

# Town of Discovery Bay Community Services District

## Water and Wastewater Rate Study



**June 5, 2013**



**BARTLE WELLS ASSOCIATES**  
Independent Public Finance Advisors



# Presentation Overview

- Current Rates
- Rate Survey
- Rate Structure Adjustment
- Financial Performance Metrics
- Financial Projections
- Debt Coverage
- Residential Bill Projection

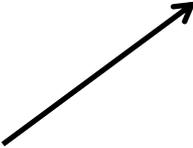


# Current Water Rates - Unmetered

## Billed annually on tax roll

Customer Type	Annual Fee	Monthly Fee
Vacant	\$176.00	\$14.67
Condos w/o irrigation	\$243.72	\$20.31
Condos w/irrigation	\$370.92	\$30.91
Unmetered Water		
<5,000 SF	\$370.92	\$30.91
5,001 to 10,000 SF	\$468.48	\$39.04
>10,000 SF	\$566.04	\$47.17

most common customer type





# Current Water Rates - Metered

**Water Use Rate** \$1.361 per hundred cubic foot

## Domestic & Commercial

## Monthly Fee

1"	\$9.25 (residential)
1.5"	\$9.56
2"	\$10.41
3"	\$16.63
4"	\$18.93

## Irrigation

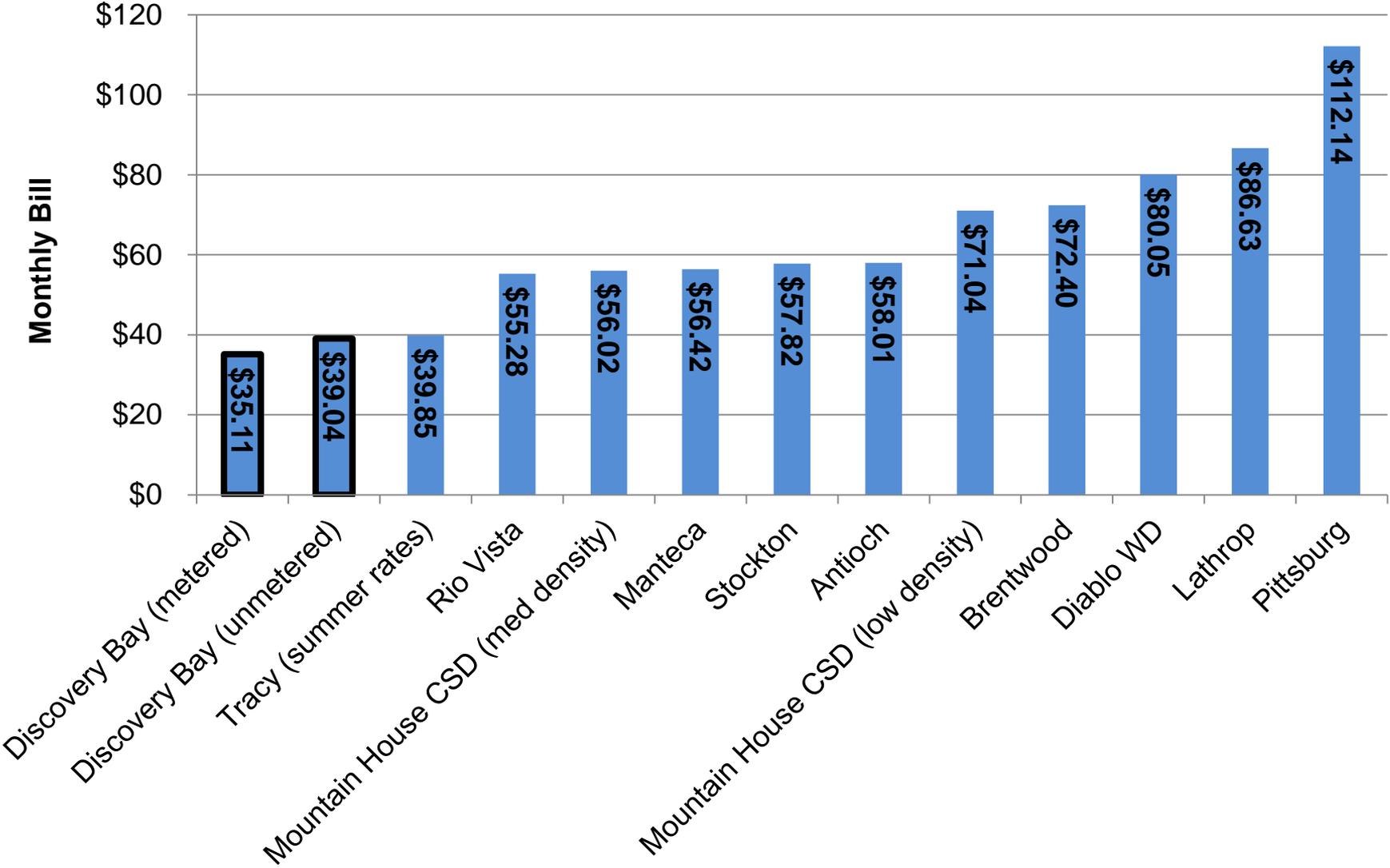
5/8"	\$2.41
1"	\$2.72
1.5"	\$3.02
2"	\$3.87
3"	\$10.09
4"	\$12.39



# Current Water Rates - Metered

Water Use Rate	\$1.361 per ccf
Average Water Use	19 ccf
<b>Total Water Use Charges</b>	<b>\$25.86</b>
<b>Meter Charge (1")</b>	<b><u>\$9.25</u></b>
<b>Total Monthly Charge</b>	<b>\$35.11</b>
(Average Metered Customer)	
Average Unmetered Customer	<b>\$39.04</b>

# Residential Water Bill Survey (1" meter, 19 ccf per month)





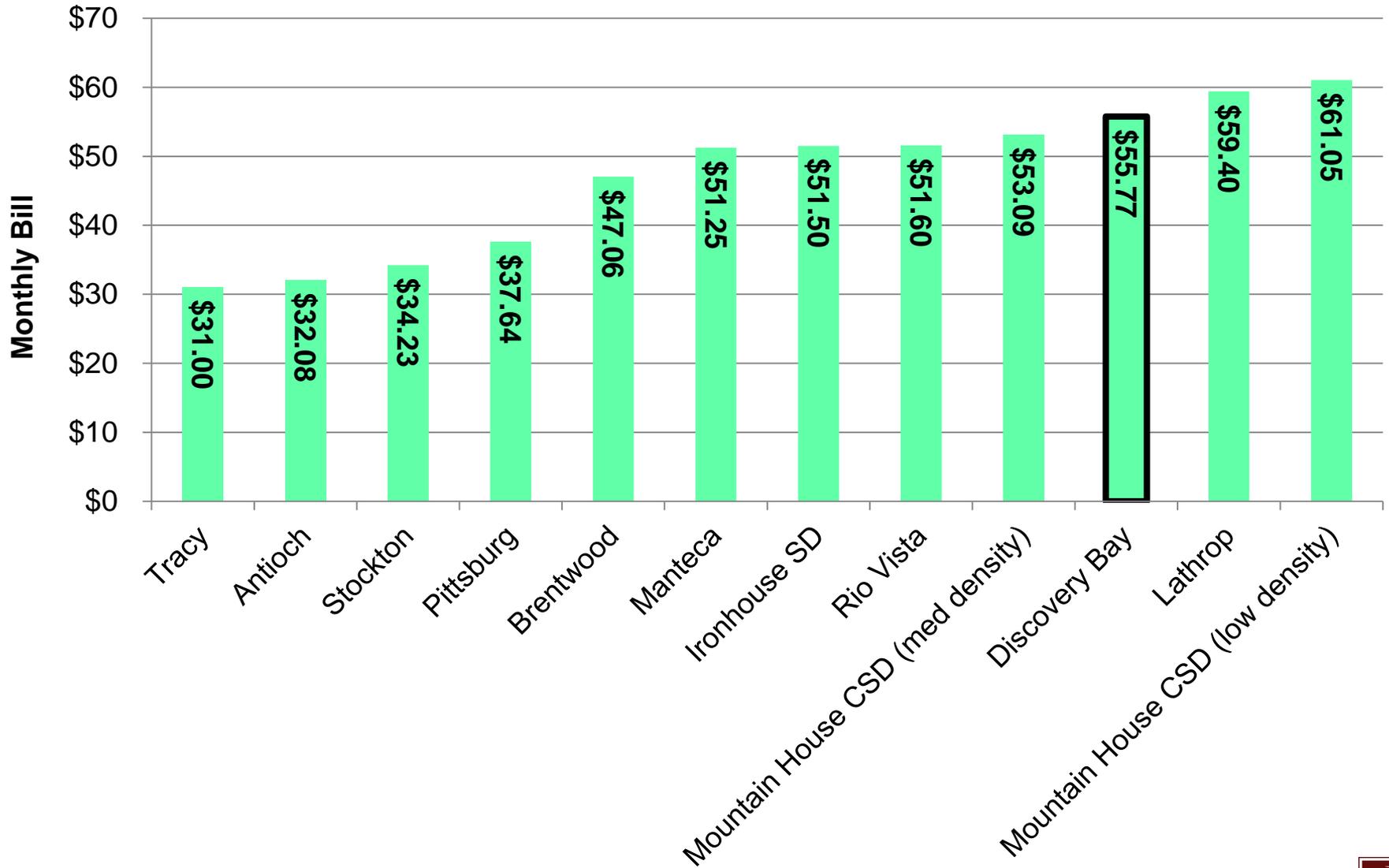
# Current Wastewater Rates

## Billed annually on tax roll

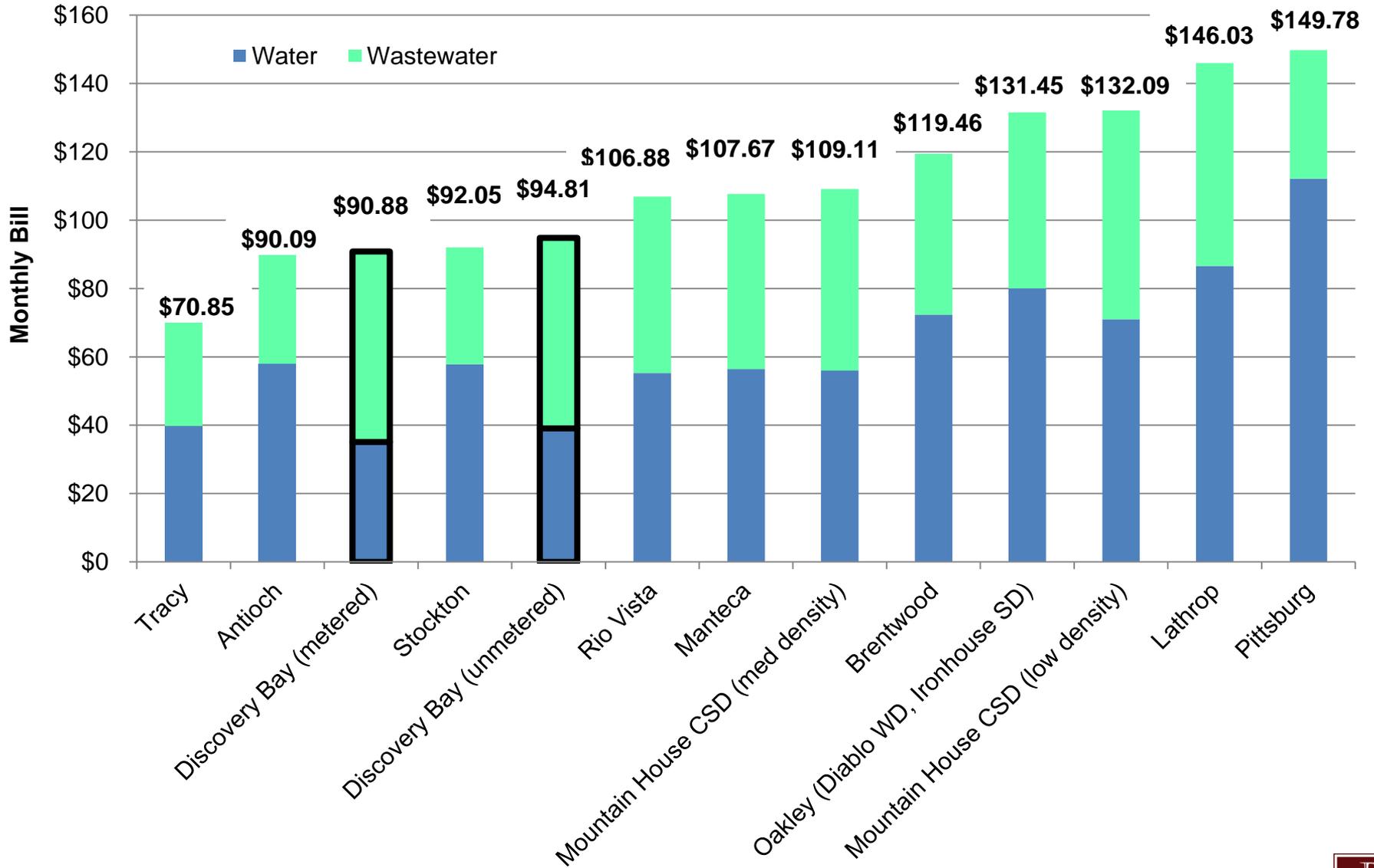
Customer Type	Annual Fee	Monthly Fee
Vacant	\$224.00	\$18.67
Condos w/irrigation	\$501.96	\$41.83
Condos w/o irrigation	\$501.96	\$41.83
Unmetered Water		
<5,000 SF	\$669.24	\$55.77
5,001 to 10,000 SF	\$669.24	\$55.77
>10,000 SF	\$669.24	\$55.77

most common customer type

# Residential Wastewater Bill Survey



## Residential Utility Bill Survey (1" meter, 19 ccf per month)





# Meter Ratio Adjustment

<b>Meter Size</b>	<b>Number of Meters</b>	<b>Current Monthly Charge</b>	<b>Current Ratio</b>	<b>Recommended AWWA Ratio</b>	<b>Recommended Monthly Charge</b>
<b>Residential &amp; Commercial</b>					
1"	1,885	\$9.25	1.00	1.0	\$9.25
1.5"	7	\$9.56	1.03	2.0	\$18.50
2"	9	\$10.41	1.13	3.2	\$29.60
3"	3	\$16.63	1.80	6.4	\$59.20
4"	2	\$18.93	2.05	10.0	\$92.50
6"	<u>0</u>	\$24.30	2.63	20.0	\$185.00
<b>Total</b>	<b>1,906</b>				
<b>Irrigation</b>					
5/8"	1	\$2.41	1.00	1.0	\$2.72
1"	19	\$2.72	1.13	1.0	\$2.72
1.5"	15	\$3.02	1.25	2.0	\$5.44
2"	25	\$3.87	1.61	3.2	\$8.70
3"	2	\$10.09	4.19	6.4	\$17.41
4"	5	\$12.39	5.14	10.0	\$27.20
6"	<u>0</u>	\$17.76	7.37	20.0	\$54.40
<b>Total</b>	<b>67</b>				

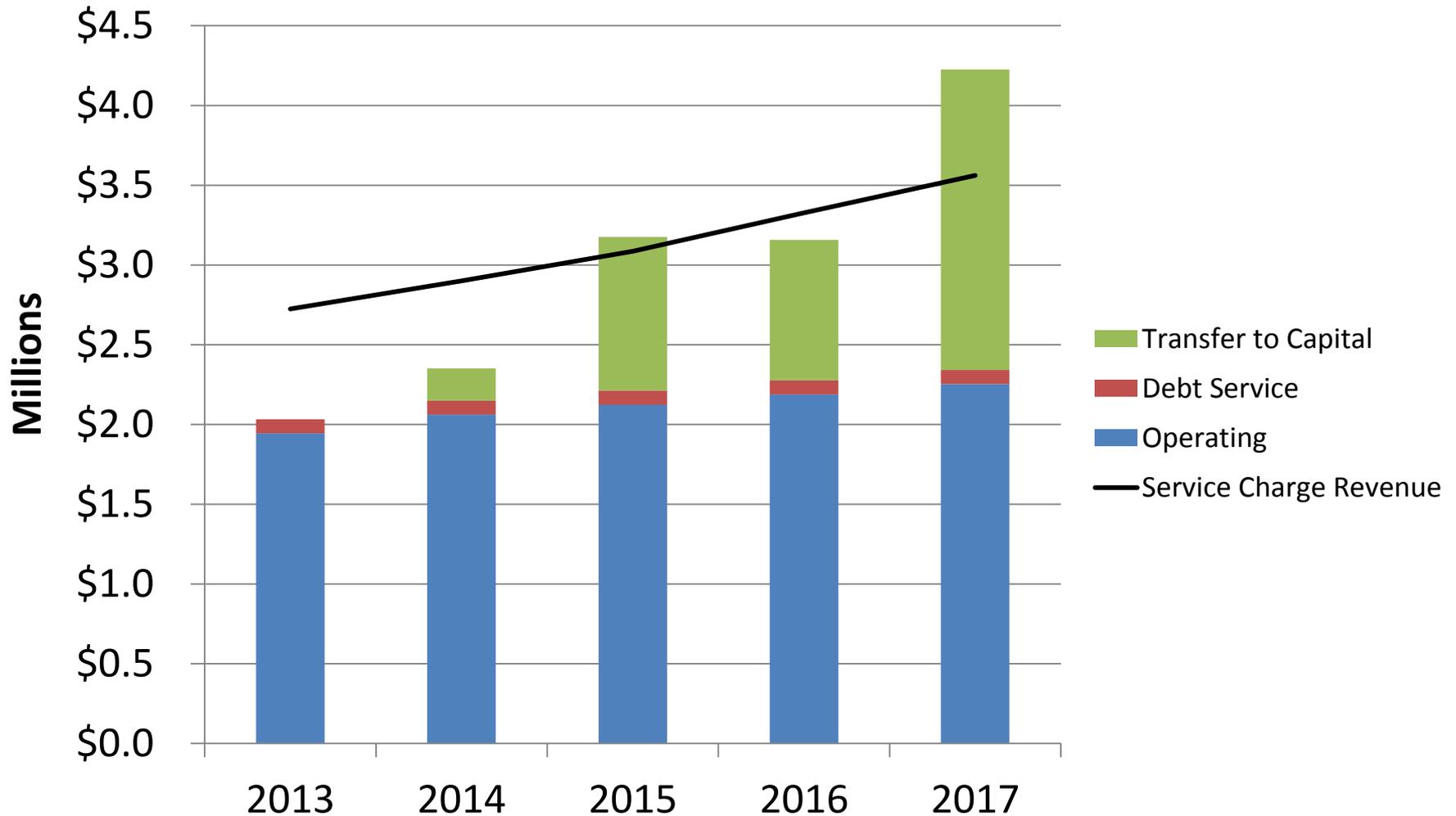


# Financial Performance Metrics

- 1) Fund operating costs
- 2) Meet debt service coverage of 1.25x
- 3) Maintain fund balance of 6 months of operating costs
- 4) Fund capital costs

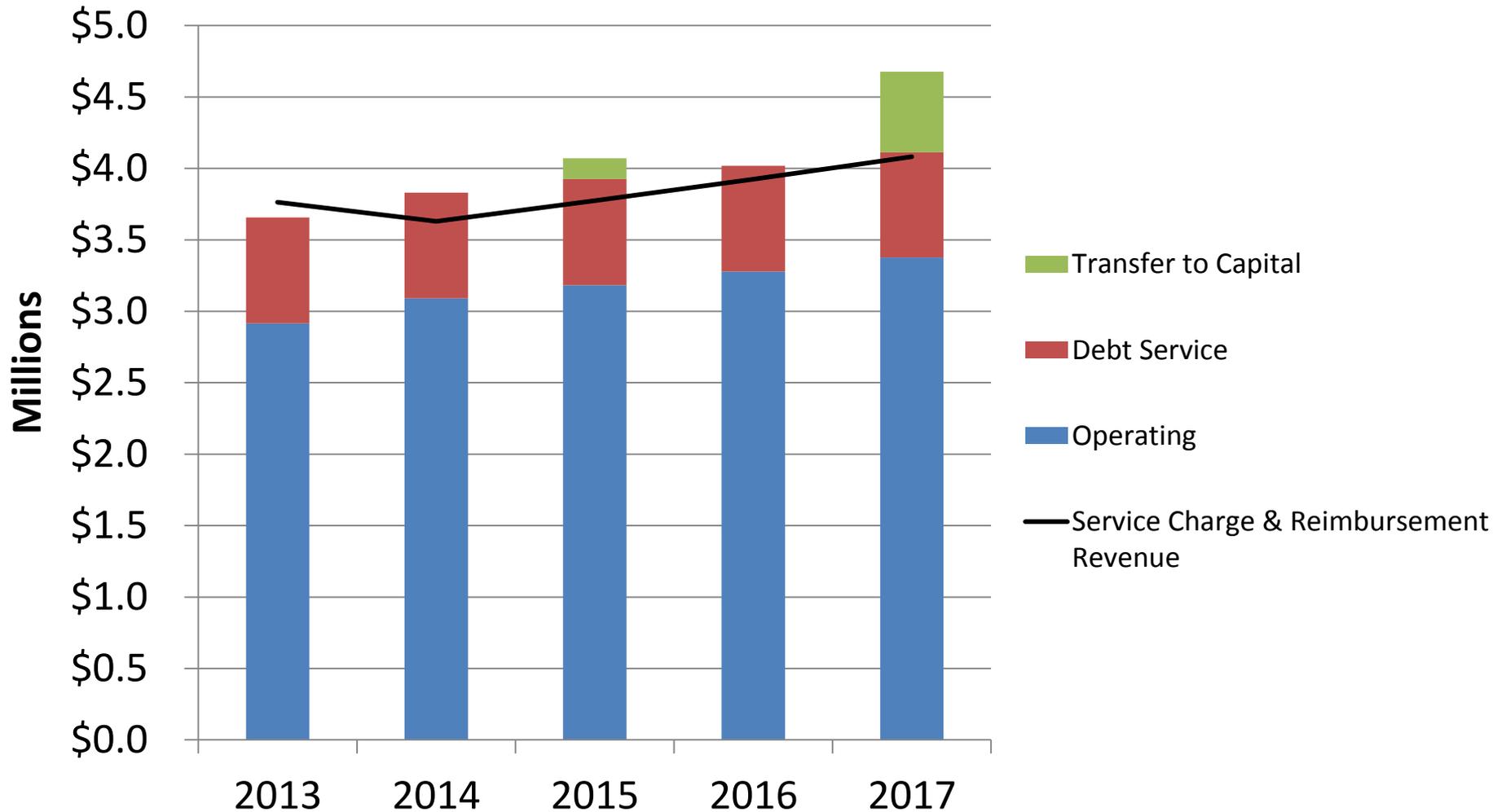


# Water Financial Projection





# Wastewater Financial Projection





# Debt Service Coverage

- BWA believes that capacity fees can be included in debt service coverage projection
- Legal covenants require 1.25 coverage
- 2013 coverage based on conservative year end estimates

	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
Water	9.60	10.70	15.42	25.59	25.83
Wastewater	1.15	1.64	1.85	3.36	3.13



# Residential Bill Projection

<b>Proposed Increase</b>		<b>2.7%</b>	<b>4%</b>	<b>4%</b>	<b>4%</b>
	<b>Current</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
Water					
Metered Customer	\$35.11	\$36.04	\$37.51	\$39.01	\$40.56
Unmetered Customer	\$39.04	\$40.09	\$41.70	\$43.37	\$45.10
Wastewater	\$55.77	\$57.28	\$59.57	\$61.95	\$64.43

# Questions and Comments

