Water & Sewer Rate and Capacity Fee Study

Avila Beach CSD Board Presentation

Final Results: Water & Sewer Rate and Capacity Fee Study

September 10, 2013

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Overview of NBS Presentation

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Summary and Rate Study Methodology

Summary of Rate Study Process

Summary:

- NBS Evaluated Numerous Financial Plan and Rate Structure Alternatives (including w/ and w/o Chevron)
- ABCSD Staff and Board Provided Review and Direction via Several Workshops
- Two Options Presented: Board Must Choose One
- Prop 218 Noticing and Adoption must be Completed

Overview of Rate Study Methodology

Primary Components of a Rate Study

1. Financial Plan/ Revenue Requirements



2. Cost-of-Service Analysis



3. Rate Design Analysis

Step 1: Financial Plan/
Revenue Requirements Compares the sources of
funds (revenues) and uses of
funds (expenses) of each
utility and determines the

revenue needed from rates.

Step 2: Cost of Service Analysis - Allocates the revenue requirements to the various customer classes in a "fair and equitable" manner that complies with Prop. 218. Step 3: Rate Design Analysis - Considers what rate structure alternatives will best meet the District's need to collect the annual revenue requirements from each customer class.

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Water Financial Plan Summaries

Water Financial Plan – Summary of Assumptions

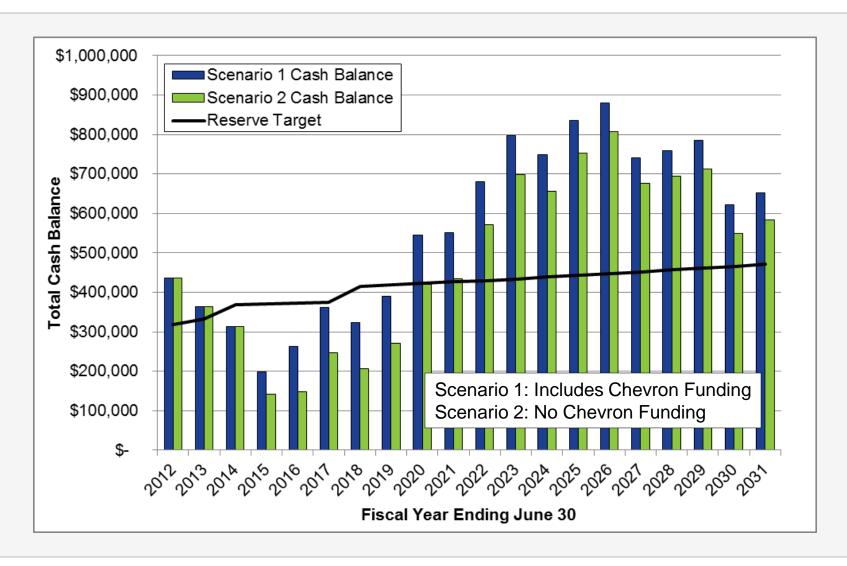
Financial Plan General Assumptions:

- Reserve Fund Targets:
 - ✓ Operating Reserve = 90 days of Operating Expenses
 - ✓ Capital Rehab & Replacement = 2x the Avg. capital expenditure for FY 2012/13 2018/19, or \$300,000/yr.
 - ✓ Connection Fee Reserves = \$400,000
 - ✓ Connection Fee Reserves Borrowed and Paid Back by Sewer Utility = \$281,000

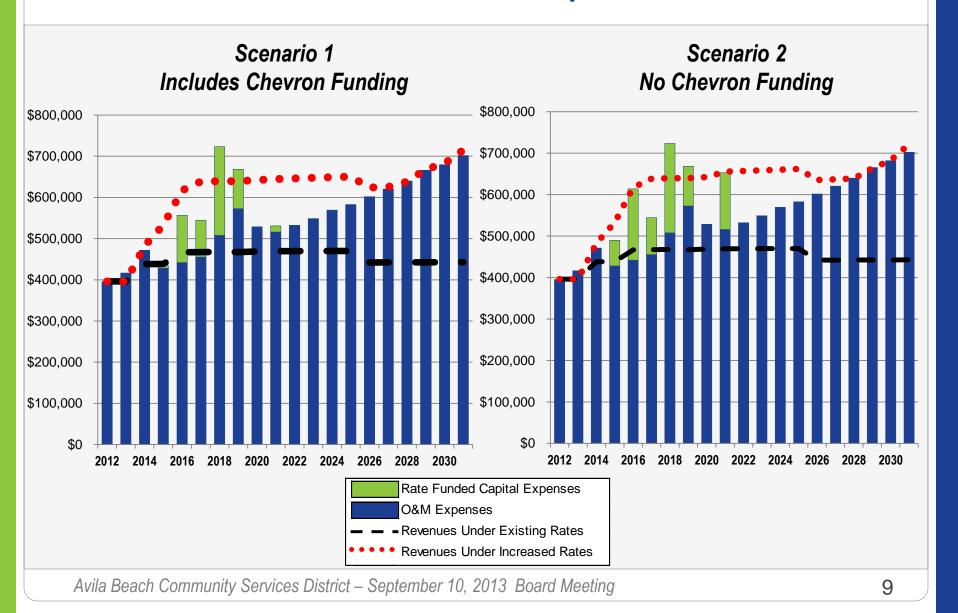
Assumption for Scenarios:

- Scenario 1: Chevron Funding for Booster Station Project
 = \$113,000
- Scenario 2: No Chevron Funding or Project

Water Financial Plans – Reserves and Reserve Targets



Water Financial Plans – Revenue Requirements vs. Revenue



Notes About Proposed Water Rate Structure

- New Water Rate Structure:
 - ✓ Single-commodity charge per unit of consumption.
 - ✓ Fixed charge based on meter size.
- Benefits of New Water Rate Structure:
 - ✓ Better reflects the cost of water for each customer.
 - ✓ Encourages water conservation
- Fixed vs. Variable Cost Allocations new rates recover more from fixed costs than current rate structure. This results in greater revenue stability:

Revenue from Fixed vs. Variable Charges	Exisitin	g Rates	Rates Proposed Rate		
Fixed Charges	\$164,591	46%	\$291,309	70%	
Variable Charges	\$194,188	54%	\$124,159	30%	
Total Revenue	\$358,779	100%	\$415,467	100%	

Existing and Proposed Water Rates

Water Rate Schedule	Current		P	roposed Rate	es				
Water Rate Schedule	Rates	FY 2013/14	FY 2014/15	FY 2015/16	FY 2016/17	FY 2017/18			
Projected Annual Increase in Revenue Re	12.00%	12.00%	12.00%	4.00%	0.00%				
Fixed Meter Charge (currently, this is the base/minimum charge)									
5/8 x 3/4 inch	\$40.70	\$55.42	\$62.07	\$69.52	\$72.30	\$72.30			
1 inch	\$40.70	\$145.43	\$162.88	\$182.42	\$189.72	\$189.72			
1 1/2 inch	\$40.70	\$181.43	\$203.20	\$227.58	\$236.69	\$236.69			
2 inch	\$40.70	\$361.44	\$404.81	\$453.39	\$471.52	\$471.52			
2 inch compound	\$40.70	\$577.45	\$646.74	\$724.35	\$753.32	\$753.32			
Commodity Charge (per hcf)									
All Users									
0 - 5 hcf	\$0.00	\$3.90	\$4.36	\$4.89	\$5.08	\$5.08			
5 + hcf	\$8.14	\$3.90	\$4.36	\$4.89	\$5.08	\$5.08			

Note: Low-income customers will receive a \$10 credit on their monthly water bill (subject to qualification by ABCSD staff).

There is not a material difference in the outcomes of Scenarios 1 and 2 for the Water Utility, therefore there is only one set of proposed rates.

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Sewer Financial Plan Summaries

Sewer Financial Plan – Summary of Assumptions

Financial Plan General Assumptions for All Scenarios:

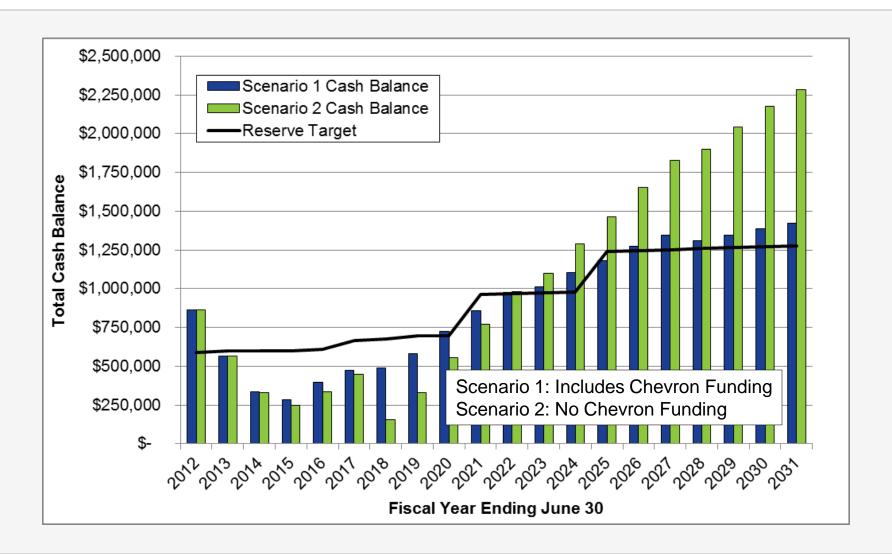
- Target Reserve Fund Assumptions:
 - ✓ Operating Reserve = 90 days of Operating Expenses
 - ✓ Capital Rehab & Replacement = Phased in to \$1.04 million (2x the average annual capital exp. in FY 2012/13 2018/19)
 - ✓ Connection Fee Reserves for Capital Improvements = \$700,000
- San Luis Harbor District Funding = 35% of total CIP costs not funded by a development agreement
- Connection Fee Reserves Borrowed from and Paid Back to Water Utility = \$281,000
- State Revolving Fund Loan Financing Assumed = \$600,000

Sewer Financial Plan – Summary of Assumptions

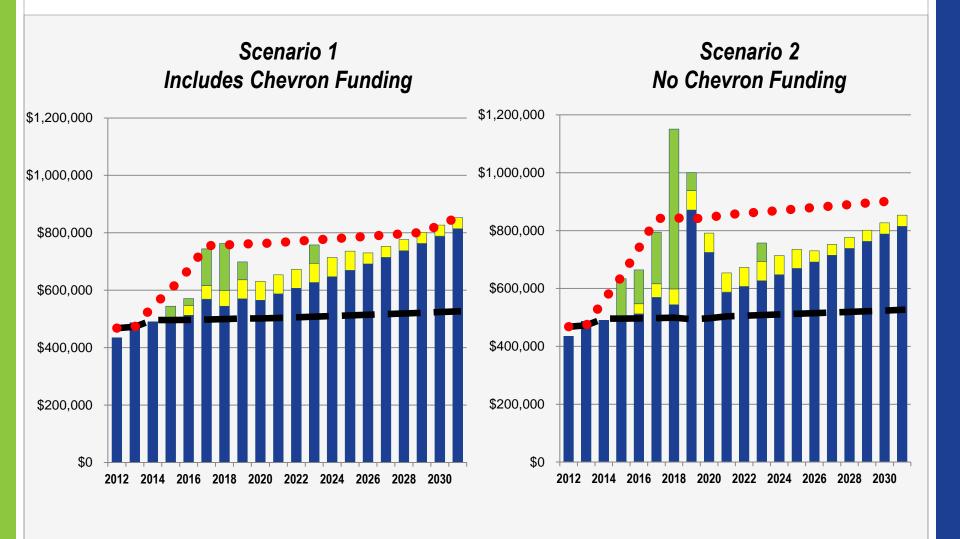
Assumptions for Scenarios:

- Scenario 1: Funding from Chevron = 50% of Secondary Treatment Expansion and Sewer Line Replacements (Total of \$1.3 million)
- Scenario 2: No Funding from Chevron

Sewer Financial Plans – Reserves & Reserve Targets



Sewer Financial Plans – Revenue Requirements vs. Revenue



Notes About Proposed Sewer Rate Structure

- New Sewer Rate Structure:
 - ✓ Fixed charge = per unit charges based on customer class.
 - ✓ Variable charges start with first unit of consumption.
- Benefits:
 - ✓ Better reflects the cost of providing sewer service to each customer class
- Fixed vs. Variable Cost Allocations: new rates recover more from fixed charges than current rate structure, which results in greater revenue stability.

Revenue from Fixed vs. Variable Charges	Existing	g Rates	Propose Scena		Proposed Rates Scenario 2		
Fixed Charges	\$121,273	44%	\$212,198	70%	\$222,332	70%	
Variable Charges	\$152,531	56%	\$91,847	30%	\$97,043	30%	
Total Revenue	\$273,804	100%	\$304,045	100%	\$319,375	100%	

Scenario 1: Cost-of-Service Results

Allocation of Revenue Requirements to Customer Classes:

					Custome	r Cl	asses			
Classification Components	t Revenue juirements	esidential R & MFR)	ommercial General	C	ommercial Hotel	R	estaurant	h	ndustrial	Public Facility
Volume	\$ 173,542	\$ 78,850	\$ 12,279	\$	41,015	\$	28,708	\$	1,436	\$ 11,254
Treatment										
- BOD	\$ 62,921	\$ 16,351	\$ 1,910	\$	13,183	\$	29,766	\$	194	\$ 1,517
- TSS	\$ 62,921	\$ 24,185	\$ 2,825	\$	7,548	\$	26,417	\$	220	\$ 1,726
Customer-Related	\$ 4,661	\$ 3,794	\$ 654	\$	43	\$	14	\$	57	\$ 99
Net Revenue Requirement	\$ 304,045	\$ 123,180	\$ 17,667	\$	61,789	\$	84,905	\$	1,907	\$ 14,596

Comparison to Current Allocation of Costs to Customer Classes:

	C	OS Allocated	d Costs - 2014	vs. Current Rates			
Customer Class	COS Rev. Reqt.		% of COS Rev. Reqt.		evenue at esent Rates	Percent Difference	
Residential (SFR & MFR)	\$	123,180	40.5%	\$	105,363	16.9%	
Commercial General	\$	17,667	5.8%	\$	28,669	-38.4%	
Commercial Hotel	\$	61,789	20.3%	\$	57,911	6.7%	
Restaurant	\$	84,905	27.9%	\$	44,228	92.0%	
Industrial	\$	1,907	0.6%	\$	3,382	-43.6%	
Public Facility	\$	14,596	4.8%	\$	16,478	-11.4%	
Total	\$	304,045	100.0%	\$	256,031	18.8%	

Scenario 2: Cost-of-Service Results

Allocation of Revenue Requirements to Customer Classes:

			Customer Classes											
Classification Components	Net Revenue Requirements		Residential			ommercial General			R	estaurant	Industrial		Public Facility	
Volume	\$	182,292	\$	82,826	\$	12,898	\$	43,083	\$	30,156	\$	1,509	\$	11,822
Treatment														
- BOD	\$	66,094	\$	17,176	\$	2,006	\$	13,848	\$	31,267	\$	203	\$	1,593
- TSS	\$	66,094	\$	25,405	\$	2,967	\$	7,929	\$	27,749	\$	231	\$	1,813
Customer-Related	\$	4,896	\$	3,985	\$	687	\$	45	\$	15	\$	60	\$	104
Net Revenue Requirement	\$	319,375	\$	129,391	\$	18,558	\$	64,904	\$	89,186	\$	2,003	\$	15,332

Comparison to Current Allocation of Costs to Customer Classes:

	C	OS Allocated	Costs - 2014	vs. Current Rates			
Customer Class	COS Rev. Reqt.		% of COS Rev. Reqt.		evenue at esent Rates	Percent Difference	
Residential (SFR & MFR)	\$	129,391	40.5%	\$	105,363	22.8%	
Commercial General	\$	18,558	5.8%	\$	28,669	-35.3%	
Commercial Hotel	\$	64,904	20.3%	\$	57,911	12.1%	
Restaurant	\$	89,186	27.9%	\$	44,228	101.7%	
Industrial	\$	2,003	0.6%	\$	3,382	-40.8%	
Public Facility	\$	15,332	4.8%	\$	16,478	-7.0%	
Total	\$	319,375	100.0%	\$	256,031	24.7%	

Existing and Proposed Sewer Rates – Scenario 1

Sewer Rate Schedule	Current		Proposed Rates									
	Rates	FY 2013/14	FY 2014/15	FY 2015/16	FY 2016/17	FY 2017/18						
Projected Annual Increase in Reven	ue Requirements	19.00%	19.00%	19.00%	19.00%	0.00%						
Fixed Charge (currently, this	s is the base/n	ninimum charg	e)									
Single-Family	\$28.70	\$29.21	\$34.76	\$41.36	\$49.22	\$49.22						
Multi-Family	\$30.35	\$29.21	\$34.76	\$41.36	\$49.22	\$49.22						
Commercial General ¹	\$38.70	\$22.40	\$26.66	\$31.73	\$37.75	\$37.75						
Commercial Hotel	\$38.70	\$1,201.45	\$1,429.72	\$1,701.37	\$2,024.63	\$2,024.63						
Restaurant	\$41.35	\$4,900.00	\$5,831.00	\$6,938.89	\$8,257.28	\$8,257.27						
Industrial	\$44.15	\$27.81	\$33.09	\$39.38	\$46.86	\$46.86						
Public Facility	\$38.70	\$121.64	\$144.75	\$172.25	\$204.98	\$204.98						
Commodity Charge (per hcf	currently > 5	hcf)										
Single-Family	\$5.74	\$2.70	\$3.22	\$3.83	\$4.56	\$4.56						
Multi-Family	\$6.07	\$2.70	\$3.22	\$3.83	\$4.56	\$4.56						
Commercial General ¹ Commercial Hotel	\$7.74 \$7.74	\$2.49 \$2.61	\$2.96 \$3.10	\$3.53 \$3.69	\$4.20 \$4.39	\$4.20 \$4.39						
Restaurant	\$8.27	\$5.25	\$6.24	\$7.43	\$8.84	\$8.84						
Industrial	\$8.83	\$2.30	\$2.74	\$3.25	\$3.87	\$3.87						
Public Facility	\$7.74	\$2.25	\$2.67	\$3.18	\$3.78	\$3.78						

^{1.} For the one customer that is a vacant lot, currently billed as a Restaurant and is expected to develop as a mixed use customer; NBS recommends billing this customer as General Commercial on a temporary basis and but allowing them to retain their previous restaurant designation if/when they develop as a restaurant.

Existing and Proposed Sewer Rates – Scenario 2

Sewer Rate Schedule	Current Rates			Proposed Rates	5	
		FY 2013/14	FY 2014/15	FY 2015/16	FY 2016/17	FY 2017/18
Projected Annual Increase in Revenue	Requirements	25.00%	25.00%	25.00%	20.00%	0.00%
Fixed Charge (currently, this is	s the base/minim	um charge)				
Single-Family	\$28.70	\$30.68	\$38.35	\$47.94	\$57.53	\$57.53
Multi-Family	\$30.35	\$30.68	\$38.35	\$47.94	\$57.53	\$57.53
Commercial General ¹	\$38.70	\$23.53	\$29.42	\$36.77	\$44.13	\$44.13
Commercial Hotel	\$38.70	\$1,262.02	\$1,577.53	\$1,971.91	\$2,366.29	\$2,366.29
Restaurant	\$41.35	\$5,100.00	\$6,375.00	\$7,968.75	\$9,562.50	\$9,562.50
Industrial	\$44.15	\$29.21	\$36.51	\$45.64	\$54.77	\$54.77
Public Facility	\$38.70	\$127.77	\$159.71	\$199.64	\$239.57	\$239.57
Commodity Charge (per hcf, c	urrently >5 hcf)					
Single-Family	\$5.74	\$2.84	\$3.55	\$4.44	\$5.33	\$5.33
Multi-Family	\$6.07	\$2.84	\$3.55	\$4.44	\$5.33	\$5.33
Commercial General ¹	\$7.74	\$2.62	\$3.27	\$4.09	\$4.91	\$4.91
Commercial Hotel	\$7.74	\$2.74	\$3.42	\$4.28	\$5.14	\$5.14
Restaurant	\$8.27	\$5.63	\$7.03	\$8.79	\$10.55	\$10.55
Industrial	\$8.83	\$2.41	\$3.02	\$3.77	\$4.53	\$4.53
Public Facility	\$7.74	\$2.36	\$2.95	\$3.69	\$4.42	\$4.42

^{1.} For the one customer that is a vacant lot, currently billed as a Restaurant and is expected to develop into a mixed use customer - NBS recommends billing the customer as General Commercial on a temporary basis and should be able to retain their previous designation as a restaurant if/when the customer builds something new.

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Water and Sewer Capacity Fees

Capacity Fee Methodology

- Capacity Fees are a Combination of:
 - ✓ System Buy-In, which is the value of existing system assets, plus
 - ✓ System Expansion, or Incremental Cost, which is the value of planned, future improvements
- Requires new customers to pay their fair & equitable share of the system costs required to provide them capacity
- New customers are then equal participants in financial commitment and obligation to the utility

Summary of Capacity Fee Calculation

	,	Allocation to Ne	w Developmen	t
Components of Capacity Fees	Water Scenario 1 (w/Chevron)	Water Scenario 2 (w/o Chevron)	Wastewater Scenario 1 (w/Chevron)	Wastewater Scenario 2 (w/o Chevron)
System Asset Values:				
Existing System Buy-In	\$776,586	\$468,151	\$1,550,142	\$942,455
Future System Expansion	420,250	274,470	594,738	476,921
Subtotal	\$1,196,836	\$742,621	\$2,144,881	\$1,419,376
Adjustments to Cost Basis:				
Cash Reserves	\$9,583	\$5,777	\$46,693	\$28,389
Subtotal	\$9,583	\$5,777	\$46,693	\$28,389
Total Adjusted Cost Basis	\$1,206,419	\$748,398	\$2,191,574	\$1,447,765
Projected Future EDU's	234	116	234	116
Total Maximum Capacity Fee Per EDU	\$5,163	\$6,452	\$9,379	\$12,481

This calculation determines the <u>maximum</u> fee the District can charge, but can choose to adopt fees lower than this.

Sample of Water Capacity Fees

Type of Use	Existing Water Capacity Fee	Scenario 1 Updated Water Capacity Fee (w/Chevron)	Scenario 2 Updated Water Capacity Fee (w/o Chevron)
Single Family Residence or Condominium, per Residence			
One Bedroom	\$4,781	\$3,442	\$4,301
Two Bedroom	\$7,171	\$5,163	\$6,452
Three Bedroom	\$9,561	\$6,884	\$8,602
Four Bedroom	\$11,951	\$8,605	\$10,753
Multi Dwelling			
One Bedroom	\$3,824	\$2,754	\$3,441
Two Bedroom	\$5,737	\$4,130	\$5,161
Three Bedroom	\$7,649	\$5,507	\$6,882
Department Store (per employee)	\$765	\$551	\$688
Drug Store	\$9,561	\$6,884	\$8,602
Meat Market			
Motel or Hotel (per room)	\$2,390	\$1,721	\$2,151
Office Building (per employee)	\$478	\$344	\$430
Restaurant (per seat)	\$382	\$275	\$344

Note: Updated fees are based on each user category's equivalency to a two-bedroom SFR unit.

Sample of Sewer Capacity Fees

Type of Use	Existing Sewer Capacity Fee	Scenario 1 Updated Sewer Capacity Fee (w/Chevron)	Scenario 2 Updated Sewer Capacity Fee (w/o Chevron)
Single Family Residence or Condominium, per Residence			
One Bedroom	\$981	\$6,253	\$8,320
Two Bedroom	\$1,471	\$9,379	\$12,481
Three Bedroom	\$1,962	\$12,505	\$16,641
Four Bedroom	\$2,452	\$15,632	\$20,801
Multi Dwelling			
One Bedroom	\$785	\$5,002	\$6,656
Two Bedroom	\$1,177	\$7,503	\$9,985
Three Bedroom	\$1,570	\$10,004	\$13,313
Department Store (per employee)	\$157	\$1,000	\$1,331
Drug Store	\$1,962	\$12,505	\$16,641
Meat Market	\$196	\$1,251	\$1,664
Motel or Hotel (per room)	\$490	\$3,126	\$4,160
Office Building (per employee)	\$98	\$625	\$832
Restaurant (per seat)	\$78	\$500	\$666

Note: Updated fees are based on each user category's equivalency to a two-bedroom SFR unit.

Conclusion and Next Steps

1. Conclusion: Board Must Select Scen. 1 or 2 for Water & Sewer Rates and Capacity Fees

2. Next Steps:

- To Adopt New Rates:
 - Mail Prop. 218-compliant public notices to Water and Sewer Customers
 - Hold a public hearing no less than 45 days after mailing those notices
- To Adopt New Capacity Fees:
 - Publish notice of District's intent to update the fees
 - Hold a public hearing no less than 10 days after notice is published