



AGENDA
Utility Commission Regular Meeting
Monday, October 23, 2023
5:30 PM
Conference Room, City Hall

- 1. CALL TO ORDER**
- 2. ADDITIONS OR CORRECTIONS TO AGENDA**
- 3. AUDIENCE INPUT**
- 4. APPROVAL OF MINUTES**
 - a. September 25, 2023 Utility Commission Meeting Minutes
- 5. PUBLIC HEARINGS**
- 6. OLD BUSINESS**
 - a. 2024 Utility Rate Recommendations
 - b. Manganese Levels
- 7. NEW BUSINESS**
- 8. EXECUTIVE DIRECTOR'S REPORT**
 - a. Well Pumping Report
 - b. City Meter Readings
 - c. Manual Well Ground Water Readings
 - d. Set Next Meeting Agenda – November 27, 2023
- 9. ADJOURNMENT**

**ROSEMOUNT UTILITY COMMISSION
REGULAR MEETING PROCEEDINGS
SEPTEMBER 25, 2023**

CALL TO ORDER

Pursuant to due call and notice thereof, a regular meeting of the Utility Commission was held on Monday, September 25, 2023, at 5:30 PM. In Rosemount Council Chambers, 2875 145th Street West.

Chairperson Johnson called the meeting to order with Commissioners Demuth and Miller.

Staff present included the following;

Mayor Weisensel, City Administrator Martin, Financial Director Malecha, Public Works Director Egger, and Recording Secretary Simonson.

ADDITIONS OR CORRECTIONS TO AGENDA

Commissioner Demuth noted she would like to revisit the Manganese discussion under agenda item 6. Old Business.

AUDIENCE INPUT

None.

APPROVAL OF MINUTES

4.a. July 10, 2023 Utility Commission Meeting Minutes

Motion to approve the July 10, 2023 Utility Commission Meeting Minutes.

Motion by Demuth **Second by** Miller

Ayes: 3.

Nays: None. Motion passed.

PUBLIC HEARINGS

None.

OLD BUSINESS

Commissioner Demuth requested to revisit the discussion on Manganese levels in the City water supply and providing informational mailings to households with infants. Director Egger indicated that informational letters were sent in September to all daycare facilities in the City and a copy of the letter was posted to the City website. Additionally, the Annual Water Quality Report contains a Manganese level update. The Annual Water Quality report is posted to the City website and a notice is posted in the spring newsletter. The Commission requested to add an item to the next agenda to discuss additional ways to disseminate the Minnesota Department of Health's recommended health guidelines relating to Manganese.

NEW BUSINESS

7.a. Preliminary Review of Proposed 2024 Utility Rate Adjustments

Director Malecha presented the preliminary rate models for 2024 utility rate adjustments for review and input by the Commissioners. Rates are based on CIPs, operational costs, projections, debts, etc. and entered in to the rate model. Rates are also compared with those of surrounding cities. The proposed 2024 rate models will be presented at the October Utility Commission meeting for finalization and recommendation to City Council.

EXECUTIVE DIRECTOR'S REPORT

8.a. Well Pumping Report

Director Egger discussed the well pumpage report and noted that the total amount pumped at the end of August is higher than the same time last year.

8.b. Action Item / Issues list

The Commission requested copies of the quarterly groundwater reporting levels that are sent to the Department of Natural Resources quarterly.

8.c. Set Next Meeting Agenda for October 23, 2023

- i. Manganese levels
- ii. Review proposed 2024 utility rate adjustments
- iii. City irrigation report
- iv. Well 7 manual readings of pumpage volumes

ADJOURNMENT

There being no further business to come before the Utility Commission and upon a motion by Miller and a second by Demuth, the meeting was adjourned at 6:48 p.m.

Respectfully submitted,

Amy Simonson
Recording Secretary

Utility Commission Regular Meeting: October 23, 2023

AGENDA ITEM: 2024 Utility Rate Recommendations	AGENDA SECTION: OLD BUSINESS
PREPARED BY: Nick Egger, Public Works Director	AGENDA NO. 6.a.
ATTACHMENTS: Utility Rate Comparisons, Impact Analysis Summary, Model Worksheets, and CIPs	APPROVED BY: NAE
RECOMMENDED ACTION: Endorse proposed 2024 Utility Rate Adjustments for City Council Consideration	

BACKGROUND

Staff has completed 2024 operational budget proposals, as well as near and long-term capital improvement planning and large expense forecasting for each of the four utility categories (Water, Sanitary Sewer, Storm Sewer, Street Lighting) based on the best information available along with project planning and development forecasting.

In short, for 2024 staff is recommending increases to each rate category as shown below. The primary drivers for these changes are listed for each rate category.

- Water Consumption - 5.0%
 - Energy (electricity & gas - well houses, vehicle fuel), fleet maintenance (attributable to utility operations vehicles), personnel expenses, and construction costs for repairs and replacement work are all rising with changes in the market
- Sanitary Wastewater Discharge - 9.0%
 - There will be over a 9% increase in wastewater processing charges from the Metropolitan Council due to the City's increasing share of overall wastewater flow to the MCES treatment plant system (from \$1.65M in 2023 to \$1.81M in 2024). This is largest single expense within the sanitary sewer budget.
 - Energy (electricity - lift stations, vehicle fuel), fleet maintenance (attributable to utility operations vehicles), personnel expenses, and construction costs for repairs replacement work are all rising with changes in the market
- Storm Sewer Drainage - 5.0%
 - Energy (electricity - lift stations, vehicle fuel), fleet maintenance (attributable to utility operations vehicles), personnel expenses, and construction costs for repairs and replacement work are all rising with changes in the market
- Street Lighting - 9.0%
 - Electricity costs, and the overall inventory of street lights throughout the City have been increasing with development and intensification of the street network.
 - The City must also begin setting aside funds for ongoing and future repairs,

replacements, and efficiency upgrades to City-owned lighting systems as the inventory ages.

Attached for the Commission's information are several items, starting with a summary comparing Rosemount's 2023 quarterly utility charges for an average residential consumer with eight other nearby communities.

Also attached is an impact analysis summary for median rate payers has been attached to provide a sample quarterly bill for Low, Median, and High Residential Properties as well as for a Median Commercial property from 2024-2033 (projected based on set rate change percentages, which are subject to change with future rate analysis/review). The 2024 compound total quarterly bill increases would be 6.8% for the low and median use residential properties, 6.5% for the high use property, and 7.3% for the commercial property example.

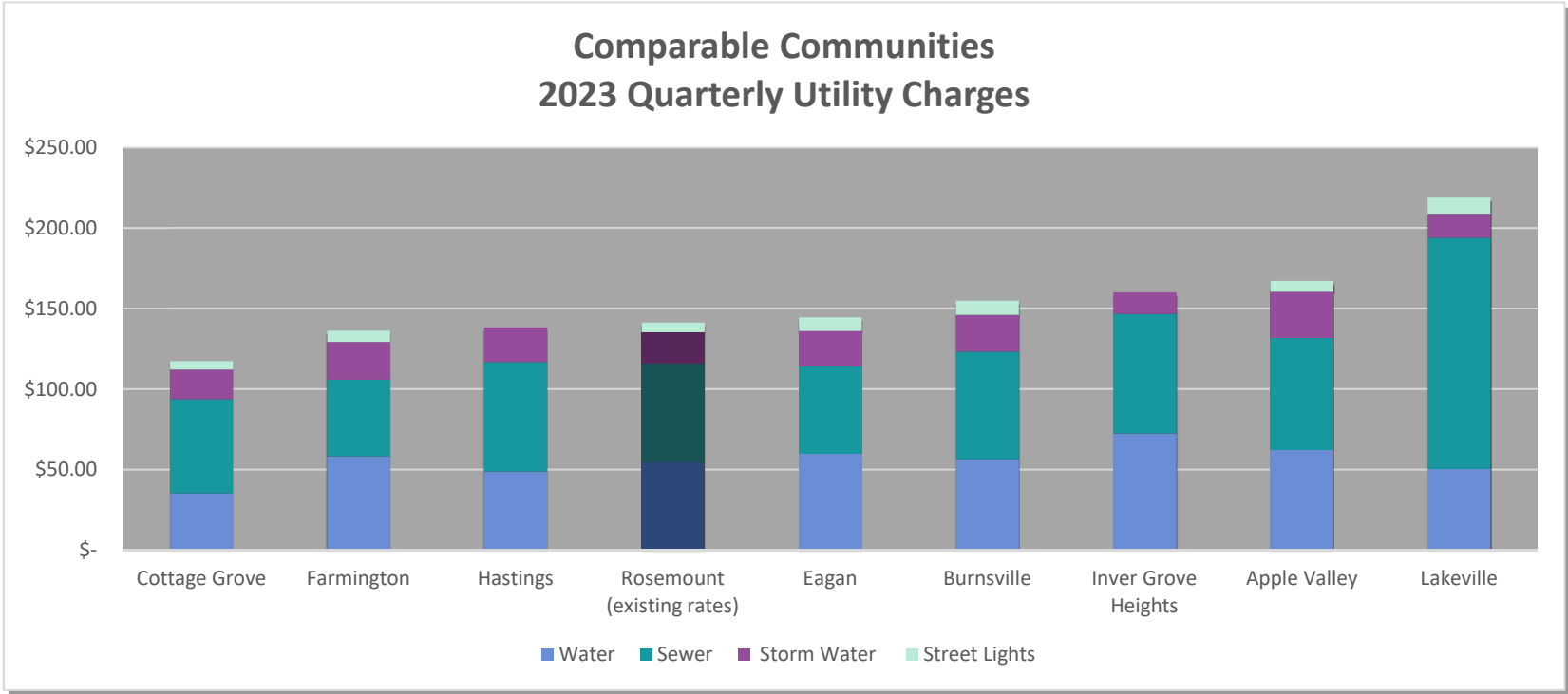
Lastly, attached are workbook excerpts for the operational funds for each utility, as well as the same for the trunk funds for the water, sanitary sewer, and storm sewer utilities. Each fund worksheet contains major revenue and expense tabulations from recent years as well as projections for the next 10 years based on an assumed rate change for each fund. Many of the figures within each sheet are derived from historical revenue and expense activity (recent past), as well as from the Capital Improvement Plans (CIPs - also attached) for each of the utilities, and from the prepared 2024 proposed public works department budget.

Staff from Finance, Public Works, and Administration will review this information, and have the live spreadsheet available during the upcoming meeting as the Commission discusses proposed utility rate adjustments for 2024, and will be prepared to show alternative calculation options if the Commission requests.

RECOMMENDATION

Staff is recommending that the Commission adopt a motion to endorse increases to the utility rates as discussed above.

2023 Quarterly Utility Charges					
City	Water	Sewer	Storm Water	Street Lights	Total
	22,000 gallons	11,000 gallons	1 REU		
Cottage Grove	\$35.26	\$58.43	\$18.30	\$5.40	\$117.39
Farmington	58.22	47.60	23.43	6.90	136.15
Hastings	48.88	67.82	21.55	-	138.25
Rosemount (existing rates)	54.73	61.27	19.28	6.04	141.32
Eagan	59.89	54.05	22.08	8.52	144.54
Burnsville	56.42	66.74	22.80	8.85	154.81
Inver Grove Heights	72.52	74.05	13.50	-	160.07
Apple Valley	62.11	69.52	28.65	6.84	167.12
Lakeville	50.45	143.58	14.79	10.12	218.94



Impact Analysis on Median Rate Payers

		Existing	Proposed Quarterly Bills										
		2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
Residential Property - Low User													
Water	4 ,000	Gallons	\$18.01	\$18.92	\$19.85	\$20.85	\$21.88	\$22.98	\$24.12	\$25.33	\$26.61	\$27.93	\$29.32
Sewer	6 ,000	Gallons	33.42	36.43	39.71	42.49	45.03	47.29	49.18	51.15	53.19	55.32	57.53
Storm Water			19.28	20.24	21.26	22.32	23.43	24.61	25.84	27.13	28.49	29.91	31.41
Street Light			6.04	6.40	6.79	7.19	7.63	8.08	8.57	9.08	9.63	10.20	10.82
Total Utility Bill			\$76.75	\$82.00	\$87.60	\$92.85	\$97.97	\$102.96	\$107.70	\$112.69	\$117.91	\$123.36	\$129.07
\$ Increase			\$5.25	\$5.61	\$5.25	\$5.12	\$4.99	\$4.75	\$4.99	\$5.22	\$5.45	\$5.71	
% Increase			6.8%	6.8%	6.0%	5.5%	5.1%	4.6%	4.6%	4.6%	4.6%	4.6%	
Residential Property - Median User													
Water	22 ,000	Gallons	\$54.73	\$57.46	\$60.31	\$63.31	\$66.44	\$69.82	\$73.24	\$76.91	\$80.83	\$84.89	\$89.13
Sewer	11 ,000	Gallons	61.27	66.78	72.79	77.89	82.56	86.69	90.16	93.77	97.52	101.42	105.47
Storm Water			19.28	20.24	21.26	22.32	23.43	24.61	25.84	27.13	28.49	29.91	31.41
Street Light			6.04	6.40	6.79	7.19	7.63	8.08	8.57	9.08	9.63	10.20	10.82
Total Utility Bill			\$141.32	\$150.89	\$161.14	\$170.71	\$180.06	\$189.20	\$197.80	\$206.89	\$216.46	\$226.42	\$236.82
\$ Increase			\$9.57	\$10.26	\$9.57	\$9.35	\$9.14	\$8.61	\$9.09	\$9.57	\$9.96	\$10.40	
% Increase			6.8%	6.8%	5.9%	5.5%	5.1%	4.5%	4.6%	4.6%	4.6%	4.6%	
Residential Property - High User													
Water	64 ,000	Gallons	\$287.05	\$301.40	\$316.65	\$332.21	\$348.68	\$366.18	\$384.52	\$403.89	\$424.29	\$445.77	\$468.06
Sewer	35 ,000	Gallons	194.95	212.50	231.62	247.83	262.70	275.84	286.87	298.35	310.28	322.69	335.60
Storm Water			19.28	20.24	21.26	22.32	23.43	24.61	25.84	27.13	28.49	29.91	31.41
Street Light			6.04	6.40	6.79	7.19	7.63	8.08	8.57	9.08	9.63	10.20	10.82
Total Utility Bill			\$507.32	\$540.55	\$576.31	\$609.55	\$642.44	\$674.71	\$705.79	\$738.45	\$772.68	\$808.57	\$845.88
\$ Increase			\$33.23	\$35.77	\$33.24	\$32.89	\$32.27	\$31.09	\$32.66	\$34.23	\$35.89	\$37.31	
% Increase			6.5%	6.6%	5.8%	5.4%	5.0%	4.6%	4.6%	4.6%	4.6%	4.6%	
Commercial Property 1.5" Meter													
Water	68 ,000	Gallons	\$183.23	\$192.15	\$201.86	\$211.68	\$222.30	\$233.72	\$245.27	\$257.64	\$270.83	\$284.17	\$298.37
Sewer	71 ,000	Gallons	395.47	431.06	469.86	502.75	532.91	559.56	581.94	605.22	629.43	654.60	680.79
Storm Water			89.29	93.75	98.44	103.36	108.53	113.96	119.66	125.64	131.92	138.52	145.45
Street Light			12.08	12.80	13.57	14.39	15.25	16.17	17.14	18.16	19.25	20.41	21.63
Total Utility Bill			\$680.07	\$729.76	\$783.73	\$832.18	\$878.99	\$923.41	\$964.01	\$1,006.66	\$1,051.43	\$1,097.70	\$1,146.25
\$ Increase			\$49.69	\$53.97	\$48.44	\$46.81	\$44.42	\$40.60	\$42.66	\$44.77	\$46.27	\$48.55	
% Increase			7.3%	7.4%	6.2%	5.6%	5.1%	4.4%	4.4%	4.4%	4.4%	4.4%	

WATER FUND															
	Actual				Budget 2023	Projected									
	2019	2020	2021	2022		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
1 Rates Inflation						5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	
2 Investment Income						5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	
3 Expense growth - operating						4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	
4 Expense growth - personnel						3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	
5 Expense growth - MCES						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
6 Operating Revenues															
7 Water revenues	2,139,717	2,595,738	3,139,785	3,228,213	1,818,016	3,686,820	3,863,703	4,048,879	4,242,128	4,446,707	4,661,883	4,888,363	5,126,241	5,376,280	5,637,725
8 Sanitary sewer revenues															
9 Storm sewer revenues															
10 Street light revenues															
11 Other income	(29,682)	(350)	0	111											
12 Revenue due to growth						97,180	155,969	219,835	286,010	360,558	441,649	530,606	627,609	731,458	844,998
13 SAC / WAC charges															
14 Total Operating Revenues	2,110,035	2,595,388	3,139,785	3,228,324	1,818,016	3,784,000	4,019,672	4,268,714	4,528,138	4,807,265	5,103,532	5,418,969	5,753,850	6,107,738	6,482,723
15 Operating Expenses															
16 Personnel services	539,097	514,293	499,657	616,477	580,775	598,198	616,144	634,628	653,667	673,277	693,476	714,280	735,708	757,779	780,513
17 Other services and charges	284,825	360,340	506,201	280,655	258,368	268,703	279,451	290,629	302,254	314,344	326,918	339,995	353,594	367,738	382,448
18 Supplies	239,061	216,901	233,078	255,227	241,971	251,650	261,716	272,184	283,072	294,394	306,170	318,417	331,154	344,400	358,176
19 Repair and maintenance	616,058	140,462	21,051	44,467	23,521	24,462	25,440	26,458	27,516	28,617	29,762	30,952	32,190	33,478	34,817
20 Utilities	173,220	207,694	246,814	248,693	169,038	175,799	182,831	190,144	197,750	205,660	213,887	222,442	231,340	240,593	250,217
21 Insurance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Professional Services	20,803	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 MCES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Service charges	824	1,211	1,531	1,534	0	0	0	0	0	0	0	0	0	0	0
25 Depreciation	881,747	894,215	886,317	876,072	0	0	0	0	0	0	0	0	0	0	0
26 Total Operating Expenses	2,755,635	2,335,116	2,394,649	2,323,125	1,273,672	1,318,811	1,365,582	1,414,044	1,464,259	1,516,293	1,570,212	1,626,085	1,683,986	1,743,988	1,806,170
27 Net Operations	(645,600)	260,273	745,136	905,199	544,344	2,465,189	2,654,090	2,854,671	3,063,879	3,290,972	3,533,321	3,792,884	4,069,864	4,363,750	4,676,553
28 Non operating revenues (expenses)															
29 Investment Income (Loss)	244,845	269,436	(34,489)	(627,271)	271,432	271,432	271,432	271,432	271,432	271,432	271,432	271,432	271,432	271,432	271,432
30 Intergovernmental	720	6,302	3,348	11,489	640	672	706	741	778	817	858	901	946	993	1,043
31 Interest on existing debt	0	0	0	0	0	(491,025)	(491,025)	(485,025)	(472,725)	(459,675)	(447,050)	(434,925)	(422,175)	(408,800)	(394,800)
32 Refunds and reimbursements	0	0	0	3,805	0	0	0	0	0	0	0	0	0	0	0
33 Charges for Services and Rents & Royalties	209,296	219,132	231,518	226,255	387,797	407,187	427,546	448,923	471,369	494,937	519,684	545,668	572,951	601,599	631,679
34 Capital contribution	512,754	800,373	1,462,407	4,241,056	0	0	0	0	0	0	0	0	0	0	0
35 Special assessments - Existing	64,588	60,146	66,473	76,480	1,425	67,700	71,085	74,639	78,371	82,290	86,405	90,725	95,261	100,024	105,025
36 Transfers in	68,182	(378)	203,688	(9,110)	51,644	54,226	56,937	59,784	62,773	65,912	69,208	72,668	76,301	80,116	84,122
37 Transfers out	(57,500)	(39,338)	(202,168)	(384)	0	0	0	0	0	0	0	0	0	0	0
38 Integovernmental															
39 Total non operating revenue (expenses)	1,042,885	1,315,674	1,730,777	3,922,319	712,938	310,192	336,681	370,494	411,998	455,713	500,537	546,469	594,716	645,364	698,501
40 CIP Funding															
41 Purchase of Capital Assets	(57,500)	(39,338)	(202,168)	(384)	0	(240,450)	(575,914)	(2,506,391)	(2,566,883)	(2,572,389)	(2,572,911)	(2,673,448)	(2,509,002)	(2,490,000)	(2,490,000)
42 Bond Prin - Existing	0	0	0	0	0	0	0	(200,000)	(210,000)	(225,000)	(235,000)	(250,000)	(260,000)	(275,000)	(285,000)
43 Target minimum working capital	1,377,817	1,167,558	1,197,324	1,161,562	1,127,861	1,150,431	1,367,816	1,389,747	1,416,804	1,440,196	1,470,031	1,495,218	1,525,793	1,555,794	1,582,885
44 Actual working capital-cash balance	9,866,321	11,452,341	13,178,791	14,551,862	15,809,145	18,344,076	20,758,934	21,277,708	21,976,702	22,925,999	24,151,946	25,567,852	27,463,431	29,707,545	32,307,599
45 Over (Under) target working capital	8,488,504	10,284,783	11,981,467	13,390,300	14,681,284	17,193,645	19,391,118	19,887,961	20,559,898	21,485,803	22,681,915	24,072,634	25,937,638	28,151,750	30,724,714

SANITARY SEWER FUND

	Actual				Budget 2023	Projected									
	2019	2020	2021	2022		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
1 Rates Inflation						9.00%	9.00%	7.00%	6.00%	5.00%	4.00%	4.00%	4.00%	4.00%	4.00%
2 Investment Income						5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
3 Expense growth - operating						4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
4 Expense growth - personnel						3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
5 Expense growth - MCES						6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%
6 Operating Revenues															
7 Water revenues															
8 Sanitary sewer revenues	1,953,043	2,446,188	2,581,563	2,747,738	2,369,738	3,315,177	3,611,656	3,863,005	4,093,528	4,297,157	4,468,205	4,646,095	4,831,100	5,023,506	5,223,608
9 Storm sewer revenues															
10 Street light revenues															
11 Other income															
12 Revenue due to growth						123,003	205,261	294,664	387,479	488,235	593,076	705,643	825,636	953,650	1,091,078
13 SAC / WAC charges															
14 Total Operating Revenues	1,953,043	2,446,188	2,581,563	2,747,738	2,369,738	3,438,180	3,816,917	4,157,669	4,481,007	4,785,392	5,061,281	5,351,738	5,656,736	5,977,156	6,314,686
15 Operating Expenses															
16 Personnel services	532,341	501,692	503,045	617,500	580,776	598,199	616,145	634,630	653,668	673,278	693,477	714,281	735,710	757,781	780,514
17 Other services and charges	218,818	395,961	214,142	172,066	282,471	293,769	305,520	317,741	330,451	343,669	357,415	371,712	386,581	402,044	418,126
18 Supplies	18,885	17,585	10,307	37,467	5,070	5,272	5,483	5,703	5,931	6,168	6,415	6,671	6,938	7,216	7,504
19 Repair and maintenance	12,243	27,736	176,277	53,482	12,777	13,288	13,820	14,372	14,947	15,545	16,167	16,814	17,486	18,186	18,913
20 Utilities	25,905	24,417	17,660	18,249	13,664	14,210	14,779	15,370	15,985	16,624	17,289	17,981	18,700	19,448	20,226
21 Insurance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Professional Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 MCES	1,303,112	1,386,562	1,311,672	1,546,939	1,928,887	2,044,620	2,167,297	2,297,335	2,435,175	2,581,286	2,736,163	2,900,333	3,074,353	3,258,814	3,454,343
24 Service charges	0	117	437	440	0	0	0	0	0	0	0	0	0	0	0
25 Depreciation	930,615	944,022	960,190	968,473	0	0	0	0	0	0	0	0	0	0	0
26 Total Operating Expenses	3,041,918	3,298,092	3,193,730	3,414,615	2,823,644	2,969,359	3,123,044	3,285,150	3,456,157	3,636,570	3,826,926	4,027,791	4,239,767	4,463,487	4,699,625
27 Net Operations	(1,088,875)	(851,904)	(612,167)	(666,877)	(453,906)	468,820	693,873	872,519	1,024,850	1,148,822	1,234,355	1,323,946	1,416,969	1,513,668	1,615,060
28 Non operating revenues (expenses)															
29 Investment Income (Loss)	47,959	19,111	589	3,034	65,667	65,667	65,667	65,667	65,667	65,667	65,667	65,667	65,667	65,667	65,667
30 Intergovernmental	712	926	593	1,990	0	0	0	0	0	0	0	0	0	0	0
31 Interest on existing debt	0	0	0	0	0	(491,025)	(491,025)	(485,025)	(472,725)	(459,675)	(447,050)	(434,925)	(422,175)	(408,800)	(394,800)
32 Refunds and reimbursements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Charges for Services and Rents & Royalties	9,327	11,753	11,890	27,870	89,231	93,693	98,378	103,297	108,462	113,885	119,579	125,558	131,836	138,428	145,349
34 Capital contribution	451,846	1,111,678	1,396,128	2,390,703	0	0	0	0	0	0	0	0	0	0	0
35 Special assessments - Existing	75,239	79,677	78,136	88,282	1,255	82,032	86,134	90,441	94,963	99,711	104,697	109,932	115,429	121,200	127,260
36 Transfers in	0	0	(43,488)	(4,410)	32,495	34,120	35,826	37,617	39,498	41,473	43,547	45,724	48,010	50,411	52,932
37 Transfers out	0	(38,025)	(75,561)	(1,587)	0	0	0	0	0	0	0	0	0	0	0
38 Intergovernmental															
39 Total non operating revenue (expenses)	585,082	1,185,120	1,368,287	2,505,882	188,648	(215,513)	(205,020)	(188,003)	(164,135)	(138,939)	(113,560)	(88,044)	(61,233)	(33,094)	(3,592)
40 CIP Funding															
41 Purchase of Capital Assets	0	(38,025)	(75,561)	(1,587)	0	(507,210)	(682,426)	(140,149)	(192,879)	(198,115)	(73,358)	(173,609)	(8,867)	0	0
42 Bond Prin - Existing	0	0	0	0	0	0	0	(200,000)	(210,000)	(225,000)	(235,000)	(250,000)	(260,000)	(275,000)	(285,000)
43 Target minimum working capital	1,558,984	1,724,607	1,598,451	1,707,308	1,411,822	1,484,680	1,761,522	1,852,575	1,953,078	2,053,285	2,163,463	2,273,896	2,394,883	2,791,744	2,634,813
44 Actual working capital-cash balance	1,603,013	1,502,191	1,751,638	1,957,841	1,692,583	1,438,680	1,245,107	1,589,473	2,047,309	2,634,077	3,446,514	4,258,807	5,345,676	6,551,250	7,877,718
45 Over (Under) target working capital	44,029	(222,416)	153,186	250,533	280,761	(46,000)	(516,415)	(263,102)	94,231	580,792	1,283,051	1,984,911	2,950,793	3,759,506	5,242,906

STORM WATER FUND															
	Actual				Budget 2023	Projected									
	2019	2020	2021	2022		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
1 Rates Inflation						5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	
2 Investment Income						5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	
3 Expense growth - operating						4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	
4 Expense growth - personnel						3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	
5 Expense growth - MCES						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
6 Operating Revenues															
7 Water revenues															
8 Sanitary sewer revenues															
9 Storm sewer revenues	1,302,062	1,425,808	1,471,817	1,523,880	1,424,752	1,850,142	1,942,649	2,039,782	2,141,771	2,248,859	2,361,302	2,479,367	2,603,336	2,733,503	2,870,178
10 Street light revenues															
11 Other income	0	0													
12 Revenue due to growth						27,350	43,321	60,977	79,287	99,901	122,449	146,955	173,552	202,333	233,689
13 SAC / WAC charges															
14 Total Operating Revenues	1,302,062	1,425,808	1,471,817	1,523,880	1,424,752	1,877,492	1,985,970	2,100,759	2,221,058	2,348,760	2,483,751	2,626,322	2,776,888	2,935,836	3,103,867
15 Operating Expenses															
16 Personnel services	477,784	568,585	553,557	571,873	556,588	573,285	590,484	608,198	626,444	645,238	664,595	684,532	705,068	726,221	748,007
17 Other services and charges	408,305	445,783	426,774	166,377	165,126	171,731	178,601	185,745	193,174	200,901	208,937	217,295	225,987	235,026	244,427
18 Supplies	17,339	21,370	8,807	6,403	5,385	5,600	5,824	6,057	6,299	6,551	6,813	7,086	7,369	7,664	7,971
19 Repair and maintenance	4,528	22,030	110,458	109,278	4,342	4,516	4,697	4,885	5,080	5,283	5,494	5,714	5,943	6,181	6,428
20 Utilities	12,563	10,929	4,465	4,833	3,200	3,328	3,461	3,600	3,744	3,893	4,049	4,211	4,379	4,555	4,737
21 Insurance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Professional Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 MCES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Service charges	0	117	437	440	0	0	0	0	0	0	0	0	0	0	0
25 Depreciation	751,494	771,573	813,384	838,180	0	0	0	0	0	0	0	0	0	0	0
26 Total Operating Expenses	1,672,012	1,840,388	1,917,882	1,697,385	734,641	758,461	783,066	808,484	834,741	861,866	889,889	918,838	948,747	979,646	1,011,569
27 Net Operations	(369,950)	(414,580)	(446,064)	(173,504)	690,111	1,119,032	1,202,904	1,292,275	1,386,317	1,486,894	1,593,863	1,707,484	1,828,141	1,956,190	2,092,297
28 Non operating revenues (expenses)															
29 Investment Income (Loss)	127,109	164,656	14,996	(206,542)	141,715	141,715	141,715	141,715	141,715	141,715	141,715	141,715	141,715	141,715	141,715
30 Intergovernmental	721	839	574	34,612	0	0	0	0	0	0	0	0	0	0	0
31 Interest on existing debt	0	0	0	0	0	122,775	122,775	121,275	118,125	114,825	111,675	108,675	105,550	102,175	98,675
32 Refunds and reimbursements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Charges for Services and Rents & Royalties	11,127	14,203	11,890	27,870	89,231	93,693	98,378	103,297	108,462	113,885	119,579	125,558	131,836	138,428	145,349
34 Capital contribution	955,430	1,481,035	2,563,806	6,459,230	0	0	0	0	0	0	0	0	0	0	0
35 Special assessments - Existing	23,784	24,830	25,864	35,059	455	28,584	30,014	31,515	33,091	34,746	36,483	38,307	40,222	42,233	44,345
36 Transfers in	492,488	81,291	33,263	24,406	102,233	107,345	112,712	118,348	124,265	130,478	137,002	143,852	151,045	158,597	166,527
37 Transfers out	(296,254)	(243,765)	(127,073)	(159,827)	(55,983)	(55,983)	(55,983)	(55,983)	(55,983)	(55,983)	(55,983)	(55,983)	(55,983)	(55,983)	(55,983)
38 Intergovernmental															
39 Total non operating revenue (expenses)	1,314,405	1,523,088	2,523,320	6,214,809	277,651	438,129	449,611	460,167	469,675	479,666	490,471	502,124	514,385	527,165	540,628
40 CIP Funding															
41 Purchase of Capital Assets	(296,254)	(243,765)	(127,073)	(159,827)	0	(532,210)	(522,426)	(390,149)	(392,879)	(318,115)	(273,358)	(373,609)	(208,867)	0	0
42 Bond Prin - Existing	0	0	0	0	0	0	0	(50,000)	(55,000)	(55,000)	(60,000)	(60,000)	(65,000)	(70,000)	(70,000)
43 Target minimum working capital	1,323,536	1,047,267	1,118,767	904,675	423,303	435,213	497,516	515,225	528,354	546,916	560,927	580,402	600,356	615,806	575,785
44 Actual working capital-cash balance	5,096,700	5,270,522	5,439,200	5,590,810	6,558,571	7,583,522	8,713,611	10,025,904	11,434,017	13,027,461	14,778,437	16,554,436	18,623,095	21,036,450	23,599,375
45 Over (Under) target working capital	3,773,164	4,223,255	4,320,433	4,686,134	6,135,268	7,148,309	8,216,095	9,510,679	10,905,663	12,480,545	14,217,510	15,974,034	18,022,739	20,420,644	23,023,590

STREET LIGHT FUND

	Actual				Budget	Projected									
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
						9.00%	9.00%	7.00%	6.00%	5.00%	4.00%	4.00%	4.00%	4.00%	4.00%
1 Rates Inflation						9.00%	9.00%	7.00%	6.00%	5.00%	4.00%	4.00%	4.00%	4.00%	4.00%
2 Investment Income						5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
3 Expense growth - operating						4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
4 Expense growth - personnel						3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
5 Expense growth - MCES						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
6 Operating Revenues															
7 Water revenues															
8 Sanitary sewer revenues															
9 Storm sewer revenues															
10 Street light revenues		227,546	210,730	216,720	186,030	256,181	279,237	298,784	316,711	332,547	345,848	359,682	374,070	389,032	404,594
11 Other income															
12 Revenue due to growth						0	0	0	0	0	0	0	0	0	0
13 SAC / WAC charges															
14 Total Operating Revenues	0	227,546	210,730	216,720	186,030	256,181	279,237	298,784	316,711	332,547	345,848	359,682	374,070	389,032	404,594
15 Operating Expenses															
16 Personnel services		0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Other services and charges		7,888	8,631	11,391	614	639	664	691	718	747	777	808	840	874	909
18 Supplies		1,602	674	0	0	0	0	0	0	0	0	0	0	0	0
19 Repair and maintenance		0	4,714	26,873	3,747	3,897	4,053	4,215	4,383	4,559	4,741	4,931	5,128	5,333	5,546
20 Utilities		183,624	192,098	219,738	188,659	196,206	204,054	212,216	220,705	229,533	238,714	248,263	258,193	268,521	279,262
21 Insurance		0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Professional Services		0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 MCES		0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Service charges		0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Depreciation		0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Operating Expenses	0	193,113	206,116	258,002	193,020	200,741	208,771	217,122	225,806	234,839	244,232	254,002	264,162	274,728	285,717
27 Net Operations	0	34,432	4,613	(41,282)	(6,991)	55,440	70,467	81,662	90,905	97,708	101,616	105,681	109,908	114,304	118,877
28 Non operating revenues (expenses)															
29 Investment Income (Loss)	0	9	20	1,978	3,520	3,520	3,520	3,520	3,520	3,520	3,520	3,520	3,520	3,520	3,520
30 Intergovernmental	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Interest on existing debt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Refunds and reimbursements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Charges for Services and Rents & Royalties	0	19,008	24,912	60,480	36,000	37,800	39,690	41,675	43,759	45,947	48,244	50,656	53,189	55,848	58,640
34 Capital contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Special assessments - Existing	0	3,620	6,473	7,492	217	5,862	6,155	6,463	6,786	7,125	7,481	7,855	8,248	8,660	9,093
36 Transfers in	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Transfers out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Intergovernmental															
39 Total non operating revenue (expenses)	0	22,637	31,404	69,951	39,738	47,182	49,365	51,658	54,065	56,592	59,245	62,031	64,957	68,028	71,253
40 CIP Funding															
41 Purchase of Capital Assets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Bond Prin - Existing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 Target minimum working capital	0	96,557	103,058	129,001	96,510	100,371	104,385	108,561	112,903	117,419	122,116	127,001	132,081	137,364	142,859
44 Actual working capital-cash balance	0	25,204	59,970	86,519	119,265	221,887	341,719	475,040	620,009	774,309	935,171	1,102,883	1,277,748	1,460,080	1,650,210
45 Over (Under) target working capital	0	(71,352)	(43,088)	(42,483)	22,755	121,517	237,334	366,479	507,106	656,890	813,055	975,882	1,145,667	1,322,716	1,507,351

WATER TRUNK FUND

	Actual				Budget 2023	Projected									
	2019	2020	2021	2022		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
1 Rates Inflation						5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
2 Investment Income						5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
3 Expense growth - operating						4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
4 Expense growth - personnel						3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
5 Expense growth - MCES						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
6 Operating Revenues															
7 Water revenues															
8 Sanitary sewer revenues															
9 Storm sewer revenues															
10 Street light revenues															
11 Developer Agreement Charges	367,919	895,961	884,537	1,857,888	764,021	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000
12 Storm Water Ponding Revenues															
13 SAC / WAC charges	584,071	727,204	836,111	538,950	247,500	581,823	605,128	595,968	563,197	580,796	585,382	586,094	582,287	579,551	582,822
14 Total Operating Revenues	951,990	1,623,165	1,720,648	2,396,838	1,011,521	881,823	905,128	895,968	863,197	880,796	885,382	886,094	882,287	879,551	882,822
15 Operating Expenses															
16 Personnel services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Other services and charges	1,000	1,000	1,000	1,000	1,000	1,040	1,082	1,125	1,170	1,217	1,265	1,316	1,369	1,423	1,480
18 Supplies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Repair and maintenance	0	0	0	152	8,722	9,071	9,434	9,811	10,204	10,612	11,036	11,478	11,937	12,414	12,911
20 Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Insurance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Professional Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 MCES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Service charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Depreciation	24,700	24,700	24,700	24,682	0	0	0	0	0	0	0	0	0	0	0
26 Total Operating Expenses	25,700	25,700	25,700	25,834	9,722	10,111	10,515	10,936	11,373	11,828	12,301	12,793	13,305	13,837	14,391
27 Net Operations	926,290	1,597,466	1,694,948	2,371,003	1,001,799	871,712	894,613	885,032	851,824	868,968	873,081	873,301	868,982	865,714	868,431
28 Non operating revenues (expenses)															
29 Investment Income (Loss)	22,787	23,849	(12,042)	(140,692)	60,905	60,905	60,905	60,905	60,905	60,905	60,905	60,905	60,905	60,905	60,905
30 Intergovernmental	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Interest on existing debt	0	0	0	0	0	(62,834)	(56,131)	(48,600)	(43,200)	(40,050)	(37,025)	(34,150)	(31,150)	(28,025)	(24,650)
32 Refunds and reimbursements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Charges for Services and Rents & Royalties	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Capital contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Special assessments - Existing	130,068	9,186	25,442	19,698	0	18,109	19,014	19,965	20,963	22,011	23,112	24,268	25,481	26,755	28,093
36 Transfers in	0	0	7,313	0	0	0	0	0	0	0	0	0	0	0	0
37 Transfers out	(945,994)	(851,016)	(390,072)	(367,798)	(248,000)	0	0	0	0	0	0	0	0	0	0
38 Intergovernmental															
39 Total non operating revenue (expenses)	(793,139)	(817,981)	(369,360)	(488,792)	(187,095)	16,180	23,788	32,270	38,668	42,866	46,992	51,023	55,236	59,635	64,348
40 CIP Funding															
41 Purchase of Capital Assets	(695,994)	(600,016)	(144,072)	(121,798)	0	(775,000)	(1,255,000)	(2,085,000)	(2,085,000)	(1,835,000)	(1,835,000)	(1,835,000)	(1,835,000)	(1,835,000)	(1,835,000)
42 Bond Prin - Existing	(250,000)	(251,000)	(246,000)	(246,000)	(248,000)	(225,000)	(250,000)	(215,000)	(50,000)	(55,000)	(55,000)	(60,000)	(60,000)	(65,000)	(70,000)
43 Target minimum working capital	263,850	258,850	258,850	260,917	292,695	311,187	268,858	98,668	100,737	97,939	100,301	97,547	99,678	99,944	101,845
44 Actual working capital-cash balance	1,878,236	2,683,692	4,037,259	5,927,983	6,742,687	6,630,579	6,043,979	4,661,281	3,416,773	2,438,606	1,468,679	498,002	(472,780)	(1,447,432)	(2,419,653)
45 Over (Under) target working capital	1,614,386	2,424,842	3,778,409	5,667,066	6,449,992	6,319,392	5,775,122	4,562,613	3,316,036	2,340,667	1,368,378	400,455	(572,458)	(1,547,376)	(2,521,499)

SANITARY SEWER TRUNK FUND															
	Actual				Budget	Projected									
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
1 Rates Inflation						9.00%	9.00%	7.00%	6.00%	5.00%	4.00%	4.00%	4.00%	4.00%	4.00%
2 Investment Income						5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
3 Expense growth - operating						4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
4 Expense growth - personnel						3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
5 Expense growth - MCES						6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%
6 Operating Revenues															
7 Water revenues															
8 Sanitary sewer revenues															
9 Storm sewer revenues															
10 Street light revenues															
11 Developer Agreement Charges	75,023	125,763	136,640	214,354	199,541	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000
12 Storm Water Ponding Revenues					0	0	0	0	0	0	0	0	0	0	0
13 SAC / WAC charges	388,155	421,196	487,659	465,104	120,000	282,096	293,395	288,954	273,065	281,598	283,822	284,167	282,321	280,995	282,581
14 Total Operating Revenues	463,178	546,959	624,299	679,457	319,541	322,096	333,395	328,954	313,065	321,598	323,822	324,167	322,321	320,995	322,581
15 Operating Expenses															
16 Personnel services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Other services and charges	1,000	1,000	1,000	1,000	1,000	1,040	1,082	1,125	1,170	1,217	1,265	1,316	1,369	1,423	1,480
18 Supplies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Repair and maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Insurance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Professional Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 MCES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Service charges		0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Depreciation	10,102	10,102	10,102	10,096	0	0	0	0	0	0	0	0	0	0	0
26 Total Operating Expenses	11,102	11,102	11,102	11,096	1,000	1,040	1,082	1,125	1,170	1,217	1,265	1,316	1,369	1,423	1,480
27 Net Operations	452,076	535,857	613,197	668,361	318,541	321,056	332,313	327,829	311,895	320,381	322,557	322,851	320,952	319,572	321,101
28 Non operating revenues (expenses)															
29 Investment Income (Loss)	135,901	142,814	11,790	(281,869)	50,511	50,511	50,511	50,511	50,511	50,511	50,511	50,511	50,511	50,511	50,511
30 Intergovernmental	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Interest on existing debt	0	0	0	0	0	(55,925)	(55,300)	(53,025)	(49,575)	(45,975)	(42,550)	(39,175)	(35,675)	(32,050)	(28,175)
32 Refunds and reimbursements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Charges for Services and Rents & Royalties	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Capital contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Special assessments - Existing	18,436	1,661	401	113	0	725	761	799	839	881	925	971	1,020	1,071	1,125
36 Transfers in	0	0	5,756	0	0	0	0	0	0	0	0	0	0	0	0
37 Transfers out	(20,456)	(350,933)	(73,771)	(702,096)	0	0	0	0	0	0	0	0	0	0	0
38 Intergovernmental															
39 Total non operating revenue (expenses)	133,882	(206,458)	(55,824)	(983,852)	50,511	(4,690)	(4,028)	(1,715)	1,775	5,417	8,886	12,307	15,856	19,532	23,461
40 CIP Funding															
41 Purchase of Capital Assets	(20,456)	(350,933)	(73,771)	(702,096)	0	0	(1,250,000)	0	0	0	0	0	0	0	0
42 Bond Prin - Existing	0	0	0	0	0	0	(25,000)	(55,000)	(60,000)	(60,000)	(65,000)	(70,000)	(70,000)	(75,000)	(80,000)
43 Target minimum working capital	356,484	79,322	707,647	5,548	500	25,520	55,541	60,562	60,585	65,608	70,633	70,658	75,684	155,712	80,740
44 Actual working capital-cash balance	5,820,278	6,159,801	6,719,278	6,416,170	6,785,221	7,101,588	6,154,873	6,425,987	6,679,656	6,945,455	7,211,897	7,477,055	7,743,863	8,007,966	8,272,528
45 Over (Under) target working capital	5,463,794	6,080,479	6,011,631	6,410,622	6,784,721	7,076,068	6,099,332	6,365,424	6,619,072	6,879,846	7,141,264	7,406,397	7,668,179	7,852,255	8,191,788

STORM WATER TRUNK FUND

	Actual				Budget 2023	Projected									
	2019	2020	2021	2022		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
1 Rates Inflation						5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
2 Investment Income						5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
3 Expense growth - operating						4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
4 Expense growth - personnel						3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
5 Expense growth - MCES						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
6 Operating Revenues															
7 Water revenues															
8 Sanitary sewer revenues															
9 Storm sewer revenues															
10 Street light revenues															
11 Developer Agreement Charges	270,585	828,776	916,770	1,725,538	595,785	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000
12 Storm Water Ponding Revenues	10,012	36,777				0	0	0	0	0	0	0	0	0	0
13 SAC / WAC charges	165,760	199,014	346,411	389,861	77,770	133,210	124,740	174,790	100,870	127,666	130,774	130,447	130,086	129,384	130,189
14 Total Operating Revenues	446,357	1,064,566	1,263,181	2,115,399	673,555	413,210	404,740	454,790	380,870	407,666	410,774	410,447	410,086	409,384	410,189
15 Operating Expenses															
16 Personnel services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Other services and charges	34,567	1,000	1,000	1,000	1,000	1,040	1,082	1,125	1,170	1,217	1,265	1,316	1,369	1,423	1,480
18 Supplies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Repair and maintenance	0	51,621	0	0	1,036,211	1,077,659	1,120,766	1,165,596	1,212,220	1,260,709	1,311,137	1,363,583	1,418,126	1,474,851	1,533,845
20 Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Insurance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Professional Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 MCES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Service charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Depreciation	26,171	26,171	26,171	26,154	0	0	0	0	0	0	0	0	0	0	0
26 Total Operating Expenses	60,739	78,792	27,171	27,154	1,037,211	1,078,699	1,121,847	1,166,721	1,213,390	1,261,926	1,312,403	1,364,899	1,419,495	1,476,275	1,535,326
27 Net Operations	385,618	985,774	1,236,009	2,088,245	(363,656)	(665,489)	(717,107)	(711,931)	(832,520)	(854,260)	(901,629)	(954,452)	(1,009,409)	(1,066,891)	(1,125,137)
28 Non operating revenues (expenses)															
29 Investment Income (Loss)	105,312	100,063	(3,552)	(252,204)	46,566	46,566	46,566	46,566	46,566	46,566	46,566	46,566	46,566	46,566	46,566
30 Intergovernmental	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Interest on existing debt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Refunds and reimbursements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Charges for Services and Rents & Royalties	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Capital contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Special assessments - Existing	147,308	90,022	21,853	28,242	0	46,706	49,041	51,493	54,068	56,771	59,610	62,591	65,721	69,007	72,457
36 Transfers in	0	0	12,774	0	0	0	0	0	0	0	0	0	0	0	0
37 Transfers out	(505,000)	(253,791)	(1,084,165)	(325,611)	0	0	0	0	0	0	0	0	0	0	0
38 Intergovernmental															
39 Total non operating revenue (expenses)	(252,381)	(63,706)	(1,053,090)	(549,572)	46,566	93,271	95,607	98,059	100,634	103,337	106,176	109,157	112,287	115,573	119,023
40 CIP Funding															
41 Purchase of Capital Assets	(505,000)	(253,791)	(1,084,165)	(325,611)	0	(5,000)	(500,000)	0	0	0	0	0	0	0	0
42 Bond Prin - Existing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 Target minimum working capital	537,951	1,123,561	339,197	13,577	518,606	539,350	560,924	583,361	606,695	630,963	656,201	682,449	709,747	738,137	767,663
44 Actual working capital-cash balance	3,777,356	4,683,116	4,977,751	6,521,901	6,204,811	5,627,593	4,506,092	3,892,220	3,160,333	2,409,410	1,613,957	768,662	(128,461)	(1,079,779)	(2,085,893)
45 Over (Under) target working capital	3,239,405	3,559,555	4,638,555	6,508,324	5,686,206	5,088,244	3,945,169	3,308,859	2,553,638	1,778,447	957,755	86,212	(838,208)	(1,817,916)	(2,853,556)

Utility Commission Regular Meeting: October 23, 2023

AGENDA ITEM: Manganese Levels	AGENDA SECTION: OLD BUSINESS
PREPARED BY: Nick Egger, Public Works Director	AGENDA NO. 6.b.
ATTACHMENTS: Daycare Notification - Manganese 9.13.2023	APPROVED BY: NAE
RECOMMENDED ACTION: Discussion only	

BACKGROUND

At the September 25th meeting, Commissioners requested to continue discussion on additional ways to disseminate informational notices regarding Manganese levels and the Minnesota Department of Health's recommended health guidelines for residents with infants.

In early September, the City sent direct mailings to all licensed daycare providers within Rosemount featuring an updated version of an informational flyer on manganese levels in the City's municipal wells, and advisory content regarding consumption of drinking water with manganese levels above 100 mg/l. Similarly, City staff have been in contact with Dakota County Health & Human Services and will be furnishing this same information to them for dissemination to all pediatric clinics within Dakota County with a request that practitioners share this information with parents of children under one year of age. The County is unable to provide the direct contact information from their database and will instead send the City's information to clinics on the City's behalf using their electronic distribution system.

This information has been available on the City's web page since 2019 and was most recently updated in September.

RECOMMENDATION

Discussion only.

September 13, 2023

Re: Manganese Levels in Rosemount Drinking Water

Dear Daycare Provider:

The City of Rosemount is taking this opportunity to directly provide information regarding manganese concentrations in the City's public water supply. Water from several of the City's wells contains concentrations of manganese above guidelines when it comes to consumption by infants of less than 1 year old, and since you may provide direct care of infants, it was important for us to keep you informed directly about this matter.

Please see the enclosed two-page handout featuring further details. This document can also be found on the City's web page at www.rosemountmn.gov/255/Water-Quality-Report.

If you have any questions, please contact our Public Works Department at 651-322-2022 or pwadm@rosemountmn.gov.

Sincerely,

Rosemount Public Works

September 2023

RE: Manganese Levels in Rosemount Public Water Supply

The City of Rosemount is dedicated to providing safe and clean drinking water to the residents and businesses connected to the public water system. Frequent testing by the City and Minnesota Department of Health (MDH) shows the municipal public water supply continues to meet all Safe Drinking Water Act standards. The annual water quality report is available for public review on the city website at www.rosemountmn.gov/waterquality.

Since 2019, the City and the MDH have been conducting additional sampling and testing as part of a study on *unregulated* contaminants. This testing continues to show that some city wells have manganese levels that exceed recommended health guidelines for some of the population, particularly infants under 1 year of age.

What is Manganese?

Manganese (Mn) is a naturally occurring element found in rocks and soil. It is often found in Minnesota ground and surface water. The human body needs some manganese to stay healthy, but too much can be harmful. You can learn more by visiting the MDH webpage at www.health.state.mn.us and searching for *Manganese in Drinking Water*. A two page information sheet can be found at:

<https://www.health.state.mn.us/communities/environment/water/docs/contaminants/mangnsefctsht.pdf>

Manganese is unregulated and does not have an enforceable standard. However, the MDH recommended health guidelines include:

1. If you have an infant (under 1 year of age) who drinks water or drinks formula made with tap water, a safe level of manganese in your water is 100 parts per billion (ppb) or 100 micrograms per liter ($\mu\text{g/l}$) or less.
2. If you have an infant (under 1 year of age) who NEVER drinks water or formula made with tap water, a safe level of manganese in your water is 300 ppb or 300 $\mu\text{g/l}$ or less.
3. If everyone in a household is more than one year old, a safe level of manganese in your water is 300 ppb or 300 $\mu\text{g/l}$ or less.

In addition, the Environmental Protection Agency (EPA) has a secondary maximum contaminant level which is a *non-mandatory water quality standard* for manganese of 50 ppb or 50 $\mu\text{g/l}$. This number is an aesthetic standard due to the possibility of stained fixtures and laundry.

The City's municipal water supply consists of nine city wells, and four water towers. The water mixes in the mains and towers and is then distributed to the consumer's tap. Because of this mixing, the actual level of manganese at each drinking water tap will vary from place to place but in most places would likely be below 100 micrograms per liter ($\mu\text{g/l}$).

Additionally, many residences and business establishments have an on-site water softener or filtration system for supplemental water quality improvements above and beyond regulations. These devices will reduce manganese in drinking water before it reaches the tap.

SPIRIT OF PRIDE AND PROGRESS

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www.ci.rosemount.mn.us

City Actions

Below is a table of are manganese concentrations from the most recent round of samples taken directly at each well and tested by the Minnesota Department of Health.

Well No.	7	8	9	14	15	16
Manganese Concentration ($\mu\text{g}/\text{l}$)	115	120	72	107	68	85

Again, it is important to note that water from all wells does blend together at the City's water towers and within the water distribution system, with actual concentrations at the faucet/tap varying from place to place. In addition, since 2019 the City has been operating our wells with the highest concentrations as little as possible while balancing the needs of overall water demand (summertime peak uses, firefighting events). The city has also contracted with an engineering firm to a review and provide recommendations to reduce the impact of the manganese, and we continue to work on planning for constructing a facility that will lessen iron and manganese concentrations in the water supply.

In addition to the city water system, many rural households in Rosemount rely on private wells for their water supply. Existing manganese data from private water wells in Rosemount indicate 39% of well water samples exceed the drinking water guidance of 100 micrograms per liter. Again, water softeners and/or filtration systems can effectively reduce manganese levels in tap water.

If you have additional comments or questions, please contact the Public Works Department at 651-322-2022.

2023 Well Pumping Record

GPM	1,200	1,235	1,600	1,500	1,500	1,500	2,000	500	500	Precipitation					
2023	Well 7	Well 8	Well 9	Well 12	Well 14	Well 15	Well 16	Rural 1	Rural 2	2023 Total	2022 Total	% Change	2022	2023	Diff
Jan	6,000	1,477,000	15,504,000	3,000	0	22,174,000	0	2,610,000	2,399,000	44,173,000	43,605,500	1.3%	0.64	2.25	1.61
Feb	79,000	10,390,000	6,719,000	243,000	278,000	8,855,000	11,247,000	2,278,000	2,073,000	42,162,000	44,728,400	-5.7%	0.78	2.23	1.45
Mar	0	13,464,000	6,092,000	57,000	8,047,000	0	14,560,000	2,479,000	2,413,000	47,112,000	47,224,000	-0.2%	2.95	2.72	-0.23
Q1 Total	85,000	25,331,000	28,315,000	303,000	8,325,000	31,029,000	25,807,000	7,367,000	4,472,000	131,034,000	132,555,900	-1.1%	4.37	7.20	2.83
Apr	0	0	9,463,000	7,763,000	12,217,000	11,795,000	235,000	2,589,000	2,311,000	46,373,000	44,602,300	4.0%	3.99	2.39	-1.60
May	0	8,653,000	13,881,000	28,378,000	5,451,000	136,728,000	16,530,000	3,865,000	3,909,000	217,395,000	91,616,800	137.3%	3.33	1.62	-1.71
Jun	6,222,000	40,107,000	761,000	15,061,000	44,321,000	0	31,427,000	3,068,000	3,234,000	144,201,000	162,212,500	-11.1%	1.13	0.93	-0.20
Q2 Total	6,222,000	48,760,000	24,105,000	51,202,000	61,989,000	148,523,000	48,192,000	9,522,000	9,454,000	407,969,000	298,431,600	36.7%	8.45	4.94	-3.51
Jul	3,571,000	27,269,000	29,349,000	14,232,000	31,570,000	0	42,077,000	3,554,000	3,206,000	154,828,000	191,696,000	-19.2%	1.18	2.57	1.39
Aug	3,097,000	34,198,000	21,383,000	19,490,000	34,297,000	19,407,000	35,516,000	3,758,000	3,648,000	174,794,000	140,897,000	24.1%	4.27	2.29	-1.98
Sep	2,206,000	28,690,000	13,457,000	12,114,000	31,009,000	47,251,000	10,603,000	3,636,000	2,973,000	151,939,000	137,959,000	10.1%	0.24	5.72	5.48
Q3 Total	8,874,000	90,157,000	64,189,000	45,836,000	96,876,000	66,658,000	88,196,000	10,948,000	9,827,000	481,561,000	470,825,000	2.3%	5.69	10.58	4.89
Oct										0	87,864,000	-100.0%	0.24		-0.24
Nov										0	46,602,000	-100.0%	2.40		-2.40
Dec										0	50,371,000	-100.0%	1.82		-1.82
Q4 Total	0	0	0	0	0	0	0	0	0	0	184,837,000	-100.0%	4.46	0.00	-4.46
Total	15,181,000	164,248,000	116,609,000	97,341,000	167,190,000	246,210,000	162,195,000	27,837,000	26,166,000	1,022,977,000	1,089,651,500	-6.1%	22.97	22.72	-0.25
Average/Mo	1,686,778	18,249,778	12,956,556	10,815,667	18,576,667	27,356,667	18,021,667	3,093,000	2,969,125	113,725,903	90,803,911	25.2%			
Average/Day	41,592	449,995	319,477	266,688	458,055	674,548	444,370	76,266	71,688	2,802,677	2,985,347	-6.1%			
Year To-Date										1,022,977,000	904,541,500	13.1%	22.97	22.72	-0.25

Quarterly 2023
Government Building Meter Readings

ACCT #	FACILITY	1st	2nd	3rd	4th	TOTAL
800001	City Hall	22,000	24,000	24,000		70,000
800002	City Hall - irrigation	-	135,000	269,000		404,000
800003	Library - irrigation	-	-	101,000		101,000
800004	PW Shop	155,000	307,000	243,000		705,000
800005	Mechanics Garage	7,000	36,000	7,000		50,000
800006	City Garage (wood shop)	3,000	5,000	7,000		15,000
800007	Community Center - top	214,000	267,000	484,000		965,000
800008	Community Center - bottom	184,000	231,000	418,000		833,000
800009	Community Center - irrigation	22,000	93,000	237,000		352,000
800010	Fire Station 1	14,000	226,000	338,000		578,000
800011	Fire Station 2	3,000	205,000	498,000		706,000
800012	Bloomfield Park	-	740,000	693,000		1,433,000
800013	Central Park - shelter	1,000	7,000	10,000		18,000
800014	Connemara Park	-	391,000	553,000		944,000
800015	Erickson South (Fields 4-5)	-	652,000	923,000		1,575,000
800016	Erickson Shelter (Fields 1-3)	-	882,000	1,627,000		2,509,000
800017	Innisfree Park	-	-	-		-
800018	Jaycee Park Shelter	2,000	3,000	5,000		10,000
800019	Jaycee Park - irrigation	-	1,689,000	3,021,000		4,710,000
800020	Meadows Park	-	1,165,000	1,567,000		2,732,000
800021	Shannon Park	-	1,839,000	2,471,000		4,310,000
800022	Winds Park	-	447,000	850,000		1,297,000
800024	Steeple Center	-	-	-		-
800025	Flint Hills Athletic Fields	-	5,074,000	6,328,000		11,402,000
800026	Splash Pad	-	4,673,000	5,554,000		10,227,000
800027	Activity Center	17,000	70,000	99,000		186,000
800028	Central Park - irrigation	-	331,000	517,000		848,000
800029	PW Fill Station	42,000	112,000	128,000		282,000
800030	Chili Flower Garden	-	22,000	62,000		84,000
800031	Flint Hills Athletic Complex Bldg.	-	-	174,000		174,000
800054	UMORE Athletic Fields	-	2,597,000	2,135,000		4,732,000
800055	Horseshoe Park Irrigation	-	2,000	-		2,000
TOTALS		686,000	22,225,000	29,343,000	0	52,254,000

Meter stopped working. Meter checked. Working as of July. Usage is correct.

Q1 reading has usage in October before meter was pulled for winter.

Irrigation only turned on when needed and is mostly off.

Meter confirmed working. Located in old portion downstairs that is not used.

New register installed May 2023.

Building was under construction and usage began in Q3.

Only light usage and is not needed. Meter to be pulled. Natural area.

2022	1,160,000	20,051,000	17,125,000	1,941,000	40,277,000
% change	-40.9%	10.8%	71.3%	-100.0%	29.7%

Utility Commission Regular Meeting: October 23, 2023

AGENDA ITEM: Manual Well Ground Water Readings	AGENDA SECTION: EXECUTIVE DIRECTOR'S REPORT
PREPARED BY: Nick Egger, Public Works Director	AGENDA NO. 8.c.
ATTACHMENTS: GW Level Graphs 2019-2023	APPROVED BY: NAE
RECOMMENDED ACTION: No action necessary	

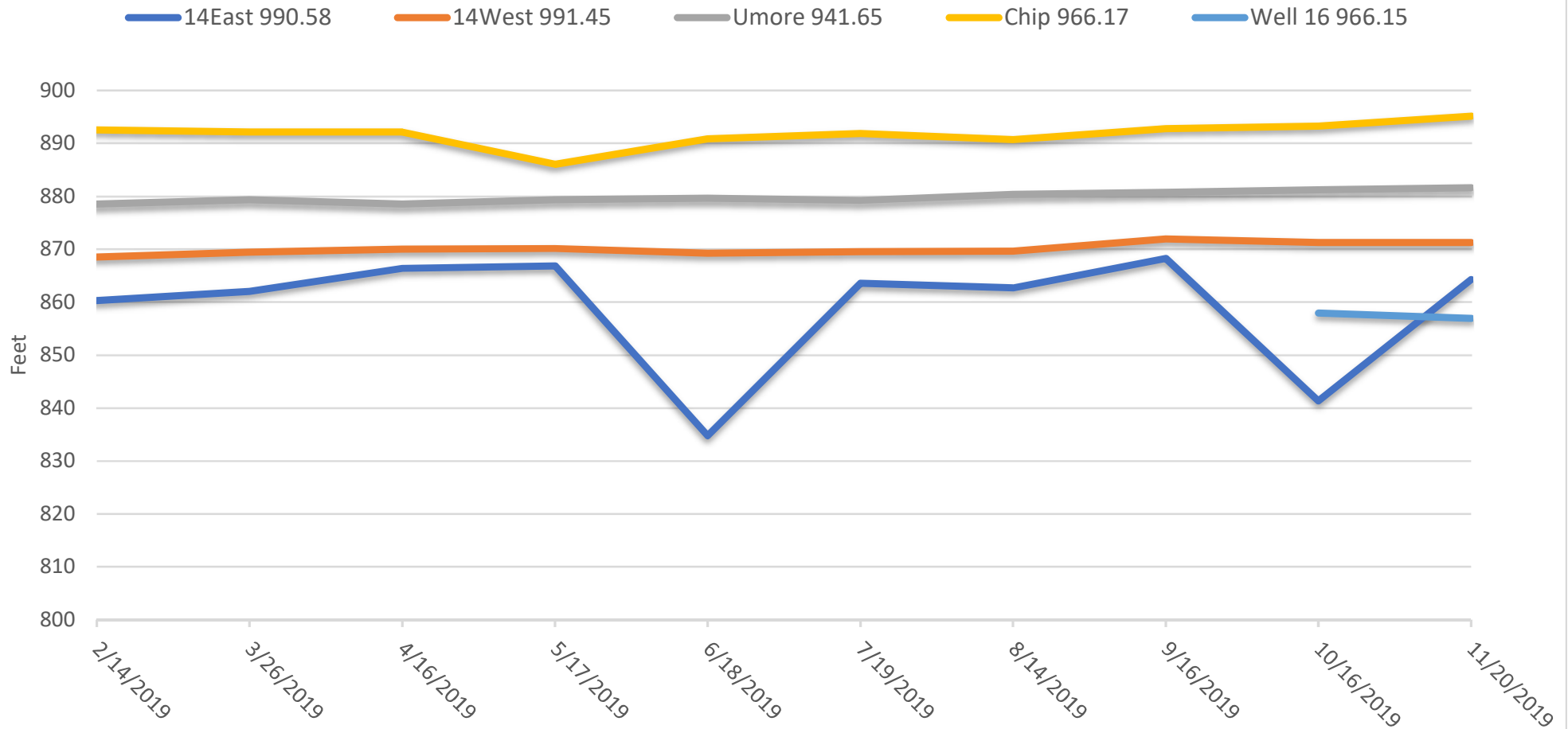
BACKGROUND

Graphs for the last several years showing groundwater elevations at the City's monitoring wells is attached for informational purposes.

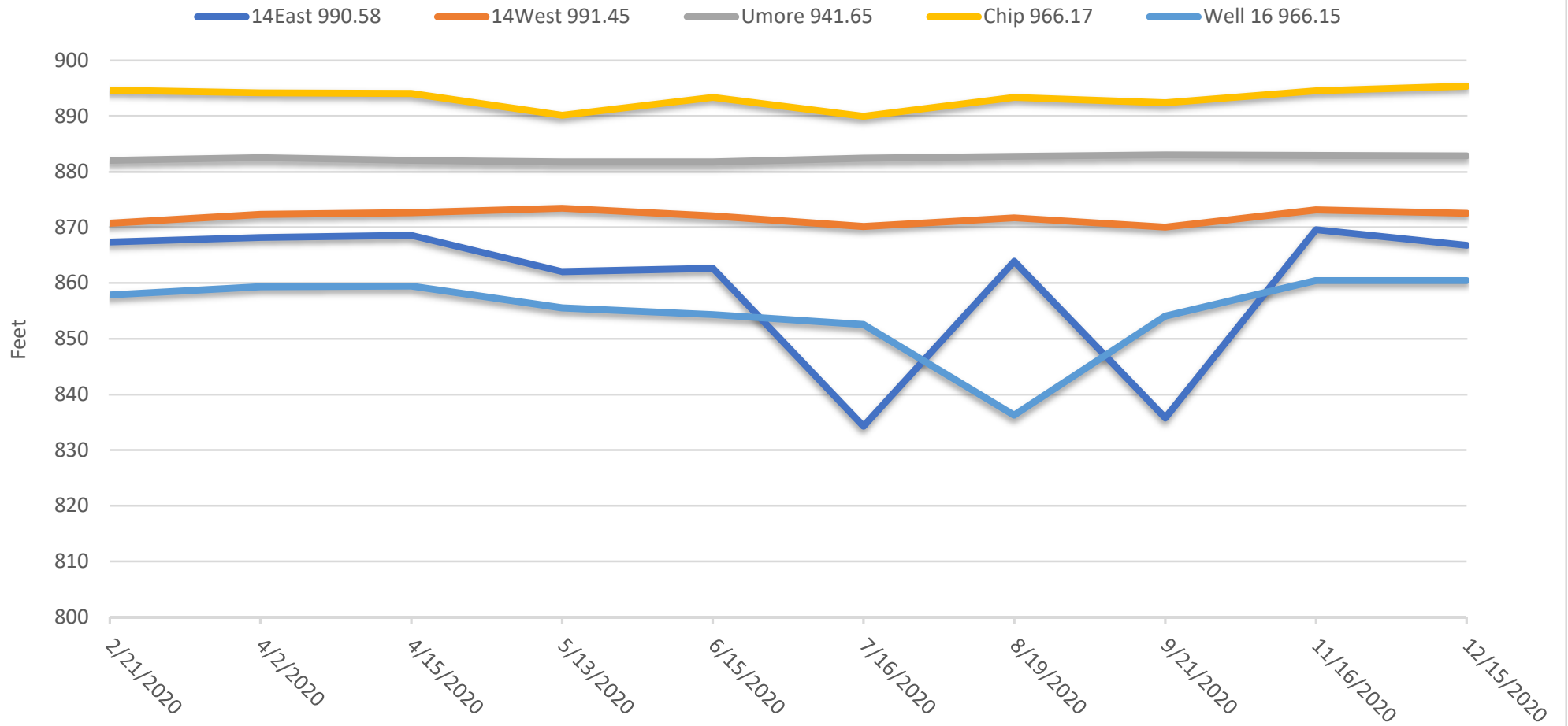
RECOMMENDATION

No action required.

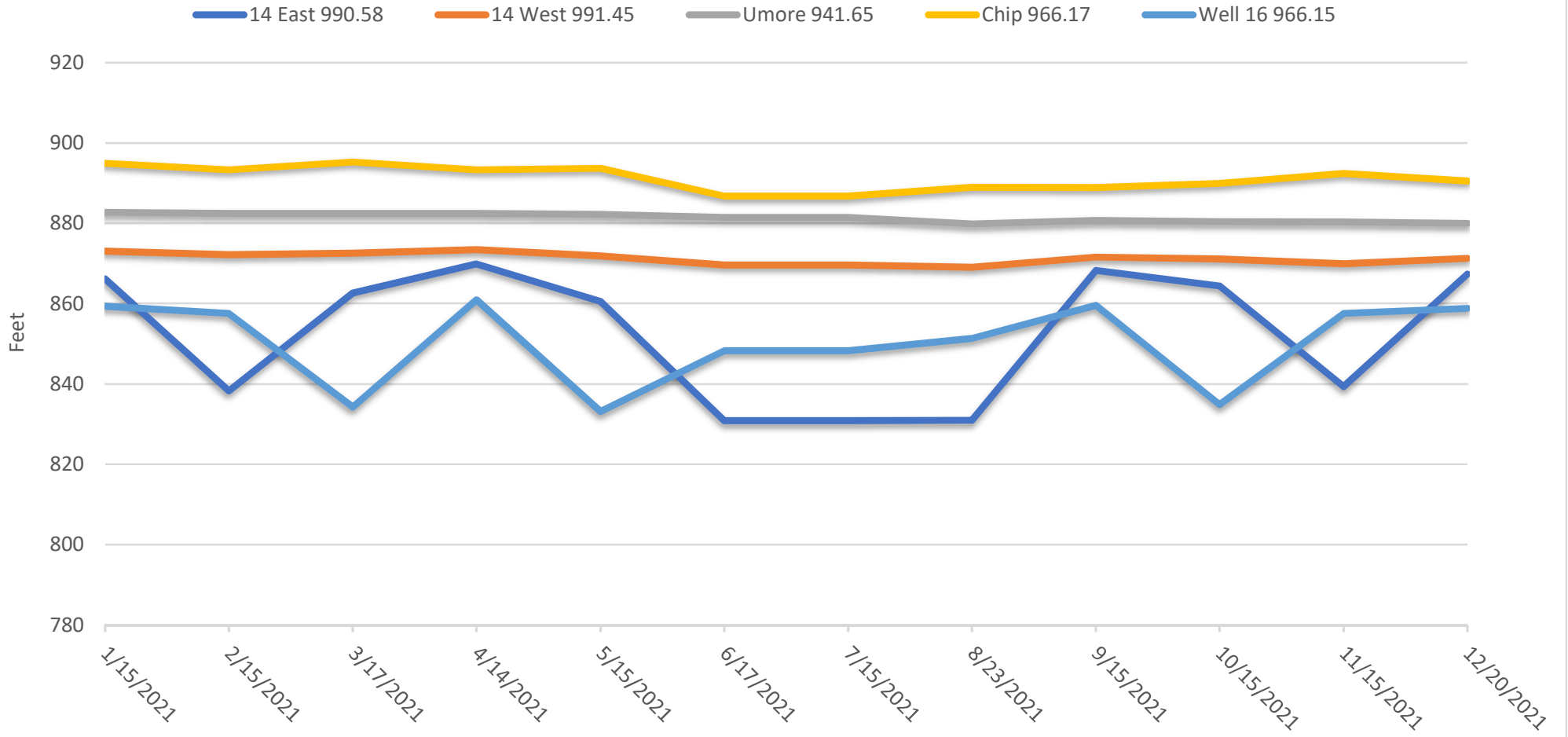
2019 Groundwater Manual Well Readings



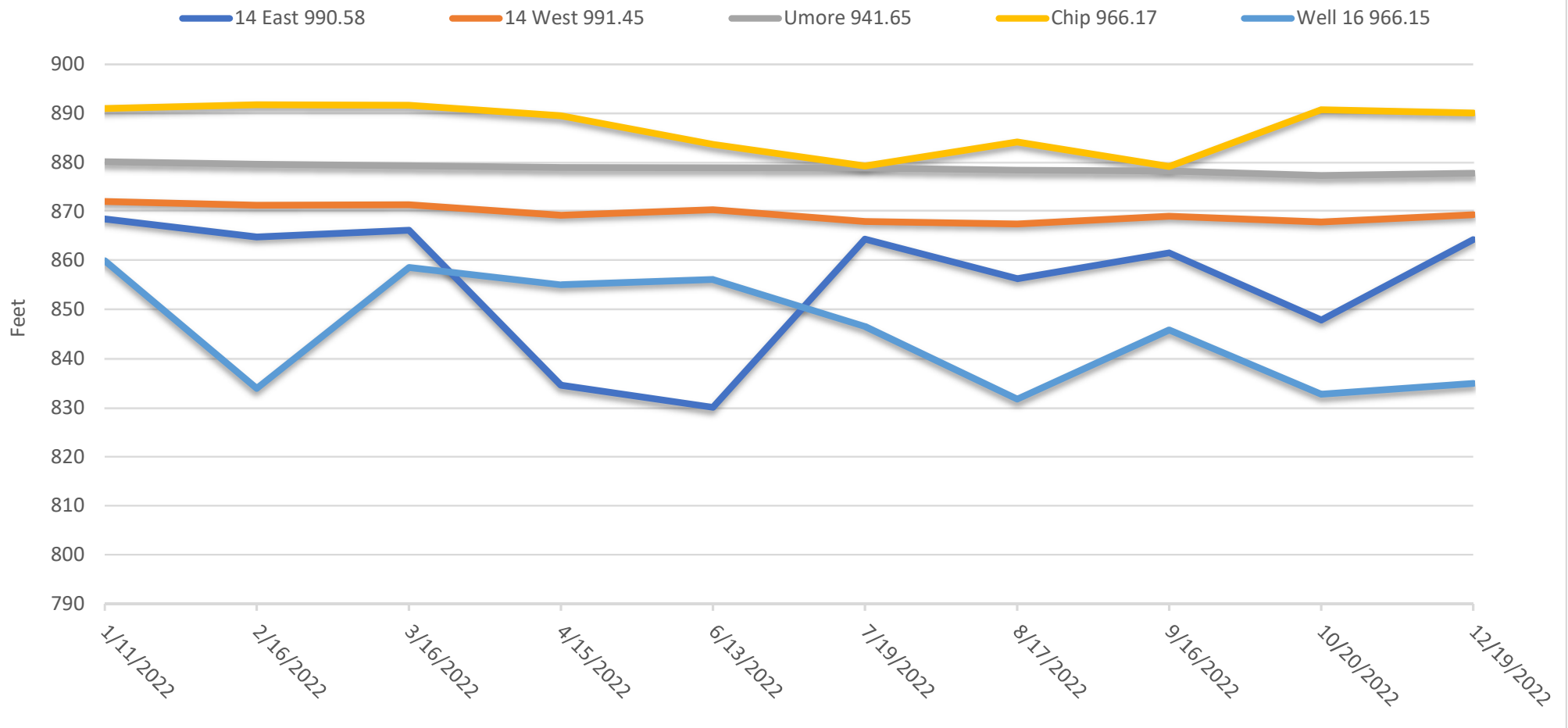
2020 Groundwater Manual Well Readings



2021 Groundwater Manual Well Readings



2022 Groundwater Manual Well Readings



2023 Groundwater Manual Well Readings

