

# Wastewater Rate Study Hilton Creek Community Services District Proposition 218 Hearing

ROBERT D. NIEHAUS, INC. JUNE 13, 2023

### Agenda

- Discuss Proposition 218
- Talk about why rate increases are needed
- Show finances under current revenues and proposed revenues
- Explain cost of service analysis
- Show proposed rates
- Show rate impacts



#### What is Proposition 218?

- Customers have the right to protest any increase in fees
- Customers should not pay more than the fair share of cost of service
- Public agencies cannot make a profit



#### Why are rate increases needed?

- Rising operating costs
- Capital needs
- Regulatory concerns
- Additional qualified staff
- Emergency reserves
- Last rate study more than 20+ years ago!



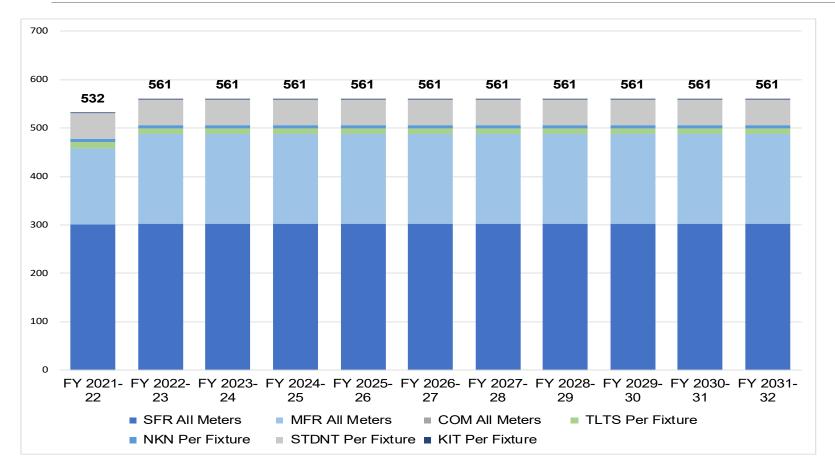
# Financial Plan

#### **Current Rates (revenue)**

Bi-Monthly Bill					
Category	Current				
Single-Family Residential	\$110.62				
Multi-Family Residential	\$110.62				
Commercial	\$110.62				
Toilets	\$80.98				
No Kitchen Nightly	\$47.32				
Students	\$3.92				
Kitchen	\$107.90				

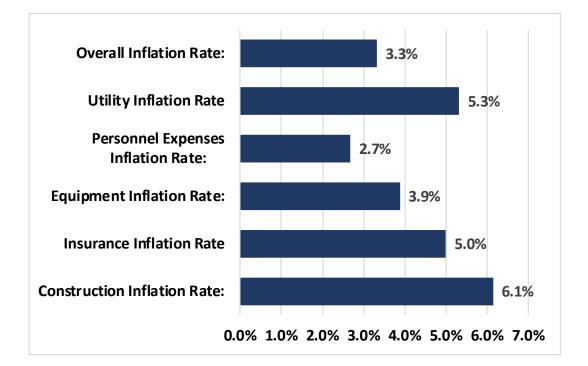


### Billing Unit Growth (revenue)





#### Financial Plan (expense drivers)



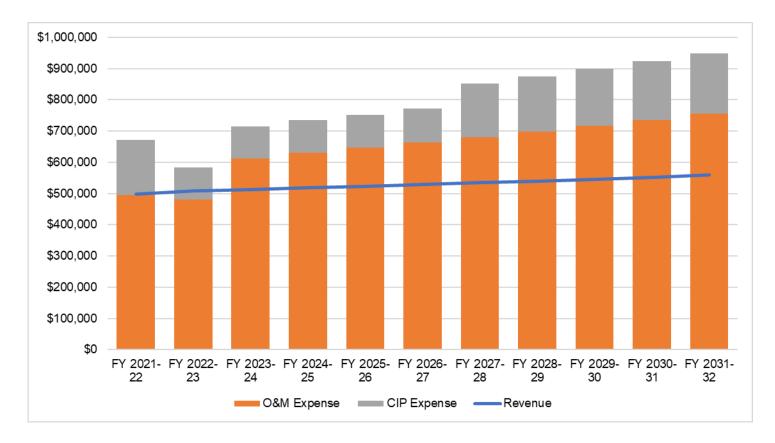
#### **Needed Capital Expenditures:**

Sludge dewatering Emergency generator plant Aeration blowers

**Reserve Targets:** 3 months of operating (for emergencies)

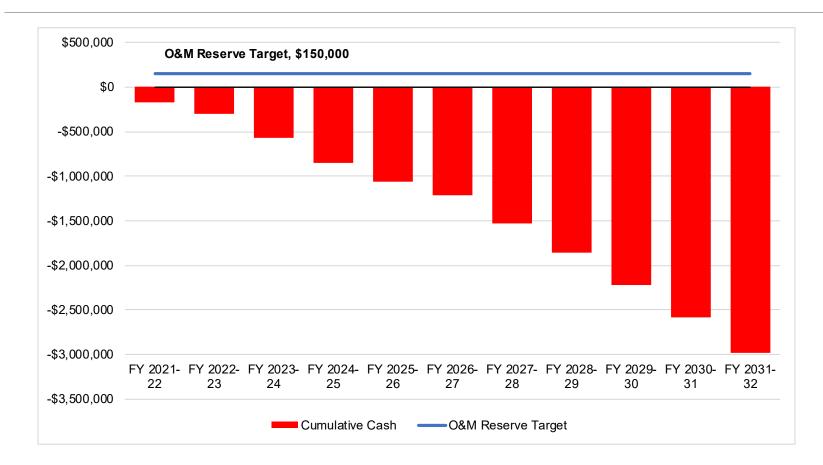


#### Financial Plan (no increase)



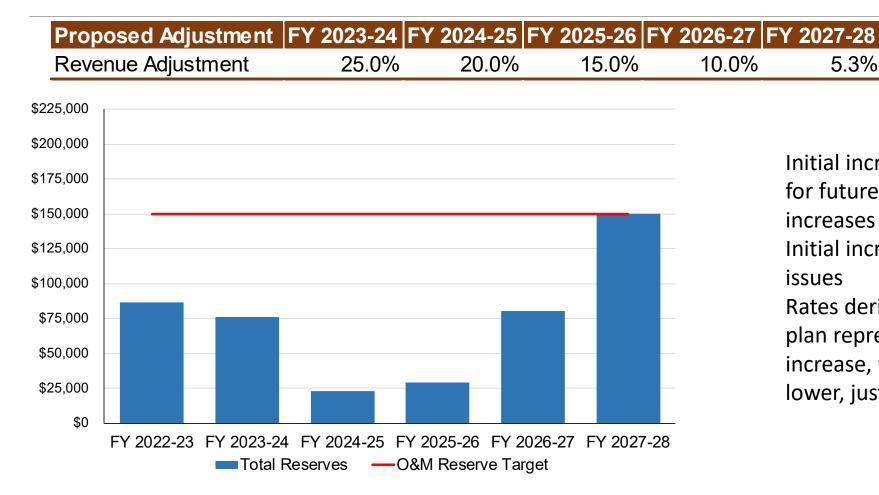


#### Cash Flow (no increase)





#### **Revenue Adjustments**



Initial increases offset the need for future rate increases, overall increases are lower Initial increases solve cash flow issues Rates derived from the financial plan represent a maximum increase, the District can still do lower, just not higher

5.3%



#### **Revenue Requirements**

Revenue Requirements	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28
Revenue Requirements					
O&M Expenses	\$480,491	\$611,784	\$629,580	\$646,100	\$663,071
Debt Service	\$0	\$0	\$0	\$0	\$0
PAYGO	\$102,009	\$102,009	\$105,431	\$106,387	\$109,945
Total Revenue requirements	\$582,500	\$713,793	\$735,010	\$752,486	\$773,016
Revenue Offsets					
Other Operating Revenues	\$0	\$0	\$0	\$0	\$0
Non-operating Revenues	(\$155,000)	(\$160,006)	(\$165,173)	(\$170,508)	(\$176,014)
Total Revenue Offsets	(\$155,000)	(\$160,006)	(\$165,173)	(\$170,508)	(\$176,014)
Adjustments					
Adjustments for Cash Balance	(\$10,259)	(\$53,098)	\$5,956	\$51,393	\$69,939
Adjustments for Mid-Year Increase	\$0	\$0	\$0	\$0	\$0
Total Adjustments	(\$10,259)	(\$53,098)	\$5,956	\$51,393	\$69,939
Total Revenue Requirements	\$417,241	\$500,689	\$575,793	\$633,372	\$666,941



## Cost of Service

Mass Balance Analysis – Determine the relative strength and flow of customer classes (COS Units)

- No water use data
- Total flow ~26.7 MGY
- EPA averages for flow and strength

Fixture	Unit Size	Daily Flow per Unit in Gallons	BOD in milligrams per Liter	TSS in milligrams per Liter
Single Family Residential	1	150	175	175
Multi-Family Residential	1	150	175	175
Commercial	1	100	150	150
Studio/Hotel Rooms	1	100	175	175
Students (School)	1	10	150	150
Commercial Kitchen	1	50	1,082	209
Toilets	15	4	124	650

Average Use of Kitchen x3 meals

Toilets assumed to be used 15 times a day



O&M Cost Allocation	Volume	BOD	TSS	Sewer Service	Total Percentage
Sewer Collection	50%	25%	25%	0%	100%
Pumping	50%	25%	25%	0%	100%
Sewer Treatment	25%	38%	38%	0%	100%
Customer Accounts	0%	0%	0%	100%	100%
Administrative and General	34%	25%	25%	16%	100%

Asset Cost Allocation	Volume	BOD	TSS	Sewer Service	Total Percentage
Sewer Treatment					
Structures	100%	0%	0%	0%	100%
Sewer Treatment Plant	25%	38%	38%	0%	100%
Collection and Disposal	50%	25%	25%	0%	100%
Sewer General	43%	24%	24%	9%	100%

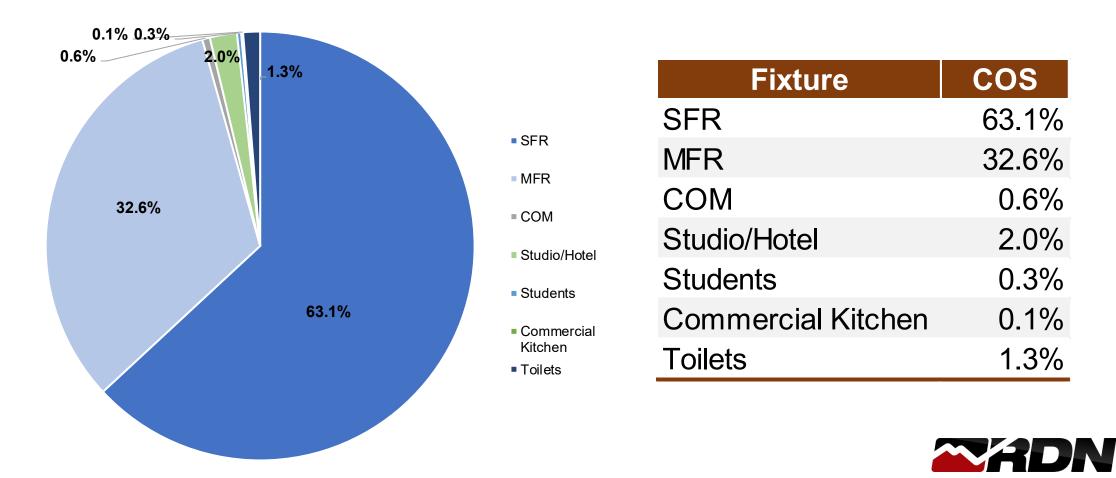
Cost Allocation Summary	Cost of Service	Volume	BOD	TSS	Sewer Service
O&M Expense	\$480,491	\$162,179	\$121,877	\$121,877	\$74,557
Debt Service	\$0	\$0	\$0	\$0	\$0
PAYGO	\$102,009	\$46,282	\$25,505	\$25,505	\$4,717
Total Revenue Requirements	\$582,500	\$208,460	\$147,382	\$147,382	\$79,274
% Distribution		35.8%	25.3%	25.3%	13.6%
Non-Rate Revenues Offset	(\$155,000)				
Total Revenue Requirements	\$427,500	\$152,990	\$108,165	\$108,165	\$58,180
Cash Reserve Adjustment	(\$10,259)				
<b>Revenue Requirements for Rates</b>	\$417,241	\$149,319	\$105,569	\$105,569	\$56,784
Category	Cost of Service	Volume	BOD	TSS S	Sewer Service
Revenue Requirements for Rates	\$417,241	\$149,319	\$105,569	\$105,569	\$56,784
Unit of Service	-	37,120	40,539	41,463	1,986
Unit Cost	-	\$4.02	\$2.60	\$2.55	\$28.59



	Volume	\$4.02/Unit	BOD	\$2.60/Unit	TSS	\$2.55/Unit	Sewer Service	\$28.59/Unit	Total Cost
Customer Class	Unit	Total	Unit	Total	Unit	Total	Unit	Total	of Service
Single-Family Residential	22,032	\$88,624	24,069	\$62,680	24,069	\$61,283	1,806	\$51,637	\$264,224
Full-sized MFR Units	13,541	\$54,470	14,793	\$38,525	14,793	\$37,665	150	\$4,289	\$134,949
Commercial	195	\$785	183	\$476	183	\$465	24	\$686	\$2,413
Studios/Hotel Rooms	878	\$3,533	960	\$2,499	960	\$2,443	-	\$0	\$8,475
School/Church	128	\$513	119	\$311	119	\$304	6	\$172	\$1,300
Kitchen	24	\$98	165	\$429	32	\$81	-	\$0	\$608
Toilets	322	\$1,296	249	\$649	1,307	\$3,327	-	\$0	\$5,272
Total	37,120	\$149,319	40,539	\$105,569	41,463	\$105,569	1,986	\$56,784	\$417,241



#### **Cost of Service Analysis Allocation**



Customer Class	Volume/Strength	Cost per Bill	Customer service	Cost per Bill	Total Bill
Residential (1st Unit)	\$212,587	\$117.71	\$55,926	\$28.59	\$146.30
Second MFR Unit	\$130,660	\$117.71	\$0	\$0.00	\$117.71
Commercial	\$1,726	\$35.97	\$686	\$28.59	\$64.56
Studios/Hotel Rooms	\$8,475	\$78.47	\$0	\$0.00	\$78.48
School/Church	\$1,128	\$3.55	\$172	\$0.54	\$4.09
Kitchen	\$608	\$101.39	\$0	\$0.00	\$101.39
Toilets	\$5,272	\$79.88	\$0	\$0.00	\$79.88



Proposed Rates

#### **Rate Recommendations**

Bi-Monthly Bill						
Category	Current					
Single-Family Residential	\$110.62					
Multi-Family Residential	\$110.62					
Commercial	\$110.62					
Toilets	\$80.98					
No Kitchen Nightly	\$47.32					
Students	\$3.92					
Kitchen	\$107.90					

Proposed Rates	FY 2023-24
SFR/MFR 1st. Unit	\$146.30
MFR 2nd Unit+	\$117.71
Commercial	\$64.56
Studios/Hotel Rooms	\$78.48
School/Church	\$4.09
Kitchen	\$101.40
Toilets	\$79.88



#### 5-year Rate Plan

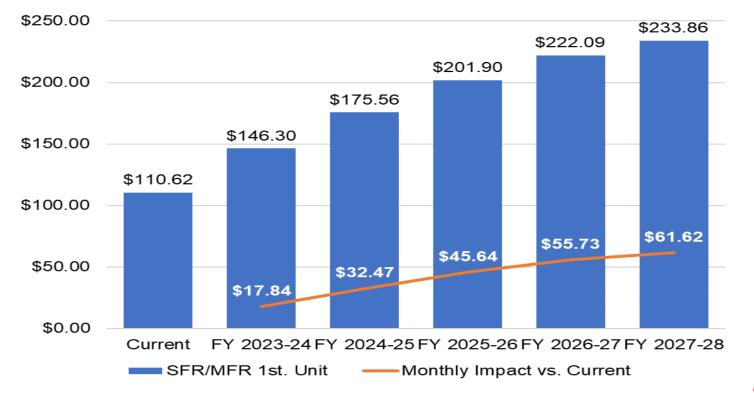
Proposed Rates	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28
SFR/MFR 1st. Unit	\$146.30	\$175.56	\$201.90	\$222.09	\$233.86
MFR 2nd Unit+	\$117.71	\$141.26	\$162.44	\$178.69	\$188.16
Commercial	\$64.56	\$77.47	\$89.09	\$98.00	\$103.19
Studios/Hotel Rooms	\$78.48	\$94.17	\$108.30	\$119.13	\$125.44
School/Church	\$4.09	\$4.90	\$5.64	\$6.20	\$6.53
Kitchen	\$101.40	\$121.68	\$139.93	\$153.92	\$162.08
Toilets	\$79.88	\$95.86	\$110.24	\$121.26	\$127.69



Rate Impacts

#### **Rate Impacts**

Initial residential impact ~ \$17.84 per month Commercial impacts vary by fixture





# Thank you