\$	1,180,437	>	1,141,937

Grand Rapids Public Utilites Commission Electric Operating Results at Existing Rates

	Historical					Projected									
		2017		2018	2019	2020)	2021		2022	2023	2024	2025	2026	2027
Other Operating Expenses															
Customer accounts expense	\$	327,351	\$	357,952 \$	347,475 \$	297,957	\$	436,018	\$	340,422 \$	356,860 \$	368,167 \$	379,842 \$	391,900 \$	404,352
Conservation Improvement										119,701	119,701	119,701	119,701	119,701	119,701
Administrative and general		1,084,608		1,153,457	1,066,753	1,145,209		1,125,105		1,014,334	1,079,589	1,148,535	1,220,610	1,298,485	1,382,678
Depreciation - electric		909,967		881,083	879,575	1,123,497		933,748		908,137	939,824	979,052	1,010,033	1,039,481	1,068,962
Depreciation - other		98,367		99,113	95,904	103,727		106,360		-	-	-	-	-	-
Amortization - intangibles		50,025		49,995	47,935	43,533		45,181		2,245	2,245	2,245	2,245	2,245	2,245
Amortization - other		13,696		13,696	34,338	34,337		34,337		-	-	-	-	-	-
Service center		132,588		106,494	127,550	108,160		123,085					<u> </u>	-	-
Total Other Operating Expenses	\$	2,616,602	\$	2,661,790 \$	2,599,530 \$	2,856,420	\$	2,803,834	\$	2,384,839 \$	2,498,219 \$	2,617,700 \$	2,732,432 \$	2,851,812 \$	2,977,939
Total Operating Expenses	\$	14,608,095	\$	14,591,006 \$	14,952,003 \$	14,842,203	\$	17,741,539	\$	15,133,717 \$	16,471,822 \$	17,535,707 \$	18,642,543 \$	19,600,947 \$	20,298,209
NET OPERATING INCOME	\$	1,241,168	\$	828,372 \$	466,629 \$	489,020	\$	470,821	\$	3,928,047 \$	1,976,376 \$	1,441,431 \$	873,015 \$	463,356 \$	325,897
NON-OPERATING INCOME (EXPENSES)															
Investment income	\$	38,310	\$	26,473 \$	50,825 \$	30,745	\$	15,667	\$	30,225 \$	81,897 \$	89,895 \$	94,564 \$	89,384 \$	79,354
Penalties		-		-	-	-		-		28,622	27,000	27,000	27,000	27,000	27,000
Gain (loss) on property disposition		(407,122)		4,474	11,650	(21,351)	(29,861)		-	-	-	-	-	-
Interest expense		(27,648)		(24,199)	(21,223)	-		(2,996)		(2,700)	(2,700)	(2,700)	(2,700)	(2,700)	(2,700)
Lease revenues combined service center		125,563		17,900	35,071	28,763		19,593		23,858	16,800	16,800	16,800	16,800	16,800
CSC Building/Grounds expenses		-		-	-	-		-		(284,247)	(296,339)	(303,956)	(311,802)	(305,883)	(314,207)
Grant revenue		-		-	-	145,672		84,329		-	-	-	-	-	-
City land improvements		-		-	-	-		(393,640)		-	-	-	-	-	-
Payment in lieu of taxes		(872,898)		(876,832)	(871,916)	(873,537)	(882,288)		(871,701)	(871,701)	(871,701)	(871,701)	(871,701)	(871,701)
Total Non-Operating Revenues (Expenses)	\$	(1,143,795)	\$	(852,184) \$	(795,593) \$	(689,708) \$	(1,189,196)	\$	(1,075,942) \$	(1,045,042) \$	(1,044,661) \$	(1,047,838) \$	(1,047,100) \$	(1,065,454)
NET INCOME	Ś	97,373	Ś	(23,812) \$	(328,964) \$	(200,688) \$	(718,375)	Ś	2,852,105 \$	931,335 \$	396,769 \$	(174,823) \$	(583,744) \$	(739,557)
as a percent of Operating Revenues		0.6%	•	-0.2%	-2.1%	-1.3%	6	-3.9%	·	15.0%	5.0%	2.1%	-0.9%	-2.9%	-3.6%
CASH RESERVES															
Beginning of Year									\$	1,520,146 \$	4,118,902 \$	4,521,158 \$	4,755,960 \$	4,495,451 \$	3,990,969
Plus Net Income										2,852,105	931,335	396,769	(174,823)	(583,744)	(739,557)
Less Capital Improvements										(950,607)	(1,176,840)	(929,440)	(883,440)	(884,440)	(886,440)
Less ERP Project Costs										-	(80,833)	-	-	-	-
Plus Depreciation/Amortization										910,382	942,069	981,297	1,012,278	1,041,726	1,071,208
Less Debt Service Principal										(135,100)	(135,450)	(135,800)	(136,500)	-	-
Less Loss of Revenue Payment to LCP										(78,024)	(78,024)	(78,024)	(78,024)	(78,024)	(78,024)
End of Year							\$	1,520,146	\$	4,118,902 \$	4,521,158 \$	4,755,960 \$	4,495,451 \$	3,990,969 \$	3,358,155
As a percent of revenue								8.3%		21.6%	24.5%	25.1%	23.0%	19.9%	16.3%

Cost-of-Service

A cost-of-service analysis was performed to determine the allocated cost to serve each of GRPUC's customer classes. Customer classes exist, in part, because the cost to serve various kinds of customers varies. The cost-of-service analysis has been performed on a 2021 'Test Year' based on actual 2021 financials, sales and purchases. The results of the cost-of-service study give an indication of the degree of revenue recovery warranted for each class of customers. A comparison of the allocated cost to serve a class of customers and the actual revenues received from that class is taken into consideration during rate design. The resulting unbundled cost analysis for each class is also useful as a basis for considering specific rate component levels in each class.

Functionalization of Costs

GRPUC's Test Year electric revenue requirements have been divided into four functional categories. These categories are described below.

Power Supply – the power supply function is related to the cost of GRPUC purchases from Minnesota Power and transmission expenses through MISO.

Distribution – distribution expenses are related to the GRPUC system for delivering power and energy to GRPUC customers. They include substation and distribution system costs.

Customer – these costs are fixed costs associated with the service facilities utilized to deliver electric power and energy directly to customers. They also include items such as meter reading, billing, collections and customer service.

Revenue – revenue related costs include certain non-operating revenues and utility margin.



Table 3-1 below summarizes the functional electric costs for the adjusted 2021 Test Year. The detailed cost functions are shown in Exhibit 3-A.

Test Year Adjustments – GRPUC entered a new power purchase agreement with Minnesota Power effective 1/1/22. The power supply revenue requirement has been adjusted to represent 2021 wholesale billing units assuming the new 2022 wholesale rate structure.

Table 3-1
Functional Electric Costs
2021 Test Year

	Revenue
Component	Requirement
Power Supply (Modified)	\$11,444,987
Distribution	2,701,144
Customer	781,695
Revenue	<u>2,758,886</u>
Total	\$17,686,712

Classification of Costs

Within each function, the revenue requirements have been divided into distinct cost classifications. These cost classifications are described below.

Demand Related – demand related costs are fixed costs that do not vary with hourly energy consumption. Demand related costs are required to meet the overall demand of the system as expressed in kW.

Energy Related – energy related costs vary based on hourly consumption in kWh.

Customer Related – costs related to serving, metering and billing of individual customers.

Revenue Related – revenue related costs vary by the amount of revenue received by the utility.

Exhibits 3-B through 3-D show the detailed classification of revenue requirements within the power supply, distribution and customer functions.

Allocation of Costs

Based on an analysis of customer class service characteristics derived from GRPUC AMI metering data, the classified costs summarized above were allocated to the major GRPUC customer classes. Allocation of costs was performed on a fully-distributed, embedded cost allocation basis. Specific allocation factors were utilized in each of the cost classification categories as described below. Exhibit 3-E contains a summary of the development of the various allocation factors.

Demand Allocations

Customer class demands on a system can be reflected in various ways. Two primary demand allocation types were utilized in this analysis. Coincident peaks represent a class' share of the overall system peak. GRPUC is billed monthly by MP based on the overall system peak. A 12 CP method, reflecting each class' contribution to each month's system peak, was employed for allocating the demand portion of the MP wholesale bill and MISO transmission charges. Non-coincident peaks reflect a class maximum demand regardless of when it occurs. The non-coincident peak is an indication of the amount of fixed local system required to serve individual groups of customers. A 1 NCP method, an estimate of each class' maximum annual demand on the system, was utilized for allocating local system demand related costs.

Energy Allocations

Each class' share of energy requirements was used to allocate energy related costs. The predominant energy related cost is the energy portion of the MP wholesale power bill.

Customer Allocations

Two separate customer allocators were utilized. A sum of maximum demands allocator was used to allocate costs associated with the physical facilities required to serve individual customers such as service transformers, service drops and meters. The sum of maximum demands represents each individual customers' individual peak, regardless of when it occurs. The customer service allocator is for allocation of costs associated with customer service – meter reading, billing, collections and customer inquiries. For the customer service allocator, a weighted customer allocation factor is developed. Weighting factors are developed to represent the difference in service configurations between customer classifications. For instance, a single industrial customer requires more customer service than a single residential customer.

Revenue Allocations

Revenue related costs were allocated based on each class' share of total demand, energy, customer facility and customer service costs.

Cost of Service Results

Based on the classifications and allocations described above, the estimated cost to serve each major class of customers for the 2021 Test Year was determined. Exhibit 3-F presents this analysis in detail. Table 3-2 below summarizes the total allocated costs for each class compared to the total revenues received from the class during 2021.

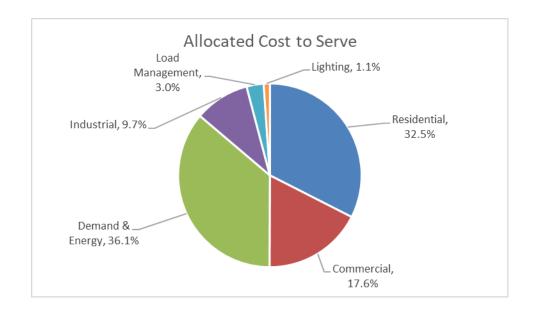
Table 3-2
Cost of Service Results
Comparison of Cost and Revenues
2021 Test Year

Customer Classification	Allocated Cost to Serve	Adjusted Revenues
Residential	\$5,745,628	\$6,032,191
Commercial	\$3,109,198	\$3,178,573
Demand & Energy	\$6,391,298	\$6,267,250
Industrial	\$1,716,082	\$1,653,087
Load Management	\$532,613	\$347,399
Lighting	<u>\$191,893</u>	\$208,213
Total	\$17,686,712	\$17,686,712

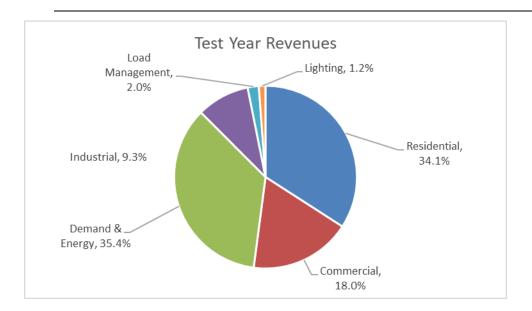
The revenue requirement as allocated to each class and summarized above is shown on a total dollars basis. Table 3-3 below makes the comparison based on percentages of total cost to serve and total revenues. The charts following Table 3-3 show a graphical comparison between allocated cost to serve and revenues as a percentage of the totals. The percentage increase/(decrease) in each class' revenue shown below is the adjustment necessary to produce revenues from each class in accordance with the allocated cost to serve. The percentage adjustments do not represent the recommended change in each class' rates. The cost-of-service results are one item for consideration in rate design. It is important to note also that the adjustments shown in the table below would not change the total revenue received by the utility and are not indicative of overall revenue needs of the utility going forward. Recommendations regarding rate design are included in Section 4 of this report. Very small classes at times do not lend themselves to the full cost-of-service analysis and the results shown, particularly for the security lights class, are often better considered separately.

Table 3-3
Cost of Service Results
Comparison of % Cost and Revenues
2021 Test Year

Customer Classification	Allocated Cost to Serve	Revenues	Increase/ (Decrease)
Residential	32.5%	34.1%	-4.8%
Commercial	17.6%	18.0%	-2.2%
Demand & Energy	36.1%	35.4%	2.0%
Industrial	9.7%	9.3%	3.8%
Load Management	3.0%	2.0%	53.3%
Lighting	<u>1.1%</u>	<u>1.2%</u>	<u>-7.8%</u>
Total	100.0%	100.0%	0.0%



Cost-of-Service



As indicated above, GRPUC's existing class revenues do not exactly match the allocated cost to serve each class. However, for most classes the results are reasonably close (within 5%) and within an acceptable range. Cost based rates are one of several goals in establishing rates. The relationship between allocated costs and revenues for each class should be considered, in addition to other rate related goals, in developing recommended rates.

Grand Rapids Public Utilities Commission Functionalization of 2021 Test Year Revenue Requirements

DEVENUE DEOLUDEMENT	2021	Dower Supply	Distribution	Customor	Payanua Classification Pasis
REVENUE REQUIREMENT Purchased Power	<u>Test Year</u>	Power Supply	<u>Distribution</u>	<u>Customer</u>	Revenue Classification Basis
MP Purchased Power (Modified)	11,258,673	11,258,673	-	-	- 100% power supply
Operation Expenses					
Supervision and Engineering	88,820	_	88,820	-	- 100% distribution
Substations	6,334	_	6,334	_	- 100% distribution
Overhead Lines	131,601	-	131,601	_	- 100% distribution
Underground Lines	231,225	_	231,225	_	- 100% distribution
Locating Expense	37,924	_	37,924	_	- 100% distribution
Street Lighting	3,176	-	3,176	_	- 100% distribution
Security Lighting	53	_	53	_	- 100% distribution
Meters	75,208	_	75,208		- 100% distribution
Customer Installations	22,802		-	-	- 100% distribution
	· ·	-	22,802	-	
Mapping Expense	47,363	-	47,363	-	100/0 distribution
Small Tools Expense	30,801	-	30,801	-	- 100% distribution
Safety Expense	30,613	-	30,613	-	- 100% distribution
Seminar/Training Expense	11,401	-	11,401	-	- 100% distribution
Uniforms Expense	12,681	-	12,681	-	- 100% distribution
Miscellaneous Meetings	40,838	-	40,838	-	- 100% distribution
Rentals	3,118	-	3,118	-	- 100% distribution
Stores Expense	98,587		98,587	<u> </u>	- 100% distribution
Total Operation	872,545	-	872,545	-	-
Maintenance Expenses					
Supervision and Engineering	88,780	-	88,780	-	- 100% distribution
Substation Structures	-	-	-	-	- NA
Substations	52,509	-	52,509	-	- 100% distribution
Overhead Lines	118,101	-	118,101	-	- 100% distribution
Overhead Lines-Tree Trimming	64,555	-	64,555	-	- 100% distribution
Underground Lines	22,120	-	22,120	-	- 100% distribution
Underground Locates	139	-	139	-	- 100% distribution
Line Transformers	-	_	-	_	- NA
Street Lighting	-	-	-	-	- NA
Security Lighting	5,047	_	5,047	_	- 100% distribution
Meters	42,513	_	42,513	_	- 100% distribution
Other	-	_	-	-	- NA
Total Maintenance	393,764	-	393,764	-	-
Other Expenses					
Truck Expense - Operation	4,485	_	4,485	_	- 100% distribution
				 -	100% distribution
Total Other Expenses	4,485	-	4,485	-	•
Customer Accounting Expenses					
Supervision	85,912	-	-	85,912	- 100% customer
Meter Reading	9,872	-	-	9,872	- 100% customer
Customer Billing and Accounting	311,734	-	-	311,734	- 100% customer
Collecting Expense	50	-	-	50	- 100% customer
Uncollectible Accounts	28,450	-	-	28,450	- 100% customer
Miscellaneous Expense	-	-	-	-	- NA
Customer Service & Information Expense	-	-	-	-	- NA
Miscellaneous Customer Information		<u> </u>			- NA
Total Customer Accounting	436,018	-	-	436,018	-
Conservation Improvement Programs					
Planning & Evaluation	14,554	14,554	-	-	- 100% power supply
Energy Star Appliance	14,797	14,797	-	-	- 100% power supply
Fluorescent LT Recycling	-	-	-	-	- NA
Resident/Low Income Conservation	3,821	3,821	-	-	- 100% power supply
Commercial Energy Audits	36,258	36,258	-	-	- 100% power supply
Commercial Industrial Power Grade	104,880	104,880	-	-	- 100% power supply
Load Mgmt Efficiency	· · · · · · · · · · · · · · · · · · ·	-	-	-	- NA
÷,					

Grand Rapids Public Utilities Commission Functionalization of 2021 Test Year Revenue Requirements

	2021					
REVENUE REQUIREMENT	<u>Test Year</u>	Power Supply	Distribution	Customer	Revenue	Classification Basis
Windsense - Admin Exp	-	-	-		-	NA
Education	12,004	12,004	-	-	-	100% power supply
Total Conservation Improvement	186,315	186,315	-	-	-	
Administrative and General Expenses						
Administrative & General Salaries	185,594	-	108,259	77,335	-	labor
Commissioner Salaries	8,712	-	5,082	3,630	-	labor
City Treasurer Salary	462	-	269	193	-	labor
General Office Supplies	14,520	-	8,470	6,050	-	labor
Telephone Expense	14,853	-	8,664	6,189	-	labor
Accounting Outside Service	18,463	-	10,770	7,693	-	labor
Data Processing Outside Service	61,628	-	35,949	25,680	-	labor
Legal Outside Service	11,517	-	6,718	4,799	-	labor
Engineering Outside Service	-	-	-	-	-	NA
Other Outside Service	7,070	-	4,124	2,946	-	labor
Fiber Optic Outside Service	-	-	-	-	-	NA
Insurance - Fire	2,415	-	2,415	-	-	100% distribution
Insurance - Liability	26,984	-	26,984	-	-	100% distribution
Insurance - Worker's Compensation	26,125	-	15,239	10,886	-	labor
Insurance - Worker's Comp Deductible	-	-	-	-	-	NA
Insurance - Auto	3,244	-	3,244	-	-	100% distribution
Insurance - Miscellaneous	1,320	-	1,320	-	-	100% distribution
Insurance Claims - Injuries & Damages	-	-	-	-	-	NA
Insurance - Group Health	242,071	-	141,203	100,869	-	labor
Insurance - Group Health Co-insurance	-	-	-	-	-	NA
Insurance - Group Health HSA funding	66,220	-	38,627	27,593	-	labor
Insurance - Group Life	2,395	-	1,397	998	-	labor
Employee Assistance Programs	-	-	-	-	-	NA
Insurance - Group Dental	13,164	-	7,679	5,485	-	labor
Insurance - Third Party Admin Costs	864	-	504	360	-	labor
FICA	-	-		-	-	NA
PERA	(107,211)	-	(62,537)	(44,674)	-	labor
Deferred Compensation	-	-	-	-	-	NA
Paid Time Off	215,649	-	125,790	89,859	-	labor
Extended Illness Benefit	10,845	-	6,326	4,519	-	labor
Short-Term Disability Payments	-	-	-	-	-	NA
Insurance - Long Term Disability	10,413	-	6,074	4,339	-	labor
Unemployment Compensation	-	-	-	-	-	NA
Membership - APPA	9,606	-	-	-		100% revenue
Membership - NEMPA	4,000	-	-	-		100% revenue
Membership - MMUA	30,426	-	-	-	30,426	100% revenue
Membership - NMMEA	-	-	-	-	-	NA
Membership - Other	- 24 227	-	-	-	- 24 227	NA 100% revenue
Amortize Service Territory Costs	34,337	-		- 2.202	34,337	100% revenue
Miscellaneous General Expense	8,067	-	4,706	3,362	-	labor
Office Equip Rental & Maintenance	10,965	-	6,396	4,569	-	labor
Maintenance of General Plant	-	-	- -	- -		NA
Total Administrative and General	934,720	-	513,670	342,681	78,369	
Depreciation	1,040,108	-	1,040,108	-	-	100% distribution
Amortization	79,518	-	79,518	-	-	100% distribution
Total Operating Expenses	15,206,145	11,444,987	2,904,090	778,699	78,369	

Grand Rapids Public Utilities Commission Functionalization of 2021 Test Year Revenue Requirements

REVENUE REQUIREMENT	2021 <u>Test Year</u>	Power Supply	<u>Distribution</u>	Customer	Revenue Classification Basis
Non Operating Revenues (Expenses)					
Investment income	15,667	-	-	-	15,667 100% revenue
Penalties	-	-	-	-	- NA
Gain (loss) on property disposition	(29,861)	-	-	-	(29,861) 100% revenue
Interest expense	(2,996)	-	-	(2,996)	- 100% customer
Grant revenue	84,329	-	-	-	84,329 100% revenue
City land improvements	(393,640)		<u> </u>	<u> </u>	(393,640) 100% revenue
Total Non-Operating Revenues (Expenses)	(326,501)	-	-	(2,996)	(323,505)
Other Operating Revenues (Expenses)					
Connection Fees	66,954	-	66,954	-	- 100% distribution
Reconnection Fees	4,980	-	4,980	-	- 100% distribution
Pole rentals	23,577	-	23,577	-	- 100% distribution
23 kV Capacity Lease	35,868	-	35,868	-	- 100% distribution
Merchandising and Jobbing	(226)	-	-	-	(226) 100% revenue
City of Grand Rapids Merch/Jobbing	360	-	-	-	360 100% revenue
Street Light Revenues	9,999	-	9,999	-	 100% distribution
Equipment Rental	-	-	-	-	- NA
AFUDC	-	-	-	-	- NA
Miscellaneous	94,634	-	-	-	94,634 100% revenue
Security Lights	61,567	-	61,567	-	 100% distribution
Service Center	(123,085)	-	-	-	(123,085) 100% revenue
Lease revenues combined service center	19,593	-	-	-	19,593 100% revenue
Unusual & Extraordinary Expense	54,331		<u> </u>		54,331 100% revenue
Total Other Operating Revenues	248,553	-	202,945	-	45,607
Payment in lieu of taxes	882,288	-	-	-	882,288 100% revenue
Margin	1,520,331	-	-	-	1,520,331 100% revenue
Total Revenue Requirement	\$ 17,686,712	\$ 11,444,987	\$ 2,701,144 \$	781,695 \$	2,758,886

Grand Rapids Public Utilities Commission 2021 Test Year Power Supply Classification

REVENUE REQUIREMENT	2021 <u>Test Year</u>	Power Supply Demand	Transmission <u>Demand</u>	Energy	Classification Basis
Purchased Power	<u>rest real</u>	<u>Demanu</u>	Demand	Lileigy	<u>Classification basis</u>
MP Purchased Power (Modified)	11,258,673	1,982,838	2,356,067	6,919,767	per power supply
Operation Expenses					
Supervision and Engineering	-	-	-	-	NA
Substations	-	-	-	-	NA
Overhead Lines	_	-	-	_	NA
Underground Lines	-	-	-	-	NA
Locating Expense	-	-	_	-	NA
Street Lighting	-	-	-	-	NA
Security Lighting	-	-	-	-	NA
Meters	-	-	-	-	NA
Customer Installations	-	-	-	-	NA
Mapping Expense	-	-	-	-	NA
Small Tools Expense	-	-	-	-	NA
Safety Expense	-	-	-	-	NA
Seminar/Training Expense	-	-	-	-	NA
Uniforms Expense	-	-	-	-	NA
Miscellaneous Meetings	-	-	-	-	NA
Rentals	-	-	-	-	NA
Stores Expense		-	<u>-</u> -		NA
Total Operation	-	-	-	-	NA
Maintenance Expenses					
Supervision and Engineering	_				
Substation Structures	_	_	_	_	NA
Substations	_	-	-	-	NA
Overhead Lines	_	-	-	-	NA
Overhead Lines-Tree Trimming	_	-	-	-	NA
Underground Lines	_	-	-	_	NA
Underground Locates	-	-	-	-	NA
Line Transformers	-	-	-	-	NA
Street Lighting	-	-	-	-	NA
Security Lighting	-	-	-	-	NA
Meters	-	-	-	-	NA
Other	-	-	-	-	NA
Total Maintenance	-	-	-	-	NA
Other Expenses					
Truck Expense - Operation	-	-	-	-	NA
Total Other Expenses	-	-	-	-	NA
Customer Accounting Expenses					
Supervision	_	-	-	_	NA
Meter Reading	_	-	-	_	NA
Customer Billing and Accounting	-	-	-	-	NA
Collecting Expense	-	-	-	-	NA
Uncollectible Accounts	-	-	-	-	NA
Miscellaneous Expense	-	-	-	-	NA
Customer Service & Information Expense	-	-	-	-	NA
Miscellaneous Customer Information	-	-	-	-	NA
Total Customer Accounting		-	-	-	

Grand Rapids Public Utilities Commission 2021 Test Year Power Supply Classification

	2021	Power Supply	Transmission		
REVENUE REQUIREMENT	<u>Test Year</u>	<u>Demand</u>	Demand	<u>Energy</u>	Classification Basis
Conservation Improvement Programs					
Planning & Evaluation	14,554	-	-	14,554	100% energy
Energy Star Appliance	14,797	-	-	14,797	100% energy
Fluorescent LT Recycling	-	-	-	-	NA
Resident/Low Income Conservation	3,821	-	-	3,821	100% energy
Commercial Energy Audits	36,258	-	-	36,258	100% energy
Commercial Industrial Power Grade	104,880	-	-	104,880	100% energy
Load Mgmt Efficiency	-	-	-	-	NA
Windsense - Admin Exp	-	-	-	-	NA
Education	12,004		<u> </u>	12,004	100% energy
Total Conservation Improvement	186,315	-	-	186,315	
Administrative and General Expenses					
Administrative & General Salaries	-	-	-	_	NA
Commissioner Salaries	-	-	_	_	NA
City Treasurer Salary	-	-	_	_	NA
General Office Supplies	-	-	-	_	NA
Telephone Expense	-	-	-	-	NA
Accounting Outside Service	_	_	_	_	NA
Data Processing Outside Service	_	-	_	_	NA
Legal Outside Service	_	_	_	_	NA
Engineering Outside Service	_	_	_	_	NA
Other Outside Service	_	_	_	_	NA
Fiber Optic Outside Service	_	_	_	_	NA
Insurance - Fire	_	-	_	_	NA
Insurance - Liability	_	_	_	_	NA
Insurance - Worker's Compensation	-	-	-	-	NA
Insurance - Worker's Comp Deductible	-	-	-	_	NA
Insurance - Auto	-	-	-	-	NA
Insurance - Miscellaneous	_	-	_	_	NA
Insurance Claims - Injuries & Damages	-	-	_	_	NA
Insurance - Group Health	-	-	-	-	NA
Insurance - Group Health Co-insurance	-	-	-	_	NA
Insurance - Group Health HSA funding	-	-	-	-	NA
Insurance - Group Life	-	-	-	-	NA
Employee Assistance Programs	-	-	_	_	NA
Insurance - Group Dental	-	-	-	-	NA
Insurance - Third Party Admin Costs	-	-	_	_	NA
FICA	-	-	-	-	NA
PERA	-	-	_	_	NA
Deferred Compensation	-	-	-	-	NA
Paid Time Off	-	-	-	-	NA
Extended Illness Benefit	-	-	-	-	NA
Short-Term Disability Payments	-	-	-	-	NA
Insurance - Long Term Disability	-	-	-	-	NA
Unemployment Compensation	-	-	-	-	NA
Membership - APPA	-	-	-	-	NA
Membership - NEMPA	-	-	-	_	NA
Membership - MMUA	-	-	-	-	NA
Membership - NMMEA	-	-	-	-	NA
Membership - Other	-	-	-	-	NA
Amortize Service Territory Costs	-	-	-	-	NA
,					
Miscellaneous General Expense	-	-	-	-	NA

Grand Rapids Public Utilities Commission 2021 Test Year Power Supply Classification

	2021	Power Supply	Transmission		
REVENUE REQUIREMENT	<u>Test Year</u>	<u>Demand</u>	<u>Demand</u>	<u>Energy</u>	Classification Basis
Maintenance of General Plant			<u> </u>		NA
Total Administrative and General	-	-	-	-	NA
Depreciation	-	-	-	-	NA
Amortization	-	-	-	-	NA
Total Operating Expenses	11,444,987	1,982,838	2,356,067	7,106,082	
Non Operating Revenues (Expenses)					
Investment income	-	-	-	-	NA
Penalties	-	-	-	-	NA
Gain (loss) on property disposition	-	-	-	-	NA
Interest expense	-	-	-	-	NA
Grant revenue	-	-	-	-	NA
City land improvements	-	-	-	-	NA
Total Non-Operating Revenues (Expenses)	-	-	-	-	NA
Other Operating Revenues (Expenses)					
Connection Fees	-	-	-	-	NA
Reconnection Fees	-	-	-	-	NA
Pole rentals	-	-	-	-	NA
23 kV Capacity Lease	-	-	-	-	NA
Merchandising and Jobbing	-	-	-	-	NA
City of Grand Rapids Merch/Jobbing	-	-	-	-	NA
Street Light Revenues	-	-	-	-	NA
Equipment Rental	-	-	-	-	NA
AFUDC	_	-	-	-	NA
Miscellaneous	-	-	-	-	NA
Security Lights	-	-	-	-	NA
Service Center	-	-	-	-	NA
Lease revenues combined service center	-	-	-	-	NA
Unusual & Extraordinary Expense	-	-	-	-	NA
Total Other Operating Revenues	-	-		_	
Payment in lieu of taxes	-	-	-	-	NA
Margin	-	-	-	-	NA
Total Revenue Requirement	\$ 11,444,987	\$ 1,982,838	\$ 2,356,067 \$	7,106,082	

Grand Rapids Public Utilities Commission 2021 Test Year Distribution Classification

	2021		Customer	
REVENUE REQUIREMENT	<u>Test Year</u>	<u>Demand</u>	<u>Facilities</u>	Classification Basis
Purchased Power				
MP Purchased Power (Modified)	-	-	-	NA
Operation Expenses				
Supervision and Engineering	88,820	60,851	27,969	Dist/Cust split
Substations	6,334	6,334	-	100% Dist demand
Overhead Lines	131,601	90,161	41,440	Dist/Cust split
Underground Lines	231,225	158,414	72,811	Dist/Cust split
Locating Expense	37,924	-	37,924	100% Cust facilities
Street Lighting	3,176	-	3,176	100% Cust facilities
Security Lighting	53	-	53	100% Cust facilities
Meters	75,208	-	75,208	100% Cust facilities
Customer Installations	22,802	-	22,802	100% Cust facilities
Mapping Expense	47,363	-	47,363	100% Cust facilities
Small Tools Expense	30,801	21,102	9,699	Dist/Cust split
Safety Expense	30,613	20,973	9,640	Dist/Cust split
Seminar/Training Expense	11,401	7,811	3,590	Dist/Cust split
Uniforms Expense	12,681	8,688	3,993	Dist/Cust split
Miscellaneous Meetings	40,838	27,978	12,859	Dist/Cust split
Rentals	3,118	2,136	982	Dist/Cust split
Stores Expense	98,587	67,543	31,044	Dist/Cust split
Total Operation	872,545	471,992	400,553	
Maintenance Expenses				
Supervision and Engineering	88,780	88,780	-	100% Dist demand
Substation Structures	-	-	-	NA
Substations	52,509	52,509	-	100% Dist demand
Overhead Lines	118,101	80,912	37,189	Dist/Cust split
Overhead Lines-Tree Trimming	64,555	44,228	20,328	Dist/Cust split
Underground Lines	22,120	15,155	6,965	Dist/Cust split
Underground Locates	139	-	139	100% Cust facilities
Line Transformers	-	-	-	NA
Street Lighting	-	-	-	NA
Security Lighting	5,047	-	5,047	100% Cust facilities
Meters	42,513	-	42,513	100% Cust facilities
Other	-	-	-	NA
Total Maintenance	393,764	281,583	112,181	
Other Expenses				
Truck Expense - Operation	4,485	3,073	1,412	Dist/Cust split
Total Other Expenses	4,485	3,073	1,412	Dist/ Cust spire
Total Other Expenses	4,465	3,073	1,412	
Customer Accounting Expenses				
Supervision	-	-	-	NA
Meter Reading	-	-	-	NA
Customer Billing and Accounting	-	-	-	NA
Collecting Expense	-	-	-	NA
Uncollectible Accounts	-	-	-	NA
Miscellaneous Expense	-	-	-	NA
Customer Service & Information Expense	-	-	-	NA [

Grand Rapids Public Utilities Commission 2021 Test Year Distribution Classification

	2021		Customer	
REVENUE REQUIREMENT	Test Year	<u>Demand</u>	<u>Facilities</u>	Classification Basis
Miscellaneous Customer Information				NA
Total Customer Accounting	-	-	-	
Conservation Improvement Programs				
Planning & Evaluation	-	-	-	NA
Energy Star Appliance	-	-	-	NA
Fluorescent LT Recycling	-	-	-	NA
Resident/Low Income Conservation	-	-	-	NA
Commercial Energy Audits	-	-	-	NA
Commercial Industrial Power Grade	-	-	-	NA
Load Mgmt Efficiency	-	-	-	NA
Windsense - Admin Exp	-	-	-	NA
Education				NA
Total Conservation Improvement	-	-	-	
Administrative and General Expenses				
Administrative & General Salaries	108,259	58,046	50,213	labor
Commissioner Salaries	5,082	2,725	2,357	labor
City Treasurer Salary	269	144	125	labor
General Office Supplies	8,470	4,541	3,928	labor
Telephone Expense	8,664	4,645	4,019	labor
Accounting Outside Service	10,770	7,378	3,391	Dist/Cust split
Data Processing Outside Service	35,949	24,629	11,320	Dist/Cust split
Legal Outside Service	6,718	4,603	2,115	Dist/Cust split
Engineering Outside Service	-	-	-	, NA
Other Outside Service	4,124	2,825	1,299	Dist/Cust split
Fiber Optic Outside Service	-	-	, -	, NA
Insurance - Fire	2,415	1,654	760	Dist/Cust split
Insurance - Liability	26,984	18,487	8,497	Dist/Cust split
Insurance - Worker's Compensation	15,239	10,440	4,799	Dist/Cust split
Insurance - Worker's Comp Deductible	-	-	· -	NA
Insurance - Auto	3,244	1,739	1,505	labor
Insurance - Miscellaneous	1,320	708	612	labor
Insurance Claims - Injuries & Damages	-	-	-	labor
Insurance - Group Health	141,203	75,709	65,493	labor
Insurance - Group Health Co-insurance	-	-	-	NA
Insurance - Group Health HSA funding	38,627	20,711	17,916	labor
Insurance - Group Life	1,397	749	648	labor
Employee Assistance Programs	-	-	-	NA
Insurance - Group Dental	7,679	4,117	3,562	labor
Insurance - Third Party Admin Costs	504	270	234	labor
FICA	-	-	-	labor
PERA	(62,537)	(33,531)	(29,006)	labor
Deferred Compensation	-	-	-	labor
Paid Time Off	125,790	67,446	58,345	labor
Extended Illness Benefit	6,326	3,392	2,934	labor
Short-Term Disability Payments	-	-	-	NA
Insurance - Long Term Disability	6,074	3,257	2,817	labor
Unemployment Compensation	-	-	-	NA
Membership - APPA	-	-	-	NA F

Grand Rapids Public Utilities Commission 2021 Test Year Distribution Classification

	2021		Customer	
REVENUE REQUIREMENT	<u>Test Year</u>	<u>Demand</u>	<u>Facilities</u>	Classification Basis
Membership - NEMPA	-	-	-	NA
Membership - MMUA	-	-	-	NA
Membership - NMMEA	-	-	-	NA
Membership - Other	-	-	-	NA
Amortize Service Territory Costs	-	-	-	NA
Miscellaneous General Expense	4,706	3,224	1,482	Dist/Cust split
Office Equip Rental & Maintenance	6,396	4,382	2,014	Dist/Cust split
Maintenance of General Plant				NA
Total Administrative and General	513,670	292,291	221,379	
Depreciation	1,040,108	712,588	327,520	Dist/Cust split
Amortization	79,518	54,479	25,039	Dist/Cust split
Total Operating Expenses	2,904,090	1,816,005	1,088,085	
Non Operating Revenues (Expenses)				
Investment income	-	-	-	NA
Penalties	-	-	-	NA
Gain (loss) on property disposition	-	-	-	NA
Interest expense	-	-	-	NA
Grant revenue	-	-	-	NA
City land improvements				NA
Total Non-Operating Revenues (Expenses)	-	-	-	
Other Operating Revenues (Expenses)				
Connection Fees	66,954	-	66,954	100% Cust facilities
Reconnection Fees	4,980	-	4,980	100% Cust facilities
Pole rentals	23,577	23,577	-	100% Dist demand
23 kV Capacity Lease	35,868	35,868	-	100% Dist demand
Merchandising and Jobbing	-	-	-	NA
City of Grand Rapids Merch/Jobbing	-	-	-	NA
Street Light Revenues	9,999	-	9,999	100% Cust facilities
Equipment Rental	-	-	-	NA
AFUDC	-	-	-	NA
Miscellaneous	-	-	-	NA
Security Lights	61,567	-	61,567	100% Cust facilities
Service Center	-	-	-	NA
Lease revenues combined service center	-	-	-	NA
Unusual & Extraordinary Expense				NA
Total Other Operating Revenues	202,945	59,445	143,500	
Payment in lieu of taxes	-	-	-	NA
Margin	-	-	-	NA
Total Revenue Requirement	\$ 2,701,144	\$ 1,756,560 \$	944,585	

Grand Rapids Public Utilities Commission 2021 Test Year Customer Classification

REVENUE REQUIREMENT Purchased Power MP Purchased Power (Modified) -	<u>Customer</u> -	Classification Basis NA
	-	NA
MP Purchased Power (Modified)	-	NA
Operation Expenses		
Supervision and Engineering -	-	NA
Substations -	-	NA
Overhead Lines -	-	NA
Underground Lines -	-	NA
Locating Expense -	-	NA
Street Lighting -	-	NA
Security Lighting -	-	NA
Meters -	-	NA
Customer Installations -	-	NA
Mapping Expense -	-	NA
Small Tools Expense -	-	NA
Safety Expense -	-	NA
Seminar/Training Expense -	-	NA
Uniforms Expense -	-	NA
Miscellaneous Meetings -	-	NA
Rentals -	-	NA
Stores Expense		NA
Total Operation -	-	
Maintenance Expenses		
Supervision and Engineering -	-	NA
Substation Structures -	-	NA
Substations -	-	NA
Overhead Lines -	-	NA
Overhead Lines-Tree Trimming -	-	NA
Underground Lines -	-	NA
Underground Locates -	-	NA
Line Transformers -	-	NA
Street Lighting -	-	NA
Security Lighting -	-	NA
Meters -	-	NA
Other	<u> </u>	NA
Total Maintenance -	-	
Other Expenses		
Truck Expense - Operation -	-	NA
Total Other Expenses -	-	
Customer Accounting Expenses		
Supervision 85,912	85,912	100% Customer
Meter Reading 9,872	9,872	100% Customer
Customer Billing and Accounting 311,734	311,734	100% Customer
Collecting Expense 50	50	100% Customer
Uncollectible Accounts 28,450	28,450	100% Customer
Miscellaneous Expense -	-	NA NA

Grand Rapids Public Utilities Commission 2021 Test Year Customer Classification

	2021		
REVENUE REQUIREMENT	Test Year	Customer	Classification Basis
Customer Service & Information Expense	-	-	NA
Miscellaneous Customer Information	<u>-</u> _		NA
Total Customer Accounting	436,018	436,018	
Conservation Improvement Programs			
Planning & Evaluation	-	-	NA
Energy Star Appliance	-	-	NA
Fluorescent LT Recycling	-	-	NA
Resident/Low Income Conservation	-	-	NA
Commercial Energy Audits	-	-	NA
Commercial Industrial Power Grade	-	-	NA
Load Mgmt Efficiency	-	-	NA
Windsense - Admin Exp	-	-	NA
Education	<u>-</u>		NA
Total Conservation Improvement	-	-	
Administrative and General Expenses			
Administrative & General Salaries	77,335	77,335	100% Customer
Commissioner Salaries	3,630	3,630	100% Customer
City Treasurer Salary	193	193	100% Customer
General Office Supplies	6,050	6,050	100% Customer
Telephone Expense	6,189	6,189	100% Customer
Accounting Outside Service	7,693	7,693	100% Customer
Data Processing Outside Service	25,680	25,680	100% Customer
Legal Outside Service	4,799	4,799	100% Customer
Engineering Outside Service	-	-	NA
Other Outside Service	2,946	2,946	100% Customer
Fiber Optic Outside Service	-	-	NA
Insurance - Fire	-	-	NA
Insurance - Liability	-	-	NA
Insurance - Worker's Compensation	10,886	10,886	100% Customer
Insurance - Worker's Comp Deductible	-	-	NA
Insurance - Auto	-	-	NA
Insurance - Miscellaneous	-	-	NA
Insurance Claims - Injuries & Damages	-	-	NA
Insurance - Group Health	100,869	100,869	100% Customer
Insurance - Group Health Co-insurance	-	-	NA
Insurance - Group Health HSA funding	27,593	27,593	100% Customer
Insurance - Group Life	998	998	100% Customer
Employee Assistance Programs	-	-	NA
Insurance - Group Dental	5,485	5,485	100% Customer
Insurance - Third Party Admin Costs	360	360	100% Customer
FICA	-	-	NA
PERA	(44,674)	(44,674)	100% Customer
Deferred Compensation	-	-	NA
Paid Time Off	89,859	89,859	100% Customer
Extended Illness Benefit	4,519	4,519	100% Customer
Short-Term Disability Payments	-	-	NA
Insurance - Long Term Disability	4,339	4,339	100% Customer
Unemployment Compensation	-	-	NA

Grand Rapids Public Utilities Commission 2021 Test Year Customer Classification

	2021		
REVENUE REQUIREMENT	Test Year	Customer	Classification Basis
Membership - APPA	-	-	NA
Membership - NEMPA	-	-	NA
Membership - MMUA	-	-	NA
Membership - NMMEA	-	-	NA
Membership - Other	-	-	NA
Amortize Service Territory Costs	-	-	NA
Miscellaneous General Expense	3,362	3,362	100% Customer
Office Equip Rental & Maintenance	4,569	4,569	100% Customer
Maintenance of General Plant	 	 -	NA
Total Administrative and General	342,681	342,681	
Depreciation	-	-	NA
Amortization	-	-	NA
Total Operating Expenses	778,699	778,699	
Non Operating Revenues (Expenses)			
Investment income	-	-	NA
Penalties	-	-	NA
Gain (loss) on property disposition	-	-	NA
Interest expense	(2,996)	(2,996)	100% Customer
Grant revenue	-	-	NA
City land improvements	-	-	NA
Total Non-Operating Revenues (Expenses)	(2,996)	 (2,996)	
Other Operating Revenues (Expenses)			
Connection Fees	-	-	NA
Reconnection Fees	-	-	NA
Pole rentals	-	-	NA
23 kV Capacity Lease	-	-	NA
Merchandising and Jobbing	-	-	NA
City of Grand Rapids Merch/Jobbing	-	-	NA
Street Light Revenues	-	-	NA
Equipment Rental	-	-	NA
AFUDC	-	-	NA
Miscellaneous	-	-	NA
Security Lights	-	-	NA
Service Center	-	-	NA
Lease revenues combined service center	-	-	NA
Unusual & Extraordinary Expense	 -	 -	NA
Total Other Operating Revenues	-	 -	
Payment in lieu of taxes	-	-	NA
Margin	-	-	NA
Total Revenue Requirement	\$ 781,695	\$ 781,695	

Grand Rapids Public Utilites Commission 2021 Test Year Allocation Factors

				Demand &		Load	
Demand Allocation Factors	<u>Total</u>	<u>Residential</u>	<u>Commercial</u>	<u>Energy</u>	<u>Industrial</u>	<u>Management</u>	<u>Lighting</u>
12 Coincident Peak (kW)	266,679	73,071	49,794	111,743	26,055	4,618	1,397
12 CP	100.0%	27.4%	18.7%	41.9%	9.8%	1.7%	0.5%
1 Non-coincident Peak (kW)	31,028	8,877	5,466	10,753	2,927	1,736	1,268
1 NCP	100.0%	28.6%	17.6%	34.7%	9.4%	5.6%	4.1%
Sum of Max Demands (kW)	498,746	232,924	74,456	136,698	29,003	19,913	5,752
SMD	100.0%	46.7%	14.9%	27.4%	5.8%	4.0%	1.2%
Energy Allocation Factors							
Energy Requirements (kWh)	152,478,992	47,153,459	24,932,835	57,322,789	17,180,351	4,801,046	1,088,512
E	100.0%	30.9%	16.4%	37.6%	11.3%	3.1%	0.7%
-	100.070	30.370	10.170	37.070	11.570	3.170	0.770
Customers							
Number of Customers	7,410	5,736	1,114	103	7	323	128
Customer Facility Weight		1.0	1.5	25.0	100.0	1.5	1.0
Customer Service Weight		1.0	2.0	4.0	5.0	0.5	0.5
Customer Facilities Allocation Factor							
Weighted Number of Cust	11,283	5,736	1,670	2,565	700	485	128
CF	100.0%	50.8%	14.8%	22.7%	6.2%	4.3%	1.1%
Customer Service Allocation Factor							
Weighted Number of Cust	8,634	5,736	2,227	410	35	162	64
CS	100.0%	66.4%	25.8%	4.8%	0.4%	1.9%	0.7%
	100.070	33.175	23.070	1.070	0.170	1.370	0.770
Revenue Allocator							
Sum of Other Rev Reqs	14,927,826	4,849,388	2,624,205	5,394,343	1,448,396	449,533	161,960
R	100.0%	32.5%	17.6%	36.1%	9.7%	3.0%	1.1%

Item 2.

Grand Rapids Public Utilites Commission 2021 Test Year Allocation of Revenue Requirements Demand &

				Demand &		Load		Allocation
	<u>Total</u>	<u>Residential</u>	<u>Commercial</u>	<u>Energy</u>	<u>Industrial</u>	<u>Management</u>	<u>Lighting</u>	<u>Factor</u>
Power Supply								
Power Supply Demand	1,982,838	543,306	370,235	830,840	193,728	34,340	10,389	12 CP
Transmission Demand	2,356,067	645,572	439,924	987,229	230,194	40,803	12,345	12 CP
Energy	7,106,082	2,197,525	1,161,962	2,671,453	800,668	223,746	50,729	E
Total Power Supply	11,444,987	3,386,402	1,972,121	4,489,522	1,224,590	298,889	73,462	
<u>Distribution</u>								
Demand	1,756,560	502,531	309,434	608,774	165,708	98,303	71,809	1 NCP
Customer Facilities	944,585	441,138	141,014	258,895	54,929	37,714	10,894	SMD
Total Distribution	2,701,144	943,670	450,448	867,669	220,637	136,017	82,703	
<u>Customer</u>								
Customer Service	781,695	519,316	201,636	37,152	3,169	14,626	5,795	CS
Total Customer Facility	781,695	519,316	201,636	37,152	3,169	14,626	5,795	
Revenue								
Operating Expenses	78,369	25,459	13,777	28,320	7,604	2,360	850	R
Non-Operating Revenue	323,505	105,092	56,870	116,902	31,389	9,742	3,510	R
Other Operating Revenue	(45,607)	(14,816)	(8,017)	(16,481)	(4,425)	(1,373)	(495)	R
Payment in lieu of taxes	882,288	286,616	155,100	318,825	85,605	26,569	9,572	R
Margin	1,520,331	493,888	267,263	549,389	147,513	45,783	16,495	R
Total Revenue	2,758,886	896,240	484,992	996,955	267,685	83,080	29,933	
Total Revenue Requirements	17,686,712	5,745,628	3,109,198	6,391,298	1,716,082	532,613	191,893	
Total Revenues	17,686,712	6,032,191	3,178,573	6,267,250	1,653,087	347,399	208,213	
Percent Revenue Requirements	100.0%	32.5%	17.6%	36.1%	9.7%	3.0%	1.1%	
Percent Revenues	100.0%	34.1%	18.0%	35.4%	9.3%	2.0%	1.2%	
Percent Change	0.0%	-4.8%	-2.2%	2.0%	3.8%	53.3%	-7.8%	
Revenue Req/kWh	0.116	0.122	0.125	0.111	0.100	0.111	0.176	
Revenue/kWh	0.116	0.128	0.127	0.109	0.096	0.072	0.191	

Section 4 Proposed Rates

Changes to rates are generally based on the overall need for revenues and results of the cost-of-service and unbundled cost analyses. The projected operating results at existing rates as presented in Section 2 of this report outlines the overall revenue needs of the electric utility. Section 3 summarizes the cost-of-service results. These factors have been considered in developing the rate proposals summarized in this section of the report.

Proposed Rates

Revenue Needs

Based on the current projections for the electric utility, no overall increase in revenues through general rate increases is recommended at this time. There are specific rate recommendations below which do alter the overall projections for the electric utility.

Purchased Power Adjustment Clause

GRPUC's bills from MP currently include a monthly energy cost adjustment and certain pass-through charges from the Midwest Independent System Operator (MISO). These charges vary from month to month and are not generally predictable. GRPUC utilizes a Purchased Power Adjustment Clause (PPAC) as part of its retail rates to automatically adjust retail bills to account for these charges. In its current form, GRPUC does a straight pass through of the MP energy adjustment and only certain portions of the MISO charges. GRPUC's new wholesale power agreement with MP has a wholesale energy adjustment that is applicable to only a portion of the energy usage by GRPUC. It is not appropriate to pass this charge to all retail kWh sold on a per kWh basis. Additionally, all the MISO charges are outside GRPUC's control. It is recommended that a new PPAC formula be adopted for GRPUC retail rates beginning Jan. 1, 2023.



Section 4

This formula can used to calculate a PPAC at the beginning of each year based on forecasted values provided by MP every fall.

Proposed formula:

PPAC =
$$(\frac{EAC + MISO}{WE \times 0.959} - 0.0120)$$

Where:

- PPAC is the power cost adjustment per kWh.
- EAC is the projected annual base energy adjustment cost in dollars.
- MISO is the projected annual transmission charges in dollars
- WE is the projected annual wholesale energy in kWh.
- 0.959 is a loss adjustment
- 0.0120 is the base dollars per kWh.

Table 4-1 shows the projected PPAC values for 2023-2027 as well as the current PPAC as set for 2022 at the beginning of the year. As shown in the table below, the proposed PPAC for 2023 is \$0.00752/kWh less than the current value. With existing retail rates remaining the same (with a few exceptions), total average bills for all customers will decrease approximately 6.5% from 2022 to 2023. Beyond 2023, the changes in customer bills, assuming published rates do not change, will be dependent on increases in the wholesale base energy adjustment from MP and changes in the MISO transmission costs.

Table 4-1
PPAC Comparison

(\$/kWh)

	(φ/KVVII)	
Year	Present Formula	Proposed Formula
2022	0.01583	n/a
2023	n/a	0.00831
2024	n/a	0.01237
2025	n/a	0.01497
2026	n/a	0.01761
2027	n/a	0.02027

Rate Adjustments

The cost-of-service results for the four major groups of customers (residential, commercial, demand & energy and industrial), show that overall distribution of revenues as compared to allocated revenue requirements by class were within an acceptable range. These four groups of customers account for 97% of total GRPUC revenues from sales to customers. No overall change in the distribution of revenues from these four groups of customers is recommended at this time. Exhibit 4-A lists the existing and proposed rates through 2027. Most rates are not recommended to change, the changing rates as described below are highlighted in Exhibit 4-A.

Load Management Rates

In the cost-of-service results, it indicates that the load management rates are underpaying by slightly more than 50%. This is a relatively small group of customers, only 2% of total revenues are collected from these customers. In the last study these

Section 4

customers were underpaying by 16%. The dramatic change in results for these customers is due to the change in the MP wholesale structure under the new contract. Load management customers receive a lower energy charge because they allow for curtailment of their use during peak times which allows GRPUC to avoid wholesale demand charges from MP. Under the new MP contract, the incremental wholesale demand charge dropped by more than 80% which limits the savings to GRPUC of interruptible customer loads. Additionally, the energy charges under the new contract have increased by more than 100%, the load management customers are primarily served energy during off-peak times. GRPUC has 9 rate different groups of Residential and Commercial load management customers. It is recommended that the energy rates associated with load management rates be increased over a three-year period. Additionally, there are currently two groups of load management customers with two separate energy rates. The recommendation also includes equalizing these rates over the period of increases. No change is recommended in the monthly customer charges for these customers. Table 4-2 summarizes the load management energy rate recommendations.

Table 4-2
Load Management Energy Rates

	(\$/KVVII)								
Customer Groups	Current Rate	Proposed 2023	Proposed 2024	Proposed 2025					
Off Peak Heat/Cool	0.0648	0.0699	0.0750	0.0800					
Storage Heat	0.0545	0.0630	0.0715	0.0800					

Electric Vehicle Charging

Utilities like GRPUC are beginning to see electric vehicles (EVs) enter their service territories. Customers who drive EVs are interested in special electric rate plans that help them control their costs by charging during periods of lower electricity pricing. GRPUC recently implemented TOU rates for EV charging. There are three scenarios

Proposed Rates

examined for EV charging specific rates for GRPUC which are consistent with the existing rates. They are:

- (1) At home charging
- (2) Commercial charging at an existing customer location
- (3) Stand-alone commercial charging

For each of these options, a new proposed TOU rate has been developed for EV In each of these options, a new separate meter with TOU capabilities would be required to measure EV charging usage only. For options (1) and (2) shown above, an existing residential or commercial customer would add EV charging capabilities at their existing location. There would be a separate customer charge with TOU based energy charges as shown in Table 4-3 below. For these customers, they currently have an additional \$4.10 per month customer charge related to the EV usage meter. The proposed on-peak rate shown below matches the on-peak rate listed later in this section in the example residential TOU rate. The proposed off-peak rate for EV charging is less than the TOU rate discussed below and represents an incremental cost rate design as opposed to a shifted energy usage off-peak rate as shown in the residential TOU rate. The off-peak period for EV charging is set as 10 p.m. to 8 a.m. M-For a stand-alone commercial EV charger, option (3) above, the F and weekends. energy rates would be the same as for existing customers, but the customer charge is kept higher as established for the existing rate. Existing customers continue to have the option of adding charging facilities at their current location without a separate meter and pay for the EV charging consumption at their regular rate. The proposed energy rates have been increased to reflect the higher energy rates in the new MP wholesale contract.

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Table 4-3
EV Charging Rate

Item	GRPUC Existing Rate	GRPUC Proposed Rate		
Customer charge	\$4.10/mo. – existing cust \$26.00/mo – stand alone	\$4.10/mo. – existing cust \$26.00/mo – stand alone		
On-peak Energy ⁽¹⁾	\$0.1515/kWh	\$0.1612/kWh		
Off-peak Energy	\$0.0422/kWh	\$0.055/kWh		

⁽¹⁾ On-peak – 8 a.m. to 10 p.m. Monday through Friday

Projected Operating Results - Proposed Rates

Table 4-4 below summarizes the revised projected operating results with all rate adjustments explained above. Exhibit 4-B presents a more detailed version of the operating results at proposed rates.

Table 4-4
Projected Operating Results
Proposed Rates

Year	2022	2023	2024	2025	2026	2027
Operating Revenues	\$19,061,765	\$18,419,566	\$18,977,138	\$19,960,632	\$20,607,360	\$21,270,933
Less Operating Expenses	(15,133,717)	(16,471,822)	(17,535,707)	(18,642,543)	(19,600,947)	(20,298,209)
Less Non -Operating Expenses	(1,075,942)	(1,045,042)	(1,045,230)	(1,048,419)	(1,038,842)	(1,046,235)
Net Income	2,852,105	902,702	396,200	269,670	(32,429)	(73,511)
Net Income as Percent of Revenues	15.0%	4.9%	2.1%	1.4%	-0.2%	-0.3%

Cash Reserves - Proposed Rates

A summary of the impact of the proposed rates on GRPUC's cash reserves for the Study Period is shown in Table 4-5 below, it is also shown at the bottom of Exhibit 4-B.

As shown below, under the proposed rate revisions, the Study Period cash reserve level is consistently between 20% and 25% of revenues. This is slightly below GRPUC's target of 25%.

Table 4-5
Projected Cash Reserves
Proposed Rates

Year	2022	2023	2024	2025	2026	2027
Beginning Balance	\$1,520,146	\$4,118,902	\$4,492,526	\$4,726,758	\$4,910,742	\$4,957,575
Plus Net Income	2,852,105	902,702	396,200	269,670	(32,429)	(73,511)
Less Capital Improvements	(950,607)	(1,176,840)	(929,440)	(883,440)	(884,440)	(886,440)
Less ERP Proj Costs	-	(80,833)	-	-	-	-
Plus Deprec/Amort	910,382	942,069	981,297	1,012,278	1,041,726	1,071,208
Less Debt Principal	(135,100)	(135,450)	(135,800)	(136,500)	-	-
Less LCP Payment	<u>(78,024)</u>	<u>(78,024)</u>	<u>(78,024)</u>	<u>(78,024)</u>	<u>(78,024)</u>	<u>(78,024)</u>
Ending Balance	\$4,118,902	\$4,492,526	\$4,726,758	\$4,910,742	\$4,957,575	\$4,990,807
As a percent of revenue	21.6%	24.4%	24.9%	24.6%	24.1%	23.5%

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Neighboring Utilities

As part of its rate setting strategy, GRPUC compares its rates to other utilities to gauge its relative competitive position. GRPUC buys its wholesale power from MP, but MP also serves retail customers in numerous northern Minnesota cities. MP is rate regulated by the Minnesota State Public Utilities Commission ('MPUC'). Lake Country Power ('LCP') is the rural electric cooperative that serves rural areas around Grand Rapids. Also, a comparison has been prepared for the City of Brainerd, MN municipal utility as well. Tables 4-6, 4-7 and 4-8 below summarize the residential rates for MP, LCP and Brainerd. The rates shown for MP are the current rate and an estimated rate based on their recent approval by the MPUC for a 7.115% interim rate increase.

Table 4-6
Minnesota Power
Residential Rates

Rate Component	Current Rate	Interim Rate
Service Charge	\$8.00/mo	\$8.56/mo
Affordability Surcharge	\$1.03/mo	\$1.03/mo
Energy Charge (all kWh)	\$0.08384/kWh	\$0.08981/kWh
Resource Adjustment (all kWh)	\$0.03427/kWh	\$0.03427/kWh
Conservation Adjustment (all kWh)	\$0.002002/kWh	\$0.002002/kWh
Renewable Adjustment (all kWh)	\$0.00178/kWh	\$0.00178/kWh
Transmission Adjustment (all kWh)	\$0.00742/kWh	\$0.00742/kWh
Duluth Franchise Fee (% of bill)	3.0%	3.0%

Table 4-7
Lake Country Power
Residential Rates

Rate Component	Rate
Facilities Charge	\$42.00/mo
Summer Energy Charge (all kWh)	\$0.1503/kWh
Winter Energy Charge (all kWh)	\$0.1403/kWh
Fall/Spring Energy Charge (all kWh)	\$0.1303/kWh

Table 4-8
Brainerd, MN
Residential Rates

Rate Component	Rate
Facilities Charge	\$16.25/mo
Energy Charge (all kWh)	\$0.0858/kWh
Purchased Power Adjustment (all kWh)	\$0.017/kWh

As shown above, the MP residential rate has a monthly charge plus a monthly surcharge. MP now has a single residential energy rate. There are four separate energy adjustments applied to all energy. MP also pays various levels of franchise fees in the communities it serves. The 3.0% of total bill franchise fee for Duluth was used as a representative fee (these can range from 1%-4% of a typical residential bill). The LCP rates have a single monthly customer charge with energy charges that vary by season. For the comparisons made, a weighted average annual rate of \$0.1403/kWh was utilized for LCP. Brainerd's residential rate includes a monthly customer charge, a single energy charge and a purchased power adjustment.

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Figure 4-1 below is a graphical representation of estimated residential bills for GRPUC existing and proposed 2020 rate, plus MP existing and interim rate and existing rates for LCP and Brainerd. Table 4-9 following the graph shows estimated monthly bills at representative monthly residential energy usage levels.

Figure 4-1
Bill Comparison Graph

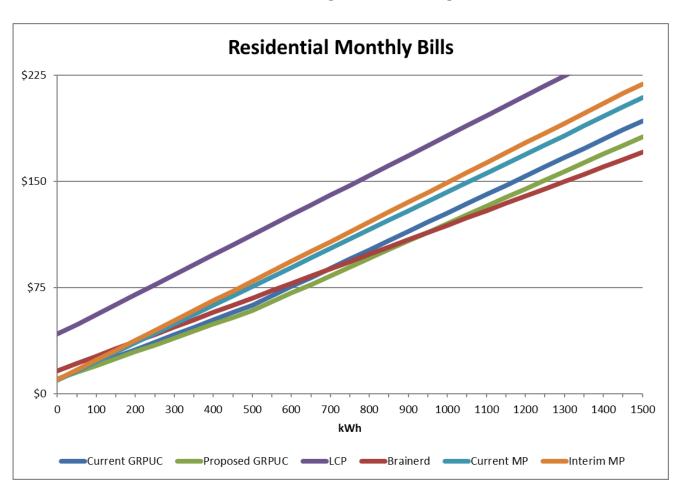


Table 4-9
Monthly Bill Comparison
Residential Rates

Monthly Consumption kWh	GRPUC existing	GRPUC 2023 Proposed	LCP Existing	Brainerd Existing	MP Existing	MP Interim
300	\$41.64	\$39.38	\$84.09	\$44.69	\$49.26	\$51.68
700	88.61	83.34	140.21	82.61	102.53	107.42
1000	127.68	120.16	182.30	111.05	142.49	149.22
1250	160.24	150.83	217.38	134.75	175.79	184.05
1500	192.80	181.51	252.45	158.45	209.09	218.89

Time of Use Considerations

In order to give customers an incentive to move consumption of electricity away from more expensive on-peak periods to cheaper off-peak periods, some utilities have instituted time-of-use (TOU) or time-of-day (TOD) rates. Under a TOU structure, electric rates are higher during defined on-peak periods and lower during off-peak periods. For utilities that have a direct tie to hourly wholesale market prices, the market differentials during on-peak versus off-peak periods can provide guidance for design of For a utility like GRPUC that purchases wholesale based on an all-TOU rates. requirements contract with fixed demand and energy pricing, a different approach to TOU pricing can be adopted. Working with staff, we have developed a residential TOU rate to demonstrate an approach to TOU ratemaking. The on-peak period has been set at 8 a.m. to 8 p.m. Monday through Friday. Off-peak would be all other hours. Based on AMI data for the residential customers, on-peak usage accounts for 39% of total residential usage. The rate has been designed based on the current residential customer charge and a 2 to 1 ratio of on-peak pricing to off-peak pricing. The ratio between pricing period rates was assumed to be high enough to give customers incentive to move consumption to off-peak periods without too excessive of a penalty for

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those customers that need to use energy during on-peak times. The TOU example rate is shown in Table 4-10 below. The design of the rate, if implemented, would need to be reviewed and adjusted as necessary to reflect movement of energy consumption by customers based their reaction to the rate.

Table 4-10
Example TOU Rate

Residential

Item	Rate
Customer charge	\$10.25/mo.
On-peak Energy ⁽¹⁾	\$0.1612/kWh
Off-peak Energy	\$0.0806/kWh

⁽¹⁾ On-peak – 8 a.m. to 8 p.m. Monday through Friday

Large Residential Transformer Capacity

GRPUC's standard residential distribution transformer capacity is 25 kVa with typically 4-5 customers connected to a single transformer. This results in a standard residential transformer capacity of 5-6 kVa per customer. This is very similar to other distribution systems in this area. With the popularity of larger homes and the addition of in-home EV charging for residential customers, there is a trend towards some customers requiring 10 or more kVa of transformation capacity. Distribution transformer capacity is a fixed cost to provide service. These types of costs are generally reflected in the fixed monthly customer charge portion of rates. For residential customers requiring larger than normal capacity, an increased monthly customer charge is the appropriate method for collection those increased fixed costs. Based on installed cost for a 25 kVa transformer provided by GRPUC staff, the calculation of a monthly additional fixed customer charge for increased transformation is summarized in Table 4-11 below. As shown in the table, an annual percentage carrying cost is estimated based on annual costs for depreciation, interest and O&M. The total 8% value multiplied times the

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installed cost results in an annual fixed cost for a 25 kVa transformer. Dividing this by 25 kVa and 12 months results in a monthly cost/kVa of \$2.87. Based on this calculation, a residential customer requiring 5 kVa of additional transformation capacity could be charged an additional monthly fee of \$14.35 (5 times \$2.87).

Table 4-11 Increased Transformation Charge

Residential

Item	Value
Installed Cost (25 kVa)	\$10,756
Annual Fixed Costs as % of Cost	
Depreciation	3%
Interest	4%
O&M	<u>1%</u>
Total	8%
Annual Fixed Cost (25 kVa)	\$860
Annual Fixed Cost/kVa	\$34.42
Monthly Fixed Cost/kVa	\$2.87

Grand Rapids Public Utilities Commission Existing and Proposed Rates

Exhibit	
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			2023	2024	2025	2026	2027
		Current	Proposed	Proposed	Proposed	Proposed	Proposed
Class Electric - City Residential	FCD 10	Rate	Rate	Rate	Rate	Rate	Rate
Electric - City Residential	ECR-10 Customer Charge	10.25	10.25	10.25	10.25	10.25	10.25
	Energy 0-500 kWh	0.0888	0.0888	0.0888	0.0888	0.0888	0.0888
	Energy over 500 kWh	0.1144	0.1144	0.1144	0.1144	0.1144	0.1144
Electric - City Res Off Peak Heat/Cool	ECR-10-LM						
	Customer Charge	8.25 0.0648	8.25 0.0699	8.25 0.0750	8.25 0.0800	8.25 0.0800	8.25 0.0800
Electric - City Residential Annex 1&2	Energy ECR-13-ANX1	0.0648	0.0699	0.0750	0.0800	0.0800	0.0800
Electric City Nesidential Full Ext	Customer Charge	10.25	10.25	10.25	10.25	10.25	10.25
	Energy 0-500 kWh	0.1043	0.1043	0.1043	0.1043	0.1043	0.1043
	Energy over 500 kWh	0.1299	0.1299	0.1299	0.1299	0.1299	0.1299
Electric - City Res Annex 1 Off Peak	ECR-13-ANX1-LM Customer Charge	8.25	8.25	8.25	8.25	8.25	8.25
	Energy	0.0648	0.0699	0.0750	0.0800	0.0800	0.0800
Electric - City Res Storage Heat	ECR-14-STG						
	Customer Charge	8.25	8.25	8.25	8.25	8.25	8.25
Floring City Dog Assess 48.2 Changes Hook	Energy	0.0545	0.0630	0.0715	0.0800	0.0800	0.0800
Electric - City Res Annex 1&2 Storage Heat	ECR-33-ANX1-STG Customer Charge	8.25	8.25	8.25	8.25	8.25	8.25
	Energy	0.0545	0.0630	0.0715	0.0800	0.0800	0.0800
Electric - Rural Residential	ERR-20						
	Customer Charge	11.25	11.25	11.25	11.25	11.25	11.25
	Energy 0-500 kWh	0.0924 0.1180	0.0924	0.0924	0.0924 0.1180	0.0924	0.0924
Electric - Rural Res Off Peak Heat/Cool	Energy over 500 kWh ERR-20-LM	0.1180	0.1180	0.1180	0.1180	0.1180	0.1180
	Customer Charge	8.25	8.25	8.25	8.25	8.25	8.25
	Energy	0.0648	0.0699	0.0750	0.0800	0.0800	0.0800
Electric - City Commercial	ECC-30						
	Customer Charge Energy	19.25 0.1058	19.25 0.1058	19.25 0.1058	19.25 0.1058	19.25 0.1058	19.25 0.1058
Electric - City Comm Off Peak Heat/Cool	ECC-30-LM	0.1038	0.1038	0.1038	0.1038	0.1036	0.1038
	Customer Charge	8.25	8.25	8.25	8.25	8.25	8.25
	Energy	0.0648	0.0699	0.0750	0.0800	0.0800	0.0800
Electric - City Commercial Annex 1&2	ECC-33-ANX1	10.25	10.25	10.25	10.25	10.25	10.25
	Customer Charge Energy	19.25 0.1213	19.25 0.1213	19.25 0.1213	19.25 0.1213	19.25 0.1213	19.25 0.1213
Electric - City Comm Annex Off Peak Heat/Cool	ECC-33-ANX1-LM	0.1213	0.1213	0.1213	0.1213	0.12.13	0.1215
	Customer Charge	8.25	8.25	8.25	8.25	8.25	8.25
51 61. 6	Energy	0.0648	0.0699	0.0750	0.0800	0.0800	0.0800
Electric - City Comm Storage Heat	ECC-34-STG Customer Charge	8.25	8.25	8.25	8.25	8.25	8.25
	Energy	0.0545	0.0630	0.0715	0.0800	0.0800	0.0800
Electric - City Com Seas Eve Ent Lt ICF	ECC-38-SEEL-ICF						
	Customer Charge	12.75	12.75	12.75	12.75	12.75	12.75
Electric - City Com Seas Eve Ent Lt	Energy ECC-39-SEEL	0.1032	0.1032	0.1032	0.1032	0.1032	0.1032
Electric - City Com Seas Eve Ent Et	Customer Charge	12.75	12.75	12.75	12.75	12.75	12.75
	Energy	0.1032	0.1032	0.1032	0.1032	0.1032	0.1032
Electric - City Commercial WWTP	ECC-50-WWTP						
	Customer Charge	19.3	19.25	19.25	19.25	19.25	19.25
Electric - City Commercial Elec Substations	Energy ECC-55-SUB	0.1058	0.1058	0.1058	0.1058	0.1058	0.1058
	Customer Charge	19.25	19.25	19.25	19.25	19.25	19.25
	Energy	0.1058	0.1058	0.1058	0.1058	0.1058	0.1058
Electric - City Commercial Street Light Book	ECC-56-STLT	12.00	12.00	42.00	42.00	12.00	12.00
	Customer Charge Energy	12.00 0.1030	12.00 0.1030	12.00 0.1030	12.00 0.1030	12.00 0.1030	12.00 0.1030
Electric - City Commercial Water Trt Plt	ECC-57-WTR	0.1030	0.1030	0.1030	0.1030	0.1030	0.1030
,	Customer Charge	19.25	19.25	19.25	19.25	19.25	19.25
	Energy	0.1058	0.1058	0.1058	0.1058	0.1058	0.1058
Electric - City Commercial WW Coll Dept	ECC-59-WWCOLL	10.25	10.35	40.25	40.25	10.25	10.35
	Customer Charge Energy	19.25 0.1058	19.25 0.1058	19.25 0.1058	19.25 0.1058	19.25 0.1058	19.25 0.1058
Electric - City Demand>50 KW -KWH	ECD-70-050KWH	0.1030	0.1000	0.1030	0.1030	0.1030	0.1000
	Customer Charge	27.00	27.00	27.00	27.00	27.00	27.00
	Energy	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513
Electric - City Demand Annex1&2>50 KW-KWH	Demand Charge ECD-73-AX-050KH	17.41	17.41	17.41	17.41	17.41	17.41
Electric - City Demand Amiex102220 KW-KWH	Customer Charge	27.00	27.00	27.00	27.00	27.00	27.00
	Energy	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513
	Demand Charge	17.41	17.41	17.41	17.41	17.41	17.41
Electric -City Demand WTP > 50KWH Chg	EDD-58-WT-050KH	27.00	27.00	27.00	27.00	27.00	27.00
	Customer Charge Energy	27.00 0.0513	27.00 0.0513	27.00 0.0513	27.00 0.0513	27.00 0.0513	27.00 0.0513
	Demand Charge	17.41	17.41	17.41	17.41	17.41	17.41
Electric-Elec Vehicle Off-Peak	EVC-ELVOFFPEAK						
	Energy	0.0422	0.0550	0.0550	0.0550	0.0550	0.0550
Electric-Elec Vehicle On-Peak	EVC-ELVONPEAK	0.1545	0.1612	0.1612	0.1612	0.1612	0.1612
Electric-Elec Veh Existing Serv Customer Chg	Energy EVC-EX-CUSTCHG	0.1515	0.1612	0.1612	0.1612	0.1612	0.1612
	Customer Charge	4.10	4.10	4.10	4.10	4.10	4.10
Electric-Elec Veh Stand Alone Customer Chg	EVC-SA-CUSTCHG						
	Customer Charge	26.00	26.00	26.00	26.00	26.00	26.00

Grand Rapids Public Utilities Commission Existing and Proposed Rates

			2023	2024	2025	2026	2027	
		Current	Proposed	Proposed	Proposed	Proposed	Proposed	
Class		Rate	Rate	Rate	Rate	Rate	Rate	
Electric - Rural Commercial	ERC-40							
	Customer Charge	20.25	20.25	20.25	20.25	20.25	20.25	
	Energy	0.1097	0.1097	0.1097	0.1097	0.1097	0.1097	
Electric - Rural Comm Off Peak Heat/Cool	ERC-40-LM							
	Customer Charge	19.25	19.25	19.25	19.25	19.25	19.25	
	Energy	0.0648	0.0699	0.0750	0.0800	0.0800	0.0800	
Electric - Rural Demand>50 KW - KWH	ERD-80-050KWH							
	Customer Charge	27.00	27.00	27.00	27.00	27.00	27.00	
	Energy	0.0550	0.0550	0.0550	0.0550	0.0550	0.0550	
	Demand Charge	17.41	17.41	17.41	17.41	17.41	17.41	
Electric - WWTP Comm (Ind)	ECC-51-WWTP							
	Customer Charge	19.25	19.25	19.25	19.25	19.25	19.25	
	Energy	0.1058	0.1058	0.1058	0.1058	0.1058	0.1058	
Electric - City Demand WWTP>50KWH Chg	ECD-51-WWT-50KH							
	Customer Charge	27.00	27.00	27.00	27.00	27.00	27.00	
	Energy	0.0513	0.0513	0.0513	0.0513	0.0513	0.0513	
	Demand Charge	17.41	17.41	17.41	17.41	17.41	17.41	
Security Lights	\$/month							
Electric - City Res Sec Lt 100W HPS NP	ECR-1021-SL	9.13	9.13	9.13	9.13	9.13	9.13	
Electric - City Res Sec Lt 100W HPS P	ECR-1022-SL	11.82	11.82	11.82	11.82	11.82	11.82	
Electric - City Res Sec Lt 250W HPS NP	ECR-1023-SL	13.08	13.08	13.08	13.08	13.08	13.08	
Electric - City Res Sec Lt 250W HPS P	ECR-1024-SL	15.77	15.77	15.77	15.77	15.77	15.77	
Electric - Security Light 40W LED Existing Pole	E-LED40-EP-SL	4.83	4.83	4.83	4.83	4.83	4.83	
Electric - Security Light 40W LED Separate Pole	E-LED40-SP-SL	9.14	9.14	9.14	9.14	9.14	9.14	
Electric - Security Light 48W LED Existing Pole	E-LED48-EP-SL	5.28	5.28	5.28	5.28	5.28	5.28	
Electric - Security Light 48W LED Separate Pole	E-LED48-SP-SL	8.18	8.18	8.18	8.18	8.18	8.18	
Electric - Security Light 70W LED Existing Pole	E-LED70-EP-SL	5.64	5.64	5.64	5.64	5.64	5.64	
Electric - Security Light 70W LED Separate Pole	E-LED70-SP-SL	9.96	9.96	9.96	9.96	9.96	9.96	
Electric - Rural Com Sec St 100W HPS NP	ERC-4021-SL	9.13	9.13	9.13	9.13	9.13	9.13	
Electric - Rural Com Sec Lt 100W HPS P	ERC-4022-SL	11.82	11.82	11.82	11.82	11.82	11.82	
Electric - Rural Com Sec Lt 250W HPS NP	ERC-4023-SL	13.08	13.08	13.08	13.08	13.08	13.08	
Electric - Rural Com Sec Lt 250W HPS P	ERC-4024-SL	15.77	15.77	15.77	15.77	15.77	15.77	
Electric - Rural Res Sec Lt 100W HPS NP	ERR-2021-SL	9.13	9.13	9.13	9.13	9.13	9.13	
Electric - Rural Res Sec Lt 100W HPS P	ERR-2022-SL	11.82	11.82	11.82	11.82	11.82	11.82	
Electric - Rural Res Sec Lt 250W HPS NP	ERR-2023-SL	13.08	13.08	13.08	13.08	13.08	13.08	
Electric - Rural Res Sec Lt 250W HPS P	ERR-2024-SL	15.77	15.77	15.77	15.77	15.77	15.77	
Electric - City Com Sec Lt 100W HPS NP	ECC-3021-SL	9.13	9.13	9.13	9.13	9.13	9.13	
Electric - City Com Sec Lt 100W HPS P	ECC-3022-SL	11.82	11.82	11.82	11.82	11.82	11.82	
Electric - City Com Sec Lt 250W HPS NP	ECC-3023-SL	13.08	13.08	13.08	13.08	13.08	13.08	
Electric - City Com SecLt 250WHPS P	ECC-3024-SL	15.77	15.77	15.77	15.77	15.77	15.77	
Electric - City Com Sec Lt 150W HPS Twnshp	ECC-3025-SL	9.13	9.13	9.13	9.13	9.13	9.13	
Electric City Com Sec Et 150W in 5 (Wilsing	200 0025 52	5.15	5.15	5.15	5.15	5.15	5.13	

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Grand Rapids Public Utilites Commission Electric Operating Results at Proposed Rates

		Historical						Projected													
		2017	201	8	2019		2020	:	2021		2022		2023		2024	_	2025		2026		2027
OPERATING REVENUES																					
Utility Revenues																					
City residential	\$	3,496,976	3,848,068	s ś	3,821,527	Ś	4,142,608 \$	4,311,	259	\$	4,485,931	Ś	4,581,573	Ś	4,631,250	Ś	4,720,658	Ś	4,781,747	ŝ	4,843,700
City commercial and demand & energy		9,790,884	9,051,114		9,189,588	*	8,874,782	9,411,		•	9,880,460		10,402,764		.0,510,369		10,653,107	*	10,772,361		10,893,697
Rural residential		1,023,159	1,136,79		1,125,900		1,182,228	1,213,			1,251,841		1,269,679		1,261,114		1,286,664		1,286,664		1,286,664
Rural commercial and demand & energy		544,806	569,994		583,743		563,487	626,			639,013		643,887		643,097		645,694		645,694		645,694
Security lighting		57,566	55,300		56,412		60,075		567		61,371		60,994		60,994		60,994		60,994		60,994
Total Retail Sales	Ś	14,913,391			14,777,170	ć	14,823,180 \$			\$	16,318,615	¢	16,958,897	ċ ,	7,106,824		17,367,118	ć	17,547,459		17,730,748
Purchased power adjustment passthrough	Ý	693,130	612,842		436,847	٠	400,954	2,401,		Ţ	2,631,811	Ų	1,349,330		1,758,975		2,482,175	J	2,948,562	,	3,428,845
Total Utility Revenues	Ś	15,606,521			15,214,017	ć	15,224,134 \$	18,025,		\$	18,950,426	¢	18,308,227		.8,865,799		19,849,293	Ċ	20,496,021		21,159,594
Other Operating Revenues	۶	13,000,321	13,274,103	, ,	13,214,017	Ş	13,224,134 3	10,023,	920	Ş	10,930,420	ş	10,300,227	٠.	.0,003,733	ş	15,045,255	Ş	20,490,021	,	21,135,354
Pole rentals	Ś	16,715		\$	38,624	ć	21,416 \$	23,	577	Ś	21,000	ċ	21,000	ċ	21,000	ė	21,000	ć	21,000	٤	21,000
Other	۶	176,275	, - 95,315		119,168	Ş	75,804	148,		Ş	90,339	ş	90,339	ş	90,339		90,339	Ş	90,339	,	90,339
Penalties		49,752	49,954		46,823		9,869	140,			90,339		30,333		30,333		30,333		30,333		30,333
	Ś					<u>_</u>	15,331,223 \$			Ś	19,061,765	ċ	18,419,566	<u>, , , , , , , , , , , , , , , , , , , </u>	.8,977,138	Ś	40.000.033	_	20,607,360		21,270,933
Total Operating Revenues	\$	15,849,263	15,419,378	5 \$	15,418,632	\$	15,331,223 \$	18,212,	360	\$	19,061,765	\$	18,419,566	\$ 1	.8,977,138	\$	19,960,632	>	20,607,360 \$,	21,270,933
OPERATING EXPENSES																					
Purchased Power	\$	10,991,941	11,169,489	\$	11,336,920	\$	11,069,792 \$	13,611,	143	\$	11,807,430	\$	12,931,589	\$:	.3,831,851	\$	14,777,844	\$	15,568,697	į	16,178,333
Distribution Operations																					
Supervision and engineering	\$	75,537	83,435	\$	88,122	\$	89,308 \$	88,	820	\$	90,495	\$	93,210	\$	97,870	\$	102,764	\$	107,902	ŝ	113,297
Crew Personnel											230,683		237,603		249,483		261,958		275,055		288,808
Substations		14,410	6,480)	6,373		5,580	6,	334		6,614		6,944		7,153		7,367		7,588		7,816
Overhead and underground lines		122,256	57,556	5	147,490		91,108	366,	055		9,000		9,450		9,734		10,026		10,326		10,636
Locating Expense											48,000		50,400		51,912		53,469		55,073		56,726
Meters		103,488	21,75	L	74,041		79,910	75,	208		-		-		-		-		-		-
Customer installations		43,143	21,943	L	14,714		13,129	22,	802		-		-		-		-		-		-
Mapping		81,756	67,602	2	57,115		34,139	47,	363		-		-		-		-		-		-
Small tools		31,520	22,379)	15,027		17,833	30,	801		28,000		29,400		30,282		31,190		32,126		33,090
Safety		21,887	18,733	l	12,098		29,396	30,	613		17,000		17,850		18,386		18,937		19,505		20,090
Seminar/training		41,493	12,554	ļ	12,617		11,590	11,	401		12,000		12,600		12,978		13,367		13,768		14,181
Uniforms Expense											11,000		11,550		11,897		12,253		12,621		13,000
Rentals											3,164		3,322		3,422		3,525		3,630		3,739
Stores		81,237	97,862	<u> </u>	126,094		95,509	155,	224		55,849		57,524		60,401		63,421		66,592		69,921
Distribution Maintenance																					
Supervision and engineering		75,537	83,326	5	88,121		89,128	88,	780		90,309		93,018		97,669		102,552		107,680		113,064
Crew Personnel											158,000		162,740		170,877		179,421		188,392		197,811
Locating expense		-	-		11,871		15,769	37,	924		-		-		-		-		-		-
Substations		24,965	58,720)	73,803		55,319	52,	509		60,335		63,352		65,252		67,210		69,226		71,303
Overhead lines		139,379	122,630)	177,900		174,777	236,	987		22,000		23,100		23,793		24,507		25,242		25,999
Overhead Lines - Tree Trimming											80,000		150,000		154,500		159,135		163,909		80,000
Underground lines		93,839	56,368	3	43,292		98,188	22,	259		16,000		16,800		17,304		17,823		18,358		18,909
Underground Lines - Locating											-		-		-		-		-		-
Line transformers		3,506	-		6,914		778		-		2,500		2,625		2,704		2,785		2,869		2,955
Security Lighting		284	4,375	5	-		1,173	5,	047		-		-		-		-		-		-
Street lighting		-	-		-		2,158		-		-		-		-		-		-		-
Meters		1,320	11,890)	2,316		4,168	42,	513		500		525		541		557		574		591
Other		43,995	12,127	7	57,645		7,031	5,	922				-		-		-				-
Total Distribution Expenses	\$	999,552	759,72	7 \$	1,015,553	\$	915,991 \$	1,326,	562	\$	941,448	\$	1,042,014	\$	1,086,156	\$	1,132,267	\$	1,180,437	ذ د	1,141,937

Grand Rapids Public Utilites Commission Electric Operating Results at Proposed Rates

	Historical Projected												
		2017	2018	2019	2020	2021		2022	2023	2024	2025	2026	2027
Other Operating Expenses													
Customer accounts expense	\$	327,351 \$	357,952 \$	347,475 \$	297,957 \$	436,018	\$	340,422 \$	356,860 \$	368,167 \$	379,842 \$	391,900 \$	404,352
Conservation Improvement								119,701	119,701	119,701	119,701	119,701	119,701
Administrative and general		1,084,608	1,153,457	1,066,753	1,145,209	1,125,105		1,014,334	1,079,589	1,148,535	1,220,610	1,298,485	1,382,678
Depreciation - electric		909,967	881,083	879,575	1,123,497	933,748		908,137	939,824	979,052	1,010,033	1,039,481	1,068,962
Depreciation - other		98,367	99,113	95,904	103,727	106,360		-	-	-	-	-	-
Amortization - intangibles		50,025	49,995	47,935	43,533	45,181		2,245	2,245	2,245	2,245	2,245	2,245
Amortization - other		13,696	13,696	34,338	34,337	34,337		-	-	-	-	-	-
Service center		132,588	106,494	127,550	108,160	123,085		-	-	-	-	-	-
Total Other Operating Expenses	\$	2,616,602	2,661,790 \$	2,599,530 \$	2,856,420 \$	2,803,834	\$	2,384,839 \$	2,498,219 \$	2,617,700 \$	2,732,432 \$	2,851,812 \$	2,977,939
Total Operating Expenses	\$	14,608,095 \$	14,591,006 \$	14,952,003 \$	14,842,203 \$	17,741,539	\$	15,133,717 \$	16,471,822 \$	17,535,707 \$	18,642,543 \$	19,600,947 \$	20,298,209
NET OPERATING INCOME	\$	1,241,168 \$	828,372 \$	466,629 \$	489,020 \$	470,821	\$	3,928,047 \$	1,947,744 \$	1,441,431 \$	1,318,089 \$	1,006,413 \$	972,724
NON-OPERATING INCOME (EXPENSES)													
Investment income	\$	38,310 \$	26,473 \$	50,825 \$	30,745 \$	15,667	\$	30,225 \$	81,897 \$	89,326 \$	93,983 \$	97,642 \$	98,573
Penalties		-	-	-	-	-		28,622	27,000	27,000	27,000	27,000	27,000
Gain (loss) on property disposition		(407,122)	4,474	11,650	(21,351)	(29,861)		-	-	-	-	-	-
Interest expense		(27,648)	(24,199)	(21,223)	-	(2,996)		(2,700)	(2,700)	(2,700)	(2,700)	(2,700)	(2,700)
Lease revenues combined service center		125,563	17,900	35,071	28,763	19,593		23,858	16,800	16,800	16,800	16,800	16,800
CSC Building/Grounds expenses		-	-	-	-	-		(284,247)	(296,339)	(303,956)	(311,802)	(305,883)	(314,207)
Grant revenue		-	-	-	145,672	84,329		-	-	-	-	-	-
City land improvements		-	-	-	-	(393,640)		-	-	-	-	-	-
Payment in lieu of taxes		(872,898)	(876,832)	(871,916)	(873,537)	(882,288)		(871,701)	(871,701)	(871,701)	(871,701)	(871,701)	(871,701)
Total Non-Operating Revenues (Expenses)	\$	(1,143,795) \$	(852,184) \$	(795,593) \$	(689,708) \$	(1,189,196)	\$	(1,075,942) \$	(1,045,042) \$	(1,045,230) \$	(1,048,419) \$	(1,038,842) \$	(1,046,235)
NET INCOME	\$	97,373 \$	(23,812) \$	(328,964) \$	(200,688) \$	(718,375)	\$	2,852,105 \$	902,702 \$	396,200 \$	269,670 \$	(32,429) \$	(73,511)
as a percent of Operating Revenues		0.6%	-0.2%	-2.1%	-1.3%	-3.9%		15.0%	4.9%	2.1%	1.4%	-0.2%	-0.3%
CASH RESERVES													
Beginning of Year							\$	1,520,146 \$	4,118,902 \$	4,492,526 \$	4,726,758 \$	4,910,742 \$	4,957,575
Plus Net Income								2,852,105	902,702	396,200	269,670	(32,429)	(73,511)
Less Capital Improvements								(950,607)	(1,176,840)	(929,440)	(883,440)	(884,440)	(886,440)
Less ERP Project Costs								-	(80,833)	-	-	-	-
Plus Depreciation/Amortization								910,382	942,069	981,297	1,012,278	1,041,726	1,071,208
Less Debt Service Principal								(135,100)	(135,450)	(135,800)	(136,500)	-	-
Less Loss of Revenue Payment to LCP								(78,024)	(78,024)	(78,024)	(78,024)	(78,024)	(78,024)
End of Year					\$	1,520,146	\$	4,118,902 \$	4,492,526 \$	4,726,758 \$	4,910,742 \$	4,957,575 \$	4,990,807
As a percent of revenue						8.3%		21.6%	24.4%	24.9%	24.6%	24.1%	23.5%



GRAND RAPIDS PUBLIC UTILITIES COMMISSION AGENDA ITEM

AGENDA DATE: November 29, 2022

AGENDA ITEM: Review 2023 Proposed Operations and Capital Budgets

PREPARED BY: Jean Lane, Business Services Manager

BACKGROUND:

Attached please find the 2023 proposed operations and capital budgets for GRPU.

The information is separated into summary and detail format via separate PDF's. I will be referencing the summary financial information, yet please feel free to review the detail financial information.

I look forward to the Commission's review and discussion.

RECOMMENDATION:

Review and discuss 2023 proposed operations and capital budgets.



GRAND RAPIDS PUBLIC UTILITIES COMMISSION

2023 PROPOSED OPERATIONS & CAPITAL BUDGET

The preparation of the GRPU 2023 proposed operations and capital budget was a team approach. The managers, directors, and key team positions were involved in budget preparation discussions and on-going actual versus budget discussions in 2022. This allows team members to have ownership in the budget preparation process and monitoring the 2023 actual versus budget once approved by the Commission. The 2023 budget was developed using a zero-based approach, historical costs, and current supply chain pricing and availability.

Forecasted financial information, from the rate studies, was used as a base and then adjusted for actual financial activities and pricing for 2023. Thus, the proposed 2023 budgets are slightly different from the rate study forecasts.

The electric and water utilities are showing a net income in the 2023 proposed budget, while wastewater collection displays a net loss per the 2023 Budget Summary worksheet. Wastewater treatment revenue is collected from GRPU major customer (UPM-Blandin) and equals the operation expenses, except for depreciation. Depreciation is a required accounting transaction which has no effect on the operating cash flow.

Rate increases (decreases) as proposed in each utility rate study has been included in the budgeted revenues for 2023. As seen in the 2023 Proposed Revenue by Classification chart the top four total utility revenue sources are (1) city residential sales, (2) city demand and energy sales, (3) city commercial sales, and (4) wastewater treatment customer charges.

Operating expenses include known costs; for example, average insurance increases of 5%, labor contract increases of 2.5%, bond interest and PILOT payments, and training costs for new employees. There are some one-time expenses which are included in the 2023 proposed expense budget; including, a compensation study, consulting services for RPF ERP evaluation and contract negotiation, and preventative maintenance repairs on utility operating equipment.

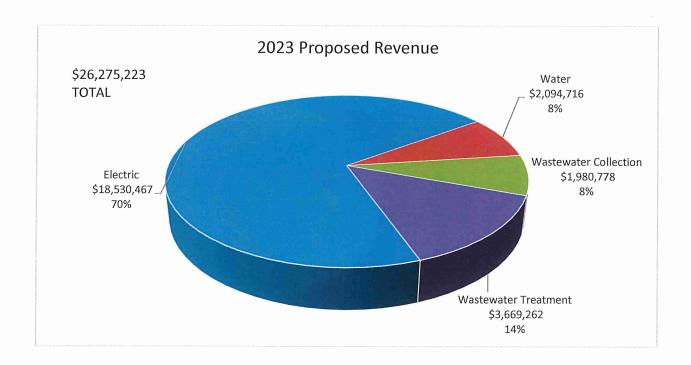
The 2023 Proposed Expenses by Category pie chart illustrates GRPU three largest cost categories are: (1) purchased power at \$12.5 million, (2) production at \$4.9 million, and (3) distribution at \$2.8 million. The actual detail expenses for 2019, 2020, 2021, 2022 year-to-date through September, 2022 forecasted to end-of year, and proposed 2023 budget by line item for each utility are provide for your review.

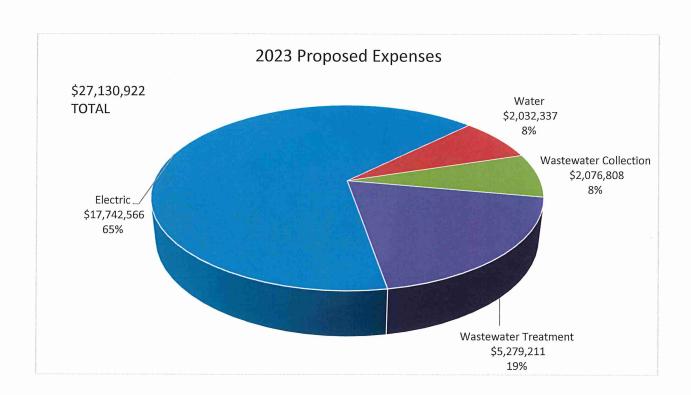
Capital purchases/projects of \$34 million are proposed over the next five years. The proposed capital purchases/projects for 2023 are \$12.3 million per the Capital Plan 2023 thru 2027 Department Summary report. The water utility has 2023 capital proposed at \$7.3 million, domestic wastewater collection at \$2.3 million, and wastewater treatment at \$1.2 million. Individual projects by utility is listed in the Capital Plan 2023 thru 2027 Projects by Department report. Managers are still finalizing the narrative for each individual capital purchase/project request which will be part of the final budget adoption review at the December GRPU Commission meeting.

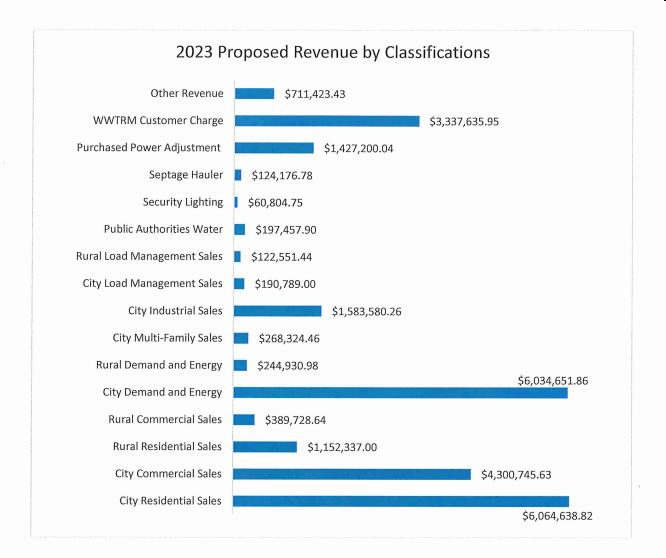
There are six City lead projects costing \$2.9 million included in the utility 2023 proposed capital projects. Over the next five years there are approximately 20 City lead projects costing \$6.2 million or 18% of the \$34 million proposed utility capital. This will change each year as GRPU and the City work together closely on prioritizing infrastructure projects.

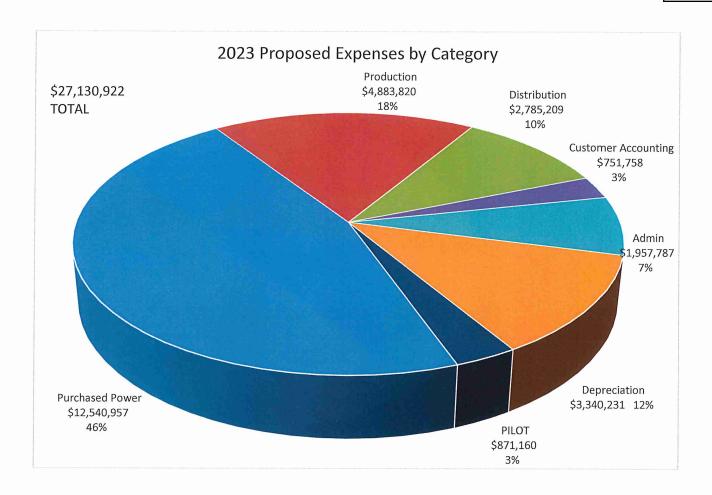
Grand Rapids Public Utilities 2023 Budget Summary 11/20/2022

	Electric	Water	Wastewater Collection	Wastewater Treatment	Total
REVENUES:					
Operating	\$ 18,357,987	\$ 1,846,836	\$ 1,957,094	\$ 3,337,636	\$ 25,499,553
Other	122,283	240,280	17,234		379,797
TOTAL REVENUES	18,480,270	2,087,116	1,974,328	3,337,636	25,879,350
EXPENSES:					
Source of Supply	12,540,957	0	0	0	12,540,957
Production/Treatment	0	601,145	613,413	3,337,636	4,552,194
Distribution/Collection	1,264,979	481,655	732,202	0	2,478,836
Customer Accounting	364,934	110,355	82,268	0	557,557
Conservation Improvement Program	164,356	0	0	0	164,356
Administrative	1,138,755	431,666	310,175	0	1,880,596
Depreciation and Other	947,233	334,147	239,183	1,609,949	3,130,512
Interest Expense & Bond Fees on debt issuance	3,000	21,464	47,662	0	72,126
Other - Solar	142,017	0	0	0	142,017
PILOT City of Grand Rapids:	871,160	0	0	0	871,160
TOTAL EXPENSES	17,437,391	 1,980,432	2,024,903	4,947,585	26,390,311
NET INCOME BEFORE OTHER INC AND EXP	1,042,879	106,684	(50,575)	(1,609,949)	(510,961)
OTHER REVENUES:					
Interest or Demand Payments for Interest	17,247	0	0	331,626	348,873
Penalties	14,950	4,600	3,450	0	23,000
Lease Revenues	18,000	3,000	3,000	0	24,000
TOTAL OTHER REVENUES	50,197	7,600	6,450	331,626	395,873
OTHER EXPENSES:					
Service Center - Operation & Maintenance	145,651	24,275	24,275	0	194,201
Service Center - Depreciation & Amort	128,887	21,481	21,481	0	171,849
Communications - Depreciation	4,936	823	823	0	6,581
AMI - Depreciation	13,698	2,935	2,935	0	19,569
AMI - Amortization Intangibles	8,204	1,758	1,758	0	11,720
Interest Expense & Customer Interest Expense	3,799	633	633	331,626	336,691
TOTAL OTHER EXPENSES	305,175	51,905	51,905	331,626	740,611
NET INCOME (LOSS)	\$ 787,901.00	\$ 62,379.00	\$(96,030.00)	\$ (1,609,949.00)	\$ (855,699.00)
ADD:					
Depreciation and Amortization	947,233	334,147	239,183	1,609,949	3,130,512
Miscellaneous Depreciation and Amortization	160,440	26,997	26,997	0	214,434
NET OPERATING CASH FLOW	\$ 1,895,574	\$ 423,523	\$ 170,150	\$ -	\$ 2,489,247









GRAND RAPIDS PUBLIC UTILITIES Operating Budget - Electric For the Twelve Months Ending Saturday, December 31, 2022

	2019	2020	2021	2022	2022	2023
-	Actual	Actual	Actual	YTD Sept	Forecast	Budget
-						3
ECTRIC DEPARTMENT						
OPERATING REVENUES						
City Residential Sales	\$3,713,421.05	\$4,035,745.59	\$4,217,360.88	\$3,242,751.40	\$4,323,668.53	\$4,467,702.3
City Commercial Sales	2,647,358.00	2,531,212.47	2,627,386.82	2,023,319.04	2,697,758.72	2,887,095.6
City Commercial Sales - EVC Sales	2,017,000.00	118.80	1,162.06	1,525.62	2,034.16	723.4
Rural Residential Sales	1,007,401.66	1,075,240.88	1,114,473.18	837,961.86		
Rural Commercial Sales					1,117,282.48	1,151,555.8
	338,166.36	338,026.47	390,675.11	302,798.90	403,731.87	385,091.7
City Demand and Energy	5,145,843.71	4,959,822.67	5,236,998.57	4,133,875.42	5,511,833.89	6,034,651.8
Rural Demand and Energy	230,675.67	210,819.50	225,393.99	173,522.12	231,362.83	244,930.9
City Industrial Sales	1,298,590.77	1,296,016.81	1,466,929.23	1,248,902.03	1,665,202.71	1,384,889.8
City Load Management Sales	205,900.87	194,592.27	173,993.85	135,152.13	180,202.84	190,789.0
Rural Load Management Sales	133,399.36	121,627.52	109,684.15	89,800.98	119,734.64	122,551.4
TOTAL RETAIL SALES	14,720,757.45	14,763,222.98	15,564,057.84	12,189,609.50	16,252,812.67	16,869,982.2
ADD: Purchased Power Adjustment Passthru	436,845.76	400,952.76	2,401,455.03	1,961,157.58	2,614,876.77	1,427,200.0
TOTAL ELECTRIC SALES	15,157,603.21	15,164,175.74	17,965,512.87	14,150,767.08	18,867,689.44	18,297,182.3
OTHER SERVICES Windsense Program Sales						
City Security Lighting	31,145,91	34,835.41	35,951.81	10 500 64	26 110 10	24 576 5
	,			19,588.64	26,118.19	34,576.5
Rural Security Lighting	25,266.03	25,239.87	25,615.88	14,059.45	18,745.93	26,228.1
Public Street and Highway Lighting	50 111 01	00.075.00	0.1 505 00			
TOTAL OTHER SERVICES	56,411.94	60,075.28	61,567.69	33,648.09	44,864.12	60,804.7
OTHER REVENUES						
Connection Fees	19,797.09	25,285.20	66,954.32	134,428.73	179,238.31	54,471.
Reconnection Fees	11,110.00	360.00	4,980.00	990.00	1,320.00	1,000.0
Pole Rentals	38,624.30	21,415.79	23,577.36	2,761.00	3,681.33	21,344.0
23 kV Capacity Lease	35,868.00	35,868.00	35,868.00	35,868.00	35,868.00	35,868.0
Merchandising and Jobbing (Net)	4,181.64	1,883.66	(225.57)	387.00	516.00	1,642.
City of Grand Rapids Merch / Jobbing (Net	1,716.98	1,329.44	359.85	(426.33)	(568.44)	957.2
Street Light Revenues (Net)				, ,		
` ' /	12,046.28	7,415.98	9,998.64	(4,686.54)	(6,248.72)	7,000.7
Equipment Rental Revenue						
Allowance for Funds Used During Construct	ion	40.000.00				
Allowance for Funds Used During Construct Grant Revenue		10,065.28	84,329.00			
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income	30,049.49	26,830.05	94,633.96	175,554.41	234,072.55	
Allowance for Funds Used During Construct Grant Revenue				175,554.41 344,876.27	234,072.55 447,879.03	
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income	30,049.49	26,830.05	94,633.96			0.0 122,283.2 18,480,270.2
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES	30,049.49 153,393.78	26,830.05 130,453.40	94,633.96 320,475.56	344,876.27	447,879.03	122,283.2
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES	30,049.49 153,393.78	26,830.05 130,453.40	94,633.96 320,475.56	344,876.27	447,879.03	122,283.2
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES	30,049.49 153,393.78 15,367,408.93	26,830.05 130,453.40 15,354,704.42	94,633.96 320,475.56 18,347,556.12	344,876.27 14,529,291.44	447,879.03 19,360,432.59	122,283.2 18,480,270.2
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT	30,049.49 153,393.78	26,830.05 130,453.40	94,633.96 320,475.56	344,876.27	447,879.03	122,283.2 18,480,270.2
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power	30,049.49 153,393.78 15,367,408.93	26,830.05 130,453.40 15,354,704.42	94,633.96 320,475.56 18,347,556.12	344,876.27 14,529,291.44	447,879.03 19,360,432.59	122,283.2 18,480,270.2
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES	30,049.49 153,393.78 15,367,408.93 11,336,920.53	26,830.05 130,453.40 15,354,704.42 11,069,792.18	94,633.96 320,475.56 18,347,556.12 13,611,142.91	344,876.27 14,529,291.44 8,879,119.39	447,879.03 19,360,432.59 11,838,825.85	122,283.2 18,480,270.2 12,540,957.1
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES Supervision and Engineering	30,049.49 153,393.78 15,367,408.93	26,830.05 130,453.40 15,354,704.42	94,633.96 320,475.56 18,347,556.12	344,876.27 14,529,291.44 8,879,119.39 69,562.14	447,879.03 19,360,432.59 11,838,825.85 92,749.52	122,283.2 18,480,270.2 12,540,957.1 93,209.8
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES Supervision and Engineering Crew Personnel	30,049.49 153,393.78 15,367,408.93 11,336,920.53	26,830.05 130,453.40 15,354,704.42 11,069,792.18	94,633.96 320,475.56 18,347,556.12 13,611,142.91	344,876.27 14,529,291.44 8,879,119.39	447,879.03 19,360,432.59 11,838,825.85	122,283.2 18,480,270.2 12,540,957.
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES Supervision and Engineering Crew Personnel Customer Service Engineer	30,049.49 153,393.78 15,367,408.93 11,336,920.53 88,121.52	26,830.05 130,453.40 15,354,704.42 11,069,792.18 89,308.13	94,633.96 320,475.56 18,347,556.12 13,611,142.91 88,820.02	344,876.27 14,529,291.44 8,879,119.39 69,562.14 228,550.83	447,879.03 19,360,432.59 11,838,825.85 92,749.52 304,734.44	122,283.2 18,480,270.2 12,540,957. 93,209.5 346,603.7
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES Supervision and Engineering Crew Personnel Customer Service Engineer Substations	30,049.49 153,393.78 15,367,408.93 11,336,920.53 88,121.52 6,373.33	26,830.05 130,453.40 15,354,704.42 11,069,792.18 89,308.13 5,579.90	94,633.96 320,475.56 18,347,556.12 13,611,142.91 88,820.02 6,334.46	344,876.27 14,529,291.44 8,879,119.39 69,562.14 228,550.83 4,714.38	447,879.03 19,360,432.59 11,838,825.85 92,749.52 304,734.44 6,285.84	122,283.2 18,480,270.2 12,540,957.1 93,209.9 346,603.1 6,952.8
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES Supervision and Engineering Crew Personnel Customer Service Engineer Substations Overhead Lines	30,049.49 153,393.78 15,367,408.93 11,336,920.53 88,121.52 6,373.33 52,835.51	26,830.05 130,453.40 15,354,704.42 11,069,792.18 89,308.13 5,579.90 36,004.09	94,633.96 320,475.56 18,347,556.12 13,611,142.91 88,820.02 6,334.46 131,601.37	344,876.27 14,529,291.44 8,879,119.39 69,562.14 228,550.83 4,714.38 17,430.62	447,879.03 19,360,432.59 11,838,825.85 92,749.52 304,734.44 6,285.84 23,240.83	122,283.2 18,480,270.2 12,540,957. 93,209.9 346,603. 6,952.8 3,163.3
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES Supervision and Engineering Crew Personnel Customer Service Engineer Substations Overhead Lines Underground Lines	30,049.49 153,393.78 15,367,408.93 11,336,920.53 88,121.52 6,373.33 52,835.51 96,141.07	26,830.05 130,453.40 15,354,704.42 11,069,792.18 89,308.13 5,579.90 36,004.09 55,104.11	94,633.96 320,475.56 18,347,556.12 13,611,142.91 88,820.02 6,334.46 131,601.37 231,225.03	344,876.27 14,529,291.44 8,879,119.39 69,562.14 228,550.83 4,714.38 17,430.62 49,677.66	447,879.03 19,360,432.59 11,838,825.85 92,749.52 304,734.44 6,285.84 23,240.83 66,236.88	122,283.2 18,480,270.2 12,540,957. 93,209.9 346,603. 6,952.8 3,163.6 6,348.8
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES Supervision and Engineering Crew Personnel Customer Service Engineer Substations Overhead Lines Underground Lines Locating Expense	30,049.49 153,393.78 15,367,408.93 11,336,920.53 88,121.52 6,373.33 52,835.51	26,830.05 130,453.40 15,354,704.42 11,069,792.18 89,308.13 5,579.90 36,004.09	94,633.96 320,475.56 18,347,556.12 13,611,142.91 88,820.02 6,334.46 131,601.37 231,225.03 37,924.05	344,876.27 14,529,291.44 8,879,119.39 69,562.14 228,550.83 4,714.38 17,430.62	447,879.03 19,360,432.59 11,838,825.85 92,749.52 304,734.44 6,285.84 23,240.83	122,283.2 18,480,270.2 12,540,957. 93,209.9 346,603. 6,952.8 3,163.6 6,348.8
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES Supervision and Engineering Crew Personnel Customer Service Engineer Substations Overhead Lines Underground Lines Locating Expense Street Lighting	30,049.49 153,393.78 15,367,408.93 11,336,920.53 88,121.52 6,373.33 52,835.51 96,141.07 11,870.09	26,830.05 130,453.40 15,354,704.42 11,069,792.18 89,308.13 5,579.90 36,004.09 55,104.11	94,633.96 320,475.56 18,347,556.12 13,611,142.91 88,820.02 6,334.46 131,601.37 231,225.03 37,924.05 3,176.47	344,876.27 14,529,291.44 8,879,119.39 69,562.14 228,550.83 4,714.38 17,430.62 49,677.66	447,879.03 19,360,432.59 11,838,825.85 92,749.52 304,734.44 6,285.84 23,240.83 66,236.88	122,283.2 18,480,270.2 12,540,957. 93,209.9 346,603. 6,952.8 3,163.6 6,348.8
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES Supervision and Engineering Crew Personnel Customer Service Engineer Substations Overhead Lines Underground Lines Locating Expense Street Lighting Security Lighting	30,049.49 153,393.78 15,367,408.93 11,336,920.53 88,121.52 6,373.33 52,835.51 96,141.07 11,870.09 (1,487.09)	26,830.05 130,453.40 15,354,704.42 11,069,792.18 89,308.13 5,579.90 36,004.09 55,104.11 15,769.14	94,633.96 320,475.56 18,347,556.12 13,611,142.91 88,820.02 6,334.46 131,601.37 231,225.03 37,924.05 3,176.47 52.87	344,876.27 14,529,291.44 8,879,119.39 69,562.14 228,550.83 4,714.38 17,430.62 49,677.66 17,332.53	447,879.03 19,360,432.59 11,838,825.85 92,749.52 304,734.44 6,285.84 23,240.83 66,236.88	122,283.2 18,480,270.2 12,540,957. 93,209.9 346,603. 6,952.8 3,163.6 6,348.8
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES Supervision and Engineering Crew Personnel Customer Service Engineer Substations Overhead Lines Underground Lines Locating Expense Street Lighting Security Lighting Meters	30,049.49 153,393.78 15,367,408.93 11,336,920.53 88,121.52 6,373.33 52,835.51 96,141.07 11,870.09	26,830.05 130,453.40 15,354,704.42 11,069,792.18 89,308.13 5,579.90 36,004.09 55,104.11	94,633.96 320,475.56 18,347,556.12 13,611,142.91 88,820.02 6,334.46 131,601.37 231,225.03 37,924.05 3,176.47	344,876.27 14,529,291.44 8,879,119.39 69,562.14 228,550.83 4,714.38 17,430.62 49,677.66	447,879.03 19,360,432.59 11,838,825.85 92,749.52 304,734.44 6,285.84 23,240.83 66,236.88	122,283.2 18,480,270.2 12,540,957. 93,209.9 346,603. 6,952.8 3,163.3 6,348.8 1,400.0
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES Supervision and Engineering Crew Personnel Customer Service Engineer Substations Overhead Lines Underground Lines Locating Expense Street Lighting Security Lighting	30,049.49 153,393.78 15,367,408.93 11,336,920.53 88,121.52 6,373.33 52,835.51 96,141.07 11,870.09 (1,487.09)	26,830.05 130,453.40 15,354,704.42 11,069,792.18 89,308.13 5,579.90 36,004.09 55,104.11 15,769.14	94,633.96 320,475.56 18,347,556.12 13,611,142.91 88,820.02 6,334.46 131,601.37 231,225.03 37,924.05 3,176.47 52.87	344,876.27 14,529,291.44 8,879,119.39 69,562.14 228,550.83 4,714.38 17,430.62 49,677.66 17,332.53	447,879.03 19,360,432.59 11,838,825.85 92,749.52 304,734.44 6,285.84 23,240.83 66,236.88 23,110.04	122,283.2 18,480,270.2 12,540,957. 93,209.9 346,603. 6,952.8 3,163.3 6,348.8 1,400.0
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES Supervision and Engineering Crew Personnel Customer Service Engineer Substations Overhead Lines Underground Lines Locating Expense Street Lighting Security Lighting Meters	30,049.49 153,393.78 15,367,408.93 11,336,920.53 88,121.52 6,373.33 52,835.51 96,141.07 11,870.09 (1,487.09) 74,041.39 14,713.85	26,830.05 130,453.40 15,354,704.42 11,069,792.18 89,308.13 5,579.90 36,004.09 55,104.11 15,769.14 79,910.32 13,129.34	94,633.96 320,475.56 18,347,556.12 13,611,142.91 88,820.02 6,334.46 131,601.37 231,225.03 37,924.05 3,176.47 52.87 75,208.06 22,802.35	344,876.27 14,529,291.44 8,879,119.39 69,562.14 228,550.83 4,714.38 17,430.62 49,677.66 17,332.53 23,751.80 2,201.95	447,879.03 19,360,432.59 11,838,825.85 92,749.52 304,734.44 6,285.84 23,240.83 66,236.88 23,110.04 31,669.07 2,935.93	122,283.2 18,480,270.2 12,540,957. 93,209.9 346,603. 6,952.8 3,163.3 6,348.8 1,400.0
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES Supervision and Engineering Crew Personnel Customer Service Engineer Substations Overhead Lines Underground Lines Locating Expense Street Lighting Security Lighting Meters Customer Installations	30,049.49 153,393.78 15,367,408.93 11,336,920.53 88,121.52 6,373.33 52,835.51 96,141.07 11,870.09 (1,487.09) 74,041.39 14,713.85 57,115.39	26,830.05 130,453.40 15,354,704.42 11,069,792.18 89,308.13 5,579.90 36,004.09 55,104.11 15,769.14 79,910.32 13,129.34 34,139.32	94,633.96 320,475.56 18,347,556.12 13,611,142.91 88,820.02 6,334.46 131,601.37 231,225.03 37,924.05 3,176.47 52.87 75,208.06 22,802.35 47,363.20	344,876.27 14,529,291.44 8,879,119.39 69,562.14 228,550.83 4,714.38 17,430.62 49,677.66 17,332.53 23,751.80 2,201.95 3,282.93	447,879.03 19,360,432.59 11,838,825.85 92,749.52 304,734.44 6,285.84 23,240.83 66,236.88 23,110.04 31,669.07 2,935.93 4,377.24	122,283.2 18,480,270.2 12,540,957. 93,209.9 346,603. 6,952.8 3,163.3 6,348.8 1,400.0 69,696.0 13,906.6 9,166.0
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES Supervision and Engineering Crew Personnel Customer Service Engineer Substations Overhead Lines Underground Lines Locating Expense Street Lighting Security Lighting Meters Customer Installations Mapping/GIS Expense	30,049.49 153,393.78 15,367,408.93 11,336,920.53 88,121.52 6,373.33 52,835.51 96,141.07 11,870.09 (1,487.09) 74,041.39 14,713.85 57,115.39 15,026.70	26,830.05 130,453.40 15,354,704.42 11,069,792.18 89,308.13 5,579.90 36,004.09 55,104.11 15,769.14 79,910.32 13,129.34 34,139.32 17,832.55	94,633.96 320,475.56 18,347,556.12 13,611,142.91 88,820.02 6,334.46 131,601.37 231,225.03 37,924.05 3,176.47 52.87 75,208.06 22,802.35 47,363.20 30,800.72	344,876.27 14,529,291.44 8,879,119.39 69,562.14 228,550.83 4,714.38 17,430.62 49,677.66 17,332.53 23,751.80 2,201.95 3,282.93 25,502.02	447,879.03 19,360,432.59 11,838,825.85 92,749.52 304,734.44 6,285.84 23,240.83 66,236.88 23,110.04 31,669.07 2,935.93 4,377.24 34,002.69	122,283.3 18,480,270.3 12,540,957. 93,209.3 346,603. 6,952.3 3,163.3 6,348.3 1,400.4 69,696.0 13,906.0 9,166.0 29,399.3
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES Supervision and Engineering Crew Personnel Customer Service Engineer Substations Overhead Lines Underground Lines Locating Expense Street Lighting Security Lighting Meters Customer Installations Mapping/GIS Expense Safety Expense	30,049.49 153,393.78 15,367,408.93 11,336,920.53 88,121.52 6,373.33 52,835.51 96,141.07 11,870.09 (1,487.09) 74,041.39 14,713.85 57,115.39 15,026.70 12,097.80	26,830.05 130,453.40 15,354,704.42 11,069,792.18 89,308.13 5,579.90 36,004.09 55,104.11 15,769.14 79,910.32 13,129.34 34,139.32 17,832.55 29,395.61	94,633.96 320,475.56 18,347,556.12 13,611,142.91 88,820.02 6,334.46 131,601.37 231,225.03 37,924.05 3,176.47 52.87 75,208.06 22,802.35 47,363.20 30,800.72 30,612.66	344,876.27 14,529,291.44 8,879,119.39 69,562.14 228,550.83 4,714.38 17,430.62 49,677.66 17,332.53 23,751.80 2,201.95 3,282.93 25,502.02 18,077.02	447,879.03 19,360,432.59 11,838,825.85 92,749.52 304,734.44 6,285.84 23,240.83 66,236.88 23,110.04 31,669.07 2,935.93 4,377.24 34,002.69 24,102.69	122,283.2 18,480,270.2 12,540,957. 93,209.9 346,603. 6,952.8 3,163.3 6,348.8 1,400.0 69,696.0 13,906.0 9,166.0 29,399.0 18,850.0
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES Supervision and Engineering Crew Personnel Customer Service Engineer Substations Overhead Lines Underground Lines Locating Expense Street Lighting Security Lighting Meters Customer Installations Mapping/GIS Expense Safety Expense Seminar/Training Expense	30,049.49 153,393.78 15,367,408.93 11,336,920.53 88,121.52 6,373.33 52,835.51 96,141.07 11,870.09 (1,487.09) 74,041.39 14,713.85 57,115.39 15,026.70 12,097.80 12,617.12	26,830.05 130,453.40 15,354,704.42 11,069,792.18 89,308.13 5,579.90 36,004.09 55,104.11 15,769.14 79,910.32 13,129.34 34,139.32 17,832.55 29,395.61 11,590.32	94,633.96 320,475.56 18,347,556.12 13,611,142.91 88,820.02 6,334.46 131,601.37 231,225.03 37,924.05 3,176.47 52.87 75,208.06 22,802.35 47,363.20 30,800.72 30,612.66 11,400.63	344,876.27 14,529,291.44 8,879,119.39 69,562.14 228,550.83 4,714.38 17,430.62 49,677.66 17,332.53 23,751.80 2,201.95 3,282.93 25,502.02 18,077.02 4,201.79	447,879.03 19,360,432.59 11,838,825.85 92,749.52 304,734.44 6,285.84 23,240.83 66,236.88 23,110.04 31,669.07 2,935.93 4,377.24 34,002.69 24,102.69 5,602.39	122,283.2 18,480,270.2 12,540,957. 93,209.9 346,603. 6,952.8 3,163.3 6,348.8 1,400.0 69,696.0 13,906.6 9,166.0 29,399.9 18,850.0 17,600.0
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES Supervision and Engineering Crew Personnel Customer Service Engineer Substations Overhead Lines Underground Lines Locating Expense Street Lighting Security Lighting Meters Customer Installations Mapping/GIS Expense Safety Expense Seminar/Training Expense Uniforms Expense	30,049.49 153,393.78 15,367,408.93 11,336,920.53 88,121.52 6,373.33 52,835.51 96,141.07 11,870.09 (1,487.09) 74,041.39 14,713.85 57,115.39 15,026.70 12,097.80 12,617.12 7,766.17	26,830.05 130,453.40 15,354,704.42 11,069,792.18 89,308.13 5,579.90 36,004.09 55,104.11 15,769.14 79,910.32 13,129.34 34,139.32 17,832.55 29,395.61 11,590.32 7,124.31	94,633.96 320,475.56 18,347,556.12 13,611,142.91 88,820.02 6,334.46 131,601.37 231,225.03 37,924.05 3,176.47 52.87 75,208.06 22,802.35 47,363.20 30,800.72 30,612.66 11,400.63 12,680.59	344,876.27 14,529,291.44 8,879,119.39 69,562.14 228,550.83 4,714.38 17,430.62 49,677.66 17,332.53 23,751.80 2,201.95 3,282.93 25,502.02 18,077.02 4,201.79 4,814.46	447,879.03 19,360,432.59 11,838,825.85 92,749.52 304,734.44 6,285.84 23,240.83 66,236.88 23,110.04 31,669.07 2,935.93 4,377.24 34,002.69 24,102.69 5,602.39 6,419.28	122,283.2 18,480,270.2 12,540,957. 93,209.9 346,603. 6,952.8 3,163.3 6,348.8 1,400.0 69,696.0 13,906.6 9,166.0 29,399.9 18,850.0 17,600.0 11,550.0
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES Supervision and Engineering Crew Personnel Customer Service Engineer Substations Overhead Lines Underground Lines Locating Expense Street Lighting Security Lighting Meters Customer Installations Mapping/GIS Expense Safety Expense Seminar/Training Expense Uniforms Expense Miscellaneous Meetings	30,049.49 153,393.78 15,367,408.93 11,336,920.53 88,121.52 6,373.33 52,835.51 96,141.07 11,870.09 (1,487.09) 74,041.39 14,713.85 57,115.39 15,026.70 12,097.80 12,617.12 7,766.17 49,862.41	26,830.05 130,453.40 15,354,704.42 11,069,792.18 89,308.13 5,579.90 36,004.09 55,104.11 15,769.14 79,910.32 13,129.34 34,139.32 17,832.55 29,395.61 11,590.32 7,124.31 29,531.50	94,633.96 320,475.56 18,347,556.12 13,611,142.91 88,820.02 6,334.46 131,601.37 231,225.03 37,924.05 3,176.47 52.87 75,208.06 22,802.35 47,363.20 30,800.72 30,612.66 11,400.63 12,680.59 40,837.53	344,876.27 14,529,291.44 8,879,119.39 69,562.14 228,550.83 4,714.38 17,430.62 49,677.66 17,332.53 23,751.80 2,201.95 3,282.93 25,502.02 18,077.02 4,201.79 4,814.46 608.35	447,879.03 19,360,432.59 11,838,825.85 92,749.52 304,734.44 6,285.84 23,240.83 66,236.88 23,110.04 31,669.07 2,935.93 4,377.24 34,002.69 24,102.69 5,602.39 6,419.28 811.13	122,283.2 18,480,270.2 12,540,957.1 93,209.9 346,603.1 6,952.8 3,163.3 6,348.5 1,400.0 69,696.0 13,906.6 9,166.0 29,399.9 18,850.0 17,600.0 11,550.0 1,592.1
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES Supervision and Engineering Crew Personnel Customer Service Engineer Substations Overhead Lines Underground Lines Locating Expense Street Lighting Security Lighting Meters Customer Installations Mapping/GIS Expense Safety Expense Seminar/Training Expense Uniforms Expense Miscellaneous Meetings Rentals	30,049.49 153,393.78 15,367,408.93 11,336,920.53 88,121.52 6,373.33 52,835.51 96,141.07 11,870.09 (1,487.09) 74,041.39 14,713.59 57,115.39 15,026.70 12,617.12 7,766.17 49,862.41 3,023.91	26,830.05 130,453.40 15,354,704.42 11,069,792.18 89,308.13 5,579.90 36,004.09 55,104.11 15,769.14 79,910.32 13,129.34 34,139.32 17,832.55 29,395.61 11,590.32 7,124.31 29,531.50 3,026.70	94,633.96 320,475.56 18,347,556.12 13,611,142.91 88,820.02 6,334.46 131,601.37 231,225.03 37,924.05 3,176.47 52.87 75,208.06 22,802.35 47,363.20 30,800.72 30,612.66 11,400.63 12,680.59 40,837.53 3,381.21	344,876.27 14,529,291.44 8,879,119.39 69,562.14 228,550.83 4,714.38 17,430.62 49,677.66 17,332.53 23,751.80 2,201.95 3,282.93 25,502.02 18,077.02 4,201.79 4,814.46 608.35 2,423.26	447,879.03 19,360,432.59 11,838,825.85 92,749.52 304,734.44 6,285.84 23,240.83 66,236.88 23,110.04 31,669.07 2,935.93 4,377.24 34,002.69 24,102.69 5,602.39 6,419.28 811.13 3,231.01	122,283.2 18,480,270.2 12,540,957.1 93,209.9 346,603.1 6,952.8 3,163.3 6,348.5 1,400.0 69,696.0 13,906.6 9,166.0 29,399.9 18,850.0 17,600.0 11,550.0 1,592.1 3,325.8
Allowance for Funds Used During Construct Grant Revenue Miscellaneous Income TOTAL OTHER REVENUES TOTAL ELECTRIC REVENUES CTRIC DEPARTMENT EXPENSES Purchased Power OPERATING EXPENSES Supervision and Engineering Crew Personnel Customer Service Engineer Substations Overhead Lines Underground Lines Locating Expense Street Lighting Security Lighting Meters Customer Installations Mapping/GIS Expense Safety Expense Seminar/Training Expense Uniforms Expense Miscellaneous Meetings	30,049.49 153,393.78 15,367,408.93 11,336,920.53 88,121.52 6,373.33 52,835.51 96,141.07 11,870.09 (1,487.09) 74,041.39 14,713.85 57,115.39 15,026.70 12,097.80 12,617.12 7,766.17 49,862.41	26,830.05 130,453.40 15,354,704.42 11,069,792.18 89,308.13 5,579.90 36,004.09 55,104.11 15,769.14 79,910.32 13,129.34 34,139.32 17,832.55 29,395.61 11,590.32 7,124.31 29,531.50	94,633.96 320,475.56 18,347,556.12 13,611,142.91 88,820.02 6,334.46 131,601.37 231,225.03 37,924.05 3,176.47 52.87 75,208.06 22,802.35 47,363.20 30,800.72 30,612.66 11,400.63 12,680.59 40,837.53	344,876.27 14,529,291.44 8,879,119.39 69,562.14 228,550.83 4,714.38 17,430.62 49,677.66 17,332.53 23,751.80 2,201.95 3,282.93 25,502.02 18,077.02 4,201.79 4,814.46 608.35	447,879.03 19,360,432.59 11,838,825.85 92,749.52 304,734.44 6,285.84 23,240.83 66,236.88 23,110.04 31,669.07 2,935.93 4,377.24 34,002.69 24,102.69 5,602.39 6,419.28 811.13	122,283.2

MAINTENANCE EXPENSES

GRAND RAPIDS PUBLIC UTILITIES Operating Budget - Electric For the Twelve Months Ending Saturday, December 31, 2022

	2019	2020	2021	2022	2022	2023
	Actual	Actual	Actual	YTD Sept	Forecast	Budget
Supervision and Engineering	88,120.86	89,127.73	88,779.54	69,561.94	92,749.25	93,018.01
Crew Personnel				95,128.73	126,838.31	172,739.95
Substation Structures		310.88	- A 14-35 0 - A-3	T (0) (0) (0) (0) (0) (0)	DC SO SHISH SO RE VOTOS	
Substations	73,802.85	55,007.89	52,508.85	28,914.33	38,552.44	63,351.75
Overhead Lines	87,874.31	115,832.74	118,101.29	49,830.22	66,440.29	53,099.49
Overhead Lines-Tree Trimming	90,025.80	58,944.17	64,555.39	97,782.99	130,377.32	150,024.19
Underground Lines	43,292.11	97,135.22	22,119.95	13,102.42	17,469.89	16,799.97
Underground Locates		1,053.36	139.31			
Line Transformers	6,914.00	777.64		60.00	80.00	2,625.08
Street Lighting		2,157.74	= 0.40 = 4	4 000 04	4 ==0 44	
Security Lighting	0.045.00	1,172.76	5,046.51	1,329.31	1,772.41	2,500.00
Meters	2,315.60	4,167.61	42,513.45			20,531.00
Miscellaneous Plant TOTAL MAINTENANCE EXPENSES	392,345.53	425,687.74	393,764.29	355,709.94	474,279.92	574,689.44
TOTAL MAINTENANCE EXITENSES	392,343.33	423,007.74	393,704.29	333,703.34	474,279.92	374,003.44
OTHER EXPENSES						
Truck Expense - Operation			4,484.88	2,893.02	3,857.36	0.00
Truck Expense - Maintenance			.,	-,	.,	
Operation & Maintenance - Misc Equip						
TOTAL OTHER EXPENSES			4,484.88	2,893.02	3,857.36	0.00
ELECTRIC DEPARTMENT						
CUSTOMER ACCOUNTING EXPENSES						
Supervision	22,850.38	(13,007.83)	85,911.82	25,589.39	34,119.19	35,092.26
Meter Reading	29,694.43	4,034.67	9,871.89	5,538.90	7,385.20	0.00
Customer Billing and Accounting	268,701.73	292,131.23	311,733.80	232,627.21	310,169.61	288,863.89
Collecting Expense	6,899.52	2,524.65	50.39	841.01	1,121.35	2,730.22
Uncollectible Accounts	12,405.81	12,273.82	28,450.14	5,223.30	6,964.40	18,534.55
Miscellaneous Expense	,	,	,	117.02	156.03	229.25
Customer Service & Information Expense	6,922.52					5,624.06
Miscellaneous Customer Information						13,860.00
TOTAL CUSTOMER ACCOUNTING EXPE	347,474.39	297,956.54	436,018.04	269,936.83	359,915.77	364,934.23
CONSERVATION IMPROVEMENT PROGRAM						
Planning & Evaluation	14,991.64	28,101.84	14,554.29	10,554.19	14,072.25	18,149.22
Energy Star Appliance	4,895.76	4,027.40	14,797.24	13,862.59	18,483.45	18,136.49
Fluorescent LT Recycling		93.00		1,101.02	1,468.03	
Resident/Low Income Conservation	(2,000.00)	00.047.00	3,820.99	23,729.60	31,639.47	22,487.66
Commerical Energy Audits	35,005.91	36,847.03	36,258.28	41,952.16	55,936.21	40,227.58
Commerical Industrial Power Grade	55,392.05	69,535.52	104,879.70	70,213.19	93,617.59	51,570.70
Load Mgmt Efficiency						
Windsense - Admin Exp	10.010.50	10.050.00	10.001.00			10 701 00
Education	12,243.50	12,356.00	12,004.00	101 110 75	015 017 00	13,784.23
TOTAL CONSERVATION IMPROVEMENT F_	120,528.86	150,960.79	186,314.50	161,412.75	215,217.00	164,355.88
ADMINISTRATIVE AND GENERAL EXPENSE	S					
Administrative & General Salaries	139,208.76	144,137.07	185,593.58	117,563.83	156,751.77	168,655.64
Commissioner Salaries	8,859.58	8,402.52	8,711.51	6,533.65	8,711.53	8,711.49
City Treasurer Salary	462.00	462.00	462.00	-,	-,	486.00
General Office Supplies and Phone	3,669.99	3,563.74	14,520.14	8,731.23	11,641.64	6,841.97
Telephone Expense	14,109.14	13,293.47	14,853.09	11,998.75	15,998.33	16,421.75
Accounting Outside Service	17,392.20	17,808.00	18,463.20	26,241.60	34,988.80	19,976.27
Data Processing Outside Service	53,468.58	55,390.69	64,628.68	60,865.76	81,154.35	68,424.98
		9,442.79	11,517.12	2,815.83	3,754.44	21,499.95
	9 458 34		11,017.12	2,010.00	0,701.11	
Legal Outside Services	9,458.34					5 268 75
Legal Outside Services Engineering Outside Service		38,875.00	7.069.91	2.987.33	3.983.11	5,268.75 64.129.71
Legal Outside Services Engineering Outside Service Other - Outside Service	9,458.34 27,962.44		7,069.91	2,987.33 0.03	3,983.11 0.04	5,268.75 64,129.71
Legal Outside Services Engineering Outside Service Other - Outside Service Fiber Optic Outside Service	27,962.44	38,875.00 5,642.92	op of the same benefitied to	0.03	0.04	64,129.71
Legal Outside Services Engineering Outside Service Other - Outside Service Fiber Optic Outside Service Insurance - Fire	27,962.44	38,875.00 5,642.92 2,292.06	2,414.55	0.03 2,110.53	0.04 2,814.04	64,129.71 2,954.74
Legal Outside Services Engineering Outside Service Other - Outside Service Fiber Optic Outside Service Insurance - Fire Insurance - Liability	27,962.44 2,067.30 29,083.12	38,875.00 5,642.92 2,292.06 26,951.61	2,414.55 26,984.46	0.03 2,110.53 21,433.89	0.04 2,814.04 28,578.52	64,129.71 2,954.74 30,007.44
Legal Outside Services Engineering Outside Service Other - Outside Service Fiber Optic Outside Service Insurance - Fire Insurance - Liability Insurance - Worker's Compensation	27,962.44	38,875.00 5,642.92 2,292.06	2,414.55	0.03 2,110.53	0.04 2,814.04	64,129.71 2,954.74
Legal Outside Services Engineering Outside Service Other - Outside Service Fiber Optic Outside Service Insurance - Fire Insurance - Liability Insurance - Worker's Compensation Insurance - Worker's Comp Deductible	27,962.44 2,067.30 29,083.12 30,707.00	38,875.00 5,642.92 2,292.06 26,951.61 25,343.00	2,414.55 26,984.46 26,125.00	0.03 2,110.53 21,433.89 24,043.46	0.04 2,814.04 28,578.52 32,057.95	64,129.71 2,954.74 30,007.44 33,660.84
Legal Outside Services Engineering Outside Service Other - Outside Service Fiber Optic Outside Service Insurance - Fire Insurance - Liability Insurance - Worker's Compensation Insurance - Worker's Comp Deductible Insurance - Auto	27,962.44 2,067.30 29,083.12 30,707.00 3,142.25	38,875.00 5,642.92 2,292.06 26,951.61 25,343.00 2,964.82	2,414.55 26,984.46 26,125.00 3,243.78	0.03 2,110.53 21,433.89 24,043.46 2,625.30	0.04 2,814.04 28,578.52 32,057.95 3,500.40	64,129.71 2,954.74 30,007.44 33,660.84 3,675.42
Legal Outside Services Engineering Outside Service Other - Outside Service Fiber Optic Outside Service Insurance - Fire Insurance - Liability Insurance - Worker's Compensation Insurance - Worker's Comp Deductible Insurance - Auto Insurance - Miscellaneous	27,962.44 2,067.30 29,083.12 30,707.00 3,142.25 1,000.74	38,875.00 5,642.92 2,292.06 26,951.61 25,343.00	2,414.55 26,984.46 26,125.00	0.03 2,110.53 21,433.89 24,043.46	0.04 2,814.04 28,578.52 32,057.95	64,129.71 2,954.74 30,007.44 33,660.84
Legal Outside Services Engineering Outside Service Other - Outside Service Fiber Optic Outside Service Insurance - Fire Insurance - Liability Insurance - Worker's Compensation Insurance - Worker's Comp Deductible Insurance - Auto Insurance - Miscellaneous Insurance Claims- Injuries & Damages	27,962.44 2,067.30 29,083.12 30,707.00 3,142.25 1,000.74 1,170.81	38,875.00 5,642.92 2,292.06 26,951.61 25,343.00 2,964.82 1,104.67	2,414.55 26,984.46 26,125.00 3,243.78 1,320.18	0.03 2,110.53 21,433.89 24,043.46 2,625.30 1,520.28	0.04 2,814.04 28,578.52 32,057.95 3,500.40 2,027.04	64,129.71 2,954.74 30,007.44 33,660.84 3,675.42 2,128.39
Legal Outside Services Engineering Outside Service Other - Outside Service Fiber Optic Outside Service Insurance - Fire Insurance - Liability Insurance - Worker's Compensation Insurance - Worker's Comp Deductible Insurance - Auto Insurance - Miscellaneous Insurance - Group Health	27,962.44 2,067.30 29,083.12 30,707.00 3,142.25 1,000.74 1,170.81 317,414.57	38,875.00 5,642.92 2,292.06 26,951.61 25,343.00 2,964.82	2,414.55 26,984.46 26,125.00 3,243.78	0.03 2,110.53 21,433.89 24,043.46 2,625.30	0.04 2,814.04 28,578.52 32,057.95 3,500.40	64,129.71 2,954.74 30,007.44 33,660.84 3,675.42
Legal Outside Services Engineering Outside Service Other - Outside Service Fiber Optic Outside Service Insurance - Fire Insurance - Liability Insurance - Worker's Compensation Insurance - Worker's Comp Deductible Insurance - Auto Insurance - Miscellaneous Insurance Claims- Injuries & Damages Insurance - Group Health Insurance - Group Health	27,962.44 2,067.30 29,083.12 30,707.00 3,142.25 1,000.74 1,170.81 317,414.57 314.96	38,875.00 5,642.92 2,292.06 26,951.61 25,343.00 2,964.82 1,104.67 321,475.80	2,414.55 26,984.46 26,125.00 3,243.78 1,320.18 242,071.46	0.03 2,110.53 21,433.89 24,043.46 2,625.30 1,520.28 167,180.39	0.04 2,814.04 28,578.52 32,057.95 3,500.40 2,027.04 222,907.19	64,129.71 2,954.74 30,007.44 33,660.84 3,675.42 2,128.39 255,066.53
Legal Outside Services Engineering Outside Service Other - Outside Service Fiber Optic Outside Service Insurance - Fire Insurance - Liability Insurance - Worker's Compensation Insurance - Worker's Comp Deductible Insurance - Auto Insurance - Miscellaneous Insurance - Group Health	27,962.44 2,067.30 29,083.12 30,707.00 3,142.25 1,000.74 1,170.81 317,414.57	38,875.00 5,642.92 2,292.06 26,951.61 25,343.00 2,964.82 1,104.67	2,414.55 26,984.46 26,125.00 3,243.78 1,320.18	0.03 2,110.53 21,433.89 24,043.46 2,625.30 1,520.28	0.04 2,814.04 28,578.52 32,057.95 3,500.40 2,027.04	64,129.71 2,954.74 30,007.44 33,660.84 3,675.42 2,128.39

Item 3.

GRAND RAPIDS PUBLIC UTILITIES Operating Budget - Electric For the Twelve Months Ending Saturday, December 31, 2022

<u> </u>	2019	2020	2021	2022	2022	2023
	Actual	Actual	Actual	YTD Sept	Forecast	Budget
Insurance - Group Dental	10,161.45	10,114.38	13,163.88	9,256.26	12,341.68	12,958.76
Third Party Administrative Cost	953.27	986.42	863.88	541.31	721.75	1,080.30
FICA						
PERA	(4,078.62)	(45,111.00)	(107,211.00)			
Deferred Compensation						
Paid Time Off	202,885.35	192,499.38	215,649.06	144,819.88	193,093.17	204,520.86
Extended Illness Benefit	8,099.71	9,630.76	10,845.34			
Short-Term Disability Payments						
Disability Insurance	6,770.86	9,555.40	10,413.02	8,152.25	10,869.67	11,192.50
Unemployment Compensation		6,660.00				
Membership - APPA	9,265.25	9,419.47	9,605.74			10,605.77
Membership - NEMPA	2,000.00	2,000.00	4,000.00			2,000.00
Membership - MMUA	29,227.00	30,426.00	30,426.00	30,249.00	40,332.00	31,432.00
Membership - NMMEA						•
Membership - Other	1,853.05	1,883.89		1,921.15	2,561.53	1,905.93
Advertising/Promotions	0.00	0.00	0	0.00	=	5,000.00
Amortize Service Territory Costs	34,337.49	34,337.49	34,337.49		34337.49	34,337.49
Miscellaneous General Expense	(27,923.92)	36,514.42	8,067.29	49,663.67	52,463.27	28,696.44
Office Equip Rental & Maintenance	11,596.53	11,430.80	11,049.15	9,391.01	12,521.35	12,074.89
Maintenance of General Plant	,	,		2,001.01	,	12,071100
TOTAL ADMINISTRATIVE AND GENERAL	980,562.12	1,028,585.48	937,803.82	758,526.26	1,031,950.88	1,138,754.80
	•		•			
PERATING INCOME BEFORE DEPRECI	1,624,016.09	1,898,450.14	1,905,219.25	3,593,912.03	4,759,344.17	3,006,289.45
LESS:						
Depreciation	853,086.68	1,104,806.65	911,093.56	688,872.87	918,497.16	942,518.00
Amortization Computer Intangibles	3,085.00	3,085.00	4,338.17	10,187.82	13,583,76	4,715.33
TOTAL OPERATING EXPENSES	14,599,564.52	14,564,145.93	17,357,768.60	11,634,440.10	15,533,169.33	16,421,214.16
_	,000,0002	,00 .,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11,001,110.10	10,000,100.00	10,121,211.10
NET OPERATING INCOME	767,844.41	790,558.49	989,787.52	2,894,851.34	3,827,263.25	2,059,056.12
OTHER INCOME						
Extraordinary Income (Loss)						
Interest Income						
Penalties						
Lease Revenue						
Property Disposition Gain (Loss)	11,650.00			4,000.00	5,333.33	
Contributions - (Capital)	1,364,096.01			1,000.00	3,000.00	
Grant Revenues	.,,	10,065.28	84,329.00			
TOTAL OTHER INCOME	1,375,746.01	10,065.28	84,329.00	4,000.00	5,333.33	
	, , , , , , , , , , , , , , , , , , , ,	,				
OTHER EXPENSES						
Payment in Lieu of Tax to City - cash	868,000.00	868,000.00	868,000.00	651,000.01	868,000.01	868,000.00
Payment in Lieu of Tax to City - Composte	3,915.89	3,855.67	5,287.26	1,103.47	1,471.29	0.00
Payment in Lieu of Tax to City - Electric Dept		1,681.10	9,001.34	883.28	1,177.71	3,160.49
Payment in Lieu of Tax to City - W/S Dept						
Payment in Lieu of Tax - Other						
Interest Expense & Bond Fees						3,000.00
Solar Garden Expenses			393,640.13	4,212.18	5,616.24	142,017.05
Unusual & Extraordinary Expenses			54,331.00	,	,	-,
TOTAL OTHER EXPENSES	871,915.89	873,536.77	1,330,259.73	657,198.94	876,265.25	1,016,177.54
TRIC DEPARTMENT NET INCOME	1,271,674.53	(72,913.00)	(256,143.21)	2,241,652.40	2,956,331.33	1,042,878.58
=	.,,57 1.00	(, =,010.00)	(200,110.21)	-,- i i jooz. 10	2,000,001.00	1,012,070.00

GRAND RAPIDS PUBLIC UTILITIES
Operating Budget - Water
For the Twelve Months Ending Saturday, December 31, 2022

-	2019 Actual	2020 Actual	2021 Actual	2022 YTD Sept	2022 Forecast	2023 Budget
WATER DEPARTMENT						
OPERATING REVENUES						
City Water Residential Sales	\$596,140.69	\$619,545.14	\$614,459.01	\$486,595.97	\$648,794.63	\$707,186.14
City Water Commercial Sales	571,391.51	524,541.82	596,505.19	429,137.74	572,183.65	629,392.02
City Multi-Family Sales	241,492.48	247,837.05	247,105.20	192,209.50	256,279.33	268,324.46
City Industrial Sales	97,313.25	98,082.08	102,991.90	76,444.36	101,925.81	109,060.62
City Industrial Sales - Internal	37,166.77	41,856.86	72,034.84	62,824.61	83,766.15	89,629.78
Rural Water Sales						
Public Authorities Water Sales	34,759.52	35,253.12	37,911.76	26,253.71	35,004.95	43,243.00
TOTAL OPERATING REVENUL	1,578,264.22	1,567,116.07	1,671,007.90	1,273,465.89	1,697,954.52	1,846,836.02
OTHER REVENUES						
Service Connections	11,549.00	10,098.00	20,953.00	14,312.00	19,082.67	20,718.25
Permit Fees	1,235.00	1,000.00	1,680.00	810.00	1,080.00	1,317.08
Thawing Service	920.00	330.00	960.00	1,756.80	2,342.40	1,044.20
Water Shutoff Fees				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_,0	.,
Merchandising and Jobbing (N	3,539.60	1,072.21	1,285.36	507.48	676.64	1,662.53
City of Grand Rapids Jobbing	(1.66)			(2,666.20)	-	0.00
City of LaPrairie Jobbing (Net	16,399.64	3,212.20	2,436.79	(2,734.32)	2,400.00	5,393.59
Equipment Rental Revenue					-	
Antenna Rental Revenue	185,512.07	190,903.66	194,340.65	129,636.01	172,848.01	194,103.44
Miscellaneous Income	10,712.27	10,744.03	11,987.55	7,679.44	10,239.25	16,041.10
TOTAL OTHER REVENUES _	229,865.92	217,360.10	233,643.35	149,301.21	208,668.97	240,280.19
TOTAL WATER REVENUES	1,808,130.14	1,784,476.17	1,904,651.25	1,422,767.10	1,906,623.49	2,087,116.21
EXPENSES						
PRODUCTION OPERATION EX	PENSE					
Supervision and Engineering						
WTP Operators Wages	122,809.82	127,170.16	127,657.13	98,091.19	130,788.25	134,711.89
WTP Operators Wages - OT	29,866.19	31,466.14	34,198.17	24,975.76	33,301.01	35,224.11
Other Operating Wages					-	16,480.00
Water Treatment Expense	89,041.60	111,014.18	114,018.32	95,830.43	127,773.91	111,533.05
Heating Fuel					-	
Station Supplies and Expense	2,736.90	2,469.16	4,030.99	664.64	886.19	2,441.37
Permits and Fees	3,610.31	3,654.44	3,893.37	10,145.69	13,527.59	4,095.58
Miscellaneous Production Exp	16,470.70	12,450.36	18,325.99	5,466.96	7,289.28	15,750.01
Power Purchased TOTAL PRODUCTION OPERA	169,963.79 434,499.31	168,760.15 456,984.59	195,189.86 497,313.83	154,547.65 389,722.32	206,063.53 519,629.76	174,898.54 495,134.55
TOTALT RODUCTION OF ERA_	404,433.01	400,004.00	437,515.65	569,722.52	319,029.70	490,104.00
PRODUCTION MAINTENANCE	EXPENSE					
Supervision	209.02					
WTP Buildings and Grounds	9,930.41	6,761.18	17,851.36	8,888.09	11,850.79	15,529.94
WTP HVAC System	633.65		53.68	47.65	63.53	1,050.00
Wellhouses	2,877.84	1,828.16	6,272.49	1,088.37	1,451.16	4,725.01
Wellhead Protection					-	1,050.00
Wells, Pumps and Mains	1,699.33	4,181.30	8,081.25	2,793.64	3,724.85	2,520.08
Maintenance of WTP Equipme	40,548.97	62,364.13	51,510.34	55,791.19	64,388.25	66,014.54
Maintenance of SCADA Syste	7,921.56	6,954.36	8,182.58	1,964.53	2,619.37	9,442.00
Underground Clearwell Maintenance Inspections - W1	10,593.82	4,629.79	2,381.05	1,527.58	- 2,036.77	0.00 5,679.18
TOTAL PRODUCTION MAINTE	74,414.60	86,718.92	94,332.75	72,101.05	86,134.73	106,010.75
DISTRIBUTION OPERATION EV	DENSE				-	
DISTRIBUTION OPERATION EX Supervision and Engineering	27,437.05	29,361.26	43,108.47	33,840.25	4E 120 22	46 249 22
Records (Mapping-Meters-Va	4,714.43	10,527.28	1,274.81	3,400.99	45,120.33 4,534.65	46,248.33 5,090.47
Maintenance Inspections	619.08	6,325.36	11,358.97	5,781.06	7,708.08	10,950.02
Thaw/Flush Hydrants, Mains,	18,498.45	4,931.67	8,053.86	22,580.85	25,107.80	23,285.02
Locating Expense	15,685.53	21,104.64	13,629.88	13,462.74	17,950.32	21,629.93
Service on Customer Premise	21,008.19	7,371.79	46,237.87	21,993.68	29,324.91	22,655.96

GRAND RAPIDS PUBLIC UTILITIES
Operating Budget - Water
For the Twelve Months Ending Saturday, December 31, 2022

Mapping Expanse		2019	2020	2021	2022	2022	2023
Small Tools Expense			Actual		YTD Sept	C. Tarrella Carrella	
Seffey Expense		•					
Seminar/Training Expense 78,94 56,91 377.79 707.48 94,351 310,54 Miscolanous Meetings 78,94 56,91 377.79 707.48 94,351 310,54 Miscolanous Meetings 836,58 15,074.25 24,981.16 9,422.02 12,562.69 13,082.65 Stores Expense (Labor) 836,58 15,074.25 24,981.16 9,422.02 12,562.69 13,082.65 TOTAL DISTRIBUTION OPEN 144,066.84 152,176.14 218,492.09 154,066.91 200,422.55 215,844.02 WATER DEPARTMENT DISTRIBUTION MAINTENANCE EXPENSE 32,981.41 370.63 16,305.19 8,406.92 5,249.93 Towers and Tanks 2,235.42 6,484.15 16,298.13 6,305.19 8,406.92 5,249.93 Booster Pum Carton System 404.81 2,088.14 370.63 189.47 222.63 1,000.00 Booster Pum Carton System 304.22 303.00 2,558.31 3,639.54 4,852.72 222.65.00 Booster Pum Carton System 386.41 303.00 2,558.31 3,639.54 4,852.72 222.65.00 Booster Station 385.41 30,186.55 43,923.48 46,638.80 62,182.40 49,925.51 Services 4,723.71 130,493.40 13,939.40 14,939.51 197,450.09 Services 4,723.71 147,38 5,319.77 3,638.39 4,848.52 3,549.83 Meters and Meter Installations (366.55) (2,552.98) 6,306.15 4,723.17 3,638.39 4,848.52 3,549.83 TOTAL DISTRIBUTION MAINT 130,694.00 154,170.32 168,815.78 297,485.19 396,646.92 265,811.45 OTHER EXPENSES 70,000.00 7,			•				
Uniforms Expense 78.94 56.91 377.79 707.48 943.31 310.54							
Miscellaneous Meetings Rontals Stores Expense (Labor) 13,682.65 15,074.25 24,981.16 9,422.02 12,562.69 13,682.65 10,004.22.55 215,844.02 218,492.09 154,066.91 200,422.55 215,844.02 218,775.14 218,492.09 154,066.91 200,422.55 215,844.02 218,775.14 218,492.09 154,066.91 200,422.55 215,844.02 218,775.14 218,775.14 218,492.09 154,066.91 200,422.55 215,844.02 218,775.14							
Rentals Stores Expenses (Labors)		78.94	56.91	377.79	707.48	943.31	310.54
Stores Expense (Labor)				0.40		-	
TOTAL DISTRIBUTION OPER/ 144,066.64 152,176.14 218,492.09 154,066.91 200,422.55 215,844.02 WATER DEPARTMENT DISTRIBUTION MAINTENANCE EXPENSE Supervision Towers and Tanks 2,235.43 6,484.15 16,298.13 6,305.19 8,406.92 5,249.99 Elevated Tank Control System 840.81 2,099.14 370.63 189.47 252.63 1,000.00 Booster Pump (21st St StW) 302.2 303.00 2,583.31 3,369.94 4,852.72 2,235.50 Booster Station 385.41 249.99 2,000 Mains and Hydrants 108,480.20 138,680.98 9,944.35 232,354.63 309,806.17 197,450.09 Services 118,326.14 9,018.65 43,923.48 46,636.80 62,182.40 49,925.01 Meters and Meter Installations (366.58) (2,529.89) 6,396.12 4,723.17 6,297.56 6,400.03 Miscellaneous Distribution Ex 472.37 147.38 5,319.77 3,636.39 4,848.52 3,549.83 TOTAL DISTRIBUTION MAINT 130,694.00 154,170.32 168,815.78 297,485.19 396,646.92 265,811.45 107.14 107.		020 50	15 074 05		0.400.00	- 10 500 00	10 000 05
DISTRIBUTION MAINTENANCE EXPENSE Supervision Towers and Tanks 2,235.43 6,484.15 16,298.13 6,305.19 8,406.92 5,249.99 Booster Pump (21st St SW) 320.22 303.00 2,538.31 3,639.54 4,852.72 2,236.50 Booster Station 38.54.1 24.99 0.00 Mains and Hydrants 108.480.20 138,680.98 93,944.35 232,354.63 300,906.17 197,450.09 396.05 396.							
DISTRIBUTION MAINTENANCE EXPENSE	The state of the s	144,000.04	152,170.14	210,492.09	154,000.91	200,422.55	215,844.02
Supervision Towers and Tanks 2,235.43 6,484.15 16,298.13 6,305.19 8,406.92 5,248.99 Elevated Tank Control Systen 840.81 2,089.14 370.63 189.47 252.63 1,000.00 2,236.50 3,000 2,236.50 3,030.00 2,239.31 3,639.54 2,239.50 0,000	WATER DEPARTMENT						
Elevated Tank Control System 840.81 2.235.43 6,484.15 16,298.13 6,305.19 8,406.92 5,249.99	DISTRIBUTION MAINTENANCE	EXPENSE					
Elevated Tank Control System	Supervision						
Booster Pump (21st St SW) 320,22 303,00 2,538,31 3,639,54 4,882,72 2,236,50 Booster Station 38,41 108,480.20 138,680.98 93,944.35 232,344.63 309,806.17 197,450.09 Services 18,325,14 9,018,65 43,923.48 46,638.80 62,182.40 49,025.01 Meters and Meter installations (366,58) (2,552.98) 6,396.12 4723.17 5,297.56 6,400.03 Miscellaneuso Istiribution Extra 472.37 147.38 5,131.77 3,636.39 4,848.52 3,548.83 TOTAL DISTRIBUTION MAINT 130,694.00 154,170.32 168,815.78 297,485.19 396,645.92 265,811.45 OTHER EXPENSES (2,657.73) (1,744.30) (2,325.73) 0.00 Truck Expense - Maintenance - Misc Equip TOTAL OTHER EXPENSES (2,657.73) (1,744.30) (2,325.73) 0.00 CUSTOMER ACCOUNTING EXPENSES (2,657.73) (1,744.30) (2,325.73) 0.00 CUSTOMER ACCOUNTING EXPENSES (2,657.73) (1,744.30) (2,325.73) 0.00 Customer Billing and Account 82,538.24 89,886.89 95,917.52 71,577.40 95,436.53 93,232.69 Culceting Expense 224.65 700.38 Miscellaneous Expense 275.00 214.99 (1,847.11) 364.94 486.59 500.00 Miscellaneous Expense 275.00 214.99 (1,847.11) 364.94 486.59 500.00 Miscellaneous Customer Information TOTAL CUSTOMER ACCOUN 101,017.24 88,417.48 122,330.91 82,053.09 109,404.12 110,354.65 Administrative & General Sale 42,833.24 44,349.48 57,100.74 36,173.51 48,231.35 49,437.13 60.00	Towers and Tanks	2,235.43	6,484.15	16,298.13	6,305.19	8,406.92	5,249.99
Booster Station	Elevated Tank Control Systen	840.81	2,089.14	370.63	189.47		1,000.00
Mains and Hydrants 108,480.20 138,680.98 93,944.55 222,254.63 309,806.17 197,450.09			303.00		3,639.54	4,852.72	2,236.50
Services 18,326,14 9,018.65 43,923.48 46,636.80 62,182.40 49,925.01	Booster Station					-	
Meters and Meter Installations	Mains and Hydrants					309,806.17	
Miscellaneous Distribution EX							
TOTAL DISTRIBUTION MAINT			,				
OTHER EXPENSES (2,657.73) (1,744.30) (2,325.73) 0.00 Truck Expense - Operation Truck Expense - Maintenance Operation & Maintenance - Misc Equip (2,657.73) (1,744.30) (2,325.73) 0.00 CUSTOMER ACCOUNTING EXPENSES (2,657.73) (1,744.30) (2,325.73) 0.00 CUSTOMER ACCOUNTING EXPENSES Supervision 7,030.92 (4,002.37) 26,434.37 7,873.66 10,498.21 10,760.66 Meter Reading 8,948.43 1,617.90 2,426.13 2,237.09 2,982.79 0.00 Culecting Expense 2,224.65 700.38 770.30 95,436.53 98,323.69 770.30 Miscellaneous Expense 2,750.0 214.99 (1,847.11) 364.94 486.59 500.00 Miscellaneous Customer Information TOTAL CUSTOMER ACCOUN 101,017.24 88,417.48 122,930.91 82,053.09 109,404.12 110,354.65 Administrative & General Sale 42,833.24 44,349.48 57,100.74 36,173.51 48,231.35 49,437.13 Commissioner Salaries 1,726.00 2,589.46							
Truck Expense - Maintenance Operation & Maintenance - Misc Equip TOTAL OTHER EXPENSES Customer Accounting EXPENSES Supervision 7,030,92 (4,002.37) 26,434.37 7,873.66 10,498.21 10,760.66 Meter Reading 8,948.43 1,617.90 2,426.13 2,237.09 2,982.79 0.00 Customer Billing and Account 82,538.24 89,886.58 95,917.52 71,577.40 95,436.53 98,323.69 Collecting Expense 2,224.65 700.38 Miscellaneous Expense 275.00 214.99 (1,847.11) 364.94 486.59 500.00 Miscellaneous Customer Information TOTAL CUSTOMER ACCOUN 101,017.24 88,417.48 122,930.91 82,053.09 109,404.12 110,354.65 ADMINISTRATIVE AND GENERAL EXPENSES Administrative & General Sale 42,833.24 44,349.48 57,100.74 36,173.51 48,231.35 49,437.13 Commissioner Salaries 2,728.08 2,585.46 2,680.46 2,010.32 2,680.43 2,680.43 City Treasurer Salary 165.00 165.00 165.00 165.00 General Office Supplies and P 4,553.64 4,619.83 8,406.55 5,351.48 7,135.31 8,076.46 Accounting Outside Service 6,211.50 6,380.00 6,594.00 9,372.00 9,372.00 10,243.39 Data Processing Outside Service 22,412.50 6,800.00 3,400.00 380.59 492.79 7,639.90 Other Outside Services 251.72 579.74 228.54 9,938.26 13,251.01 9,075.30 Fiber Optic Outside Service 22,412.50 6,800.00 3,400.00 360.59 492.79 7,639.90 Other Outside Service 24,12.50 6,800.00 3,400.00 360.59 492.79 7,639.90 Other Outside Service 56,349.3 5,159.95 3,741.32 9,480.54 12,640.72 10,995.34 Engineering Outside Service 24,12.50 6,800.00 3,400.00 360.59 492.79 7,639.90 Other Outside Service 571.72 579.74 228.54 9,938.26 112,910.60 7,460.25 Insurance - Hire 5,497.92 5,869.00 6,165.72 5,328.75 7,105.00 7,460.25 Insurance - Worker's Compen 7,624.00 5,702.00 11,369.04 10,956.63 14,608.44 5,019.67 Insurance - Worker's Compen 7,624.00 5,702.00 11,369.04 10,956.63 14,608.44 5,019.67 Insurance - Group Health 122,054.09 126,465.59 142,800.00 22,395.15 29,860.20 38,846.22 Insurance - Group Health 122,054.09 126,465.59 114,280.66 84,689.55 112,919.66 125,708.72 Insurance - Group Health 162 12,279.95 14,760.04 27,980.00 22,395.15 29,860.20 38,846.	TOTAL DISTRIBUTION MAINT	130,694.00	154,170.32	168,815.78	297,485.19	396,646.92	265,811.45
Truck Expense - Maintenance Operation & Maintenance - Misc Equip TOTAL OTHER EXPENSES Customer Accounting EXPENSES Supervision 7,030,92 (4,002.37) 26,434.37 7,873.66 10,498.21 10,760.66 Meter Reading 8,948.43 1,617.90 2,426.13 2,237.09 2,982.79 0.00 Customer Billing and Account 82,538.24 89,886.58 95,917.52 71,577.40 95,436.53 98,323.69 Collecting Expense 2,224.65 700.38 Miscellaneous Expense 275.00 214.99 (1,847.11) 364.94 486.59 500.00 Miscellaneous Customer Information TOTAL CUSTOMER ACCOUN 101,017.24 88,417.48 122,930.91 82,053.09 109,404.12 110,354.65 ADMINISTRATIVE AND GENERAL EXPENSES Administrative & General Sale 42,833.24 44,349.48 57,100.74 36,173.51 48,231.35 49,437.13 Commissioner Salaries 2,728.08 2,585.46 2,680.46 2,010.32 2,680.43 2,680.43 City Treasurer Salary 165.00 165.00 165.00 165.00 General Office Supplies and P 4,553.64 4,619.83 8,406.55 5,351.48 7,135.31 8,076.46 Accounting Outside Service 6,211.50 6,380.00 6,594.00 9,372.00 9,372.00 10,243.39 Data Processing Outside Service 22,412.50 6,800.00 3,400.00 380.59 492.79 7,639.90 Other Outside Services 251.72 579.74 228.54 9,938.26 13,251.01 9,075.30 Fiber Optic Outside Service 22,412.50 6,800.00 3,400.00 360.59 492.79 7,639.90 Other Outside Service 24,12.50 6,800.00 3,400.00 360.59 492.79 7,639.90 Other Outside Service 56,349.3 5,159.95 3,741.32 9,480.54 12,640.72 10,995.34 Engineering Outside Service 24,12.50 6,800.00 3,400.00 360.59 492.79 7,639.90 Other Outside Service 571.72 579.74 228.54 9,938.26 112,910.60 7,460.25 Insurance - Hire 5,497.92 5,869.00 6,165.72 5,328.75 7,105.00 7,460.25 Insurance - Worker's Compen 7,624.00 5,702.00 11,369.04 10,956.63 14,608.44 5,019.67 Insurance - Worker's Compen 7,624.00 5,702.00 11,369.04 10,956.63 14,608.44 5,019.67 Insurance - Group Health 122,054.09 126,465.59 142,800.00 22,395.15 29,860.20 38,846.22 Insurance - Group Health 122,054.09 126,465.59 114,280.66 84,689.55 112,919.66 125,708.72 Insurance - Group Health 162 12,279.95 14,760.04 27,980.00 22,395.15 29,860.20 38,846.	OTHER EVRENCES						
Truck Expense - Maintenance - Misc Equip TOTAL OTHER EXPENSES Supervision 7,030.92 (4,002.37) 26,434.37 7,873.66 10,498.21 10,760.66 Meter Reading 8,948.43 1,617.90 2,426.13 2,237.09 2,982.79 0.00 Customer Billing and Account 82,538.24 89,886.58 95,917.52 71,577.40 95,436.53 98,323.69 Collecting Expense 2,224.65 700.38 770.30 Miscellaneous Expense 275.00 214.99 (1,847.11) 364.94 486.59 500.00 Miscellaneous Customer Information TOTAL CUSTOMER ACCOUN 101,017.24 88,417.48 122,930.91 82,053.09 109,404.12 110,354.65 ADMINISTRATIVE AND GENERAL EXPENSES Administrative & General Sala: 42,833.24 44,349.48 57,100.74 36,173.51 48,231.35 49,437.13 Commissioner Salaries 2,726.08 2,585.46 2,680.46 2,010.32 2,680.43 2,680.43 City Treasurer Salary 165.00 165.00 165.00 165.00 165.00 General Office Supplies and P 4,553.64 4, 4619.83 8,466.55 5,351.48 7,135.31 8,076.46 Accounting Outside Service 6,211.50 6,360.00 6,594.00 9,372.00 9,372.00 10,234.39 Data Processing Outside Serv Ce 6,231.93 5,159.95 3,741.32 9,480.54 12,640.72 10,995.34 Engineering Outside Service 22,412.50 6,800.00 3,400.00 369.59 492.79 7,639.90 Other- Outside Service 251.72 579.74 228.54 9,38.26 13,251.01 9,075.30 Fiber Optic Outside Service 51.72 579.74 228.54 9,38.26 13,251.01 9,075.30 Fiber Optic Outside Service 51.72 579.74 228.54 9,38.26 13,251.01 9,075.30 Fiber Optic Outside Service 51.72 579.74 228.54 9,38.26 13,251.01 9,075.30 Fiber Optic Outside Service 51.72 579.74 228.54 9,38.26 13,251.01 9,075.30 Fiber Optic Outside Service 51.72 579.74 228.54 9,38.26 13,251.01 9,075.30 Fiber Optic Outside Service 51.72 579.74 228.54 9,38.26 13,251.01 9,075.30 Fiber Optic Outside Service 51.72 579.74 228.54 9,38.26 13,251.01 9,075.30 Fiber Optic Outside Service 51.72 579.74 228.54 9,38.26 13,251.01 9,075.30 Fiber Optic Outside Service 51.72 579.74 228.54 9,38.66 482.01 642.68 674.81 Insurance - Horker's Comp Deductible Insurance - Horker's Comp Deductible Insurance - Group Health Co-96.92 Insurance - Group Health Co-96.92 Insurance - Group Health Co-96.92 Insura				(2 657 73)	(1 744 30)	(2 325 73)	0.00
Commissioner Salaries Comm				(2,037.73)	(1,744.50)	(2,323.73)	0.00
CUSTOMER ACCOUNTING EXPENSES Supervision 7,030.92 (4,002.37) 26,434.37 7,873.66 10,498.21 10,760.66 Meter Reading 8,948.43 1,617.90 2,426.13 2,237.09 2,982.79 0.00 Customer Billing and Account 82,538.24 89,886.58 95,917.52 71,577.40 95,436.53 98,323.69 Collecting Expense 2,224.65 700.38 770.30 Miscellaneous Expense 275.00 214.99 (1,847.11) 364.94 486.59 500.00 Miscellaneous Customer Information TOTAL CUSTOMER ACCOUN 101,017.24 88,417.48 122,930.91 82,053.09 109,404.12 110,354.65 ADMINISTRATIVE AND GENERAL EXPENSES Administrative & General Sale 42,833.24 44,349.48 57,100.74 36,173.51 48,231.35 49,437.13 Commissioner Salaries 2,726.08 2,585.46 2,680.46 2,010.32 2,680.43 2,680.43 City Treasurer Salary 165.00 165.00 165.00 165.00 165.00 General Office Supplies and P 4,553.64 4,619.83 8,406.55 5,351.48 7,135.31 8,076.46 Accounting Outside Service 6,211.50 6,360.00 6,594.00 9,372.00 9,372.00 10,234.39 Data Processing Outside Service 6,224.93 5,159.95 3,741.32 9,480.54 12,640.72 10,995.34 Engineering Outside Service 22,412.50 6,800.00 3,400.00 369.59 492.79 7,639.90 Other Outside Service 22,412.50 6,800.00 3,400.00 369.59 492.79 7,639.90 Other Outside Service 251.72 579.74 228.54 9,983.26 13,251.01 9,075.30 Fiber Optic Outside Service 5,497.92 5,669.00 6,165.72 5,328.75 7,105.00 7,460.25 Insurance - Horver's Compen 7,624.00 5,702.00 11,369.04 10,956.63 14,608.84 15,339.28 Insurance - Worker's Compen 7,624.00 5,702.00 11,369.04 10,956.63 14,608.84 15,339.28 Insurance - Group Health Co- 1 10,101.001.001.001.001.001.001.001.001.0		Equip					
CUSTOMER ACCOUNTING EXPENSES Supervision 7,030.92 (4,002.37) 26,434.37 7,873.66 10,498.21 10,760.66 Meter Reading 8,948.43 1,617.90 2,426.13 2,237.09 2,982.79 0.00 Customer Billing and Account 82,538.24 89,886.58 95,917.52 71,577.40 95,436.53 98,323.69 Miscellaneous Expense 2,224.65 700.38 Miscellaneous Expense 275.00 214.99 (1,847.11) 364.94 486.59 500.00 Miscellaneous Counter Information TOTAL CUSTOMER ACCOUN 101,017.24 88,417.48 122,930.91 82,053.09 109,404.12 110,354.65 ADMINISTRATIVE AND GENERAL EXPENSES Administrative & General Sale 42,833.24 44,349.48 57,100.74 36,173.51 48,231.35 49,437.13 Commissioner Salaries 2,726.08 2,585.46 2,680.46 2,010.32 2,680.43 2,680.43 City Treasurer Salary 165.00 165.00 165.00 165.00 165.00 General Office Supplies and P 4,553.64 4,619.83 8,406.55 5,351.48 7,135.31 8,076.46 Accounting Outside Service 6,211.50 6,360.00 6,594.00 9,372.00 9,372.00 10,234.39 Data Processing Outside Services 6,234.93 5,159.95 3,741.32 9,480.54 12,640.72 10,995.34 Engineering Outside Services 22,412.50 6,800.00 3,400.00 3,400.00 39.85.9 492.79 7,639.90 Other- Outside Services 2251.72 579.74 228.54 9,938.26 13,251.01 9,9075.30 Fiber Optic Outside Service 5,497.92 5,869.00 6,165.72 5,328.75 7,105.00 7,460.25 Insurance - Fire 5,497.92 5,869.00 6,165.72 5,328.75 7,105.00 7,460.25 Insurance - Worker's Compo 7,624.00 5,702.00 11,369.04 10,956.63 14,608.84 15,339.28 Insurance - Worker's Comp Deductible Insurance - Worker's Comp Deductible Insurance - Group Health 122,054.09 126,465.59 114,280.66 84,689.52 112,919.36 125,708.72 Insurance - Group Health 122,054.09 126,465.59 114,280.66 84,689.52 112,919.36 125,708.72 Insurance - Group Health 12,054.09 126,465.59 114,280.66 84,689.52 112,919.36 125,708.72 Insurance - Group Health 12,054.09 126,465.59 114,280.66 84,689.52 112,919.36 125,708.72 Insurance - Group Health 12,054.09 126,465.59 114,280.66 84,689.52 112,919.36 125,708.72 Insurance - Group Detait 13,892.00 3,976.65 5,887.62 4,362.86 5,817.15 6,108.00	·	Ечир		(2 657 73)	(1 744 30)	(2 325 73)	0.00
Supervision 7,030.92 (4,002.37) 26,434.37 7,873.66 10,498.21 10,760.66		***************************************		(2,007.70)	(1,7-1-1.00)	(2,020.70)	0.00
Supervision 7,030.92 (4,002.37) 26,434.37 7,873.66 10,498.21 10,760.66	CUSTOMER ACCOUNTING EXPE	ENSES					
Meter Reading 8,948.43 1,617.90 2,426.13 2,237.09 2,982.79 0.00 Customer Billing and Account 82,538.24 89,886.58 95,917.52 71,577.40 95,436.53 98,323.69 Collecting Expense 2,224.65 700.38 770.30 770.30 Miscellaneous Expense 275.00 214.99 (1,847.11) 364.94 486.59 500.00 Miscellaneous Customer Information 214.99 (1,847.11) 364.94 486.59 500.00 MoliNistractive & County Information ADMINISTRATIVE AND GENERAL EXPENSES Administrative & General Salz 42,833.24 44,349.48 57,100.74 36,173.51 48,231.35 49,437.13 Commissioner Salaries 2,726.08 2,585.46 2,680.46 2,010.32 2,680.43 2,680.43 City Treasurer Salary 105.00 165.00 165.00 165.00 165.00 General Office Supplies and P 4,553.64 4,619.83 8,406.55 5,351.48 7,135.31 8,076.46 Accounting Outside Supplies a			(4.002.37)	26.434.37	7.873.66	10.498.21	10.760.66
Customer Billing and Account 2,224.65 700.38 770.30 770.	•	,					
Collecting Expense 2,224.65 700.38 275.00 214.99 (1,847.11) 364.94 486.59 500.00 214.99 (1,847.11) 364.94 486.59 500.00 364.94					71,577.40		
Miscellaneous Expense 275.00 214.99 (1,847.11) 364.94 486.59 500.00 Miscellaneous Customer Information TOTAL CUSTOMER ACCOUN* 101,017.24 88,417.48 122,930.91 82,053.09 109,404.12 110,354.65 ADMINISTRATIVE AND GENERAL EXPENSES Administrative & General Sala* 42,833.24 44,349.48 57,100.74 36,173.51 48,231.35 49,437.13 Commissioner Salaries 2,726.08 2,585.46 2,680.46 2,010.32 2,680.43 2,680.43 City Treasurer Salary 165.00 48,273 3,764.84 7,353.31 8,076.46 2,010.32 2,480.43 3,876.46 2,212.20 2,321.15 32,2428.20 33,325.00 1,281.20	_					•	
ADMINISTRATIVE AND GENERAL EXPENSES Administrative & General Sale 42,833.24 44,349.48 57,100.74 36,173.51 48,231.35 49,437.13 Commissioner Salaries 2,726.08 2,585.46 2,680.46 2,010.32 2,680.43 2,680.43 City Treasurer Salary 165.00	Miscellaneous Expense	275.00	214.99	(1,847.11)	364.94	486.59	500.00
ADMINISTRATIVE AND GENERAL EXPENSES Administrative & General Sale	Miscellaneous Customer Informa	ntion					
Administrative & General Sala	TOTAL CUSTOMER ACCOUN.	101,017.24	88,417.48	122,930.91	82,053.09	109,404.12	110,354.65
Administrative & General Sala							
Commissioner Salaries 2,726.08 2,585.46 2,680.46 2,010.32 2,680.43 2,680.43 City Treasurer Salary 165.00 165.00 165.00 165.00 165.00 General Office Supplies and P 4,553.64 4,619.83 8,406.55 5,351.48 7,135.31 8,076.46 Accounting Outside Service 6,211.50 6,360.00 6,594.00 9,372.00 9,372.00 10,234.39 Data Processing Outside Services 20,259.31 21,431.91 25,122.96 24,321.15 32,428.20 33,325.00 Legal Outside Services 6,234.93 5,159.95 3,741.32 9,480.54 12,640.72 10,995.34 Engineering Outside Service 22,412.50 6,800.00 3,400.00 369.59 492.79 7,639.90 Other- Outside Service 251.72 579.74 228.54 9,938.26 13,251.01 9,075.30 Fiber Optic Outside Service 5,497.92 5,869.00 6,165.72 5,328.75 7,105.00 7,460.25 Insurance - Fire 5,497.92 5,869.00 11,369.0	ADMINISTRATIVE AND GENERA						
City Treasurer Salary 165.00 166.00 165.00 166.00 165.00 165.00 165.00 166.00 165.00							
General Office Supplies and P 4,553.64 4,619.83 8,406.55 5,351.48 7,135.31 8,076.46 Accounting Outside Service 6,211.50 6,360.00 6,594.00 9,372.00 9,372.00 10,234.39 Data Processing Outside Services 20,259.31 21,431.91 25,122.96 24,321.15 32,428.20 33,325.00 Legal Outside Services 6,234.93 5,159.95 3,741.32 9,480.54 12,640.72 10,995.34 Engineering Outside Service 22,412.50 6,800.00 3,400.00 399.59 492.79 7,639.90 Other- Outside Services 251.72 579.74 228.54 9,938.26 13,251.01 9,075.30 Fiber Optic Outside Service 113.51 151.35 151.35 151.35 1151.35 151.35 1151.35 151.35 1151.35 151.35 1151.35 151.35 1151.35 1151.35 1151.35 1151.35 1151.35 1151.35 1151.35 1151.35 1151.35 1151.35 1151.35 1151.35 1151.35 1151.35 1151.35					2,010.32		
Accounting Outside Service 6,211.50 6,360.00 6,594.00 9,372.00 9,372.00 10,234.39 Data Processing Outside Serv 20,259.31 21,431.91 25,122.96 24,321.15 32,428.20 33,325.00 Legal Outside Services 6,234.93 5,159.95 3,741.32 9,480.54 12,640.72 10,995.34 Engineering Outside Service 22,412.50 6,800.00 3,400.00 369.59 492.79 7,639.90 Other- Outside Services 251.72 579.74 228.54 9,938.26 13,251.01 9,075.30 Fiber Optic Outside Service 113.51 151.35 Insurance - Fire 5,497.92 5,869.00 6,165.72 5,328.75 7,105.00 7,460.25 Insurance - Liability 8,487.23 5,621.15 4,096.38 3,585.48 4,780.64 5,019.67 Insurance - Worker's Compen 7,624.00 5,702.00 11,369.04 10,956.63 14,608.84 15,339.28 Insurance - Auto 571.20 614.94 572.28 349.53 466.04 489.34 Insurance - Miscellaneous 613.86 630.74 538.86 482.01 642.68 674.81 Insurance - Group Health 122,054.09 126,465.59 114,280.66 84,689.52 112,919.36 125,708.72 Insurance - Group Health Co- 96.92							
Data Processing Outside Sen 20,259.31 21,431.91 25,122.96 24,321.15 32,428.20 33,325.00 Legal Outside Services 6,234.93 5,159.95 3,741.32 9,480.54 12,640.72 10,995.34 Engineering Outside Service 22,412.50 6,800.00 3,400.00 369.59 492.79 7,639.90 Other- Outside Services 251.72 579.74 228.54 9,938.26 13,251.01 9,075.30 Fiber Optic Outside Service 113.51 151.35 151							
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Other- Outside Services 251.72 579.74 228.54 9,938.26 13,251.01 9,075.30 Fiber Optic Outside Service 113.51 151.35 151.35 151.35 151.35 Insurance - Fire 5,497.92 5,869.00 6,165.72 5,328.75 7,105.00 7,460.25 Insurance - Liability 8,487.23 5,621.15 4,096.38 3,585.48 4,780.64 5,019.67 Insurance - Worker's Compen 7,624.00 5,702.00 11,369.04 10,956.63 14,608.84 15,339.28 Insurance - Worker's Comp Deductible - - - - - Insurance - Auto 571.20 614.94 572.28 349.53 466.04 489.34 Insurance - Miscellaneous 613.86 630.74 538.86 482.01 642.68 674.81 Insurance - Group Health 122,054.09 126,465.59 114,280.66 84,689.52 112,919.36 125,708.72 Insurance - Group Health HS/ 12,279.95 14,760.04 27,980.00 22,395.15 29,860.20 3	•						
Fiber Optic Outside Service Insurance - Fire 5,497.92 5,869.00 6,165.72 5,328.75 7,105.00 7,460.25 Insurance - Liability 8,487.23 5,621.15 4,096.38 3,585.48 4,780.64 5,019.67 Insurance - Worker's Compen 7,624.00 5,702.00 11,369.04 10,956.63 14,608.84 15,339.28 Insurance - Worker's Comp Deductible Insurance - Auto Insurance - Auto 613.86 630.74 538.86 482.01 642.68 674.81 Insurance Claims - Injuries & Damages Insurance - Group Health 122,054.09 126,465.59 114,280.66 84,689.52 112,919.36 125,708.72 Insurance - Group Health HS/ 12,279.95 14,760.04 27,980.00 22,395.15 29,860.20 38,846.22 Insurance - Group Life 1,098.67 1,009.26 1,008.61 708.47 944.63 991.86 Employee Assistance Programs Insurance - Group Dental 3,892.00 3,976.65 5,887.62 4,362.86 5,817.15 6,108.00		•					
Insurance - Fire 5,497.92 5,869.00 6,165.72 5,328.75 7,105.00 7,460.25		251.72	579.74	228.54			9,075.30
Insurance - Liability	•						
Insurance - Worker's Compen 7,624.00 5,702.00 11,369.04 10,956.63 14,608.84 15,339.28 Insurance - Worker's Comp Deductible -							
Insurance - Worker's Comp Deductible							
Insurance - Auto 571.20 614.94 572.28 349.53 466.04 489.34 Insurance - Miscellaneous 613.86 630.74 538.86 482.01 642.68 674.81 Insurance Claims - Injuries & Damages 9,979.69 (8,836.30) (8,836.30) 5,085.85 Insurance - Group Health 122,054.09 126,465.59 114,280.66 84,689.52 112,919.36 125,708.72 Insurance - Group Health Co- 96.92 - - - - Insurance - Group Health HS/ 12,279.95 14,760.04 27,980.00 22,395.15 29,860.20 38,846.22 Insurance - Group Life 1,098.67 1,009.26 1,008.61 708.47 944.63 991.86 Employee Assistance Programs - - - - - Insurance - Group Dental 3,892.00 3,976.65 5,887.62 4,362.86 5,817.15 6,108.00			5,702.00	11,369.04	10,956.63	14,608.84	15,339.28
Insurance - Miscellaneous 613.86 630.74 538.86 482.01 642.68 674.81 Insurance Claims - Injuries & Damages 9,979.69 (8,836.30) (8,836.30) 5,085.85 Insurance - Group Health 122,054.09 126,465.59 114,280.66 84,689.52 112,919.36 125,708.72 Insurance - Group Health Co- 96.92 -			044.04	F70.00	0.40.50	-	100.01
Insurance Claims - Injuries & Damages 9,979.69 (8,836.30) (8,836.30) 5,085.85 Insurance - Group Health 122,054.09 126,465.59 114,280.66 84,689.52 112,919.36 125,708.72 Insurance - Group Health Co- 96.92 - - Insurance - Group Health HS/ 12,279.95 14,760.04 27,980.00 22,395.15 29,860.20 38,846.22 Insurance - Group Life 1,098.67 1,009.26 1,008.61 708.47 944.63 991.86 Employee Assistance Programs - - - - - - Insurance - Group Dental 3,892.00 3,976.65 5,887.62 4,362.86 5,817.15 6,108.00							
Insurance - Group Health 122,054.09 126,465.59 114,280.66 84,689.52 112,919.36 125,708.72 Insurance - Group Health Co- 96.92 -<	Insurance - Miscellaneous	613.86	630.74				
Insurance - Group Health Co- 96.92 - 14,760.04 27,980.00 22,395.15 29,860.20 38,846.22 1,098.67 1,009.26 1,008.61 708.47 944.63 991.86 1,098.67 1,098.67 1,008.61 7,088	•	•					•
Insurance - Group Health HS/ 12,279.95 14,760.04 27,980.00 22,395.15 29,860.20 38,846.22 Insurance - Group Life 1,098.67 1,009.26 1,008.61 708.47 944.63 991.86 Employee Assistance Programs - Insurance - Group Dental 3,892.00 3,976.65 5,887.62 4,362.86 5,817.15 6,108.00	•		126,465.59	114,280.66	84,689.52	112,919.36	125,708.72
Insurance - Group Life 1,098.67 1,009.26 1,008.61 708.47 944.63 991.86 Employee Assistance Programs - Insurance - Group Dental 3,892.00 3,976.65 5,887.62 4,362.86 5,817.15 6,108.00					<u> </u>	_	
Employee Assistance Programs - Insurance - Group Dental 3,892.00 3,976.65 5,887.62 4,362.86 5,817.15 6,108.00	2						
Insurance - Group Dental 3,892.00 3,976.65 5,887.62 4,362.86 5,817.15 6,108.00	•	1,098.67	1,009.26	1,008.61	708.47	944.63	991.86
		0.000	0.070.5	P 55P			
I nird Party Administrative Co: 304.26 314.82 2/5.72 172.75 230.33 641.84		•					
	I nira Party Administrative Co	304.26	314.82	2/5./2	1/2./5	230.33	641.84

Item 3.

	2019	2020	2021	2022	2022	2023
	Actual	Actual	Actual	YTD Sept	Forecast	Budget
FICA						
PERA	(1,090.36)	(19, 173.00)	(45,566.00)			
Paid Time Off	64,850.43	59,180.42	80,057.70	52,473.17	69,964.23	71,713.33
Extended Illness Benefit	3,884.81	8,114.22	8,287.14		-	
Short-Term Disability Payments					-	
Disability Insurance	2,043.89	2,902.25	2,870.97	2,275.92	3,034.56	4,457.53
Unemployment Compensation					-	
Lump Sum Payments						
Advertising/Promotions	0	0	0	0		3,000.00
Miscellaneous General Exper	(9,903.22)	10,350.13	(1,170.13)	17,173.37	18,456.25	12,000.00
Maintenance of General Plant_	2,859.94	2,344.32	2,921.83	2,669.65	3,559.53	2,500.00
TOTAL ADMINISTRATIVE AND	330,813.51	320,733.90	336,995.66	295,917.32	390,101.28	431,665.65
Depreciation	305,679.58	325,827.13	331,342.63	249,280.22	332,373.63	331,035.11
Amortization Bond Discount &	973.56	973.56	973.56	10,925.69	14,567.59	3,112.00
Amortization Expense, Intangi <u>ble</u>	es					
TOTAL OPERATING EVEENOR	1 500 150 11	1 500 000 04	1 700 500 40	4 540 007 40	0.040.054.04	4 050 000 40
TOTAL OPERATING EXPENSI_	1,522,158.44	1,586,002.04	1,768,539.48	1,549,807.49	2,046,954.84	1,958,968.18
NET OPERATING INCOME	285,971.70	198,474.13	136,111.77	(127,040.39)	(140,331.35)	128,148.03
				· · · · · ·		
OTHER INCOME						
Extraordinary Income (Loss)						
Property Disposition Gain (Lo:	(105,172.00)	1,125.00				
TOTAL OTHER INCOME	(105,172.00)	1,125.00				
OTHER EXPENSES						
Interest Expense - 2012D Bor	25,830.00	24,630.00	22,826.43	1,946.46	2,595.28	0
Interest Expense - 1999 Wate	1,294.65				-	0
Interest Expense - 2021A Go	0.00	0	0	0	=	1,000.00
Interest Expense - 2021D Refun	•					18,963.75
Bond Fees - 2021A	532.72	1,131.58	992.20	650.00	866.67	750.00
Bond Fees - 2021D						750.00
Unusual & Extraordinary Expens						
TOTAL OTHER EXPENSES	27,657.37	25,761.58	23,818.63	2,596.46	3,461.95	21,463.75
TER DEPARTMENT NET INCON	153,142.33	173,837.55	112,293.14	(129,636.85)	(143,793.30)	106,684.28

_	2019 Actual	2020 Actual	2021 Actual	2022 YTD Sept	2022 Forecast	2023 Budget
WASTEWATER COLLECTION DEPARTMENT						
OPERATING REVENUES						
Collections - City Residential	\$727,197.01	\$733,023.05	\$765,394.05	\$566,415.74	\$755,220.99	\$889,750.29
Collections- City Commercial	799,491.14	737,707.56	787,523.28	591,877.34	789,169.79	783,534.47
Collections- City Multi-Family	700,101111	, 0, ,, 0, 100	707,020.20	001,077.01	-	700,001.17
Collections- Rural Residential	799.95	811.20	763.20	569.38	759.17	781.12
Collections - Rural Commercial	3,741.90	3,978.15	3,639.12	2,541.69	3,388.92	4,636.93
Collections - Public Authority	144,393.70	140,931.40	133,262.20	114,198.85	152,265.13	154,214.90
Septage Hauler - Regular Fees	90,898.50	129,671.86	114,482.26	74,773.58	99,698.11	95,094.35
Septage Hauler - Holding Tank Fee	20,172.25	24,858.95	41,449.77	23,496.69	31,328.92	29,082.43
Septage Hauler - Biosolids Disposal	20,172.23	24,000.00	41,443.77	25,490.09	31,320.32	29,002.43
TOTAL OPERATING REVENUES	1,786,694.45	1,770,982.17	1,846,513.88	1,373,873.27	1,831,831.03	1,957,094.49
TOTAL OF LIVATING NEVEROLS	1,700,034.43	1,770,302.17	1,040,010.00	1,070,070.27	1,001,001.00	1,957,094.49
OTHER REVENUES						
Service Connections	900.00	1,000.00	1,400.00	800.00	1,066.67	1,158.33
Permit Fees	1,085.00	935.00	1,615.00	680.00	906.67	1,192.08
Septage Hauler - Permit Fees	100.00	175.00	250.00	100.00	133.33	158.33
Thawing Service	100.00	173.00	250.00	100.00	100.00	150.55
Septic Tank Disposal						
Merchandising & Jobbing (Net)	907.79	4,442.88	2,755.55	6,031.14	8,041.52	5,459.55
City of Grand Rapids Merch & Jobbing (N	91.49	4,442.00	2,755.55	0,031.14	0,041.32	0.00
City of Grand Rapids Merch & Jobbing (Net)	2,057.14	7,682.09	3,656.41	2,190.26	2,920.35	2,450.38
Jetting Service	891.71	2,169.02	402.91	185.00	2,920.33	2,450.36 565.46
Equipment Rental Revenue	091.71	2,109.02	402.91	165.00	240.07	303.40
Miscellaneous Income	6,828.86	6,372.51	6,456.68	7,587.33	10,116.44	6,250.06
TOTAL OTHER SERVICES	12,861.99	22,776.50	16,536.55	17,573.73	23,431.64	17,234.19
TOTAL OTHER SERVICES	12,001.99	22,770.50	10,030.00	17,073.73	23,431.04	17,234.19
TOTAL WASTEWATER COLLECTION RE	1,799,556.44	1,793,758.67	1,863,050.43	1,391,447.00	1,855,262.67	1,974,328.68
EXPENSES OPERATING EXPENSES Supervision and Engineering	26,323.16	26,142.84	25,032.23	19,077.99	25,437.32	26,678.49
Crew Personnel	20,323.10	20,142.04	25,052.25	62,183.84	82,911.79	168,676.81
Records	469.49	329.67	373.08	2,411.10	3,214.80	2,834.99
Maintenance Inspections	99.00	329.07	638.88	132.60	176.80	750.00
Thawing Mains & Services	72.26		030.00	35.93	47.91	527.05
Locating Expense	9,136.91	9,876.72	10,100.09	9,746.28	12,995.04	14,419.93
Services on Customer Premises	359.15	424.02	556.47	251.99	335.99	714.78
Mapping Expense	28,553.18	30,778.77	30,810.45	24,010.75	32,014.33	814.68
Small Tools Expense	487.98	919.46	2,059.25	1,198.97	1,598.63	2,000.00
Safety Expense	2,042.11	3,467.17	4,075.69	1,746.08	2,328.11	6,299.96
Seminar/Training Expense	7,599.86	1,262.49	5,659.31	1,090.00	1,453.33	6,614.94
Uniforms Expense	69.35	56.91	95.08	584.70	779.60	750.00
Miscellaneous Meetings	09.33	30.91	95.06	304.70	779.00	0.00
Rentals					-	0.00
Stores Expense (Labor)	84.82	3,056.02	5,400.35	1,876.25	2,501.67	2,899.01
Power Purchased	14,396.93	14,327.33	15,438.62	13,077.53	17,436.71	15,188.24
TOTAL OPERATING EXPENSES	89,694.20	90,641.40	100,239.50	137,424.01	183,232.01	249,168.88
_			,	,	,	
MAINTENANCE EXPENSES						
Supervision and Engineering						
Lift Station Buildings		30.00				
Lift Station Pumps	40,004.67	38,226.54	94,554.04	41,352.29	55,136.39	58,147.47
Mains	34,382.15	81,456.05	74,472.17	55,628.32	74,171.09	412,466.00
Services	5,685.20	7,323.44	4,733.26	11,591.31	15,455.08	8,819.95
Miscellaneous Expenses	194.08	330.18	6,896.81	3,973.82	5,298.43	3,599.92
TOTAL MAINTENANCE EXPENSES	80,266.10	127,366.21	180,656.28	112,545.74	150,060.99	483,033.34
OTHER EVENIES						
OTHER EXPENSES Truck Expense - Operation			4,069.43	1,905.17	2,540.23	0.00
Truck Expense - Operation Truck Expense - Maintenance			4,000.40	1,303.17	2,040.23	0.00
Operation & Maintenance - Misc Equip						
TOTAL OTHER EXPENSES			4,069.43	1,905.17	2,540.23	0.00
			.,000.10	.,500.17	2,010.20	0.00

	2019	2020	2021	2022	2022	2023
	Actual	Actual	Actual	YTD Sept	Forecast	Budget
CUSTOMER ACCOUNTING EXPENSES		(0.004.04)				
Supervision Meter Reading	5,273.21 6,511.98	(3,001.81)	19,825.78 41.38	5,905.32	7,873.76	8,070.60
Customer Billing and Accounting	61,906.46	67,415.24	71,938.66	53,683.31	71,577.75	73,367.19
Collecting Expense	1,832.29	525.35	71,000.00	00,000.01	-	632.34
Miscellaneous Expense	40.00	215.00	2,528.79	208.69	278.25	198.12
Miscellaneous Customer Information			1,846.00			0.00
TOTAL CUSTOMER ACCOUNTING EXPE	75,563.94	65,153.78	96,180.61	59,797.32	79,729.76	82,268.25
ADMINISTRATIVE AND GENERAL EXPENSE			Va :-			
Supervision Commissioner Salaries	32,125.12 2,044.50	33,262.61 1,939.12	42,825.45 2,010.47	27,130.05	36,173.40	37,077.73
City Treasurer Salary	2,044.50	1,939.12	2,010.47 110.00	1,507.86	2,010.48 110.00	2,010.21 110.00
General Office Supplies and Phone	3,067.61	3,217.59	5,632.25	5,503.93	7,338.57	4,637.96
Accounting Outside Service	4,141.00	4,240.00	4,396.00	6,248.00	6,248.00	7,656.27
Data Processing Outside Service	10,999.00	11,457.56	13,363.38	12,747.10	16,996.13	17,387.00
Legal Outside Services	4,478.13	3,048.44	10,381.11	609.40	812.53	7,737.80
Engineering Outside Service	35,812.50	1,900.00	1,900.00	11,094.81	14,793.08	27,451.21
Other - Outside Services Fiber Optic Outside Service	147.85	331.06	130.51	122.99 113.51	163.99 151.35	9,076.38
Insurance - Fire	653.40	550.50	577.20	529.71	706.28	741.59
Insurance - Liability	7,356.90	8,250.86	12,372.42	11,305.89	15,074.52	15,828.24
Insurance - Worker's Compensation	22,393.00	19,093.00	8,470.96	27,201.75	36,269.00	38,082.45
Insurance - Worker's Comp Deductible					_	
Insurance - Auto	571.20	935.71	1,210.86	825.78	1,101.04	1,156.09
Insurance - Miscellaneous	537.10	553.19	483.12	627.66	836.88	878.72
Insurance Claims - Injuries & Damages Insurance - Group Health	500.00 69,943.01	71,727.28	55,139.53 56,034.90	1,000.00 42,697.60	1,333.33 56,930.13	5,000.00 62,623.14
Insurance - Group Health Co-insurance	72.68	71,727.20	30,034.30	42,007.00	-	02,023.14
Insurance - Group Health HSA funding	7,042.99	8,508.96	19,150.00	11,354.35	15,139.13	22,653.04
Insurance - Group Life	557.81	512.44	512.08	359.69	479.59	503.56
Employee Assistance Programs					-	
Insurance - Group Dental	2,249.55	2,289.78	2,909.56	2,211.42	2,948.56	3,095.98
Third Party Administrative Cost FICA	162.24	167.90	147.04	92.14	122.85	528.99
PERA	(738.52)	(10,150.00)	(24,122.00)		-	
Paid Time Off	38,614.65	35,896.47	41,974.00	24,830.51	33,107.35	33,935.03
Extended Illness Benefit	2,202.97	2,816.63	3,206.00	,	-	,
Short-Term Disability Payments					-	
Disability Insurance	1,173.24	1,608.24	1,523.06	1,204.92	1,606.56	2,230.61
Unemployment Compensation Lump Sum Payments					-	
Promotion/Advertising	0	0	0	0	-	2,500.00
Miscellaneous General Expense	(5,439.43)	5,574.34	1,303.81	10,449.39	13,932.52	5,039.93
Maintenance of General Plant	2,027.47	1,499.63	1,974.44	1,803.35	2,404.47	2,232.83
Environmental Programs						
TOTAL ADMINISTRATIVE AND GENERAL	242,805.97	209,341.31	263,616.15	201,571.81	266,789.75	310,174.76
DOMESTIC PLANT EXPENSES						
Power Purchased	46,019.90	44,734.86	51,914.97	42,951.23	57,268.31	47,250.12
Water Purchased	4,689.42	4,818.38	5,044.06	4,398.61	5,864.81	4,515.03
Wastewater Collection Services Purchase	5,803.20	5,956.80	6,225.60	5,410.26	7,213.68	5,250.11
Supervision and Engineering Labor						
Chemicals						
Heating Fuel						
Miscellaneous Supplies and Expense						
Maintenance - Building and Fixtures	1,388.79	1,546.18	1,982.40	1,401.74	1,868.99	2,674.95
Maintenance - Treatment Facilities and E	29,950.48	22,867.18	21,530.98	10,767.20	14,356.27	19,971.08
Maintenance - Tools and Equipment			1 270 00	4 705 04	-	0.000.00
Miscellaneous Maintenance Expense Maintenance Inspections			1,370.00	1,765.04	2,353.39	2,309.98
Insurance - All, Expired	771.72	686.50	717.78	591.81	- 789.08	816.85
Miscellaneous General and Admin Expense	,,,,,,,	000.00	, , , , , 0	551.61	, 55.00	313.00
TOTAL DOMESTIC EXPENSE	88,623.51	80,609.90	88,785.79	67,285.89	89,714.52	82,788.12
DOMESTIC PORTION SECONDARY PLAI	422,020.07	423,425.33	456,209.17	463,154.06	617,538.75	467,772.68
DOMESTIC PORTION OF SERVICE CTR	9,716.00	9,992.07	8,677.69	19,782.93	26,377.24	17,262.52
DOMESTIC PORTION OF SLUDGE DISPO	140,403.94	50,293.08	50,293.08	74,915.07	99,886.76	45,589.43
				•		

Item 3.

_	2019	2020	2021	2022	2022	2023
ODED ATING INCOME DEFORE DEPORT	Actual	Actual	Actual	YTD Sept	Forecast	Budget
OPERATING INCOME BEFORE DEPREC	650,462.71	736,935.59	614,322.73	253,065.00	339,392.67	236,270.70
LESS:						
Depreciation	142,340.18	190,015.22	236,712.92	175,567.68	234,090.24	236,713.26
Amortization - Debt Discount and Expense Amortization Computer Intangibles	519.96	519.96	519.96	5,628.36	7,504.48	2,470.19
TOTAL OPERATING EXPENSES	1,291,953.87	1,247,358.26	1,485,960.58	1,319,578.04	1,757,464.72	1,977,241.43
NET OPERATING INCOME	507,602.57	546,400.41	377,089.85	71,868.96	97,797.95	(2,912.75)
ADD:						
Extra Ordinary Income (Loss)						
Gain (Loss) on Property Disposition	5,000.00		27,500.00		-	
Grant Revenues						
LESS:						
Interest Expense, 2012D Bonds	12,665.80	11,965.85	11,652.95	1,048.11	1,397.48	0
Interest Expense, 2021A Bonds						1,000.00
Interest Expense, 2021D Bonds						18,963.75
Bond Fees - 2012D	284.59	604.53	232.80	350.00	466.67	0
Bond Fees - 2021A	0.00	0.00	0.00	0.00	-	750.00
Bond Fees - 2021D						750.00
Operating Transfer In from WWTM						26,198.43
Operating Transfers to City						
Unusual & Extraordinary Expenses						
ASTEWATER COLLECTION DEPT NET INCO	499,652.18	533,830.03	392,704.10	70,470.85	95,933.80	(50,574.93)

- -	2019 Actual	2020 Actual	2021 Actual	2022 YTD Sept	2022 Forecast	2023 Budget
WASTEWATER TREATMENT PLANT						
OPERATING REVENUES						
Screen House Industrial Waste Treatment	\$258,620.05	\$266,991.11	\$251,313.34	\$217,329.56	\$289,772.75	\$261,669.81
Primary Plant II Waste Treatmen	1,705,172.26	1,778,803.18	1,274,014.25	1,065,946.94	1,421,262.59	1,339,380.47
Sludge Disposal	407,837.03	378,955.36	507,039.14	337,834.68	450,446.24	524,278.45
WWTP Service Center Building	129,083.44	132,751.94	114,300.14	93,464.29	124,619.05	120,837.65
Secondary Waste Treatment	985,185.71	1,034,087.36	1,207,757.08	1,033,486.98	1,377,982.64	1,091,469.58
WWTP Revenue (Exp) Suspense_ Total WasteTreatment Revenue	3,485,898.49	3,591,588.95	3,354,423.95	2,748,062.45	3,664,083.27	3,337,635.95
Screen House Expenses						
Supervision	6,857.89	7,104.84	6,147.03	4,688.34	6,251.12	6,557.66
Operating Labor	21,389.06	21,215.71	21,125.12	15,789.94	21,053.25	21,923.78
Overtime - Operator Labor	3,879.06	4,199.61	4,561.73	3,977.64	5,303.52	5,436.10
Pera (Public Employee Retireme	(236.78)				-	
Group Insurance	15,291.91	17,058.36	11,093.33	7,804.69	10,406.25	11,907.06
Co-Insurance Payments	52.85		0.770.00	4 0 4 7 0 0	-	
HSA Funding	1,611.00	2,028.00	2,750.00	1,947.83	2,597.11	3,053.54
Life Insurance	168.11	154.41	154.33	108.41	144.55	169.76
Employee Assistance Programs Dental Insurance	479.18	532.17	576.67	413.98	- 551.97	607.16
Third Party Administrative Cost	60.89	62.96	55.16	34.54	46.05	69.25
Other Fringe Costs (PTO & EIB)	9,123.37	9,062.02	7,207.62	7,487.59	9,983.45	8,833.31
Short-Term Disability Payments	0,120.07	0,002.02	7,207102	7,107100	-	0,000.01
Disability Insurance	592.36	866.25	846.61	710.17	946.89	1,041.57
Supplies and Sundries	241.91	214.58	816.40	786.66	1,048.88	839.99
Uniforms Expense	20.30	62.59	7.05	596.31	795.08	475.79
Fuel - Heating	3,212.33	3,039.12	4,669.93	3,255.83	4,341.11	5,370.41
Fuel - Trucks					-	
Engineering Expense	47 700 75	04 400 00	47 004 45	45 005 00	-	10 700 17
Administrative Expense	17,796.75	24,463.89	17,991.15	15,635.83	20,847.77	19,789.17
Safety Expense Seminars	1,195.95 423.52	1,796.49 484.61	1,492.43 458.43	890.58 32.74	1,187.44 43.65	1,200.00 400.00
Miscellaneous Meetings	423.32	404.01	430.43	32.74	-	400.00
Insurance	6,711.14	4,881.61	3,962.65	2,102.99	2,803.99	2,944.18
Worker Compensation Deductible				or of the second	-	
Permits					-	
Legal	1,036.13	875.83	735.40	379.71	506.28	500.00
Records					-	
Telephone				10.000.10	-	•
Misc Capital Exp Work in Prog				12,830.16	17,106.88	0
Misc Capital Expenditures DCS Support Contract	2,810.35	3,523.15	2,356.06	145.47	- 193.96	3,000.00
Screens-Conveyors-Spray Wate	2,810.35 9,367.97	12,006.60	4,177.40	8,216.17	10,954.89	12,599.91
Sewage Pumps	13,024.20	3,925.90	9,108.18	8,225.60	10,967.47	22,679.95
Bark Trucks	385.66	127.25	0,100.10	631.57	842.09	286.13
Electric Motors & Controls	20,531.32	4,178.21	4,274.99	2,431.29	3,241.72	5,250.05
Instrumentation	3,917.33	3,011.00	2,938.45	1,683.78	2,245.04	3,569.92
Buildings and Grounds	14,719.91	32,706.95	12,596.39	17,003.57	22,671.43	15,750.04
Maintenance Inspection	302.85	1,170.64	555.95	2,749.98	3,666.64	1,261.37
Force Mains & Manholes	529.14	3,151.78	738.99	738.71	984.95	1,888.58
Power Purchased	92,269.69	94,790.60	118,447.68	104,792.21	139,722.95	94,500.04
Utilities - Use Tax	40.054.70	0.440.40	40.074.70	44.400.00	-	0.705.00
Water Purchased	10,854.70	8,419.48 265,114.61	13,671.79	14,400.90 240,493.19	19,201.20	9,765.09
Total Screen House Expense	258,620.05	200,114.01	253,516.92	240,493.19	320,657.59	261,669.81
Primary Plant II Waste Treatment Exp						
Supervision	24,965.06	25,893.26	22,135.71	16,844.93	22,459.91	23,756.03
Operating Labor	246,563.92	242,901.97	131,788.56	96,506.56	128,675.41	135,083.27
Overtime - Operating Labor	58,187.87	62,991.63	32,878.34	27,463.61	36,618.15	38,449.05
Pera (Public Employee Retireme	(1,691.82)	100 005 60	E4 024 22	20 651 06	E1 E2E 01	EC 000 00
Group Insurance Co-Insurance Payments	118,453.72 211.38	122,285.69	54,934.32	38,651.86	51,535.81	56,689.39
HSA Funding	211.38 11,794.00	14,352.00	13,375.00	9,673.86	12,898.48	13,431.43
Third Party Administrative Cost	385.25	398.80	349.16	218.87	291.83	300.00
Life Insurance	1,050.50	965.02	964.33	677.39	903.19	948.34
	.,					0.01

	2019	2020	2021	2022	2022	2023
_	Actual	Actual	Actual	YTD Sept	Forecast	Budget
Employee Assistance Programs	2 500 20	2 200 55	0.000.05	0.000.05		0.000.00
Dental Insurance Other Fringe Costs (PTO & EIB) Short-Term Disability Payments	3,506.20 63,887.89	3,896.55 61,139.55	2,902.05 34,610.55	2,093.05 36,344.29	2,790.73 48,459.05	2,930.26 49,670.52
Disability Insurance	1,975.23	2,886.91	2,823.03	2,367.60	3,156.80	3,314.64
Supplies and Sundries	148.41	796.89	1,083.02	1,615.69	2,154.25	1,259.96
Tools	1,895.20	2,869.46	4,344.78	6,540.41	8,720.55	4,724.95
Electric Tools & Equipment					-	4,725.00
Uniforms Expense Fuel - Heating	151.50	361.72	23.51	1,987.71	2,650.28 -	750.00
Fuel - Trucks Engineering Expense		15.87	9.20	166.10	221.47 -	250.00
Administrative Expense	112,710.83	146,898.22	125,978.49	140,601.13	187,468.17	139,781.78
Safety Expense	2,517.49	11,082.77	9,077.03	5,598.10	7,464.13	8,689.84
Seminars	2,178.00	2,503.67	2,368.55	192.79	257.05	2,749.92
Miscellaneous Meetings	20 001 71	139.72	94.43	20 500 70	- 07 404 00	0.00
Insurance Worker Compensation Deductible	30,081.71	26,643.88	32,297.83	20,568.70	27,424.93	30,167.42
Permits	948.92	801.71	827.75	963.01	1,284.01	1,100.00
Legal	5,118.24	4,378.35	3,590.60	1,824.04	2,432.05	5,313.65
Records Outside Testing		1,750.00	28.75		-	0.00
Environmental Programs		1,750.00	28.75		-	0.00
Telephone	1,238.23	1,271.24	1,129.33	3,192.64	4,256.85	4,366.25
Misc Capital Exp Work in Prog Misc Capital Expenditures	1,200.20	1,271.24	1,123.55	61,384.12	81,845.49	0.00
Chemicals	255,427.45	249,372.09	56,313.11	21,890.17	29,186.89	34,700.02
Nitrogen Solution	20,792.98	5,558.40	00,010.11	9,050.80	12,067.73	9,850.5
Polymer	223,299.28	229,894.55	334,413.01	252,456.84	336,609.12	283,500.03
Polymer - Secondary Plant					-	,
Zinc Chloride Sulfuric Acid	25,662.00	26,109.60		44,046.23	58,728.31	33,349.90
HTH	111,390.00	153,650.00	29,610.00	822.00	1,096.00	30,000.02
C-5 Scale Inhibitor					-	
K-10 Dewatering Chemical DCS Support Contract			563.00		-	500.00
Primary Clarifier & AIC	22,429.02	16,435.82	8,169.71	15,885.15	21,180.20	29,146.62
Sludge Blend Tank	15,001.87	547.78	1,853.18	2,062.32	2,749.76	5,065.0
Sludge Pumps	9,953.42	5,578.68	25,794.95	16,308.38	21,744.51	23,309.9
Rotary Screens	16,158.75	10,115.12	7,255.85	2,860.89	3,814.52	18,900.0
Sludge Conveyors	7,509.70	48,363.45	9,140.80	11,222.11	14,962.81	23,099.9
Additive Systems	13,583.47	9,452.91	3,200.45	4,655.18	6,206.91	8,819.9
Electric Motors & Controls	11,236.13	8,643.31	9,190.58	17,460.37	23,280.49	12,603.2
Instrumentation	11,832.25	1,841.89	1,462.00	2,037.17	2,716.23	10,499.92
Building & Grounds	31,686.51	48,114.77	36,259.65	35,160.64	46,880.85	36,750.12
Snowplowing - Primary II Plant Demo Dump		938.79	280.90	340.57	454.09 -	500.00
Screw Presses	6,692.44	2,454.04	3,066.71	9,233.82	12,311.76	12,359.92
Maintenance Inspection	196.94	1,694.15	903.43	2,405.85	3,207.80	3,287.9
Power Purchased	232,018.10	218,527.93	264,484.86	208,143.64	277,524.85	230,401.5
Utilities - Use Tax Water Purchased	4 004 00	4,285.02	6,515.76	2 210 22	4 201 11	4 204 0
al Primary Plant II Waste Treatn	4,024.22 1,705,172.26	1,778,803.18	1,276,092.27	3,218.33 1,134,736.92	4,291.11 1,512,982.56	4,284.05 1,339,380.47
dge Disposal Waste Treatment Pl		.,,	.,,	.,,,	.,	1,000,000117
Supervision	9,323.49	9,629.70	15,884.33	12,204.36	16,272.48	16,679.29
Truck Driver Wages	119,456.83	57,763.39	133,640.60	103,534.73	138,046.31	141,497.4
Overtime - Truck Driver	12,787.01	12,426.71	42,133.87	41,426.88	55,235.84	30,295.14
Pera (Public Employee Retireme	(628.00)				-	
Group Insurance	51,042.97	49,435.15	41,801.59	29,375.18	39,166.91	43,083.60
Co-Insurance Payments	52.85				-	
HSA Funding	5,038.00	5,954.04	9,625.00	7,400.34	9,867.12	10,918.5
Life Insurance	553.87	508.85	508.48	357.18	476.24	500.08
Third Party Administrative Cost	4 447 70	0.545.00	04 400 40	00 000 11	- 25 070 81	00.000.00
Other Fringe Costs (PTO & EIB)	4,117.79	3,545.29	21,139.13	26,303.11	35,070.81	26,960.68
Short-Term Disability Payments Employee Assistance Programs					-	
Employee Assistance Flograms	4 400 04	1 614 70	2,314.18	1,689.24	2,252.32	2,364.93
Dental Insurance	7 444 34					
Dental Insurance Uniforms Expense	1,499.34	1,614.78	2,314.10	1,009.24	2,232.32	2,004.00

	2019	2020	2021	2022	2022	2023
	Actual	Actual	Actual	YTD Sept	Forecast	Budget
Engineering Exp - Sludge Landfi	3,443.10	3,620.00	14,603.50	8,021.40	10,695.20	5,000.00
Administrative Expense FEMA Payments	4,671.88	3,487.43	2,508.26	1,021.77	1,362.36	2,491.70
Safety Expense		313.89			-	500.00
Seminars/Training	480.00		1,698.71		-	1,500.00
Miscellaneous Meetings	50.20		78.49		-	0.00
Insurance	11,442.28	9,194.88	16,180.50	6,482.56	8,643.41	9,075.58
Worker Compensation Deductible					-	
Permits	400.00	400.00	400.00	400.00	400.00	400.00
Legal	1,025.00				-	0.00
Records					-	
Outside Testing					-	
Misc Capital Exp Work in Prog Misc Capital Expenditures					= =	
Sludge Placement	49,476.20	48,862.08	63,474.00	54,031.68	72,042.24	68,290.47
Misc Landfill Operating Expense	52,290.66	53,756.85	45,171.85	34,259.44	45,679.25	50,924.94
Sludge Dump Closure	02,200.00	00,700.00	10,171.00	01,200.11	-	00,021.01
Leachate Collaection Sludge LD	21,527.82	39,945.28	11,811.74	13,323.98	17,765.31	25,174.99
Soild Waste ST Tax Assessmen	428.90	244.80	316.80	309.60	412.80	422.03
Sludge Landfill Amortization	143,541.22	53,430.36	53,430.36		53,430.36	53,430.36
Landfill Monitoring					-	
Well Monitoring	39,293.41	53,007.26	54,025.87	31,183.31	41,577.75	46,121.86
Sludge Disposal Alternatives					=	
Sludge Land Spreading	44,000,50	10 711 00	04.005.44	00 505 54	-	04 400 00
Sludge Hauling Trucks	14,236.59	19,711.09	24,395.11	39,535.51	52,714.01	31,499.92
Power Purchased Water Purchased	2,689.56	2,396.61	2,189.85	1,738.32	2,317.76	2,736.35
Total Sludge Disposal Waste Treat	548,240.97	429,248.44	557,332.22	412,598.59	603,428.48	569,867.88
	0.0,2.0.07	.20,2.01.1	007,002,22	112,000.00	000,120.10	000,007.00
Waste Treatment Service Center Build	•		N 9900-07- 2 15	V 20 20 20 40	WE SEE A PROPERTY	* ***
Supplies and Sundries	5,112.78	2,781.27	1,770.46	498.65	664.87	2,276.01
Tools	1,759.56	3,853.23	3,223.85	608.39	811.19	2,991.91
Fuel - Heating SCB	20 242 40	22 200 01	45 000 00	14.074.07	10.700.40	00 000 50
Administrative Expense	28,342.49 1,687.70	32,300.81	15,266.02	14,074.87	18,766.49	20,686.50
Insurance Safety Expense	634.39	1,945.85 3,032.04	2,895.11 176.00	2,646.42 745.42	3,528.56 993.89	3,704.98 1,647.83
Telephone	3,324.65	3,910.75	4,220.60	3,154.41	4,205.88	4,398.11
Misc Capital Exp Work in Prog	0,024.00	3,310.75	4,220.00	7,500.00	10,000.00	4,556.11
Misc Capital Expenditures				,,000.00	-	0
SCADA Maint - SCB Primary Pla	3,148.12	155.38	2,281.46	(861.43)	(1,148.57)	5,680.89
Plant Vehicles	15,612.02	13,339.98	14,689.38	13,638.08	18,184.11	15,130.02
Building & Grounds - SCB	30,232.08	35,209.76	27,755.65	28,958.47	38,611.29	30,240.01
Snowplowing - SCB					-	0.00
Power Purchased	44,846.70	42,307.14	46,545.05	36,615.66	48,820.88	46,514.93
Utilities - Use Tax	227.22				-	
Water Purchased	387.03	387.03	359.76	236.36	315.15	408.04
Wastewater Collection Service Power Purchased (PUC Portion)	285.73	285.73	245.51	146.45	195.27	291.84
Utilities - Use Tax - PUC Portion	3,375.57	3,184.42	3,503.41	5,230.81	6,974.41	4,076.69
Water Purchased - PUC Portion	29.15	29.15	27.08	33.75	45.00	30.96
WW Collection Services - PUC F	21.47	21.47	18.49	20.91	27.88	21.45
Total Waste Treatment Service Ce_	138,799.44	142,744.01	122,977.83	113,247.22	150,996.29	138,100.17
=						
Secondary Waste Treatment Plant	07 404 04	00.440.00	04 500 40	10.750.10	05 004 04	05 000 00
Supervision	27,431.01	28,418.63	24,588.12	18,753.16 39,992.12	25,004.21 53,322.83	25,800.08
Operating Labor Overtime - Operating Labor	85,554.09	84,862.16 16,797.85	54,129.39 9,762.52	39,992.12 8,183.45	53,322.83 10,911.27	54,655.90
Truck Driver Wages	15,516.78	10,797.65	9,702.32	0,103.43	10,911.27	11,456.83
Truck Driver Wages Truck Driver Wages - Overtime					-	
Truck Driver Wages - Test Burn					_	
Pera (Public Employee Retireme	(825.90)				_	
Group Insurance	56,579.68	60,778.52	36,682.48	25,775.65	34,367.53	37,804.28
Co-Insurance Payments	211.37	•			_	,
HSA Funding	5,937.00	7,305.96	9,250.00	6,406.36	8,541.81	9,212.40
Life Insurance	478.34	439.37	439.11	308.44	411.25	431.81
Employee Assistance Programs					-	
Third Party Administrative Cost	162.24	167.90	147.04	92.14	122.85	150.00
Dental Insurance	1,761.28	1,902.69	1,877.34	1,339.96	1,786.61	1,875.94
Other Fringe Costs (PTO & EIB)	32,245.29	32,255.55	25,088.35	25,317.07	33,756.09	30,513.87
Short-Term Disability Payments					-	

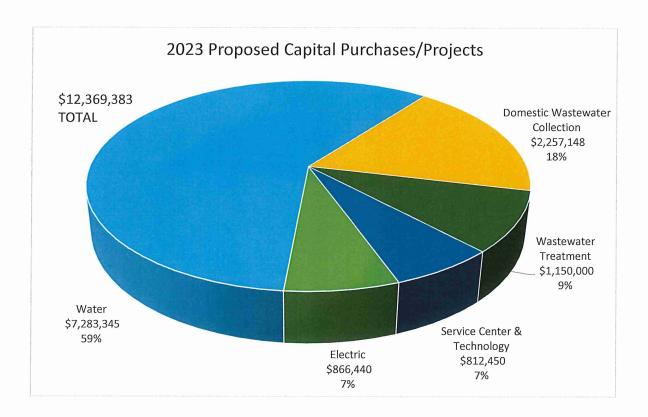
_	2019	2020	2021	2022	2022	2023
	Actual	Actual	Actual	YTD Sept	Forecast	Budget
Disability Insurance	1,381.80	2,020.27	1,976.04	1,656.51	2,208.68	2,319.11
Supplies and Sundries	488.67	439.66	1,674.75	1,582.45	2,109.93	1,575.02
Uniforms Expense Fuel - Heating	59.34	167.92	16.46	1,391.39	1,855.19	750.00
Fuel - Trucks					-	
Engineering Expense					_	
Administrative Expense	37,745.44	53,318.68	41,616.17	36,397.58	48,530.11	34,933.15
Safety Expense	3,825.21	4,789.69	5,910.86	1,871.12	2,494.83	4,339.94
Seminars	1,115.57	1,049.93	993.26	70.97	94.63	1,199.93
Miscellaneous Meetings		381.38	1,671.62	1,689.03	2,252.04	1,049.47
Insurance	33,849.59	29,179.56	28,568.60	21,400.21	28,533.61	29,960.29
Worker Compensation Deductible					-	
Permits	14,350.00	14,350.00	14,350.00	14,350.00	19,133.33	15,245.83
Legal	4,610.93	1,938.72	2,447.31	760.08	1,013.44	3,405.48
Records Outside Testing	13,846.14	15,256.66	12,593.00	10 242 62	12 700 16	14 110 00
Potlatch Payments	13,840.14	15,250.00	12,593.00	10,342.62	13,790.16	14,119.92
Telephone	1,195.75	1,264.83	1,129.00	1,422.44	1,896.59	1,960.00
Misc Capital Exp Work in Prog	1,100.70	1,204.00	1,125.00	68,283.20	91,044.27	1,900.00
Misc Capital Expenditures				00,200.20	-	0
Laboratory Supplies	6,194.32	4,698.88	4,791.47	4,324.93	5,766.57	5,709.91
Laboratory Certification	3,676.12	3,231.80	2,923.00	606.29	808.39	3,550.38
Chemicals	19,517.68	19,628.00	38,711.06	45,774.02	61,032.03	47,025.00
DCS Support Contract	2,395.74	3,196.06	2,356.06		-	3,000.00
Blowers & Air Systems	6,748.87	23,245.40	7,835.47	8,592.06	11,456.08	12,009.94
Aerators	13,916.64	18,810.11	20,406.96	14,214.27	18,952.36	19,979.91
Secondary Clarifiers	8,144.81	3,360.13	3,241.78	2,652.40	3,536.53	6,111.00
Waste Activated Sludge	4,054.53	4,504.55	1,581.41	9,404.09	12,538.79	5,354.99
Pumps	6,795.34	8,071.57	8,865.76	1,724.99	2,299.99	10,709.96
Chlorination System Additive System	4,682.33 330.09	2,181.74 75.92	7,190.71	3,995.21 140.41	5,326.95	4,097.50
Laboratory Equipment	4,698.24	1,911.64	1,235.24	140.41	187.21 -	1 666 52
Plant Vehicles	4,030.24	1,311.04	146.40	747.03	996.04	1,666.53 3,123.37
Electric Motors & Controls	2,338.24	3,749.70	12,091.03	3,048.86	4,065.15	4,798.77
Instrumentation	3,901.02	694.77	2,198.47	0,010.00	-	2,648.58
Building & Grounds	33,247.37	39,440.00	25,929.86	16,841.92	22,455.89	23,499.93
Snowplowing		938.82	280.90	340.56	454.08	1,153.42
Maintenance Inspections	1,075.43	1,888.52	764.44	3,495.62	4,660.83	1,931.22
Sludge Dredging of A Cells					-	
Sludge Dredging					-	
Power Purchased (Indusrial)	648,355.65	661,900.42	869,497.82	775,716.10	1,034,288.13	775,319.92
Utilities - Use Tax (Industrial)	4= 040 0=					
Water Purchased (Industrial)	15,310.85	20,407.02	37,265.05	33,262.55	44,350.07	15,225.10
Power Purchased (Domestic)	277,742.07	270,162.55	327,546.54	272,701.06	363,601.41	324,999.97
Utilities - Use Tax (Domestic)	6,560.82	8,329.16	14,195.40	11,672.72	15 562 62	4 567 60
Water Purchased (Domestic) Total Secondary Waste Treatment	1,407,205.78	1,457,512.69	1,663,966.25	1,496,641.04	15,563.63 1,995,521.39	4,567.60 1,559,242.25
Total Secondary Waste Treatment	1,407,203.70	1,437,312.03	1,003,300.23	1,430,041.04	1,995,521.59	1,009,242.20
Total WWTP Expenses	4,058,038.50	4,073,422.93	3,873,885.49	3,397,716.96	4,583,586.31	3,868,260.58
	.,,	1,070,122.00	0,070,000.10	0,007,710.00	1,000,000.01	0,000,200.00
Domestic Portion - Secondary Plan	(422,020.07)	(423,425.33)	(456,209.17)	(463, 154.06)	(617,538.75)	(467,772.68)
Domestic Portion - WWTP SCB	(9,716.00)	(9,992.07)	(8,677.69)	(19,782.93)	(26,377.24)	(17,262.52)
Domestic Portion - Sludge Disposa	(140,403.94)	(50,293.08)	(50,293.08)	(74,763.91)	(99,685.21)	(45,589.43)
_						
Net WasteWater Treatment Plant I	3,485,898.49	3,589,712.45	3,358,705.55	2,840,016.06	3,839,985.11	3,337,635.95
Other Revenues Demand Pmt/From Deferred Revenues Demand Pmt/2001A WW Rev Bond Demand Pmt/2006A GO WW Rev B						
Demand Pmt/2009A GO WW Rev Demand Pmt/2009E PFA Note	105,000.50 1,180,548.00	(0.50) 1,215,432.00	1,117,721.58		-	0.00
Demand Pmt/2011A GO WW Rev	399,483.27	412,971.54	420,769.17		-	
Demand Pmt/2013C GO Utility Bo	134,276.00	140,000.22	118,880.21	205,550.00	274,066.67	0.00
Demand Pmt/2021C GO Utility Bond		00 50 1 00				0.00
Demand Pmt / 3018 Duran Truck	30,387.77	33,584.99	05 504 04		-	
Demand Pmt / 2018 Dump Truck	23,961.55	25,157.71	25,564.64		=	
Demand Pmt / 2018 Water Truck Interest Rev - Financial Assurance	29,233.26	30,692.58	31,189.04		-	
Interest Rev - Financial Assurance Interest Rev - 2001A Bonds Dem					-	
					-	

	2019	2020	2021	2022	2022	2023
_	Actual	Actual	Actual	YTD Sept	Forecast	Budget
Interest Rev - 2006A Bonds Dem					-	
Interest Rev - 2009A Bonds Dem	5,116.25				-	
Interest Rev - 2009E PFA Dem	423,988.19	390,579.77	366,877.88	165,309.31	330,618.62	293,294.57
Interest Rev - 2011A Bonds Dem	41,089.64	28,244.72	15,245.00		-	
Interest Rev - 2013C Bonds Dem	67,892.23	63,537.54	60,834.67		-	26,362.50
Interest Rev - 2021C Bonds Dem						10,468.75
Interest Rev - JD Loader Lease	953.26	151.19			-	
Interest Rev - 2018 Dump Truck	3,000.47	1,765.86	1,318.57		-	
Interest Rev - 2018 Water Truck	3,660.59	2,154.36	1,608.66		-	
Bond Fees Revenue						1,500.00
Primary PLT Relocation Revenue					-	
EPA Stag Grant					-	
Grant Revenues	10,000.00	445,671.73	610.00		-	
Contribution City of GR		75,000.00			-	
Customer Contributions	117,794.71	339,821.69	32,686.88		_	
Total Other Revenues	2,576,385.69	3,204,765.40	2,193,306.30	370,859.31	604,685.29	331,625.82
Other Expenses						
Interest on LT Debt - 2001A Bonds						
Interest on LT Debt - 2006A Bonds						
Interest on LT Debt - 2009A Bonds	4,716.25					
Interest on LT Debt - 2009E PFA N	461,788.35	424,137.59	384,864.88	65,187.26	86,916.35	319,493.00
Interest on LT Debt - 2011A Bonds	46,269.58	32,020.00	16,041.67			
Interest on LT Debt - 2013C Bonds	67,168.70	63,037.54	57,168.00	8,937.21	11,916.28	26,362.50
Interest on LT Debt - 2021C Bonds	1 000 10	1=1.10				10,468.75
Interest on Lease Payable - 2017 I	1,082.43	151.19	400.00		-	
Interest on Lease Payable - 2018 [3,000.47	1,765.86	469.63		-	
Interest on Lease Payable - 2018 \	3,660.59	2,154.36	572.95		-	
Capitalized Interest	• · · · · · · · · · · · · · · · · · · ·				-	
Bond Fees - 2001A WW Revenue B					-	
Bond Fees - 2006A GO WW Reven		01111			-	
Bond Fees - 2009A GO WW Rev I	692.31	211.11	4 000 00		-	4 000 00
Bond Fees - 2009E PFA Note	1,600.00	1,600.00	1,600.00		-	1,000.00
Bond Fees - 2011A GO WW Rev F	817.31	736.11	725.00		-	
Bond Fees - 2012D GO Utility Rev	700.04	74444	000.00		-	500.00
Bond Fees - 2013C GO Utility Bon	792.31	711.11	200.00		-	500.00
Amort Debt Disc & Exp - 2001A Bor						
Amort Debt Disc & Exp - 2006A Bor						
Amort Debt Disc & Exp - 2009A Bo	2,876.06	6 402 00	6 402 00			C 402.00
Amort Debt Disc & Exp - 2009E Both Amort Debt Disc & Exp - 2011A Both	6,493.08	6,493.08	6,493.08		-	6,493.08
	8,264.16 3,456.12	8,264.16 3,456.12	7,575.48 3,456.12		-	2.456.40
Amort Debt Disc & Exp - 2013C Bo	and the second s	to the control of the	to the same than the same to the same		1,600,000.00	3,456.12
Depreciation Expense - WWTP Amortization Expense, Intangibles	1,595,234.73	1,596,768.60	1,588,891.95		1,000,000.00	1,600,000.00
Contributions Refunded						
Gain of Asset Disposal	(6,100.00)					
Loss on Asset Disposal (Secondary)		1,671.75	1,253.80			
Loss on Disposition of Property	,	1,071.75	1,233.60		-	
Transfer Out to WW Collection						(26 100 42)
Other Deduct - Loss on Investment						(26,198.43)
Total Other Expenses	2,201,812.45	2,143,178.58	2,069,312.56	74,124.47	1,698,832.63	1,941,575.02
	,,,,	2,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2,000,012.00	7 13 12-13-17	1,000,002.00	1,011,070.02
Wastewater Treatment Net Income	374,573.24	1,063,463.32	119,712.14	204,781.23	(1,270,049.18)	(1,609,949.20)
	-				,	

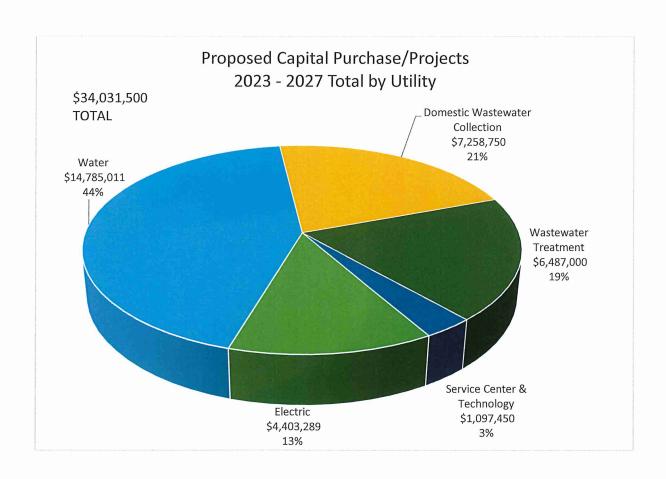
Grand Rapids Public Utilities Commission Capital Plan 2023 thru 2027

DEPARTMENT SUMMARY

Department		2023	2024	2025	2026	2027	Total
1-Electric	"	866,440	871,883	882,490	888,264	894,212	4,403,289
2-Water		7,283,345	2,533,575	1,599,580	1,478,511	1,890,000	14,785,011
3-Wastewater Collection		2,257,148	1,181,067	784,100	2,261,435	775,000	7,258,750
4a-WWT Domestic		57,000	30,000		15,000		102,000
4b-WWT Screenhouse		24,000	36,000	12,000	1,612,000		1,684,000
4c-WWT Primary Plant		172,000	78,000	28,000	28,000	28,000	334,000
4d-WWT Sludge Disposal		268,000	18,000	18,000	18,000	18,000	340,000
4e-WWT Service Center		54,000	65,000				119,000
4f-WWT Secondary Treatment		575,000	415,000	285,000	1,050,000	1,583,000	3,908,000
5-Technology		335,000	85,000	40,000			460,000
6-Service Center		477,450	100,000	20,000	20,000	20,000	637,450
	TOTAL	12,369,383	5,413,525	3,669,170	7,371,210	5,208,212	34,031,500







Grand Rapids Public Utilities Commission Capital Plan

2023 thru 2027

PROJECTS BY DEPARTMENT

Department	Project #	Priority	2023	2024	2025	2026	2027	Total
1-Electric								
Distribution System Services	ELEC2701	1					40,000	40,000
Electric System Reliability Upgrades	ELEC2414	2		100,000				100,000
Distribution System Transformers	ELEC2506	1			150,000			150,000
Crystal Springs Conversion	ELEC2315	1	146,000					146,000
Distribution System Transformers	ELEC2606	1				150,000		150,000
Distribution System Transformers	ELEC2706	1					150,000	150,000
Purchase of electric AMI meters	ELEC2507	1			26,523			26,523
SW 1st Ave Conversion	ELEC2317	1	30,000					30,000
Purchase of electric AMI meters	ELEC2607	1				27,318		27,318
Distribution System Duel Fuel Services	ELEC2702	1					2,881	2,881
Purchase of electric AMI meters	ELEC2707	1					28,138	28,138
Backyard Machine	ELEC2318	2	90,000					90,000
Crystal Springs Conversion	ELEC2415	1		110,000				110,000
Convert SW Grand Rapids to Underground	ELEC2510	1			200,000			200,000
Distribution System Services	ELEC2601	1				40,000		40,000
Inspect and replace power poles	ELEC2311	1	50,000					50,000
Distribution System Duel Fuel Services	ELEC2502	1	,		2,716			2,716
Distribution System Duel Fuel Services	ELEC2602	1			-/	2,797		2,797
Overhead to Underground Conversions	ELEC2713	1					400,000	400,000
Overhead to Underground Conversions	ELEC2613	1				200,000	,	200,000
Overhead to Underground Conversions	ELEC2513	1			200,000			200,000
Convert 7200 volt systems to 23 Kv	ELEC2712	1			,		100,000	100,000
Convert 7200 volt systems to 23 Kv	ELEC2612	1				100,000	100,000	100,000
Convert 7200 volt systems to 23 Kv	ELEC2512	1			100,000	100,000		100,000
Inspect and replace power poles	ELEC2711	1			100,000		56,275	56,275
Inspect and replace power poles	ELEC2611	1				54,637	00,270	54,637
Inspect and replace power poles	ELEC2511	1			53,045	01,001		53,045
Convert SW Grand Rapids to Underground	ELEC2610	1			33,043	200,000		200,000
Distribution System Services	ELEC2501	1			40,000	200,000		40,000
Distribution System Security Lighting	ELEC2303	1	13,880		40,000			13,880
Distribution System Security Lighting	ELEC2503	1	10,000		14,725			14,725
Distribution System Security Lighting	ELEC2603	1			14,725	15,167		15,167
Distribution System Security Lighting	ELEC2703	1				13,107	15,622	15,622
	ELEC2703	1			63,654		13,022	
Overhead power line replacements and repairs Replace Truck 63	ELEC2304 ELEC2413	2		200,000	03,034			63,654
-		1		200,000		65 564		200,000
Overhead power line replacements and repairs	ELEC2604 ELEC2704	1				65,564	67 524	65,564 67,531
Overhead power line replacements and repairs Underground power line replacements and repairs		1			21 007		67,531	67,531
	ELEC2505 ELEC2605	1			31,827	20 704		31,827
Underground power line replacements and repairs		1				32,781	22 765	32,781 32,785
Underground power line replacements and repairs	ELEC2705	1	40.000				33,765	33,765
Distribution System Services	ELEC2301	1	40,000	40.000				40,000
Distribution System Services	ELEC2401	1	100.000	40,000				40,000
Electric System Reliability Upgrades	ELEC2314	2	100,000	0.007				100,000
Distribution System Duel Fuel Services	ELEC2402	1		2,637				2,637
Inspect and replace power poles	ELEC2411	1		51,500				51,500
Distribution System Security Lighting	ELEC2403	1		14,296				14,296

Department	Project #	Priority	2023	2024	2025	2026	2027	T
Overhead power line replacements and repairs	ELEC2304	1	60,000					60,00
Overhead power line replacements and repairs	ELEC2404	1		61,800				61,80
Underground power line replacements and repairs	ELEC2305	1	30,000					30,000
Distribution System Transformers	ELEC2306	1	150,000					150,000
Distribution System Transformers	ELEC2406	1		150,000				150,000
Purchase of electric AMI meters	ELEC2307	1	25,000					25,000
Purchase of electric AMI meters	ELEC2407	1		25,750				25,750
Underground power line replacements and repairs	ELEC2405	1		30,900				30,900
Replace Truck 84	ELEC2410	1		35,000				35,000
Convert 7200 volt systems to 23 kV	ELEC2312	1	100,000	,				100,000
Convert 7200 volt systems to 23 kV	ELEC2412	1	,	50,000				50,000
Maple Street Conversion	ELEC2316	1	29,000	00,000				29,00
Distribution System Duel Fuel Services	ELEC2302	1	2,560					2,560
1-Electric Total	LLLOZOUZ	' -	866,440	871,883	882,490	888,264	894,212	4,403,289
1-Electric Total		-	000,440		002,490	000,204	034,212	4,403,203
2-Water								
High Service Pump Control Improvement	WATR2005	2	30,000					30,000
NW Street Reconstruction	WATR1903	2			157,080			157,08
Natermain minor additions & replacements	WATR1807	4	30,000	30,000	40,000	40,000	50,000	190,00
6th Street NE (2nd Ave5th Ave.)	WATR2201	2				119,239		119,23
oth Ave. NE (TH 2 to 5th St NE)	WATR2001	3				35,772		35,77
1th St. NE (2nd to 3rdAve.)	WATR1904	3		83,600				83,60
Ha-Car Neighborhood SE, Phase 1	WATR2101	3			362,500			362,50
Fire Hydrant Repairs	WATR2209	2	35,000	25,000	20,000	20,000	20,000	120,00
Vell 2 Rehabilitation	WATR2004	1	55,000					55,00
NEW WELL	WATR2401	3		590,000				590,00
Sth Ave NW (4th to 5th st)	WATR2301	2				81,000		81,00
Hydrant Meters	WATR2203	3	8,700					8,70
VTP Sewage Ejector System	WATR2206	3	20,000					20,00
VTP Turbidity Meters	WATR2207	3	30,000					30,000
VTP Aerator Media	WATR2208	3	00,000	11,000				11,000
3rd Ave NE (5th to 8th Str.) & 7th Str. NE (3-5)	WATR2002	3		235,375				235,378
Water Plant Renovation	WATR2002 WATR2213	2	4,943,400	200,010				4,943,400
1th St NE (2nd- 3rd ave)			4,343,400	02 600				
	WATR2003	3	15.000	83,600				83,60
Replace Fiber (SH to City Hall)	WATR2309	2	15,000	00.000	00.000	00.000	00.000	15,000
VTP Valve Updates	WATR2304	2	20,000	20,000	20,000	20,000	20,000	100,000
Curb Stop Replacements	WATR2305	2	100,000	150,000	150,000	150,000	150,000	700,00
Vell 1 Rehabilitation	WATR2402	1		45,000				45,00
City Wdie Overlays- Sylvan	WATR2306	2	1,202,000	510,000				1,712,00
la-car Neighborhood, Phase 2	WATR2601	3				362,500		362,50
City Project	WATR2702	2					250,000	250,00
Booster Station Panel View	WATR2302	2	30,000					30,000
Radio Communication Upgrades	WATR2308	2	30,000					30,000
OWER PAINTING	WATR2703	2					700,000	700,000
South Tower Coating Repairs	WATR2310	1	150,000					150,000
lorth Tower Coating Repairs	WATR2501	1			150,000			150,000
liver Road Roundabout	WATR2311	1	144,245					144,24
Category 1 Repairs	WATR2312	2	350,000	350,000	350,000	400,000	400,000	1,850,000
E-E-H Projects from Study	WATR2403	n/a		400,000	350,000	250,000	300,000	1,300,000
Paradise Park	WATR2313	2	85,000					85,000
ackwash Valve	WATR2307	2	5,000					5,000
2-Water Total			7,283,345	2,533,575	1,599,580	1,478,511	1,890,000	14,785,011
3-Wastewater Collection								
Manhole Replacements	WWCO1805	2	20,000	75,000	100,000	25,000	25,000	245,000

Department	Project #	Priority	2023	2024	2025	2026	2027	Item 3.
Spare Jetting Camera	WWC02303	3	60,000					60,000
Lift Station 2 Forcemain Replacement	WWC02311	2	150,000					150,000
S-E-H SE 11th St Sanitary Sewer Replacement	WWCO2402	2				1,300,000		1,300,000
Lift Station 5 Forcemain Replacement	WWCO2602	2				65,000		65,000
Ha-Car SE Neighborhood, Phase 1	WWCO2021	2				250,000		250,000
City Wide Overlays-Rural	WWC02202	2		60,000				60,000
City Project	WWCO2702	2					250,000	250,000
City Wide Overlays- Sylvan	WWC02310	2	1,010,000	511,000				1,521,000
Lift Station 2 Forcemain Replacement	WWC02704	2			140,000			140,000
Lift Station 9 Controls Update	WWCO2304	1	35,000					35,000
Lift Station 2 Pump	WWCO2305	1	25,000					25,000
Lift Station 2 Flow Meter	WWCO2309	2	8,000					8,000
5th Ave. NE (T.H. #2 to 5th Str. NE)	WWCO2001	2				66,435		66,435
River Road Roundabout	WWC02312	1	369,848					369,848
Lift Station 6 I/I Repairs	WWC02307	1	35,000					35,000
Replace Truck 61	WWC02701	3					60,000	60,000
Lift Station Pumps	WWCO2005	1	35,000	35,000	38,000	40,000	40,000	188,000
Lift Station 6 Rehab	WWCO2306	1	30,000				,	30,000
Lift Station 9 Controls Update	WWC02203	1	•		26,500			26,500
Lift Station 7 Controls Update	WWC02301	1	27,300		0.000.0 P.000 000.00			27,300
NW Street Reconstruction	WWCO1904	2	,		114,600			114,600
Category 1 Repairs	WWCO2308	2	350,000	350,000	350,000	400,000	400,000	1,850,000
6th Ave NW (4th-5th)	WWCO2302	2	52,000			ic ne solo y ne rescen	1 HOUSE # 10 HOUSE	52,000
11th Ave NE (5th St NE - 7th St NE)	WWCO2003	2	,			115,000		115,000
3rd Ave.NE (4th - 8th) &7th st (3rd -5th)	WWCO2002	2		25,000		,		25,000
6th Street NE (2nd Ave 5th Ave)	WWC02201	2		110,067				110,067
Lift Station 8 Controls Update	WWCO2601	1	35,000	,				35,000
Mains and Services	WWCO1804	4	15,000	15,000	15,000			45,000
3-Wastewater Collection Total		_	2,257,148	1,181,067	784,100	2,261,435	775,000	7,258,750
4a-WWT Domestic								
Trash Compactor	WWD02302	2	50,000					50,000
VFD Upgrades On Lift Pumps	WWD02401	2	00,000	30,000		15,000		45,000
Flow Meter for Domestic Flow	WWD02301	2	7,000	00,000		10,000		7,000
4a-WWT Domestic Total	***************************************	_	57,000	30,000		15,000		102,000
		_	,	,				
4b-WWT Screenhouse								
Replace Fiber SH to Pluemers	WWSH2302	2	12,000					12,000
Drive Gear Boxes for Parkson Screens	WWSH2401	2		16,000				16,000
Gear Box for Bark Dumper	WWSH2402	2		8,000				8,000
Industrial Screen House Upgrades	WWSH1801	4				1,600,000		1,600,000
VFD Upgrades for Lift Pumps	WWSH2301	2	12,000	12,000	12,000	12,000		48,000
4b-WWT Screenhouse Total		_	24,000	36,000	12,000	1,612,000		1,684,000
4c-WWT Primary Plant								
Forks for Front End Loader	WWPP2202	3	12,000					12,000
Demo of Old Primary Plant	WWPP2001	3	50,000					50,000
Sludge Screw Conveyor - Screw Replacement	WWPP2103	2	50,000	50,000				100,000
Screw Press VFD	WWPP2302	2	8,000	23,000				8,000
Primary Plant Sludge Pumps	WWPP2303	2	28,000	28,000	28,000	28,000	28,000	140,000
Primary Flant Gladge Fump VFD's	WWPP2301	2	24,000	20,000	20,000	_0,000	_5,550	24,000
			172,000	78,000	28,000	28,000	28,000	334,000
4c-WWT Primary Plant Total		_	172,000	70,000	20,000	20,000	20,000	

Department	Project #	Priority	2023	2024	2025	2026	2027	Item 3.
4d-WWT Sludge Disposal								-
Landill Phase Pumps Landill Cover Work Phase 1-4, Kettle D	WWSD2302 WWSD2301	2	18,000 250,000	18,000	18,000	18,000	18,000	90,000 250,000
4d-WWT Sludge Disposal Total		_	268,000	18,000	18,000	18,000	18,000	340,000
4e-WWT Service Center								
Replace Fiber ASV to CSC	WWSC2301	2	54,000					54,000
Replace Truck 78	WWSC2401	2		65,000				65,000
4e-WWT Service Center Total			54,000	65,000				119,000
4f-WWT Secondary Treatment								
Secondary Aeration Basin Mixer Repairs	WWSP1804	2	175,000	135,000	135,000	175,000	175,000	795,000
B1 Pond Dredging	WWSP1802	2		, , , , , , , , , , , , , , , , , , , ,	150,000		,	150,000
Secondary Air Header Piping	WWSP1701	2			,	875,000		875,000
Rebuild Blower Number 3	WWSP1702	2		280,000				280,000
Septic Hauler Dump Station	WWSP2301	3	350,000					350,000
Blower Building and Med Voltage Gear	WWSP2202	2					1,408,000	1,408,000
Bleach Tank Repair/Replacement	WWSP2302	1	50,000					50,000
4f-WWT Secondary Treatment Total			575,000	415,000	285,000	1,050,000	1,583,000	3,908,000
5-Technology								
Miscellaneous Computer Hardware	CITE2309	4	2,000					2,000
NEW ERP SOFTWARE - UB AR AP PROJ PYRL FS BUDG	CITE2310	1	250,000					250,000
Miscellaneous Computer Hardware	CITE2509	4			2,000			2,000
Software Upgrades	CITE2508	2			10,000			10,000
Mobile Computers	CITE2503	4			4,000			4,000
Personal Computer Replacements	CITE2502	3			4,000			4,000
Network Switch Upgrades	CITE2506	3			12,000			12,000
Software Upgrades	CITE2308	2	10,000					10,000
Computer Backup Hardware	CITE2507	1			8,000			8,000
Miscellaneous Computer Hardware	CITE2409	4		2,000				2,000
Personal Computer Replacements	CITE2402	3	4.000	4,000				4,000
Personal Computer Replacements	CITE2302	3	4,000	10.000				4,000
Software Upgrades	CITE2408	2	4.000	10,000				10,000
Mobile Computers Mobile Computers	CITE2303 CITE2403	4 4	4,000	4.000				4,000
Server Upgrades	CITE2403 CITE2304	2	65,000	4,000				<i>4</i> ,000 65,000
Server Upgrades	CITE2404	3	03,000	65,000				65,000
5-Technology Total		-	335,000	85,000	40,000			460,000
6-Service Center								
Building Security Upgrade	CSCW2102	3	33,000					33,000
CSC Lighting Upgrades - Garage Area	CSCW2102 CSCW2023-3	2	10,450					10,450
Red Rubber Flooring Replacement	CSCW2302	2	125,000					125,000
Misc CSC CIP	CSCW2700	n/a	.20,000				20,000	20,000
Building Landscaping	CSCW2103	4	14,000				,	14,000
North Roof Replacement	CSCW2201	2		80,000				80,000
Misc CSC CIP	CSCW2500	n/a			20,000			20,000
Misc CSC CIP	CSCW2600	n/a				20,000		20,000
South Roof Replacement	CSCW2301	2	275,000					275,000
South Gate Replacement	CSCW2022	2	20,000					20,000

Department .		Project #	Priority	2023	2024	2025	2026	2027	Item 3.
Misc CSC CIP		CSCW2400	n/a		20,000				20,000
	6-Service Center Total			477,450	100,000	20,000	20,000	20,000	637,450
	GRAND TOTAL			12,369,383	5,413,525	3,669,170	7,371,210	5,208,212	34,031,500

Grand Rapids Public Utilities Commission Capital Plan 2023 thru 2027

FUNDING SOURCE SUMMARY

Source	2023	2024	2025	2026	2027	Total
City Contributions	10,450					10,450
Customer Contributions-Cohasset	5,157	6,150	6,071	17,381	4,011	38,770
Customer Contributions-LaPrairie	3,051	3,639	678	10,283	2,373	20,024
Customer Contributions-UPM	642,180	542,505	295,380	2,479,060	1,152,660	5,111,785
Debt	5,355,400	2,121,000	1,190,000	2,415,000	1,100,000	12,181,400
Grants	2,500,000					2,500,000
Reserves-Unrestricted	94,640	60,140	52,015	62,556	47,556	316,907
Rplcmt Fund-Elec share/business	358,370	104,870	31,720	13,000	13,000	520,960
Rplcmt Fund-Electric Infrastructure	866,556	870,983	882,490	888,264	894,212	4,402,505
Rplcmt Fund-Water Infrastructure	695,445	672,575	899,580	828,511	1,190,000	4,286,111
Rplcmt Fund-Water share/business	191,790	34,690	11,040	4,000	34,000	275,520
Rplcmt Fund-WWC Infrastructure	880,764	366,203	282,276	650,155	737,400	2,916,798
Rplcmt Fund-WWC share/business	95,696	24,870	7,920	3,000	33,000	164,486
GRAND TOTAL	11,699,499	4,807,625	3,659,170	7,371,210	5,208,212	32,745,716

Grand Rapids Public Utilities Commission Capital Plan

2023 thru 2027

PROJECTS BY FUNDING SOURCE

Source	Project #	Priority	2023	2024	2025	2026	2027	Total
City Contributions								
CSC Lighting Upgrades - Garage Area	CSCW2023-3	2	10,450					10,450
City Contributions T	otal		10,450					10,450
Customer Contributions-Cohasset								
Secondary Air Header Piping	WWSP1701	2				13,370		13,370
Rebuild Blower Number 3	WWSP1702	2		3,056		,,,,,,		3,056
B1 Pond Dredging	WWSP1802	2		,	1,146			1,146
Secondary Aeration Basin Mixer Repairs	WWSP1804	2	4,011	3,094	4,925	4,011	4,011	20,052
Bleach Tank Repair/Replacement	WWSP2302	1	1,146					1,146
Customer Contributions-Cohasset T	'otal	_	5,157	6,150	6,071	17,381	4,011	38,770
Customer Contributions-LaPrairie								
Secondary Air Header Piping	 WWSP1701	2				7,910		7,910
Rebuild Blower Number 3	WWSP1702	2		1,808				1,808
B1 Pond Dredging	WWSP1802	2			678			678
Secondary Aeration Basin Mixer Repairs	WWSP1804	2	2,373	1,831		2,373	2,373	8,950
Bleach Tank Repair/Replacement	WWSP2302	1	678	•		•	,	678
Customer Contributions-LaPrairie T	otal	_	3,051	3,639	678	10,283	2,373	20,024
Customer Contributions-UPM								
Personal Computer Replacements	CITE2302	3	1,320					1,320
Server Upgrades	CITE2304	2	0					0
Software Upgrades	CITE2308	2	2,500					2,500
Miscellaneous Computer Hardware	CITE2309	4	500					500
Personal Computer Replacements	CITE2402	3		1,320				1,320
Server Upgrades	CITE2404	3		16,250				16,250
Software Upgrades	CITE2408	2		2,500				2,500
Miscellaneous Computer Hardware	CITE2409	4		500				500
Personal Computer Replacements	CITE2502	3			1,320			1,320
Network Switch Upgrades	CITE2506	3			3,000			3,000
Computer Backup Hardware	CITE2507	1			2,000			2,000
Software Upgrades	CITE2508	2			2,500			2,500
Miscellaneous Computer Hardware	CITE2509	4			500			500
Demo of Old Primary Plant	WWPP2001	3	50,000					50,000
Sludge Screw Conveyor - Screw Replacement	WWPP2103	2	50,000	50,000				100,000
Forks for Front End Loader	WWPP2202	3	12,000					12,000
Primary Sludge Pump VFD's	WWPP2301	2	24,000					24,000
Screw Press VFD	WWPP2302	2	8,000					8,000
Primary Plant Sludge Pumps	WWPP2303	2	28,000	28,000	28,000	28,000	28,000	140,000
Replace Fiber ASV to CSC	WWSC2301	2	37,800	,	,	,	,,	37,800
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Source	Project #	Priority	2023	2024	2025	2026	2027	T Item 3.
Replace Truck 78	WWSC2401	2		56,875				56,875
Landill Cover Work Phase 1-4, Kettle D	WWSD2301	2	230,000					230,000
Landill Phase Pumps	WWSD2302	2	16,560	16,560	16,560	16,560	16,560	82,800
Industrial Screen House Upgrades	WWSH1801	4				1,600,000		1,600,000
VFD Upgrades for Lift Pumps	WWSH2301	2	12,000	12,000	12,000	12,000		48,000
Replace Fiber SH to Pluemers	WWSH2302	2	12,000					12,000
Drive Gear Boxes for Parkson Screens	WWSH2401	2		16,000				16,000
Gear Box for Bark Dumper	WWSH2402	2		8,000				8,000
Secondary Air Header Piping	WWSP1701	2				700,000		700,000
Rebuild Blower Number 3	WWSP1702	2		240,000				240,000
B1 Pond Dredging	WWSP1802	2			135,000			135,000
Secondary Aeration Basin Mixer Repairs	WWSP1804	2	122,500	94,500	94,500	122,500	122,500	556,500
Blower Building and Med Voltage Gear	WWSP2202	2					985,600	985,600
Bleach Tank Repair/Replacement	WWSP2302	1	35,000					35,000
Customer Contributions-UPM Tota	al		642,180	542,505	295,380	2,479,060	1,152,660	5,111,785
Debt								
Water Plant Renovation	WATR2213	2	2,443,400					2,443,400
City Wdie Overlays- Sylvan	WATR2306	2	1,202,000	510,000				1,712,000
Category 1 Repairs	WATR2312	2	350,000	350,000	350,000	400,000	400,000	1,850,000
S-E-H Projects from Study	WATR2403	n/a		400,000	350,000	250,000	300,000	1,300,000
Category 1 Repairs	WWCO2308	2	350,000	350,000	350,000	400,000	400,000	1,850,000
City Wide Overlays- Sylvan	WWC02310	2	1,010,000	511,000				1,521,000
S-E-H SE 11th St Sanitary Sewer Replacement	WWCO2402	2				1,300,000		1,300,000
Lift Station 5 Forcemain Replacement	WWCO2602	2				65,000		65,000
Lift Station 2 Forcemain Replacement	WWCO2704	2 _			140,000			140,000
Debt Tota	ıl	-	5,355,400	2,121,000	1,190,000	2,415,000	1,100,000	12,181,400
Grants								
Water Plant Renovation	WATR2213	2 _	2,500,000				14.00.000	2,500,000
Grants Tota	ıI	-	2,500,000					2,500,000
Reserves-Unrestricted								
Flow Meter for Domestic Flow	WWDO2301	2	7,000					7,000
Trash Compactor	WWDO2302	2	50,000					50,000
VFD Upgrades On Lift Pumps	WWDO2401	2		15,000	15,000	15,000		45,000
Replace Fiber ASV to CSC	WWSC2301	2	16,200					16,200
Replace Truck 78	WWSC2401	2		8,125				8,125
Landill Cover Work Phase 1-4, Kettle D	WWSD2301	2	20,000					20,000
Landill Phase Pumps	WWSD2302	2	1,440	1,440	1,440	1,440	1,440	7,200
Secondary Aeration Basin Mixer Repairs	WWSP1804	2		35,575	35,575	46,116	46,116	163,382
Reserves-Unrestricted Total	I	_	94,640	60,140	52,015	62,556	47,556	316,907
Rplcmt Fund-Elec share/business								
Personal Computer Replacements	 CITE2302	3	1,680					1,680
Mobile Computers	CITE2303	4	2,000					2,000
Server Upgrades	CITE2304	2	45,500					45,500
Software Upgrades	CITE2308	2	4,700					4,700
Miscellaneous Computer Hardware	CITE2309	4	940					940
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Source	Project #	Priority	2023	2024	2025	2026	2027	T Item 3
Personal Computer Replacements	CITE2402	3		1,680				1,680
Mobile Computers	CITE2403	4		2,000				2,000
Server Upgrades	CITE2404	3		30,550				30,550
Software Upgrades	CITE2408	2		4,700				4,700
Miscellaneous Computer Hardware	CITE2409	4		940				940
Personal Computer Replacements	CITE2502	3			1,680			1,680
Mobile Computers	CITE2503	4			2,000			2,000
Network Switch Upgrades	CITE2506	3			5,640			5,640
Computer Backup Hardware	CITE2507	1			3,760			3,760
Software Upgrades	CITE2508	2			4,700			4,700
Miscellaneous Computer Hardware	CITE2509	4			940			940
South Gate Replacement	CSCW2022	2	13,000					13,000
Building Security Upgrade	CSCW2102	3	21,450					21,450
Building Landscaping	CSCW2103	4	9,100					9,100
North Roof Replacement	CSCW2201	2		52,000				52,000
South Roof Replacement	CSCW2301	2	178,750					178,750
Red Rubber Flooring Replacement	CSCW2302	2	81,250					81,250
Misc CSC CIP	CSCW2400	n/a		13,000				13,000
Misc CSC CIP	CSCW2500	n/a			13,000			13,000
Misc CSC CIP	CSCW2600	n/a				13,000		13,000
Misc CSC CIP	CSCW2700	n/a					13,000	13,000
Rplcmt Fund-Elec share/business T	`otal		358,370	104,870	31,720	13,000	13,000	520,960
Rplcmt Fund-Electric Infrastructu	ıre							
Distribution System Services	ELEC2301	1	40,000					40,000
Distribution System Duel Fuel Services	ELEC2302	1	2,560					2,560
Distribution System Security Lighting	ELEC2303	1	13,996					13,996
Overhead power line replacements and repairs	ELEC2304	1	60,000					60,000
Underground power line replacements and repairs	ELEC2305	1	30,000					30,000
Distribution System Transformers	ELEC2306	1	150,000					150,000
Purchase of electric AMI meters	ELEC2307	1	25,000					25,000
Inspect and replace power poles	ELEC2311	1	50,000					50,000
Convert 7200 volt systems to 23 kV	ELEC2312	1	100,000					100,000
Electric System Reliability Upgrades	ELEC2314	2	100,000					100,000
Crystal Springs Conversion	ELEC2315	1	146,000					146,000
Maple Street Conversion	ELEC2316	1	29,000					29,000
SW 1st Ave Conversion	ELEC2317	1	30,000					30,000
Backyard Machine	ELEC2318	2	90,000					90,000
Distribution System Services	ELEC2401	1	00,000	40,000				40,000
Distribution System Duel Fuel Services	ELEC2402	1		2,637				2,637
Distribution System Security Lighting	ELEC2403	1		14,296				14,296
Overhead power line replacements and repairs	ELEC2404	1		61,800				61,800
Underground power line replacements and repairs	ELEC2405	1		30,000				30,000
Distribution System Transformers	ELEC2406	1		150,000				150,000
Purchase of electric AMI meters	ELEC2407	1		25,750				25,750
Replace Truck 84	ELEC2410	1		35,000				35,000
nspect and replace power poles	ELEC2411	1		51,500				51,500
Convert 7200 volt systems to 23 kV	ELEC2411 ELEC2412	1		50,000				50,000
Replace Truck 63	ELEC2412 ELEC2413	2		200,000				200,000
Electric System Reliability Upgrades	ELEC2413 ELEC2414	2		100,000				
Crystal Springs Conversion	ELEC2414 ELEC2415	1		110,000				100,000
	ELEC2413 ELEC2501	1		110,000	40.000			110,000
Distribution System Services Distribution System Duel Fuel Services	ELEC2501 ELEC2502	1			40,000			40,000
Distribution System Security Lighting	ELEC2502 ELEC2503	1			2,716 14,725			2,716
Journation dystem decurity Lighting	LLEUZJUJ	ı			14,720			14,725

Source	Project #	Priority	2023	2024	2025	2026	2027	T Item 3.
Overhead power line replacements and repairs	ELEC2504	1			63,654			63,654
Underground power line replacements and repairs	ELEC2505	1			31,827			31,827
Distribution System Transformers	ELEC2506	1			150,000			150,000
Purchase of electric AMI meters	ELEC2507	1			26,523			26,523
Convert SW Grand Rapids to Underground	ELEC2510	1			200,000			200,000
Inspect and replace power poles	ELEC2511	1			53,045			53,045
Convert 7200 volt systems to 23 Kv	ELEC2512	1			100,000			100,000
Overhead to Underground Conversions	ELEC2513	1			200,000			200,000
Distribution System Services	ELEC2601	1				40,000		40,000
Distribution System Duel Fuel Services	ELEC2602	1				2,797		2,797
Distribution System Security Lighting	ELEC2603	1				15,167		15,167
Overhead power line replacements and repairs	ELEC2604	1				65,564		65,564
Underground power line replacements and repairs	ELEC2605	1				32,781		32,781
Distribution System Transformers	ELEC2606	1				150,000		150,000
Purchase of electric AMI meters	ELEC2607	1				27,318		27,318
Convert SW Grand Rapids to Underground	ELEC2610	1				200,000		200,000
Inspect and replace power poles	ELEC2611	1				54,637		54,637
Convert 7200 volt systems to 23 Kv	ELEC2612	1				100,000		100,000
Overhead to Underground Conversions	ELEC2613	1				200,000		200,000
Distribution System Services	ELEC2701	1					40,000	40,000
Distribution System Duel Fuel Services	ELEC2702	1					2,881	2,881
Distribution System Security Lighting	ELEC2703	1					15,622	15,622
Overhead power line replacements and repairs	ELEC2704	1					67,531	67,531
Underground power line replacements and repairs	ELEC2705	1					33,765	33,765
Distribution System Transformers	ELEC2706	1					150,000	150,000
Purchase of electric AMI meters	ELEC2707	1					28,138	28,138
Inspect and replace power poles	ELEC2711	1					56,275	56,275
Convert 7200 volt systems to 23 Kv	ELEC2712	1					100,000	100,000
Overhead to Underground Conversions	ELEC2713	1					400,000	400,000
Rplcmt Fund-Electric Infrastructur		_	866,556	870,983	882,490	888,264	894,212	4,402,505
100	tai	_						
Rplcmt Fund-Water Infrastructure								
Watermain minor additions & replacements	WATR1807	4	30,000	30,000	40,000	40,000	50,000	190,000
NW Street Reconstruction	WATR1903	2			157,080			157,080
11th St. NE (2nd to 3rdAve.)	WATR1904	3		83,600				83,600
5th Ave. NE (TH 2 to 5th St NE)	WATR2001	3				35,772		35,772
3rd Ave NE (5th to 8th Str.) & 7th Str. NE (3-5)	WATR2002	3		235,375				235,375
11th St NE (2nd- 3rd ave)	WATR2003	3		83,600				83,600
Well 2 Rehabilitation	WATR2004	1	55,000					55,000
High Service Pump Control Improvement	WATR2005	2	30,000					30,000
Ha-Car Neighborhood SE, Phase 1	WATR2101	3			362,500			362,500
6th Street NE (2nd Ave5th Ave.)	WATR2201	2				119,239		119,239
Hydrant Meters	WATR2203	3	8,700					8,700
WTP Sewage Ejector System	WATR2206	3	20,000					20,000
WTP Turbidity Meters	WATR2207	3	30,000					30,000
Fire Hydrant Repairs	WATR2209	2	35,000	25,000	20,000	20,000	20,000	120,000
6th Ave NW (4th to 5th st)	WATR2301	2				81,000		81,000
Booster Station Panel View	WATR2302	2	30,000					30,000
WTP Valve Updates	WATR2304	2	20,000	20,000	20,000	20,000	20,000	100,000
Curb Stop Replacements	WATR2305	2	100,000	150,000	150,000	150,000	150,000	700,000
Backwash Valve	WATR2307	2	5,000					5,000
Radio Communication Upgrades	WATR2308	2	30,000					30,000
Replace Fiber (SH to City Hall)	WATR2309	2	7,500					7,500

Source	Project #	Priority	2023	2024	2025	2026	2027	Т	Item 3
South Tower Coating Repairs	WATR2310	1	150,000					18	50,000
River Road Roundabout	WATR2311	1	144,245					14	14,245
Well 1 Rehabilitation	WATR2402	1		45,000				4	15,000
North Tower Coating Repairs	WATR2501	1			150,000			15	50,000
Ha-car Neighborhood, Phase 2	WATR2601	3				362,500		36	62,500
City Project	WATR2702	2					250,000	25	50,000
TOWER PAINTING	WATR2703	2 _					700,000	70	00,000
Rplcmt Fund-Water Infrastructure Tota	al	_	695,445	672,575	899,580	828,511	1,190,000	4,28	36,111
Rplcmt Fund-Water share/business									
Personal Computer Replacements	CITE2302	3	600						600
Mobile Computers	CITE2303	4	1,000						1,000
Server Upgrades	CITE2304	2	9,750						9,750
Software Upgrades	CITE2308	2	1,700						1,700
Miscellaneous Computer Hardware	CITE2309	4	340						340
Personal Computer Replacements	CITE2402	3		600					600
Mobile Computers	CITE2403	4		1,000					1,000
Server Upgrades	CITE2404	3		11,050					1,050
Software Upgrades	CITE2408	2		1,700					1,700
Miscellaneous Computer Hardware	CITE2409	4		340					340
Personal Computer Replacements	CITE2502	3			600				600
Mobile Computers	CITE2503	4			1,000				1,000
Network Switch Upgrades	CITE2506	3			2,040				2,040
Computer Backup Hardware	CITE2507	1			1,360				1,360
Software Upgrades	CITE2508	2			1,700				1,700
Miscellaneous Computer Hardware	CITE2509	4			340				340
South Gate Replacement	CSCW2022	2	4,000						4,000
Building Security Upgrade	CSCW2102	3	6,600						6,600
Building Landscaping	CSCW2103	4	2,800						2,800
North Roof Replacement	CSCW2201	2		16,000					6,000
South Roof Replacement	CSCW2301	2	55,000						5,000
Red Rubber Flooring Replacement	CSCW2302	2	25,000						5,000
Misc CSC CIP	CSCW2400	n/a		4,000					4,000
Misc CSC CIP	CSCW2500	n/a			4,000				4,000
Misc CSC CIP	CSCW2600	n/a				4,000			4,000
Misc CSC CIP	CSCW2700	n/a					4,000		4,000
Paradise Park	WATR2313	2	85,000						5,000
Replace Truck 61	WWC02701	3					30,000		0,000
Rplcmt Fund-Water share/business Tota	I		191,790	34,690	11,040	4,000	34,000	27	5,520
Rplcmt Fund-WWC Infrastructure									
WTP Aerator Media	WATR2208	3		11,000				1	1,000
Replace Fiber (SH to City Hall)	WATR2309	2	7,500						7,500
Mains and Services	WWC01804	4	15,000	15,000	15,000				5,000
Manhole Replacements	WWC01805	2	20,000	75,000	75,000	25,000	25,000		0,000
NW Street Reconstruction	WWC01904	2	00.40 T.T		114,600	,	,,-		4,600
5th Ave. NE (T.H. #2 to 5th Str. NE)	WWCO2001	2			, - • •	66,435			6,435
3rd Ave.NE (4th - 8th) &7th st (3rd -5th)	WWC02002	2		25,000		30, 100			5,000
11th Ave NE (5th St NE - 7th St NE)	WWC02003	2		,		115,000			5,000
Lift Station Pumps	WWCO2005	1	35,000	35,000	38,000	40,000	40,000		8,000
Ha-Car SE Neighborhood, Phase 1	WWC02021	2	30,000	20,000	30,000	250,000	10,000		0,000
6th Street NE (2nd Ave 5th Ave)	WWC02201	2		110,067		230,000			0,067
(502201	-		5,551				, ,	0,007

Source	Project #	Priority	2023	2024	2025	2026	2027	T	Item 3
City Wide Overlays-Rural	WWC02202	2		60,000				(60,000
Lift Station 9 Controls Update	WWC02203	1			26,500			2	26,500
Lift Station 7 Controls Update	WWCO2301	1	27,300						27,300
6th Ave NW (4th-5th)	WWCO2302	2	52,000						52,000
Spare Jetting Camera	WWCO2303	3	60,000						50,000
Lift Station 2 Pump	WWCO2305	1	25,000						25,000
Lift Station 6 Rehab	WWCO2306	1	30,000						30,000
Lift Station 6 I/I Repairs	WWC02307	1	35,000						35,000
Lift Station 2 Flow Meter	WWC02309	2	8,000						8,000
Lift Station 2 Forcemain Replacement	WWC02311	2	150,000					1!	50,000
River Road Roundabout	WWC02312	1	369,848						69,848
City Project	WWC02702	2	,				250,000		50,000
Secondary Air Header Piping	WWSP1701	2				153,720	200,000		53,720
Rebuild Blower Number 3	WWSP1702	2		35,136		100,720			35,136
B1 Pond Dredging	WWSP1802	2		00,100	13,176				3,176
Secondary Aeration Basin Mixer Repairs	WWSP1804	2	46,116		10,110				16,116
Blower Building and Med Voltage Gear	WWSP2202	2	10,110				422,400		2,400
Rplcmt Fund-WWC Infrastructure Tota		-	880,764	366,203	282,276	650,155	737,400		6,798
represent a una 11 11 0 mm astracture 10ta		,		000,200	202,210	000,100	707,100	2,01	
Rplcmt Fund-WWC share/business									
Personal Computer Replacements	CITE2302	3	400						400
Mobile Computers	CITE2303	4	1,000						1,000
Server Upgrades	CITE2304	2	9,750						9,750
Software Upgrades	CITE2308	2	1,100						1,100
Miscellaneous Computer Hardware	CITE2309	4	220						220
Personal Computer Replacements	CITE2402	3		400					400
Mobile Computers	CITE2403	4		1,000					1,000
Server Upgrades	CITE2404	3		7,150					7,150
Software Upgrades	CITE2408	2		1,100					1,100
Miscellaneous Computer Hardware	CITE2409	4		220					220
Personal Computer Replacements	CITE2502	3			400				400
Mobile Computers	CITE2503	4			1,000				1,000
Network Switch Upgrades	CITE2506	3			1,320				1,320
Computer Backup Hardware	CITE2507	1			880				880
Software Upgrades	CITE2508	2			1,100				1,100
Miscellaneous Computer Hardware	CITE2509	4			220				220
South Gate Replacement	CSCW2022	2	3,000						3,000
Building Security Upgrade	CSCW2102	3	4,950						4,950
Building Landscaping	CSCW2103	4	2,100						2,100
North Roof Replacement	CSCW2201	2	,	12,000					2,000
South Roof Replacement	CSCW2301	2	41,250	,					1,250
Red Rubber Flooring Replacement	CSCW2302	2	18,750						8,750
Misc CSC CIP	CSCW2400	n/a	,	3,000					3,000
Misc CSC CIP	CSCW2500	n/a		3,000	3,000				3,000
Misc CSC CIP	CSCW2600	n/a			0,000	3,000			3,000
Misc CSC CIP	CSCW2700	n/a				3,000	3,000		3,000
Replace Truck 61	WWC02701	3					30,000		0,000
Bleach Tank Repair/Replacement	WWSP2302	1	13,176				55,000		3,176
Rplcmt Fund-WWC share/business Tota	1		95,696	24,870	7,920	3,000	33,000	16	4,486
GRAND TOTAL			11,699,499	4,807,625	3,659,170	7,371,210	5,208,212	32,74	5,716 ———