

TO:

COMMISSIONERS

FROM:

CARLA A. REID

GENERAL MANAGER/CEO

DATE:

June 28, 2018

SUBJECT:

RECOMMENDED RATE STRUCTURE

Background

WSSC has been operating under a 16-tier volumetric water and sewer rate structure for more than 25 years and good management practice dictates periodic review of rate structure alternatives. While the need to modernize our rate structure to better reflect customer and Commissioner policy considerations has been at the forefront of this extensive process, the Maryland Public Service Commission (PSC) recently directed WSSC to develop a new rate structure. Our current rate structure was deemed unreasonable by the PSC because they found it to be preferential to low-usage customers.

Customer Outreach

Thanks to the leadership and guidance of the Commissioners, WSSC committed to a fully transparent and inclusive rate structure review process that incorporated industry best practices and careful analysis of available customer data. To ensure customers and stakeholders were fully engaged in the rate structure review process, WSSC launched an extensive public outreach campaign to garner input and feedback from residential and non-residential customers, elected officials and other interested stakeholders in both counties. As detailed in the attached memorandum, WSSC held or participated in more than 30 public meetings or hearings since spring 2017. These meetings were attended by more than 1,500 customers and generated more than 300 total comments on the proposed rate structures. Additionally, all WSSC meetings were livestreamed and seen by nearly 2,500 viewers.

Throughout this process, WSSC worked closely with nationally-renowned rate structure experts and an authority on Maryland water conservation to ensure our recommendations:

- Considered customer preferences and reflected the rate setting policies selected by the Commission;
- Allowed for a predictable revenue stream to pay for infrastructure improvements; and
- Better aligned costs with rates.

On November 15, 2017, the Commission unanimously approved for transmission to the County Executives and County Councils of Prince George's and Montgomery counties for their consideration the following three recommended rate structure alternatives to replace our current water and sewer rate structure.

			Example
Type of Rate Structure	Options	Gallons Per	Rate per
Type of nate structure	Options	Day	1,000
			Gallons
		0-80	\$10.66
3 Tier Inclining	Option A	81-165	\$13.43
		>165	\$17.61
		0-165	\$10.41
3 Tier Inclining	Option B	166-275	\$13.89
		>275	\$19.96
		0-80	\$10.66
4 Tier Inclining	Option A	81-165	\$12.25
4 Her inclining		166-275	\$14.86
		>275	\$18.74

Note: The rates in the table above are <u>illustrative only and based on FY18</u> <u>revenue requirements</u>. Final rates for FY20, when the new rate structure will take effect, will be adopted in June 2019.

These three rate structure alternatives meet WSSC's statutory mandate that rates be uniform throughout the Sanitary District, and reflect the Commissioner's stated policy priorities for a new rate structure including revenue stability, conservation, affordability, and rate stability. These rate structures are based on average per capita consumption and reflect the overwhelming residential character of WSSC's customer base of which 93% are residential.

¹ For a list of typical policy priorities (or objectives) in rate setting see the American Water Works Association M1 Manual, Principles of Water Rates, Fees, and Charges; Chapter IV.1 Selecting Rate Structures, Step 1. Defining Goals and Objectives, page 105.

County Council Review

On December 1, 2017, we transmitted our recommended rate structure alternatives to the County Executives and County Council members in Prince George's and Montgomery counties requesting their review and input.

The Montgomery County Council's Transportation and Environment (T&E) Committee received a briefing from WSSC staff and consultants on the recommended rate structures, related policies, and customer impacts on February 1, 2018. A copy of the staff analytical packet for this briefing and a video recording of the committee meeting is available at the County's website.²

On March 29, 2018, the Prince George's County Council's Transportation Housing and Environment (THE) Committee received a similar briefing from WSSC staff. A copy of the staff analytical packet for this briefing and a video recording of the committee meeting is available at the County's website.³

While there was an extensive dialogue with both of the County Council Committee members and staff on the relative merits, policy implications, and customer bill impacts of each of the recommended rate structures, the Committees did not express a preference for any one of the rate structure alternatives.

Recommendation

Based on the extensive evaluation process, information presented during the process, and feedback from our customers, WSSC management is now recommending that the Commission select rate structure Alternative 4A for implementation on July 1, 2019. Alternative 4A meets the Commissioners' top policy priorities of revenue stability, conservation, affordability, and rate stability. Alternative 4A offers a number of advantages compared to the existing rate structure and to Alternatives 3A and 3B.

Revenue Stability was the top priority for the Commission in its review of rate structure alternatives and Alternative 4A will provide a more predictable revenue stream compared to the current rate structure. Revenue stability is crucial given WSSC's robust capital improvements program, which exceeds \$3.3 billion for FY19-24. This comprehensive program includes more than \$630 million for water main replacements to increase reliability; \$232 million for the innovative Piscataway Bio-Energy project; over \$700 million to comply with federally mandated upgrades to our sewer mains, and an

² The WSSC briefing and staff analysis of the T&E session are available at: http://montgomerycountymd.granicus.com/GeneratedAgendaViewer.php?view id=169&clip id=14465 and the video is available at:

http://montgomerycountymd.granicus.com/MediaPlayer.php?view_id=169&clip_id=14465

The WSSC briefing and staff analysis and video of the THE session are available at: <a href="https://princegeorgescountymd.legistar.com/LegislationDetail.aspx?ID=3375280&GUID=FF0B4722-9005-4741-863F-6F79BDD458A9&Options=&Search="https://princegeorgescountymd.legistar.com/LegislationDetail.aspx?ID=3375280&GUID=FF0B4722-9005-4741-863F-6F79BDD458A9&Options=&Search="https://princegeorgescountymd.legistar.com/LegislationDetail.aspx?ID=3375280&GUID=FF0B4722-9005-4741-863F-6F79BDD458A9&Options=&Search="https://princegeorgescountymd.legislationDetail.aspx?ID=3375280&GUID=FF0B4722-9005-4741-863F-6F79BDD458A9&Options=&Search="https://princegeorgescountymd.legislationDetail.aspx?ID=3375280&GUID=FF0B4722-9005-4741-863F-6F79BDD458A9&Options=&Search="https://princegeorgescountymd.legislationDetail.aspx?ID=3375280&GUID=FF0B4722-9005-4741-863F-6F79BDD458A9&Options=&Search="https://princegeorgescountymd.legislationDetail.aspx?ID=3375280&GUID=FF0B4722-9005-4741-863F-6F79BDD458A9&Options=&Search="https://princegeorgescountymd.legislationDetail.aspx?ID=3375280&GUID=FF0B4722-9005-4741-863F-6F79BDD458A9&Options=&Search="https://princegeorgescountymd.legislationDetail.aspx?ID=3375280&GUID=FF0B4722-9005-4741-863F-6F79BD4722-9005-4741-863F-6F79BD472-9005-4741-863F-6F79B

estimated \$121 million to comply with the Potomac Water Filtration Plant consent decree.4

Benefits of 4A

The inclining block structure of Alternative 4A also sends a clear conservation-oriented price signal to ratepayers. Conservation was strongly supported by customers in our public meetings, and is a high priority of the Commission as well. As a bi-county state agency, we were particularly mindful of the provisions in State law that require public water systems to improve water conservation and the efficiency with which water is used treated, stored, and distributed and names as a best practice pricing structures that encourage conservation.⁵ As you are aware, conservation is integral to the management of the Potomac River and is needed to ensure a viable long-term supply for the region and to preserve the ecological health of Maryland's water resources. While Alternatives 3A and 3B would also incentivize conservation, the more graduated nature of Alternative 4A within consumption levels consistent with residential customers is more effective in supporting WSSC's conservation efforts. Additionally, Alternative 3A limits the top tier of consumption to greater than 165 GPD, which will not effectively incentivize conservation since 165 GPD is the expected daily consumption for a three-person household.

Customer affordability was also one of the top policy priorities. With the adoption of any new rate structure, there can be varying customer bill impacts based on household size, usage patterns, and the rates/rate structure ultimately adopted. We believe Alternative 4A best addresses customer affordability given that the first tier consumption level of up to 80 gallons per day (GPD) was set at a level based on the World Health Organization's (WHO) estimate of water needed per person per day for minimum sanitary needs for a three person household.⁶

We also should note that a more effective means of assisting low and fixed income customers is through the use of carefully designed customer assistance programs rather than seeking to accommodate their limited means through rate structure design. To this end, WSSC staff have been working with an affordability consultant to develop significant enhancements to our existing customer assistance programs. Management plans to implement these enhancements in conjunction with the implementation of the new rate structure.

In addition, Alternative 4A significantly simplifies the rate structure by reducing the number of tiers (from 16 to four) and will result in a more equitable recovery of costs by charging for consumption within each tier of use rather than at the highest tier. This

⁴ A final long-term plan to comply with the Potomac consent decree is currently under discussion and the cost of implementing the long-term plan could significantly exceed this estimate.

⁵ The Maryland Department of the Environment regulatory guidance that implements the Maryland Water Conservation Act specifically encourages an increasing block rate structure for water conservation.

⁶ A three person household is the average size in Prince George's and Montgomery Counties based on the American Community Survey (ACS) 2015 data for single family and multifamily households using 55 gallons per person which is the average daily per person consumption in WSSC's service area.

improves customer's ease of understanding the rate structure, which is also an important Commission policy priority.

Alternative 4A also improves the alignment of our rates to the costs of providing water and wastewater services compared to the current rate structure. While "cost-based rates" was the lowest ranked policy priority of the Commission, it remains one of the many relevant considerations in rate structure development. Alternative 3B does not make significant improvements in alignment of the cost of service with the revenues charged compared to the current rate structure. Additionally, the top rate (greater than 275 GPD) is higher than Alternatives 3A and 4A and even the current rate structure.

Conclusion

It is our recommendation that the Commission select Alternative 4A as it most effectively addresses the top policy priorities of revenue stability, conservation, and affordability. Rest assured, the implementation will again follow transparent and extensive public outreach to ensure our customers are fully aware of how this new rate structure will impact their bills. Thank you for your leadership on this crucial issue.

We look forward to discussing this recommendation with the Commission at the July 17 Special Commission Meeting on the Recommended Rate Structure and the July 18 Commission Meeting.

Attachments:

Transmittal of Rate Structure Alternatives to the County Governments, November 30, 2017 Management's Recommended Rate Structure Alternatives, November 1, 2017



14501 Sweitzer Lane • Laurel, Maryland 20707-5901

COMMISSIONERS

Thomasina V. Rogers, Chair T. Eloise Foster, Vice Chair Fausto R. Bayonet Omar M. Boulware Howard A. Denis Chris Lawson

> GENERAL MANAGER Carla A. Reid

November 30, 2017

To The Honorable:

Rushern L. Baker III, Prince George's County Executive Isiah Leggett, Montgomery County Executive

Derrick Leon Davis, Chair, Prince George's County Council Roger Berliner, President, Montgomery County Council

Members of Prince George's County Council Members of Montgomery County Council

Dear County Executives and Councilmembers,

On November 15, 2017, the Commissioners of the Washington Suburban Sanitary Commission (WSSC) unanimously approved for transmission to you for your consideration and input three recommendations made by management to replace our current water and sewer rate structure.

As you know, we have been operating under a 16-tier volumetric water and sewer rate structure for the past 25 years. In addition to being in need of modernization to reflect the changing landscape of rate and fee setting practices and policies, the existing rate structure has been successfully challenged before the Maryland Public Service Commission.

From the outset of our extensive and transparent rate structure process that has yielded our recommendations, we planned for three important components: (1) engagement of our customers; (2) a high level of expertise in the principals and policies of rate setting, and (3) feedback from you. We have completed steps (1) and (2) and now seek your feedback. Because of the complex nature of this process, we are prepared to provide whatever briefings, both oral and written, that you might need.

To ensure that our customers were fully represented in the rate structure review process, we engaged in an extensive public outreach campaign to garner input and feedback from residential and non-residential customers, elected officials and other interested stakeholders in both counties. As detailed in the attached recommendations from the General Manager/CEO Carla A. Reid, WSSC held or participated in more than 20 public meetings and/or hearings since spring 2017, which were attended by more than 1,200 customers and generated more than 300 total comments on the proposed rate structures. Additionally, all WSSC meetings were livestreamed and seen by nearly 2,500 viewers.

While work on the rate structure and charges began as early as 2010, in 2017 WSSC management commissioned Black & Veatch, a water and wastewater industry consultant, to conduct a Comprehensive Cost of Service (COS) and Rate Study to evaluate our consumption based volumetric rate structure. This COS Study was completed in April of 2017 and consisted of two phases: Phase I evaluated our existing rate structure and policies and identified feasible rate structure alternatives. Phase II included a comprehensive COS analysis for WSSC's water and sewer systems. Phase I also included significant input from stakeholders through the creation of a Bi-County Rate Structure Working Group and a Stakeholder Representatives Group.

With the benefit of the COS Study, WSSC continued its work on developing a new rate structure by convening a series of public meetings in Prince George's and Montgomery Counties to introduce the public to WSSC's rate structure review and development process, and to solicit input from the public on several example rate structures. At the same time, WSSC management engaged a panel of nationally recognized rate structure experts to assist WSSC in developing a new volumetric rate structure. This panel included representatives from Raftelis Financial Consulting, Black & Veatch, and 4Tenets Consulting, as well as a nationally recognized expert on customer affordability. The Commission then held several special meetings to receive briefings from management and the experts.

Using their extensive industry knowledge, experience and expertise, our team of experts developed five rate structure alternatives. Each of these rate structures, which were developed in accordance with industry recognized best practices, reflected public policy priorities identified by the Commission. In addition, each would bring our rate structure closer than our existing structure to the cost of serving our customers. Finally, each of the structures meets WSSC's statutory mandate that the rate be uniform throughout the Sanitary District. PUA §25-501(b).

The experts considered a broad base of information including: WSSC's customer data and revenue requirements; the COS study; input provided by our work groups, the public, WSSC staff and Commission members; industry literature; and state and local conservation-related studies, reports and recommendations.

At a special meeting held in September, the five rate structure alternatives were presented by management to the Commission for their consideration. In October, WSSC held three additional public hearings to solicit further input from the public and stakeholders on the five rate structures proposed by WSSC's experts, and in early November WSSC management recommended three of the five rate structures for review and consideration by Commissioners. The Commission held a special meeting on November 8 to consider management's recommendation, and after careful consideration and deliberation, voted at their November 15 meeting to support management's recommendation and to forward the enclosed rate structures to you for your review and consideration. We have attached a copy of the Recommended Rate Structure Alternatives Memorandum that was presented to the Commission on November 8. This Memorandum explains in great detail the extensive, open and transparent process that led to this recommendation and the specifics of the tier structures and tier breaks within each structure.

WSSC management and Commissioners are now unanimously recommending the following three rate structures for your review and consideration:

CONTRACTOR OF STREET	Water & Sewer Tiers				
Type of Rate Structure	Options	Gallons Per Day	A STATE OF THE STA	Per 1,000 allons	
		0-80	\$	10.66	
3 Tier Inclining	Option 3A	81-165	\$	13.43	
		>165	\$	17.61	
		0-165	\$	10.41	
3 Tier Inclining	Option 3B	166-275	\$	13.89	
		>275	\$	19.96	
		0-80	\$	10.66	
A Tiles to alterior	Oution 44	81-165	\$	12.25	
4 Tier Inclining	Option 4A	166-275	\$	14.86	
		>275	\$	18.74	

These three rate structures are inclining block structures and have either 3 or 4-tiers, a standard in the industry. All of the structures will bill "through the block" or at each level of consumption rather than at the highest level of consumption. You will find a detailed description of the rationale behind each of the tier breaks in the attached Memorandum at page 7.

The inclining block structure sends a conservation-oriented price signal to ratepayers. Conservation was strongly supported by customers in our public meetings, and is a high priority of the Commission. As a bi-county state agency, we were particularly mindful of the provisions in State law that require public water systems to improve water conservation and the efficiency with which water is used, treated, stored, and distributed. As you are well aware, conservation is integral to the management of the Potomac River and is needed to ensure a viable long-term supply for the region and to preserve the ecological health of Maryland's water resources.

The Commission believes that the three rate structures being transmitted to you better align our rates to the costs of providing clean water, reflect customer and Commission rate setting policy goals, and provide a more predictable revenue stream to pay for infrastructure and water and sewer service to our customers.

WSSC values your input and consideration of these rate structure alternatives and will be available at your convenience to meet with you and attend meetings with your community to brief you on these alternatives, and entertain any questions you or your constituents may have.

The Commission plans to continue its rate structure review and deliberations early next spring and would appreciate the benefit of your input within this time frame as we work toward concluding this process. We intend to select a final rate structure in June of 2018 that will be implemented in FY 2020 when our new billing system is in place. Your timely feedback will enable us to continue our critical work in developing and testing the new billing system so it is available for implementation in FY 2020 with the new rate structure.

We look forward to talking and engaging with you over the next few months and thank you in advance for your thoughtful consideration and input.

Sincerely,

The Washington Suburban Sanitary Commission

Thomasina V. Rogers, Chair

Carla A. Reid, General Manager/CEO

CC: Commission Members

Attachment: Management's Recommended Rate Structure Alternatives



TO:

COMMISSIONERS

FROM:

CARLA A. REID

General Manager/Chief Executive Officer

DATE:

NOVEMBER 1, 2017

SUBJECT:

RECOMMENDED RATE STRUCTURE ALTERNATIVES

This memorandum provides the Commissioners with WSSC management's recommended rate structure alternatives and details the extensive, open and transparent process that lead to this recommendation. We firmly believe the three rate structures we are recommending better align costs to produce and deliver clean water with rates, reflect customer preferences, Commissioner rate setting policies, and provide a more predictable revenue stream to pay for infrastructure improvements. We look forward to discussing these recommendations with you at the Special Commission meeting scheduled for Wednesday, November 8, 2017.

Process

WSSC has engaged in a transparent and collaborative process to develop rate structure alternatives. We began the process in summer 2016 by convening the Bi-County Rate Structure Working Group (Working Group), which includes executive and legislative branch representatives from Prince George's and Montgomery County Governments. The Working Group met several times throughout this process to discuss specific rate structure alternatives, customer impacts, and policy priorities.

Customer input was crucial in the development of this recommendation. As you know, WSSC engaged in an extensive public outreach campaign designed to generate robust attendance and participation throughout this transparent process. We will detail these efforts in the next section of this memorandum.

To assist in the highly technical and complex work of developing a rate structure, WSSC hired nationally-renowned rate structure experts experienced in developing water and sewer rate structures for other jurisdictions including: Black and Veatch Management Consultants and Raftelis Financial Consultants. Additional experts in the areas of water conservation and customer assistance programs, 4Tenets Consulting and Scott J. Rubin, were also engaged since water conservation and affordability are important policy matters relating to rate structures. This team of experts informed the Commission how rate structures are typically developed using industry recognized public policy considerations, provided analysis on WSSC customer data, researched water utility rate structure practices and customer affordability programs in other jurisdictions, analyzed the impact of alternative rate structures on WSSC customer's bills, and



provided extensive research on the state of Maryland environmental law and policies and legal requirements for rate structures that support water conservation and demand management.

Public, Customer, and Stakeholder Input

WSSC sought broad input from the public, our customers, elected officials, and other stakeholders throughout the development of rate structure alternatives.

In fall 2016, WSSC convened a Stakeholder Representative Group (SRG) comprised of a cross-section of WSSC's residential and non-residential customers from both Counties. The SRG met three times, from November 2016 through January 2017, and discussed various rate structures alternatives, customer impacts, rate structures used by other utilities, and policy priorities. The input provided by the SRG is summarized in the Comprehensive Water and Wastewater Cost Of Service And Rate Study Phase 1 Report - Stakeholder Engagement (Phase I Report)¹.

On Wednesday, March 15, 2017, the Commission was briefed by the Chief Financial Officer on the status of the rate structure review process, examples of rate structures reviewed by the Working Group and the SRG, and the customer impacts of these alternatives.²

On Wednesday, March 30, 2017, the Chief Financial Officer briefed a joint session of the Prince George's County Transportation, Housing, and Environment Committee (THE Committee) and the Montgomery County Transportation and Environment Committee (T&E Committee) on the status of the rate structure review process, examples of rate structures reviewed by the Working Group and the SRG, and the customer impacts of these alternatives³.

During summer 2017, WSSC held seven public informational meetings in both Prince George's and Montgomery Counties to present examples of rate structure alternatives, respond to questions on rate structure issues, and receive input from customers.

https://www.wsscwater.com/files/live/sites/wssc/files/Financial/Phase%201%20Report_Final_31 MAR2017.pdf

¹ The report is available at:

² This briefing can be found at:

https://www.wsscwater.com/files/live/sites/wssc/files/Commission%20Agendas/2017agendas/march/Rate%20Study%20for%20Commission%203-15-17%20Final.pdf

³ This briefing can be found at:

http://montgomerycountymd.granicus.com/MetaViewer.php?view_id=&event_id=5313&meta_id=1 33788



To help inform our customers and promote attendance at these informational meetings, WSSC employed direct mailings to all customers providing the date, time, and location of these meetings. In addition, the meetings were promoted through local news media, on WSSC's website, paid social media, and radio advertisements. Outreach was also targeted to our Spanish-speaking customers. All of these meetings were open to the public, livestreamed on Facebook or on WSSC's web page.⁴

In addition to these public meetings, WSSC provided a similar public presentation of the rate structure examples and answered questions from the public at four additional public meetings in Oxon Hill, Forestville, Berwyn Heights, and Glendale during June and July 2017.

After the five rate structure alternatives developed by WSSC's experts were presented to the Commission on September 13, 2017, WSSC also held three public hearings last month: October 16 in Largo, October 18 in Laurel, and October 19 in Rockville. Extensive public outreach was also used to promote these hearing and generate large turnout. At these public hearings, presentations were made on five rate structure alternatives being considered by the Commission and attendees interested in speaking were given three minutes to provide testimony on the rate structure alternatives. The record was kept open for any comments submitted in writing until October 31, 2017. Staff has attended several other customer and stakeholder meetings to present and discuss the five rate structure alternatives under consideration.

The public feedback provided at these meetings and hearings are summarized in Appendices #1 and #5.

To date, the Commission has met in four special sessions for the rate structure review. All of the special sessions were open to the public and livestreamed on the WSSC's website.⁵ At each of these meetings, time was allotted for the public to provide input on rate structure alternatives.⁶ In total, WSSC held or participated in 20 public meetings/hearings since spring 2017, which were attended by more than 1,200 customers. Additionally, all WSSC meetings were livestreamed and seen by nearly 2,500 viewers.

The Commission is scheduled to meet in a special session on rates structures on Wednesday, November 8, 2017, to discuss the recommendations in this memo. An agenda item is planned at the regularly scheduled Commission session on Wednesday,

Recordings of these meetings are also available on the WSSC website at: www.wsscwater.com/ratestudy

⁵ These meetings were held in 2017 on June 30; August 3; August 15; and September 13. The recordings and briefing materials for these meetings can be found at: https://www.wsscwater.com/ahout-us/our-governance/corporate-secretary/commission-meeting-minutes/public-meetings-3.html

⁶ The public comments provided at the Special Commission meeting are included in Appendix #1.



November 15, 2017, to discuss and select which rate structure alternatives to transmit to the governing bodies of the Prince George's and Montgomery County Governments for their review.

Cost of Service Study

As part of the rate structure review process, a cost of service study was developed with the assistance of Black and Veatch Management Consulting.⁷ A cost of service study is an analysis performed by utilities of the costs of providing service to various customer groups and determining a reasonable allocation of cost recovery through usage charges to these customer groups. WSSC completed its first ever cost of service study in April 2017.⁸

The cost of service analysis provides a guideline for evaluating cost responsibility by customer group. The cost of service analysis indicated that due to the statutory restriction allowing only one customer class/rate structure, a uniform volume rate or a declining block rate would most closely align with the estimated cost of providing service to different customer groups. Appendix #2 provides an example of a declining block rate structure. A uniform volume rate would charge all customers one rate for each one thousand gallons of water consumed within a defined time period (e.g. day, month or quarter) and a declining block rate would charge customers less per thousand gallons of water consumed at pre-defined levels of consumption.

Public Service Commission Order

On March 28, 2017, the Maryland Public Service Commission (PSC) issued its ruling that the Commission's "...volumetric rate structure adopted for FY2016 is unduly discriminatory among classes of customers and is accordingly unreasonable." and ordered the Commission "...to develop reasonable rates consistent with the findings herein." Richard D. Boltuck v. Washington Suburban Sanitary Commission, Md. P.S.C Case No. 9391, Order No. 88091 (2017). The PSC based its decision, in part, on the fact WSSC was unable to produce documentation that the 16 tier block rate structure was adopted with consideration of the cost of providing service, the water conservation

⁷ The "Principles of Water, Rates, Fees, and Charges" M1 Manual published by the American Water Works Association, and the Manual of Practice No. 27 "Financing and Charges for Wastewater Systems" that is published by the Water Environment Federation state that other policy objectives should be considered by a utility that go beyond a cost based approach.

⁸ The Comprehensive Water & Wastewater Cost of Service and Rate Study - Phase 2 Final Report can be found at:

https://www.wsscwater.com/files/live/sites/wssc/files/Financial/Phase%202%20Report Final 05 MAY2017.pdf



benefits of an inclining block structure, and public policy objectives underlying this structure. Order at 14.9

Rate Structure Development and Design

Because WSSC's current rate structure was adopted 25 years ago and good management practice dictates periodic review of rate structure alternatives, and in response to the PSC Order, WSSC initiated a comprehensive rate structure review in a manner consistent with industry standards and practices, using industry recognized methodologies and public policy considerations. As part of this rate structure review, WSSC completed its first ever cost of service study which is available on WSSC's website as noted above. Utilizing their extensive rate structure experience and expertise, WSSC's experts considered the record available to the Commission including the analysis in the cost of service study, input from the public and stakeholders, the PSC Order, WSSC customer information, and research into the impact of various rate structures on water conservation, customer affordability, revenue stability and rate stability to develop five alternative rate structures which we believe are compliant with the PSC's order to develop a reasonable rate structure.

Each of the five rate structure options under consideration were developed using recognized public policy considerations, have a legitimate and rational basis, and would be consistent with the requirements of the PSC order.

Each of the five rate structure options would move WSSC's rate structure towards the cost of service, are commonly used within the industry, and have proven to be effective in addressing pricing policy considerations similar to those of WSSC.

Commission Policy Priorities

On August 3, 2017, the Commission received a briefing from one of our rate structure experts, Chris Woodcock of Raftelis Financial Consultants, on considering and incorporating policy priority considerations in rate design and adoption. ¹⁰ Each Commissioner then ranked their individual policy priorities, which when tabulated resulted in the following ranking of policy priorities by the Commission as a whole:

- 1. Revenue Stability
- 2. Conservation/Demand Management

⁹ The documentation and testimony that the Commissioners have received and considered during this extensive process stands in stark contrast to the record of adoption of the 16 tier rate structure that was reviewed by the PSC in *Boltuck*.

¹⁰ The materials for this briefing can be found at:

https://www.wsscwater.com/files/live/sites/wssc/files/Commission%20Agendas/2017agendas/august/E.2.a.%20-%20Pricing%20Policy%20Discussion%20Slides.pdf and a recording of the briefing is available at: http://wsscwater.granicus.com/MediaPlayer.php?view_id=2&clip_id=357



- 2. Rate Stability (had the same number of votes as Conservation)
- 3. Affordability
- 4. Ease of Understanding
- 5. Ease of Implementation
- 6. Minimize Customer Impacts
- 7. Cost Based Rates

Our rate experts, including Pam Lemoine of Black and Veatch and Chris Woodcock, William Stannard and Harold Smith of Raftelis Financial Consultants, then designed several rate structure alternatives that were responsive to these policy priorities and were consistent with industry best practices. As these experts noted during their testimony on September 13, 2017, the development of rate structure alternatives was constrained by legal and technical limitations. Our rate experts advised that there is not one rate structure that can meet each of these policy considerations equally well and as such the rate consultants also evaluated the ability of each of the alternative rate structures to meet the policy considerations.

Water Rate Affordability and Customer Assistance Programs

Throughout the rate structure development process, we have carefully considered the impact of a new rate structure on customer affordability, especially to our low and fixed income customers who struggle to pay for their essential needs. Based on WSSC's current population of vulnerable households, our own research and the advice of our Customer Assistance Program expert, it was determined that water rate affordability challenges for those households are most effectively addressed through carefully designed customer assistance programs and not through water and sewer rate structures. The alternate rate structures presented by the experts were evaluated on whether the structure made affordability of the proposed rate structures for vulnerable households more difficult. We are continually assessing the effectiveness of our existing customer assistance programs to identify where we can make targeted improvements. We have engaged Scott Rubin, a nationally recognized expert in water affordability, to assist us in this effort. Mr. Rubin's expertise in customer assistance programs will help us to effectively reach out to our vulnerable customers, particularly hard to reach populations and renters. We are committed to recommending enhancements to our customer assistance programs as part of our implementation of a new rate structure.

Customer Feedback Community

On Thursday, September 7, 2017, WSSC convened a meeting of its Customer Feedback Community (CFC). The CFC is a diverse group of residential and business customers from Prince George's and Montgomery counties who advise WSSC on a variety of issues, including future initiatives, rate structure and customer service. The group is demographically representative of our customer base. With online and inperson feedback options, the CFC ensures that WSSC receives real-time and qualitative



insight from our customers. The CFC received a briefing on the rate structure review process and the industry recognized policy priority considerations in developing a rate structure. The CFC voted on its own policy priorities and ranked Affordability, Rate Stability, and Conservation/Demand Management as its top three priorities. More details on the CFC ranking is included in Appendix #3.

Rate Structure Alternatives

The five rate structure alternatives developed by our panel of experts are summarized in the table on the next page. They include a uniform rate, two 3-tier inclining block rate options, and two 4-tier inclining block rate options.

The development of the inclining rate structures was influenced by relevant findings about WSSC's customer base derived from local census data. WSSC's customer base is overwhelmingly residential with 93% of bills going to those in Single Family Residential (SFR) and Multifamily (MF) residential housing (with about 66% of residential customers in SFR housing). Nearly 75% of all households are 3 or less persons per household and 95% of all households have 5 or fewer persons¹¹.

The overwhelmingly residential character of WSSC's customer base, most common household sizes, and average consumption needs formed the basis of tier breaks within the four inclining block rate structure alternatives.

The World Health Organization (WHO) estimates that the minimum reasonable sanitary needs for an individual is 100 liters or 26 gallons of water per day (GPD). In addition, the average per capita consumption in WSSC's service area is 55 gallons per day.

The 80 GPD tier would meet the minimum sanitary needs of a three-person household, which is the most common type of WSSC residential customer. The 165 GPD tier would provide adequate water for that same three-person household, using WSSC's average per person consumption across our entire residential customer base. The 275 GPD tier would provide adequate water for a residential household of five, based on average per person consumption. As stated above, 95% of all households in the service area have 5 or fewer persons.

The table below shows the five rate structure alternatives presented to the Commissioners by the experts. Appendix #4 contains the presentation on the five alternative rate structures including a detailed analysis of customer bill impacts. 12

U.S. Census, American Community Survey, 2015 5 year estimates (http://factfinder.census.gov/).
 The rates in each rate structure alternative in Appendix #4 are set to maintain revenue neutrality for WSSC based on its FY18 budget plus a 2% adjustment for potential increased customer delinquencies and technical impacts of implementing a new rate structure.



Rate Structure Alternatives

		Wa	ter & Se	wer Tiers	(gpd)			
Uniform	H. Dansen		\$14.7	3 (\$/Kgal)			\$14.7	3 (\$/Kgal)
3 Tier Inclining		0-80	\$	10.66	MAZION	0-165	\$	10.41
	Option A	81-165	\$	13.43	Option B	166-275	\$	13.89
		>165	\$	17.61		>275	\$	19.96
	0-80 81-165 166-275 >275	0-80	\$	10.66	Option B	0-80	\$	10.66
4 Tier Inclining		81-165	\$	12.25		81-165	\$	13.09
		166-275	\$	14.86		166-9,000	\$	16.16
		>275	\$	18.74		>9,000	\$	20.52

October Public Hearings

In the three October public hearings, nearly 180 people attended and 26 people testified. The testimony is summarized in the table in Appendix #5. Generally, concerns were expressed about the impact on residential customer affordability and conservation in changing from the current rate structure to one of the five alternative rate structures. However, several speakers testified in support of the uniform rate alternative.

After the public hearings, on October 20, 2017, the Working Group was reconvened by WSSC to provide input to the General Manager on the five rate structure alternatives that were presented at the October Public Hearings. The Working Group discussed how the five alternative rate structures compared to each other on the policy priorities especially in terms of affordability, revenue stability, conservation, and rate stability. There was no recommendation at this time from the Working Group on which of the five alternative rate structure should be considered by the Commission.

Recommended Rate Structure Alternatives

After careful consideration of the record and information to date, we are recommending the following rate structure alternatives for further consideration and deliberation:

- 3-tier inclining block rate structure alternatives 3A and 3B
- 4-tier inclining block rate structure alternative 4A

As previously mentioned, we firmly believe the three rate structures we are recommending better align costs to produce and deliver clean water with rates, reflect customer and Commissioner rate setting policy goals, and provide a more predictable revenue stream to pay for infrastructure improvements. These alternatives also take into consideration the feedback received from the public during our extensive outreach efforts.



The three rate structure alternatives recommended by management for further consideration are all inclining block structures. They either have 3 or 4-tiers, which is standard in the water and wastewater industry for inclining block structure. In addition, all of the recommended rate structure alternatives will bill "through the block" or at each level of consumption rather than at the highest level of consumption. Billing through the block is also an industry standard.

The options recommended meet the Commission's policy priorities discussed above. While the Commission ranked other priorities as more critical than cost based rates, each option does provide reasonable cost recovery by customer type, with each option moving toward cost of service as estimated in the cost of service analysis.

An inclining block structure sends a more conservation-oriented price signal to the ratepayers. Conservation objectives were strongly supported by both the Commission, the CFC and in public meetings. The need for water conservation and the benefits of demand management were detailed in a white paper submitted to the Commission and discussed at the June 30, 2017, special meeting. As a bi-county state agency, we are particularly cognizant of the provisions in State law that require public water systems to improve water conservation and the efficiency with which water is used, treated, stored, and distributed.¹³

We are not recommending alternative 4B. The highest tier cutoff found in 4B, namely 9,000 or greater GPD, is from the current WSSC 16-tier rate structure. This tier cutoff would, as a practical matter, only apply to very large commercial and institutional users. Since the customer base is overwhelming residential, 93%, the tier cutoffs in the inclining block structures should be based on residential usage at this point in time. 14 Also, of the four inclining block rate structures proposed, 4B provides the least revenue stability which was ranked as the top priority of the Commissioners. Revenue stability is also critical to management in light of the fact that WSSC is currently implementing one federal consent decree relating to sanitary sewer overflows expected to cost more than \$1.7 billion over 17 years, and will be implementing a second federal consent decree relating to the Potomac Water Plant, which is expected to cost at least \$158 million over 10 years.

¹³ The White paper and related presentation can be found at:

https://www.wsscwater.com/files/live/sites/wssc/files/Commission%20Agendas/2017agendas/august/Additional%20Materials%20August%203.pdf and

https://www.wsscwater.com/files/live/sites/wssc/files/Commission%20Agendas/2017agendas/august/Water%20Conservation%20Policy%20Briefing.pdf

¹⁴ If the Commission were to receive the authority to establish rates by customer class, considering a rate or tier cut offs based on the volumetric consumption by large commercial and institutional uses would be an appropriate consideration at that time.



In addition to furthering conservation, each of the other inclining block rate structures, 3A, 3B, and 4A, promote or are neutral towards the other top ranked priorities of revenue stability, rate stability, and affordability.

We are also not recommending the uniform rate. Even though the uniform rate has benefits in terms of revenue stability, ease of understanding and implementation, it does not support the key priorities of conservation, rate stability, or affordability.

In addition, while some support has been expressed by customers and stakeholders for a uniform rate, it was generally not supported in public meetings. The public expressed concerns about the fairness and impact of significantly inclining the economic burden on residential customers, especially those with low and fixed incomes, while significantly lowering the burden for non-residential customers (including many businesses and government entities).

A uniform rate would have a significantly adverse impact on low and fixed income households. For the typical residential family, the annual bill based on uniform rates would increase by more than 20% and would represent up to 5% of the annual income of customers in the lowest one-fifth of household income in Prince George's County and 4% for similar households in Montgomery County. A change of this magnitude in the size of customer bills, even if phased in over a number of years, would be a significant economic hardship for many of our customers.

Conservation is integral to the management of the Potomac River and is needed to ensure a viable long-term supply for the region and to preserve the ecological health of Maryland's water resources. Pricing and rate structures can be effective tools, readily understood by WSSC's customers to encourage and promote water conservation. The absence of a pricing signal in a uniform rate does not support Maryland's conservation policies.

We look forward to discussing these recommendations with you at the special Commission meeting on Wednesday, November 8, 2017. Please let me know if you have further questions or are in need of clarification on these matters.



Appendix #1: Summary of Public Comments

Summary of Public Comments, Questions, & other Feedback Received

	Category	Public Meeting Comments	Public Meeting Questions	Email/Letters	Total	% of Total
	Affordability: Impact of new rate structure	25.83	6. 1.7714	ger E.		
1	on residential customers Conservation: Impact of new rate	38	29	67	134	39.6%
2	structure on water use	9	21	28	58	17.2%
	Ready to Serve Charges	5	11	12	28	8.3%
-	Process: Residential customer role in new					
Δ	rate structure	3	12	10	25	7.4%
	WSSC Budget & Cost Controls	2	6	6	14	4.1%
	Lawsuit & Future PSC Review of Rates	-	8	6	14	4.1%
	Support For Uniform Rate	-	6	8	14	4.1%
	Support for 4-tier Increasing Rates	5	2	7	14	4.1%
	Impact of new rate structure on					
0	Multifamily and condo customers	3	4	3	10	3.0%
-	Impact of new rates on Service &					
10	Infrastructure	2	5	3	10	3.0%
10	Impact of new rate structure on large					
11	families	2	1	6	9	2.7%
11	Support for option 3-tier Increasing Rate	-		_		2
12	(3B)	_		8	8	2.4%
	. (35)			_		2
13	Total Comments on Rate Structures	69	105	164	338	
14						
15	Public Comments Not Related to the Rate	Structure				
16	Comments on Presentation	9	16	9	34	
	Non-Rate Structure: Billing/Customer					
17	Service	27	29	23	79	
18	Other	18	11	18	47	
19	Location & Venue	7			7	
20	Total for Other Comments	61	56	50	167	
		130	161	214	505	

Note: The summary of Public Comments in Appendix #1 does not include the comments received at the October 16th, 18th, or 19th 2017 Public Hearings which are summarized in Appendix #5.



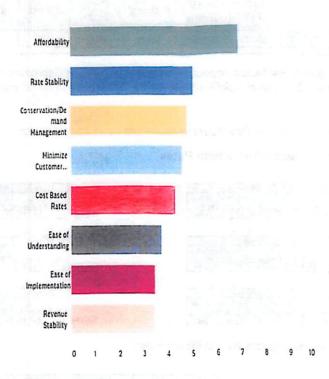
Appendix #2: Declining Block Rate Structure

	DESCRIPTION	WATER	SEWER	COMBINED
4-	Tier Option 1			
1	0 – 99 gallons/day	\$7.31	\$10.06	\$17.37
2	100 – 249 gallons/day	\$6.58	\$9.05	\$15.63
3	250 – 8,999 gallons/day	\$4.75	\$6.54	\$11.29
4	9,000 and over gallons/day	\$4.39	\$6.04	\$10.43



Appendix #3: Customer Feedback Community Ranking of Policy Priorities

Q1 Prioritize the importance of these policy considerations





Appendix #4: Rate Structure Alternatives and Customer Bill Impacts

Average Family Impact with Uniform Rates

	A CONTRACTOR			Average Family Impact					
	Combined Rate (\$/kgal)	Current Bill (\$/quarter)	Bill (\$/quarter)	\$ Change (\$/quarter)	% MHI PGC	% MHIMC	% LQI PGC	%LQIMC	
Uniform	514.73	\$205.45	5248.95	\$43.50	1.3%	1.0%	5.0%	4.0%	

Notes: gpd=gallons per day; MHI=Median Household Income; PGC=Prince George's County; MC=Montgomery County; LQI= Lowest Quintile of Income (i.e. households in lowest one-fifth of income bracket)

Assumes 1/2 inch meter

Example of the quarterly customer bill for a 3 person household using 55 gpd/person

Residential Customer Impacts with Uniform Rates

or besterriked	a state meeting	G B. THE		Stricte Cornely Builty
	Current	Un	form	
	Dill Amount	Bill Amount	S Change from Current	
Total Bill	5 43.90	5 57.46	\$ 13.56	Tota
Laborate States Sales	d af4" meter &	Spet		Simple raming bests
	Current	Un	form	
	Bill Amount	Bill Amount	5 Change from Current	
Total Bill	5 73.60	\$ 101.65	\$ 28.05	Tota
endenta		Dand	lform	Single Forming Band
	Contain		S Change from	
		BILL A mounty	Current	

	Current	Uniform	
	Bill Amount	Bill Amount	S Change from Current
Total Bill	\$ 121.42	5 160.57	\$ 39.15
1	Current	Un	lform
100	Bill Amount	Bill Amount	S Change Irom
Total Bill	\$ 203.45	5 248.95	\$ 43.50
	Antimore of		

Non-Residential Customer Impacts with Uniform Rates

	Current	lform	
in a	BIII Amount	Bill Amount	S Change from Current
Total BIII S	1,414.24	\$ 1,213.64	\$ (200,60)

	Current	Uniform			
	Bill Amount		Bill Amount	\$	Change from Current
Total BIII S	3,553.58	\$	2,907.59	\$	(645.99)

	Current	Uniform			
	Bill Amount	Bill Amount	\$ Change from Current		
Total BIII S	20,720.68	\$ 16,493.49	\$ (4,227.19)		

	Current	Uniform		
	Bill Amount	Bill Amount	S Change from Current	
otal Bill	\$ 621,364.68	\$ 473,491.74	\$ (147,872.94)	



Appendix #4: Rate Structure Alternatives and Customer Bill Impacts (continued)

Average Family Impact of 3-Tier Inclining Block Rate Structures

		Average	Family Impact - Usin	ng 55 gpd Per Pen	on for a 3 Person Ho	usehold
		W/Sewer Tiers (gpd)	Combined Rate (\$/kgal)	Current Bill (\$/quarter)	Bill (\$/quarter)	\$ Change (\$/quarter)
		0-80	\$10.66			
	Option A	81-165	\$13.43	\$205.45	\$210.06	\$4.61
		>165	\$17.61		1252430	
3 Tier Inclining		0-165	\$10.41			
	Option B	166-275	\$13.89	\$205.45	\$184.15	(\$21.30)
		>275	\$19.96		1.55	

Notes: Example of the quarterly customer bill for a 3-person household using 55 gpd/person. Assumes ¾ inch meter

Residential Customer Impacts with 3-Tier Inclining Block Rates

Г	Current	3 Block (DotionA	3 Block	Option B		Current	3 Block (Option A	3 Block	Option B
	Bill Amount	Bill Amount	S Change from Current	Bill Amount	S Change from Current		BEIAmount	Bill Amount	5 Change from Current	Bill Amount	S Orange from Current
Total Bill		5 49.32	5 5.42	5 4E.E2	\$ 4,92	Total Bit	5 121.42	5 129.48	\$ 8.06	5 121.69	5 027
Excedent	Current	3 Block (Option B		Current	3 Block (3 Block	
	Current	3 Block (S Change from		S Change from		Current	3 Block (S Change from	3 Block	S Change from
-	Bill Amount	Bil Amount	Current	Bill Amount	Current		Bill Amount	Bill Amount	Current	Bill Amount	Current
Total Bill	\$ 73.60	5 81.30	5 7.70	5 80.05	5 8.45	Total Bill	\$ 205A5	\$ 210.06	5 451	\$ 184.15	5 (2130
Total Bill			-	5 80.05	\$ 8,45	Total Bill	\$ 205.45	\$ 210.06	5 451	\$ 184.15	S
	Current	3 Block	OptionA	1 Block	Option 8		Current	3 Block	Option A	3 Block	Option B
-				And the Party of t	5 Change from				5 Change from	STANCES OF	15 Change f
	Bill Amount	Bit Amount	5 Charge from Current	Ell Amount	Current	OFFICE STATE	Bill Amount	Bil Amount	Current	Bill Amount	Current

Non-Residential Customer Impacts with 3-Tier Inclining Block Rates

3.0	Current	3 Block (Option A	3 Block	Option B
	Bill Amount	Bill Amount	5 Change from Current	Bill Amount	S Change from Current
Total Bill	\$ 1,414.24	\$ 1,327.39	\$ (86.85)	\$ 1,365.33	\$ (48.91)
Ionresidential 2" met	er, 2,000 gpd				
200	Current	3 Block C	Option A	3 Block	Option B
	Bill Amount	Bill Amount	\$ Change from Current	Bill Amount	\$ Change from Current
Total Bill	\$ 3,553.58	\$ 3,352.54	5 (201.04)	\$ 3,660.73	5 107.15
Vonresidential 8" met		3 Block (nation A	2.01	
	Current	3 Block (S Change from	3 Block	Option B
	Bill Amount	Bill Amount	Current	Bill Amount	S Change from Current
Total Bill	\$ 20,720.68	\$ 19,040.84	5 (1,679.84)	\$ 21,064.53	\$ 343.85
Voncesidential 8" met	er, 350,000 end		Andrew Commen	Name of the Control o	
	Current	3 Block (Option A	3 Block	Option B
	Current Bill Amount	3 Block (S Change from Current	Bill Amount	S Change from Current



Appendix #4: Rate Structure Alternatives and Customer Bill Impacts (continued) Average Family Impact of 4-Tier Inclining Block Rate Structures

		Average Family Impact - Using 55 gpd Per Person for a 3 Person Household							
		W/Sewer Tiers (gpd)	Combined Rate (\$/kgal)	Current Bill (\$/quarter)	Bill (S/quarter)	\$ Change (\$/quarter)			
STORES UNIXON		0-80	\$10.66		10.00				
		81-165	512.25	\$205.45					
	Option A	166-275	\$14.86	5205.45	5200.62				
Author day		>275	518.74						
4 Tier Inclining		0.80	\$10.65			\$ Change (\$/quarter) (\$4.83)			
		81-165	\$13.09	5205.45	f207.11				
	Option B	166-9,000	516,16	3203,43	5207.34				
		>9,000	520.52						

Notes: Example of the quarterly customer bill for a 3-person household using 55 gpd/person. Assumes ¼ inch meter

Residential Customer Impacts with 4-Tier Inclining Block Rates

	C	Current		4 Block Option A			1979	4 Block Option B		
	821	Amount	9.11	Amount		nge from crent		Amount	S Chi	nge from irrent
Total Bill	5	43.90	5	49.32	15	5.42	5	49.32	5	5.42

	-	urrent	1000	4 Block	Option	A	N. Carlot	4 Block I	Option	8
	811	Amount	811	Amount		nge Irom rrent	8.0	Amount	S Chu	nge from rrent
Total Bill	\$	73.60	5	81.30	5	7.70	5	81.30	5	7.70

	Current	4 Block	Option A	4 Block	Option B
	BilAmount	BillAmount	S Change from Current	Bill Amount	5 Change from Current
Total Bill	5 91.84	5 102.62	\$ 10.78	\$ 102.62	5 10.78

	_ (urrent		4 Block	option	A	3570	4 Block	Optio	mB
	B-11	Amount	8/1	Amount	10000	inge from urrent		Amount	50	lange from Current
Total Bill	5	121.42	5	127.12	5	5.70	5	128.80	5	7.38

	Cu	rent		4 Block C	ptic	n A	4 Block	ptio	ption B		
	BIIA	mount	8/1	Amount		current	I Amount	SCh	ange from Jurrent		
Total Bill	5	205.45	5	250.62	5	(4.83)	\$ 207.34	5	1.89		

-	(urrent		4 Block (Option	n A	4 Block Option B			
	Bill	Amount	2/1	Amount	S Change from SII Amount			SO	Diange from Current	
Total Bill	5	822.88	5	742.76	5	(80.12)	5	708.30	5	(114.58)

Non-Residential Customer Impacts with 4-Tier Inclining Block Rates

A11 5 . 1275 . 3 Miles	Current	4 Block C	Option A	4 Block C	Option B
	Bill Amount	Bill Amount	5 Change from Current	Bill Amount	S Change from Current
Total Bill	\$ 1,414.24	\$ 1,339.04	5 (75.20)	5 1,247.82	\$ (166.42)

	Current	4 Block C	Option A	4 Block	Option 5		
	Bill Amount	Bill Amount	5 Change from Current	Bill Amount	5 Change from Current		
Total Bill	\$ 3,553.58	5 3,494.14	\$ (59.44)	5 3,106.22	\$ (447.36)		

	Current	4 Block Option A		4 Block Option B	
	Bill Amount	Bill Amount	5 Change from Current	Bill Amount	5 Change from Current
Total Bill		\$ 20,007.34	S (713.34)	\$ 18,137.14	\$ (2,583.54)

Nonresidential 8" met	Current	4 Block Option A		4 Block Option B	
	Bill Amount	Bill Amount	5 Change from Current	Bill Amount	5 Change from Current
Total Bill	\$ 621,364.68	\$ 601,415.84	\$ (19,948.84)	\$ 554,770.14	\$ 33,405.46



Appendix #5: Public Hearing Comments

Summary of October 2017 Public Hearing Comments

	Public	
	Hearing	
Category	Comments	% of Total
Impact on affordability for residential		
1 customers	6	31.6%
2 Support for Uniform Rate	6	31.6%
Conservation: Impact of new rates on		
3 water use	4	21.1%
Support for Option 3 Tier Increasing Rate		
4 (3B)	1	5.3%
Support for 4 Tier Increasing Rate		
5 Structure	1	5.3%
Different rates for Residential and		
6 Industrial Customers	1	5.3%
7 Total	19	100.0%
8		
Non-Rate Structure: Billing/Customer		
9 Service	7	

Note: This summary of Public Hearing Comments does not include the comments received at the May-June 2017 Public Informational meetings or received by email or letter from customers. which are summarized in Appendix #1.