

Wastewater Rates

Public Works Commission Meeting September 8, 2022







Examples of Rate Structure Approaches

	Sewered Flow			
Agency	Factor [a]	Flow Factor Winter Period	Billed Flow	Single Family Cap
	I. ONGOING WATER	USE WITH NO FLOW FACTOR ADJUSTME	ENT	
East Bay MUD (7/1/2021)	100%	None	Ongoing	9 HCF
City of Pasadena (5/1/2021)	100%	None	Ongoing	43 HCF/mo [d]
City of Santa Rosa (7/1/2021)	100%	None	Ongoing	5-mo winter average
City of Ventura (7/2021)	100%	None	Ongoing	12 HCF/mo [a]
City of Santa Barbara 7/1/2022)	100%	None	Ongoing	10 HCF/mo
	II. ONGOING WATI	ER USE WITH FLOW FACTOR ADJUSTMEN	п	
City of San Francisco (7/1/2021)	90%	Not specified	Ongoing	None
City of Santa Monica (7/1/2021)	85%	Lowest 4 consecutive months [c]	Ongoing	None
City of Los Angeles (7/1/2020)	76% [b]	5-month winter average (Nov - Mar)	Ongoing	None
City of Beverly Hills (alternative 1)	66% [d]	3-month winter average (Jan - Mar)	Ongoing	None
City of Beverly Hills (alternative 2)	52% [d]	Lowest winter month	Ongoing	None
City of Beverly Hills (alternative 3)	24% - 30%	Mass balance	Ongoing	None
III.	FIXED CHARGE PER BI	ILL BASED ON EACH CUSTOMER'S WINTE	R FLOW	
City of San Diego (1/1/2022)	95%	5-month winter period	2 winter bills [e]	20 HCF/mo
City of Glendale (7/1/2021)	100%	None	Feb or Mar [e]	None
ı	V. EQUAL FIXED CHA	RGE PER BILLING PERIOD FOR ALL ACCO	UNTS	
City of West Hollywood	None	None	N/A	None
City of Palo Alto	None	None	N/A	None
City of Mountain View	None	None	N/A	None

[[]a] Sewered Flow Factor as a percent of ongoing metered water use.

[[]b] Los Angeles - 93% factor for commercial; recalculated annually.

[[]c] Santa Monica: Multi-family discharge factor increases from 90% to 99% depending the number of units.

[[]d] Beverly Hills: average of two years.

[[]e] San Diego and Glendale: Flow is used to bill customers for the next year (no variation from bill to bill)updated annually.





Annualized Winter Sewered Flow – 3 Month

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	Annual Flow [1]	Sewered Flow [2]	Return
Customer Class	hcf	hcf	to Sewer
	a	b	c = b/a
Single Family Residential			
Without Irrigation meter	2,017,021	1,339,931	66.4%
With Irrigation meter			100.0%
Irrigation meter			0.0%
Multiple Family Residences	572,457	551,726	96.4%
Low Strength Non Residential			
Commercial	547,737	517,779	94.5%
Municipal	41,207	27,252	66.1%
	588,944	545,031	
High Strength Non Residential			
Commercial	186,436	176,239	94.5%
Municipal	1,844	1,219	66.1%
_	188,279	177,458	
-	3,366,701	2,614,145	77.6%

^{1.} Average of CY 2017 & 2018 annual metered flow

^{2.} Average of lowest three winter months







	Annual Flow [1]	Sewered Flow [2]	Return
Customer Class	hcf	hcf	to Sewer
	a	b	c = b/a
Single Family Residential			
Without Irrigation meter	2,017,021	1,049,980	52%
With Irrigation meter			100%
Irrigation meter			0%
Multiple Family Residence	572,457	512,609	90%
Low Strength Non Resident	tial		
Commercial	547,737	455,544	83%
Municipal	41,207	20,523	50%
	588,944	476,067	
High Strength Non Residen	tial		
Commercial	186,436	155,056	83%
Municipal	1,844	918	50%
	188,279	155,974	
	3,366,701	2,194,630	65%

- 1. Average of CYs 2017, 2018, 2019 annual metered flow
- 2. Average of lowest month for each year





Comparison of Cost-of-Service Allocations

Annualized Winter Water Use Approach – 3 Month

	Current	Cost-of-	
	Revenue	Service	Difference
Single Family Residential	\$3,187,622	\$6,242,658	\$3,055,035
Multi Family Residential	\$5,304,141	\$3,246,030	(\$2,058,111)
Commercial Domestic Strength	\$2,739,728	\$1,941,207	(\$798,522)
Commercial Excess Strength	\$1,277,538	\$1,079,135	(\$198,403)
 Total	\$12,509,029	\$12.509.029	\$0

Annualized Winter Water Use Approach – 1 Month

	Current	Cost-of-	
	Revenue	Service	Difference
Single Family Residential	\$3,187,622	\$5,881,504	\$2,693,882
Multi Family Residential	\$5,304,141	\$3,505,726	(\$1,798,415)
Commercial Domestic Strength	\$2,739,728	\$2,002,049	(\$737,680)
Commercial Excess Strength	\$1,277,538	\$1,119,750	(\$157,788)
Total	\$12,509,029	\$12,509,029	\$0





Comparison of Rates

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Annualized Winter Water Use – 3 Month

Annualized Winter Water USE – 3 Month					
	Current	Cost of			
Customer Class	Bi-Monthly	Service			
Single Family					
Service Charge per dwelling unit	\$87.38	\$60.36			
Quantity Charge	n/a	\$3.02			
Multi Family					
Service Charge per dwelling unit	\$87.38	\$26.08			
Quantity Charge	n/a	\$3.02			
Commercial/Municipal					
Service Charge per account	\$34.20	\$60.36			
Quantity Charges (option 1 - existi	ng classes)				
Domestic Strength	\$4.74	\$3.02			
Excess Strength	\$7.08	\$5.87			
Quantity Charges (option 2 - prop	osed classes)				
Low Strength	n/a	\$3.02			
Med Strength	n/a	\$4.42			
High Strength	n/a	\$5.87			

Annualized Winter Water Use – 1 Month

	Current	Cost of
Customer Class	Bi-Monthly	Service
Single Family		
Service Charge per dwelling unit	\$87.38	\$58.16
Quantity Charge	n/a	\$3.58
Multi Family		
Service Charge per dwelling unit	\$87.38	\$27.51
Quantity Charge	n/a	\$3.58
Commercial/Municipal		
Service Charge per account	\$34.20	\$58.16
Quantity Charges (option 1 - existi	ng classes)	
Domestic Strength	\$4.74	\$3.58
Excess Strength	\$7.08	\$6.95
Quantity Charges (option 2 - propo	osed classes)	
Low Strength	n/a	\$3.58
Med Strength	n/a	\$5.24
High Strength	n/a	\$6.95





Annualized Winter Bill Comparison - 3 Month

Average Bi-Monthly Bill by Class					
			Commercial	Commercial	
	Single Family	Multi Family	Domestic/Low	Excess/High	
	Sample Bil	Is at Current Rates			
Bi-Monthly Service Charge	\$87.38	\$87.38	\$34.20	\$34.20	
Quantity Charge per hcf					
Metered water use			112	303	
Rate per hcf			\$4.74	\$7.08	
Total Quantity Charge	n/a	n/a	\$530.03	\$2,145.24	
Current Bi-Monthly Bill	\$87.38	\$87.38	\$564.23	\$2,179.44	
	Sample Bill	s at Proposed Rates			
Bi-Monthly Service Charge	\$60.36	\$26.08	\$60.36	\$60.36	
Quantity Charge per hcf					
Metered water use	56	9	112	303	
Return to sewer factor	66%	96%	95%	95%	
Sewered flow	37	9	106	286	
Rate per hcf	\$3.02	\$3.02	\$3.02	\$5.87	
Total Quantity Charge	\$111.77	\$26.00	\$319.23	\$1,681.33	
Proposed Bi-Monthly Bill	\$172.13	\$52.08	\$379.59	\$1,741.69	
	D	ifference			
Dollar Difference	\$84.75	(\$35.30)	(\$184.64)	(\$437.75)	





Annualized Winter Bill Comparison - 1 Month

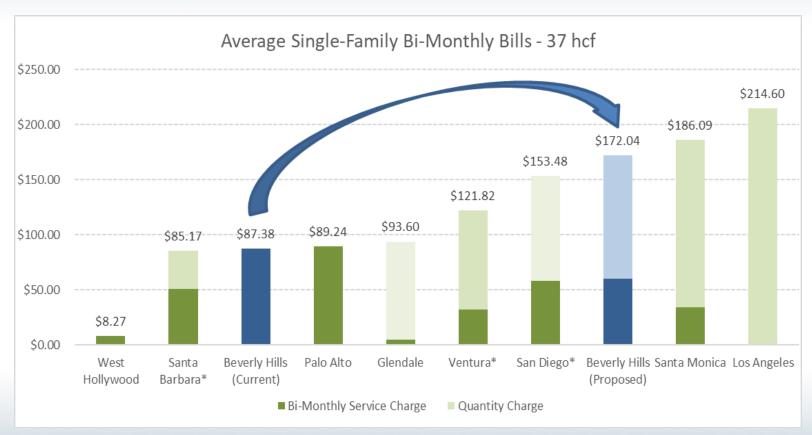
Average Bi-Monthly Bill by Class					
			Commercial	Commercial	
	Single Family	Multi Family	Domestic/Low	Excess/High	
	Sample Bil	ls at Current Rates			
Bi-Monthly Service Charge	\$87.38	\$87.38	\$34.20	\$34.20	
Quantity Charge per hcf					
Metered water use			112	303	
Rate per hcf			\$4.74	\$7.08	
Total Quantity Charge	n/a	n/a	\$530.03	\$2,145.24	
Current Bi-Monthly Bill	\$87.38	\$87.38	\$564.23	\$2,179.44	
	Sample Bill	s at Proposed Rates			
Bi-Monthly Service Charge	\$58.16	\$27.51	\$58.16	\$58.16	
Quantity Charge per hcf					
Metered water use	56	9	112	303	
Return to sewer factor	52%	90%	83%	83%	
Sewered flow	29	8	93	252	
Rate per hcf	\$3.58	\$3.58	\$3.58	\$6.95	
Total Quantity Charge	\$103.85	\$28.65	\$333.02	\$1,751.06	
Proposed Bi-Monthly Bill	\$162.00	\$56.16	\$391.18	\$1,809.22	
Difference					
Dollar Difference	\$74.62	(\$31.22)	(\$173.05)	(\$370.22)	





Single Family Bills – 3 Month

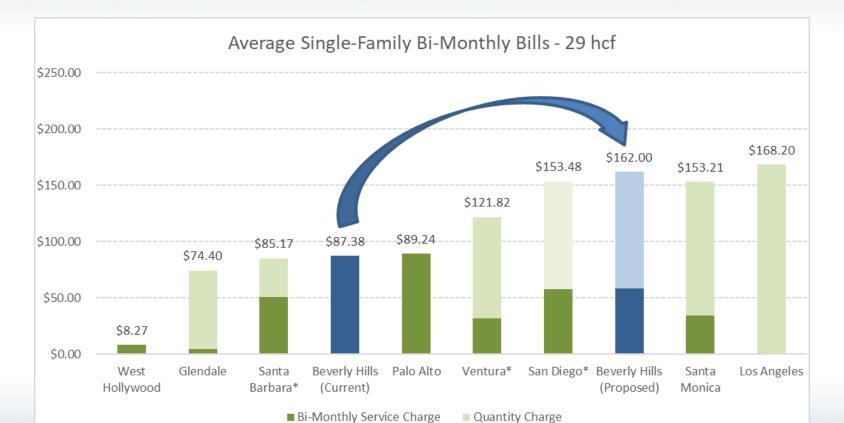




^{*}Caps water consumption for wastewater billing purposes







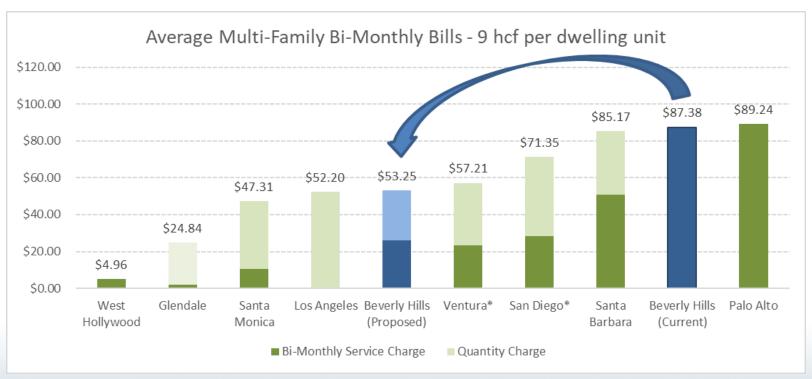
^{*}Caps water consumption for wastewater billing purposes





Multi Family Bill Comparison – 3 Month



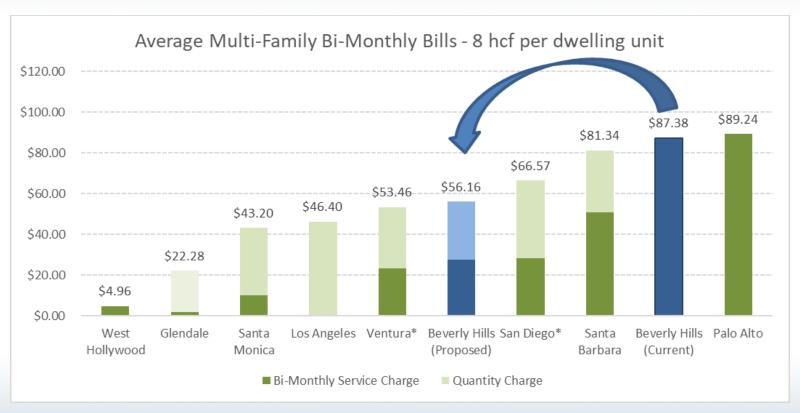


^{*}Caps water consumption for wastewater billing purposes









^{*}Caps water consumption for wastewater billing purposes



END OF PRESENTATION