

# **Sewer Utility**

**Proposed Rates** 

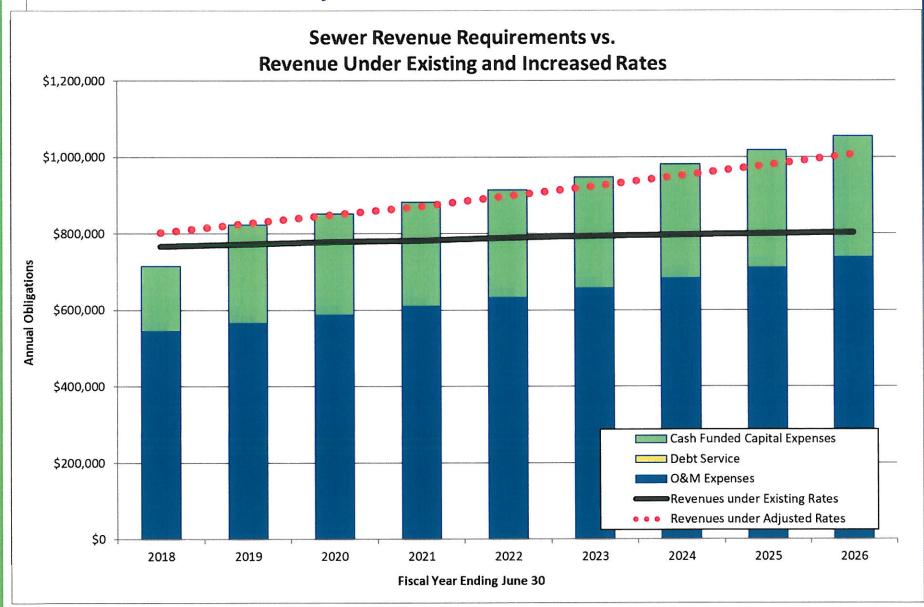






**A14** Kim B, 4/9/2018

### **Financial Analysis**

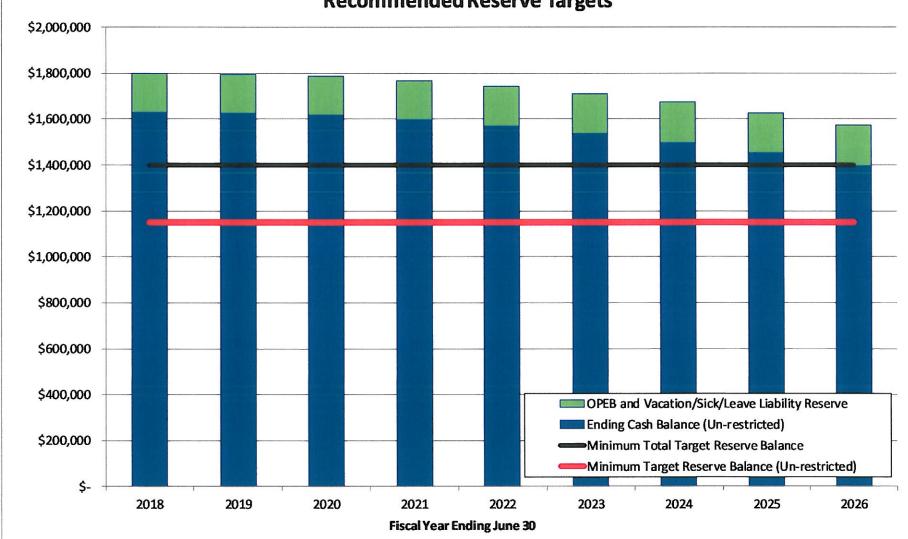


# Financial Analysis, cont.

Fiscal	Total Rate
Year	Revenue
FY 2017/18	\$ 630,006
FY 2018/19	668,640
FY 2019/20	687,412
FY 2020/21	706,711
FY 2021/22	726,552
FY 2022/23	746,950

#### Financial Analysis, cont.





#### **Cost of Service**

Customer Class	Number of Accounts (1)	Number of EDUs (1)	Percentage of Assigned EDUs	Average EDUs per Account
Apartment	9	35.5	2.5%	3.9
Business	93	246.9	17.7%	2.7
Camp	3	50.0	3.6%	16.7
Church	11	19.5	1.4%	1.8
Motel	25	82.0	5.9%	3.3
Park	2	30.0	2.2%	15.0
Residential	419	445.0	31.9%	1
Restaurant	17	120.7	8.7%	7.1
School	5	227.4	16.3%	45.5
Trailer Park	2	136.0	9.8%	68.0
Total	586	1,393.0	100.0%	2.4

<sup>1.</sup> Source: Commercial Sewer EDUs.xlsx and Income Statement 02-14-18.pdf (residential EDUs).

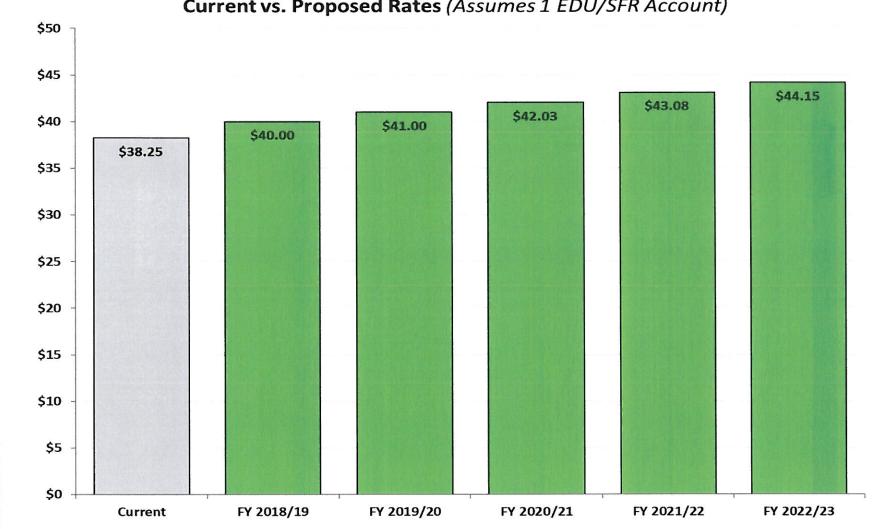
### Rate Design

Sewer Rate	Current Monthly		Propos	ed Monthly Sewe	er Rates	
Schedule	Schedule Rates (1)	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23
Rate Per EDU	\$38.25	\$40.00	\$41.00	\$42.03	\$43.08	\$44.15

<sup>1.</sup> Sewer customers are charged on the basis of their number of assigned Equivalent Dwelling Units (EDUs).

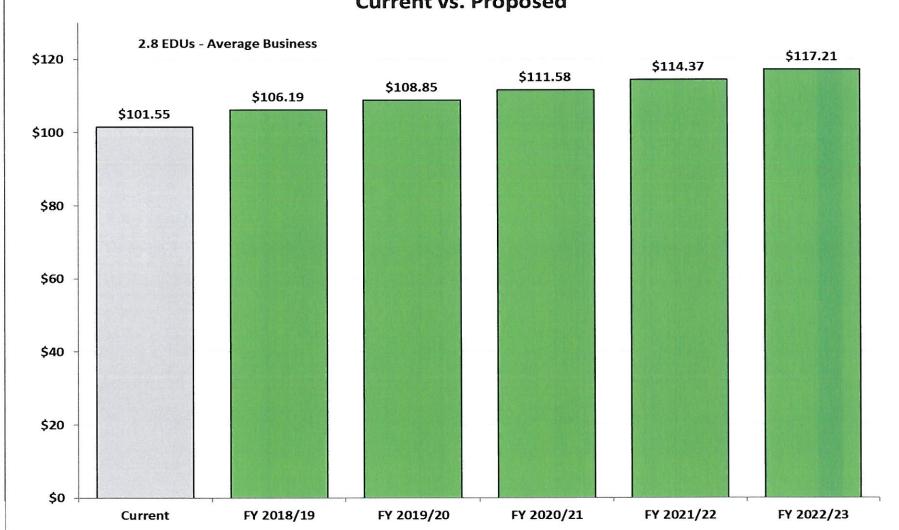
#### **Bill Impact**





#### Bill Impact, cont.





# **Water Utility**

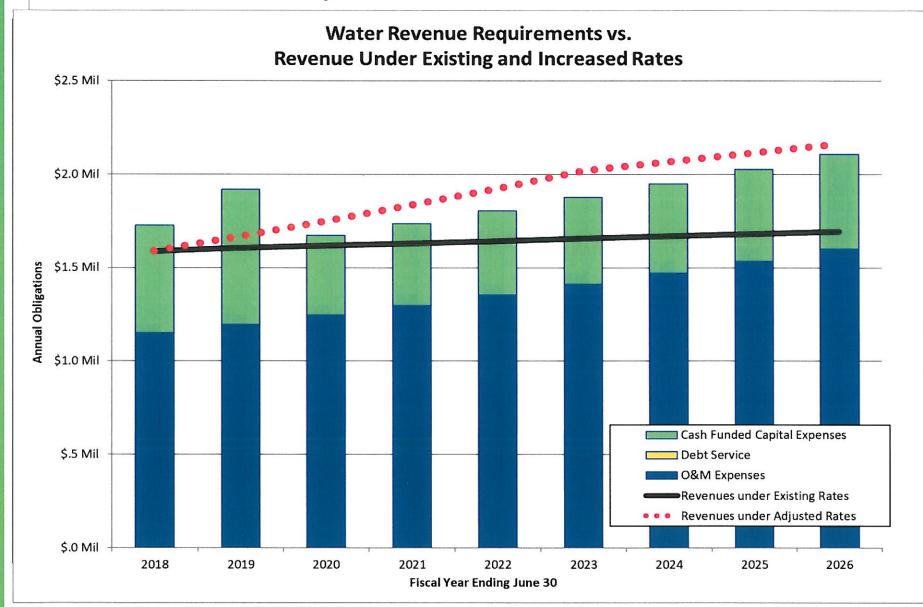
**Proposed Rates** 







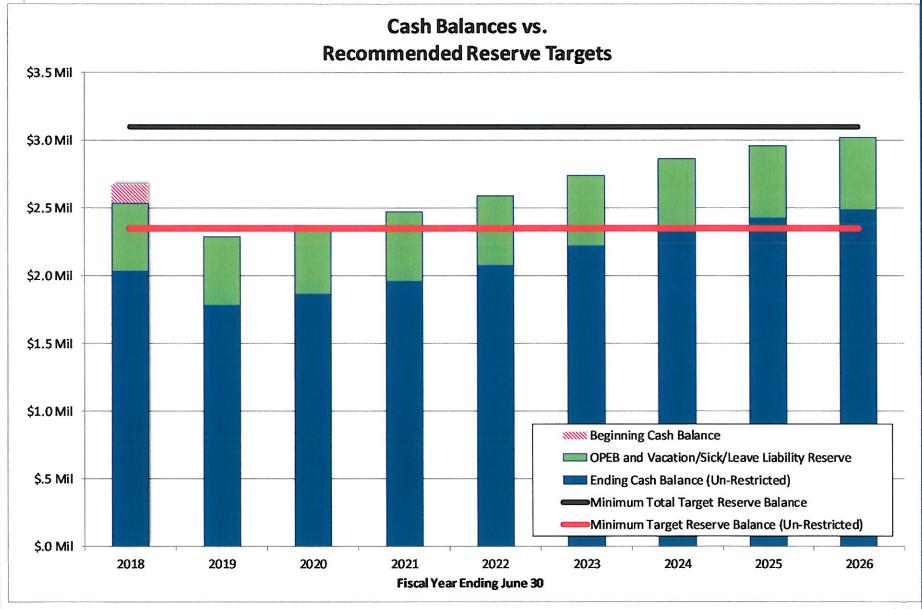
### **Financial Analysis**



# Financial Analysis, cont.

Fiscal Year	Rate Revenue Requirements
FY 2017/18	\$1.27 Mil
FY 2018/19	\$1.34 Mil
FY 2019/20	\$1.42 Mil
FY 2020/21	\$1.50 Mil
FY 2021/22	\$1.58 Mil
FY 2022/23	\$1.66 Mil

### Financial Analysis, cont.



#### Cost of Service – Classification



**Commodity related costs** are those that change as the volume of water produced and delivered changes. These commonly include the costs of water quality testing, energy related to pumping for transmission and distribution, and source of supply.



Capacity related costs are associated with sizing facilities to meet the maximum, or peak demand. This includes both operating costs and capital infrastructure costs incurred to accommodate peak system capacity events.

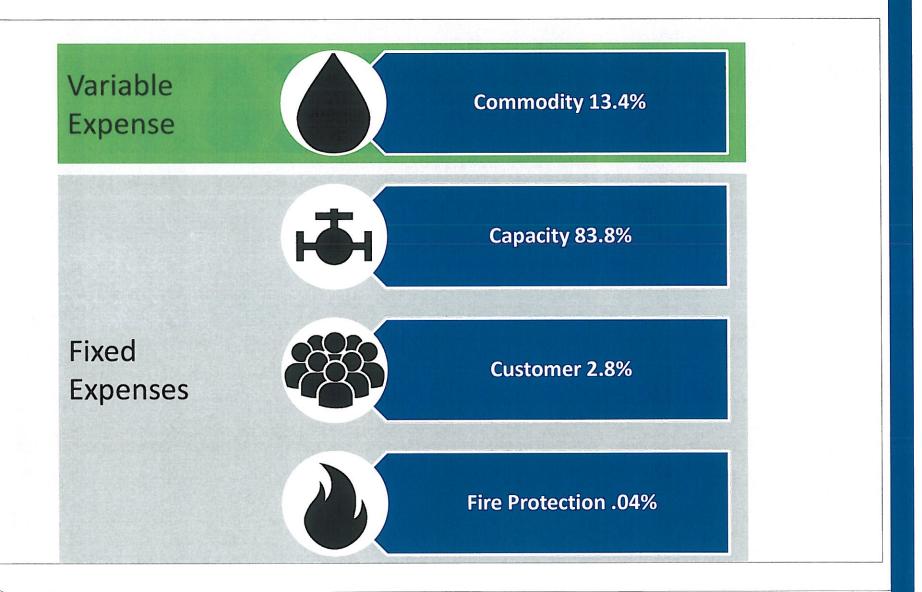


**Customer related costs** are associated with having a customer on the water system, such as meter reading, postage and billing.



Fire Protection related costs are associated with providing sufficient capacity in the system for fire meters and other operations and maintenance costs of providing water to properties for private fire service protection.

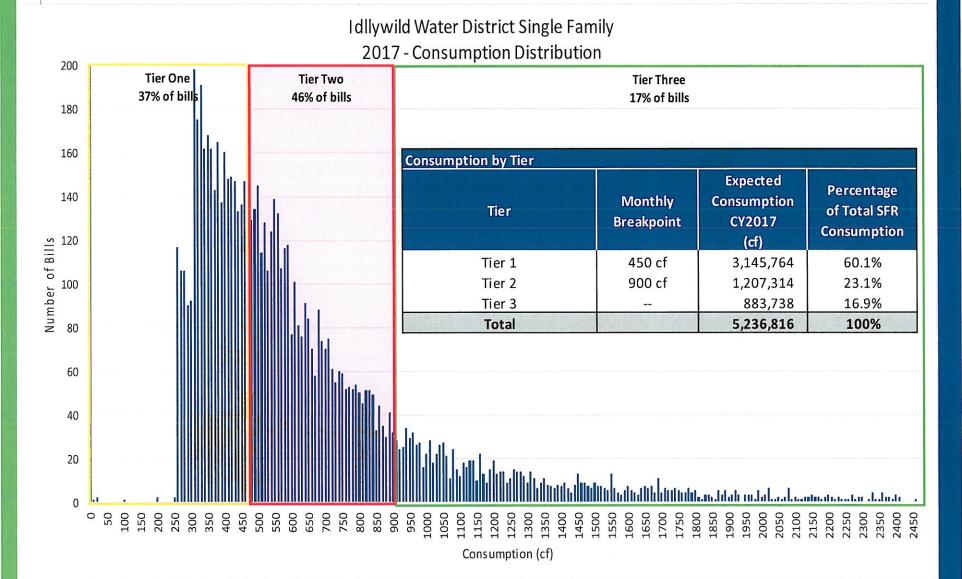
#### Cost of Service – Classification



#### Cost of Service – Customer Classes

Customer Class	Commodity Allocation	Capacity Allocation	Customer Allocation	Fire Protection Allocation
Single Family Residential	56%	53%	89%	0%
Idyllwild Arts Academy	12%	10%	0%	0%
All Other Standard Meters	32%	37%	11%	0%
Fire Service	0%	0%	0%	100%
Allocation Methodology	Total Consumption	Peak Consumption	Number of Customers	Only to Fire Meters

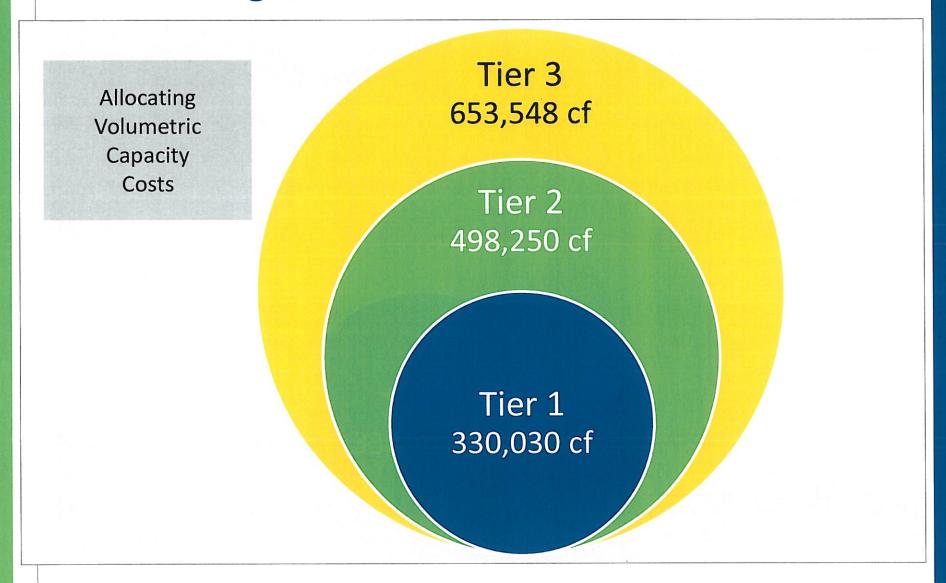
#### Cost of Service – Customer Classes, cont.



### Rate Design

	COSA Results	Rate Alternative A	Rate Alternative B	Rate Alternative C
Classification Categories	Unadjusted Net Revenue Requirements (2018-19) 87% Fixed / 13% Variable	Adjusted Net Revenue Requirements (2018-19) 55% Fixed / 45% Variable	Adjusted Net Revenue Requirements (2018-19) 60% Fixed / 40% Variable	Adjusted Net Revenue Requirements (2018-19) 65% Fixed / 35% Variable
Variable Costs:				
Commodity - Related Costs	13.4%	13.4%	13.4%	13.4%
Capacity - Related Costs (volumetric allocation)	0.0%	31.6%	26.6%	21.6%
Sub-Total Variable Costs	13.4%	45.0%	40.0%	35.0%
Fixed Costs:				
Capacity - Related Costs (fixed allocation)	83.8%	52.2%	57.2%	62.2%
Customer - Related Costs	2.8%	2.8%	2.8%	2.8%
Fire Protection - Related Costs	0.0%	0.0%	0.0%	0.0%
Sub-Total Variable Costs	86.6%	55.0%	60.0%	65.0%
Net Revenue Requirement	100%	100%	100%	100%

### Rate Design, Tiered Rate



Alternative A - Net Revenue Requirements (55% Fixed / 45% Variable)									
	Number of	Current			roposed Rate	S			
Water Rate Schedule	Customers	Rates	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23		
Monthly Fixed Service Cl	Monthly Fixed Service Charges:								
Single Family Residentia	!								
5/8 inch	1,427	\$29.70	\$30.76	\$32.30	\$33.92	\$35.61	\$37.39		
3/4 inch	12	\$40.35	\$45.20	\$47.46	\$49.83	\$52.32	\$54.94		
1 inch	24	\$61.25	\$74.06	\$77.77	\$81.65	\$85.74	\$90.02		
All Other Customers:									
5/8 inch	109	\$20.90	\$30.76	\$32.30	\$33.92	\$35.61	\$37.39		
3/4 inch	30	\$31.35	\$45.20	\$47.46	\$49.83	\$52.32	\$54.94		
1 inch	59	\$52.25	\$74.06	\$77.77	\$81.65	\$85.74	\$90.02		
1.5 inch	13	\$104.50	\$146.23	\$153.54	\$161.22	\$169.28	\$177.74		
2 inch	5	\$167.20	\$232.83	\$244.47	\$256.69	\$269.53	\$283.00		
3 inch	1	\$313.50	\$463.76	\$486.94	\$511.29	\$536.85	\$563.70		
Idyllwild Arts Academy									
3 inch	1 1	\$313.50	\$4,978.68	\$5,227.61	\$5,488.99	\$5,763.44	\$6,051.61		
Fire Service Charges:									
2 inch	0	II	\$7.18	\$7.54	\$7.92	\$8.31	\$8.73		
3 inch	0		\$13.45	\$14.12	\$14.83	\$15.57	\$16.35		
4 inch	2		\$25.00	\$26.25	\$27.56	\$28.94	\$30.39		

Alternative A - Net Reven	Alternative A - Net Revenue Requirements (55% Fixed / 45% Variable)									
Weter Pete Calcadule	Number of	Current		P	roposed Rate	S				
Water Rate Schedule	Customers	Rates	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23			
Monthly Commodity Ch	arges per cf o	f water consu	med							
<u>Current</u>	<u>Proposed</u>									
Tiered Rate (Commercial	Customers)									
Tier 1 1000 cf		\$0.0333				==				
Tier 2 4000 cf		\$0.0633		==						
Tier 3 8000 cf		\$0.1000	::							
Tier 4 8001+ cf		\$0.1000			:::					
Uniform Potable Rate (C	ommercial Cu	stomers)	\$0.0682	\$0.0716	\$0.0752	\$0.0789	\$0.0829			
Tiered Rate (SFR Custom	ers)									
Tier 1 300 cf	450 cf	\$0.0000	\$0.0192	\$0.0202	\$0.0212	\$0.0223	\$0.0234			
Tier 2 600 cf	900 cf	\$0.0633	\$0.1154	\$0.1212	\$0.1273	\$0.1336	\$0.1403			
Tier 3 1500 cf	900+ cf	\$0.1000	\$0.1406	\$0.1476	\$0.1550	\$0.1627	\$0.1709			
Tier 4 1500+ cf		\$0.1000	N/A	N/A	N/A	N/A	N/A			

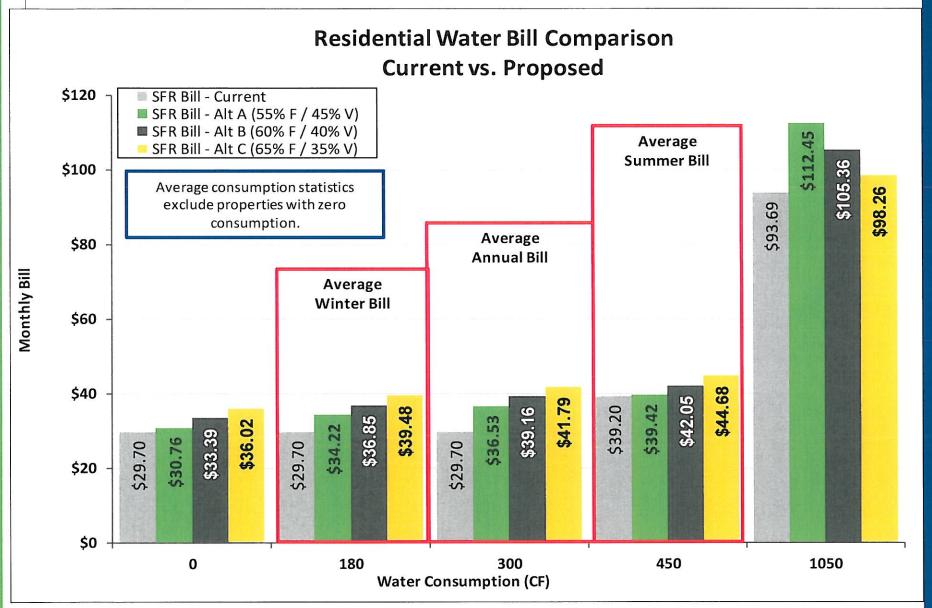
Alternative B - Net Revenue Requirements (60% Fixed / 40% Variable)										
Michigan Burk Burk Burk Burk Burk Burk Burk Burk	Number of	Current								
Water Rate Schedule	Customers	Rates	FY 2018/19		THE RESERVE OF THE RE	FY 2021/22	FY 2022/23			
Monthly Fixed Service C	Monthly Fixed Service Charges:									
Single Family Residentia	1	Marie M. St.								
5/8 inch	1,427	\$29.70	\$33.39	\$35.06	\$36.82	\$38.66	\$40.59			
3/4 inch	12	\$40.35	\$49.14	\$51.60	\$54.18	\$56.89	\$59.73			
1 inch	24	\$61.25	\$80.64	\$84.67	\$88.90	\$93.35	\$98.01			
All Other Customers:				1						
5/8 inch	109	\$20.90	\$33.39	\$35.06	\$36.82	\$38.66	\$40.59			
3/4 inch	30	\$31.35	\$49.14	\$51.60	\$54.18	\$56.89	\$59.73			
1 inch	59	\$52.25	\$80.64	\$84.67	\$88.90	\$93.35	\$98.01			
1.5 inch	13	\$104.50	\$159.38	\$167.35	\$175.71	\$184.50	\$193.72			
2 inch	5	\$167.20	\$253.86	\$266.56	\$279.89	\$293.88	\$308.57			
3 inch	1	\$313.50	\$505.83	\$531.12	\$557.68	\$585.56	\$614.84			
Idyllwild Arts Academy										
3 inch	1	\$313.50	\$5,709.00	\$5,994.45	\$6,294.18	\$6,608.88	\$6,939.33			
Fire Service Charges:										
2 inch	0		\$7.18	\$7.54	\$7.92	\$8.31	\$8.73			
3 inch	0		\$13.45	\$14.12	\$14.83	\$15.57	\$16.35			
4 inch	2		\$25.00	\$26.25	\$27.56	\$28.94	\$30.39			

Alternative B - Net Revenue Requirements (60% Fixed / 40% Variable)										
Water Bate Sahad	Number of	Current		Proposed P	Rates - Rate Al	ternative B				
Water Rate Sched	Customers	Rates	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23			
Monthly Commodit	ly Charges per cf	of water consu	ımed		<b>新疆。</b> 但155					
Curre	nt <u>Proposed</u>					400000				
Tiered Rate (Commo	ercial Customers)									
Tier 1 1000	cf	\$0.0333	,		11	1				
Tier 2 4000	ı cf	\$0.0633				1				
Tier 3 8000	ı cf	\$0.1000								
Tier 4 8000	ı+ cf	\$0.1000								
Uniform Potable Ra	ite (Commercial C	ustomers)	\$0.0604	\$0.0635	\$0.0666	\$0.0700	\$0.0735			
Tiered Rate (SFR Cu	stomers)	1								
Tier 1 300	cf 450 cf	\$0.0000	\$0.0192	\$0.0202	\$0.0212	\$0.0223	\$0.0234			
Tier 2 600	cf 900 cf	\$0.0633	\$0.1002	\$0.1052	\$0.1105	\$0.1160	\$0.1218			
Tier 3 1500	cf 900+ cf	\$0.1000	\$0.1214	\$0.1274	\$0.1338	\$0.1405	\$0.1475			
Tier 4 1500	+ cf	\$0.1000	N/A	N/A	N/A	N/A	N/A			

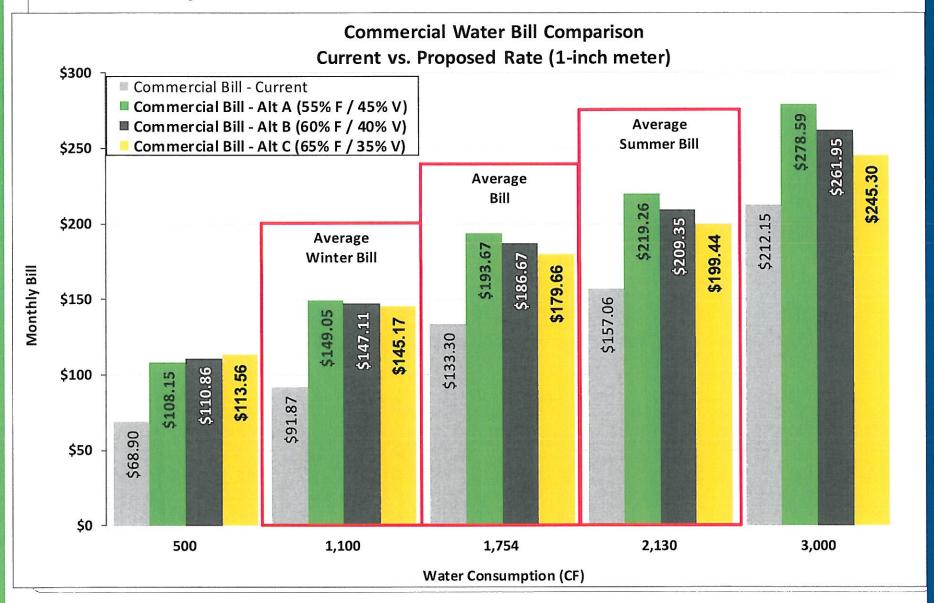
Alternative C - Net Revenue Requirements (65% Fixed / 35% Variable)										
	Number of	Current			lates - Rate Al	Rate Alternative C				
Water Rate Schedule	Customers	Rates	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23			
Monthly Fixed Service Cl	harges:									
Single Family Residentia	!									
5/8 inch	1,427	\$29.70	\$36.02	\$37.82	\$39.72	\$41.70	\$43.79			
3/4 inch	12	\$40.35	\$53.09	\$55.74	\$58.53	\$61.45	\$64.53			
1 inch	24	\$61.25	\$87.21	\$91.57	\$96.15	\$100.96	\$106.01			
All Other Customers:										
5/8 inch	109	\$20.90	\$36.02	\$37.82	\$39.72	\$41.70	\$43.79			
3/4 inch	30	\$31.35	\$53.09	\$55.74	\$58.53	\$61.45	\$64.53			
1 inch	59	\$52.25	\$87.21	\$91.57	\$96.15	\$100.96	\$106.01			
1.5 inch	13	\$104.50	\$172.53	\$181.15	\$190.21	\$199.72	\$209.71			
2 inch	5	\$167.20	\$274.90	\$288.65	\$303.08	\$318.23	\$334.15			
3 inch	1	\$313.50	\$547.91	\$575.30	\$604.07	\$634.27	\$665.99			
Idyllwild Arts Academy										
3 inch	1	\$313.50	\$6,439.33	\$6,761.29	\$7,099.36	\$7,454.33	\$7,827.04			
Fire Service Charges:										
2 inch	0		\$7.18	\$7.54	\$7.92	\$8.31	\$8.73			
3 inch	0		\$13.45	\$14.12	\$14.83	\$15.57	\$16.35			
4 inch	2		\$25.00	\$26.25	\$27.56	\$28.94	\$30.39			

Alternative C - Net Revenue Requirements (65% Fixed / 35% Variable)									
Numbe		Current	Current Proposed Rates -			Rate Alternative C			
Water Rate Schedule	Customers	Rates	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23		
Monthly Commodity Cl	harges per cf o	f water consu	med						
<u>Current</u>	<u>Proposed</u>								
Tiered Rate (Commercia	l Customers)								
Tier 1 1000 cf		\$0.0333							
Tier 2 4000 cf		\$0.0633							
Tier 3 8000 cf		\$0.1000		8 <b>==</b>					
Tier 4 8000+ cf		\$0.1000							
Uniform Potable Rate (	Commercial Cu	stomers)	\$0.0527	\$0.0553	\$0.0581	\$0.0610	\$0.0641		
Tiered Rate (SFR Custor	mers):								
Tier 1 300 cf	450 cf	\$0.0000	\$0.0192	\$0.0202	\$0.0212	\$0.0223	\$0.0234		
Tier 2 600 cf	900 cf	\$0.0633	\$0.0850	\$0.0893	\$0.0937	\$0.0984	\$0.1033		
Tier 3 1500 cf	900+ cf	\$0.1000	\$0.1022	\$0.1073	\$0.1127	\$0.1183	\$0.1242		
Tier 4 1500+ cf		\$0.1000	N/A	N/A	N/A	N/A	N/A		

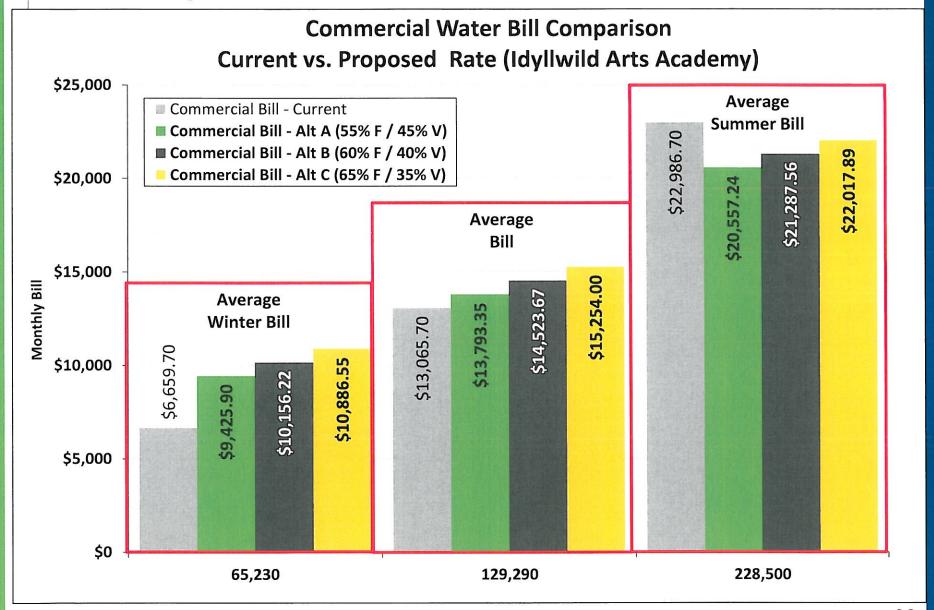
#### Bill Impact



#### Bill Impact, cont.



#### Bill Impact, cont.



# **Questions and Answers**

