

# BUDGET

FISCAL YEAR 2021-2022



May 26, 2021

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 Marc A. Verniel, Vice-Chairman  
 Wayne O. Nelson, Secretary  
 F. Craig Meadows, Treasurer  
 Christopher H. Kiwus

Caleb M. Taylor, P.E.  
 Executive Director

The enclosed **Recommended FY2021-2022 Budget** for the NRV Regional Water Authority was presented and passed by the Members of the Board at the regularly scheduled Board Meeting held on May 26, 2021 at 4PM.

*William R. Knocke*

William R. Knocke, Chairman

*6/8/21*

Date

*Caleb M. Taylor*

Caleb M. Taylor, Executive Director

*6/14/2021*

Date

*F. Craig Meadows*

F. Craig Meadows, Treasurer

*6/14/21*

Date

*Sham Huff*

Attest

*6/14/2021*

Date



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William R. Knocke, Chairman  
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Caleb M. Taylor, P.E.  
Executive Director

May 26, 2021

**FY2021-2022 Budget Letter**

Dear NRV Regional Water Authority Board Members:

We are pleased to submit for your review the **Recommended FY2021-2022 Budget** for the period beginning July 1, 2021 through June 30, 2022. This year's budget is balanced and meets the strategic goals of the Water Authority.

The purpose of our budget is to plan necessary operating and capital expenditures for the next fiscal year to meet Water Authority Board expectations and maintain the level of service that has been provided to its customers while servicing the Water Authority's debt. Quality water service will continue to be offered at a reasonable cost. Highlights of the **Recommended FY2021-2022 Budget** include:

1. A water rate increase from \$3.77 to \$3.96 per 1,000 gallons (or a 5.0% increase) as adopted by the NRV Regional Water Authority Board of Directors on February 22, 2017.
2. The proposed budget assumes no increase in sales in the coming year. This is not analogous to the 0.5% increase in sales as projected in the revised cash flow projection analysis dated April 20, 2020. The no change in water sales for FY2021-2022 is due to the drop in water consumption attributed to the global pandemic that this region experienced beginning in March 2020.
3. A compensation increase of 3% for Authority employees. This is comprised of a 0.5% COLA and a 2.5% Merit for those eligible.
4. VRS rate remains at 18.30% with insurance at 1.34%.
5. Health Insurance premiums slightly decreased for FY2021-2022.
6. Capital Improvement expenditures have been projected to be \$1,500,000 paid from the reserve account, and approximately \$36 million paid from debt.

This budget incorporates the annual operations and maintenance as well as capital improvement needs identified by engineering studies and NRVWA staff. The fiscal condition of the Water Authority remains sound as shown in the ***Recommended FY2021-2022 Budget***. We look forward to the next year and continued success at the NRV Regional Water Authority.

Sincerely,

*Caleb M. Taylor*

Caleb M. Taylor, P.E.  
Executive Director

CMT/sh

# **REVENUES**

## ***Water Rates***

Historical water rates for the Authority’s customers are shown in Table 1.

**Table 1. Water Rates 2013-2021**

<b>Fiscal Year</b>	<b>Water Rate</b>	<b>Percent Increase</b>
<b>2013-2014</b>	1.94	7.2
<b>2014-2015</b>	2.08	7.2
<b>2015-2016</b>	2.22	6.7
<b>2016-2017</b>	2.34	5.4
<b>2017-2018</b>	3.08	31.6
<b>2018-2019</b>	3.61	17.2
<b>2019-2020</b>	3.70	2.5
<b>2020-2021</b>	3.77	1.9
<b>2021-2022</b>	3.96	5.0

As shown in Table 1, water rates have increased on average 9.4% annually. The water rate increased noticeably in 2018 and 2019 with a 31.6% and 17.2 % increase, respectively. The increase is the result of increases in operations and maintenance costs due to inflation as well as the debt service obligations associated with the following:

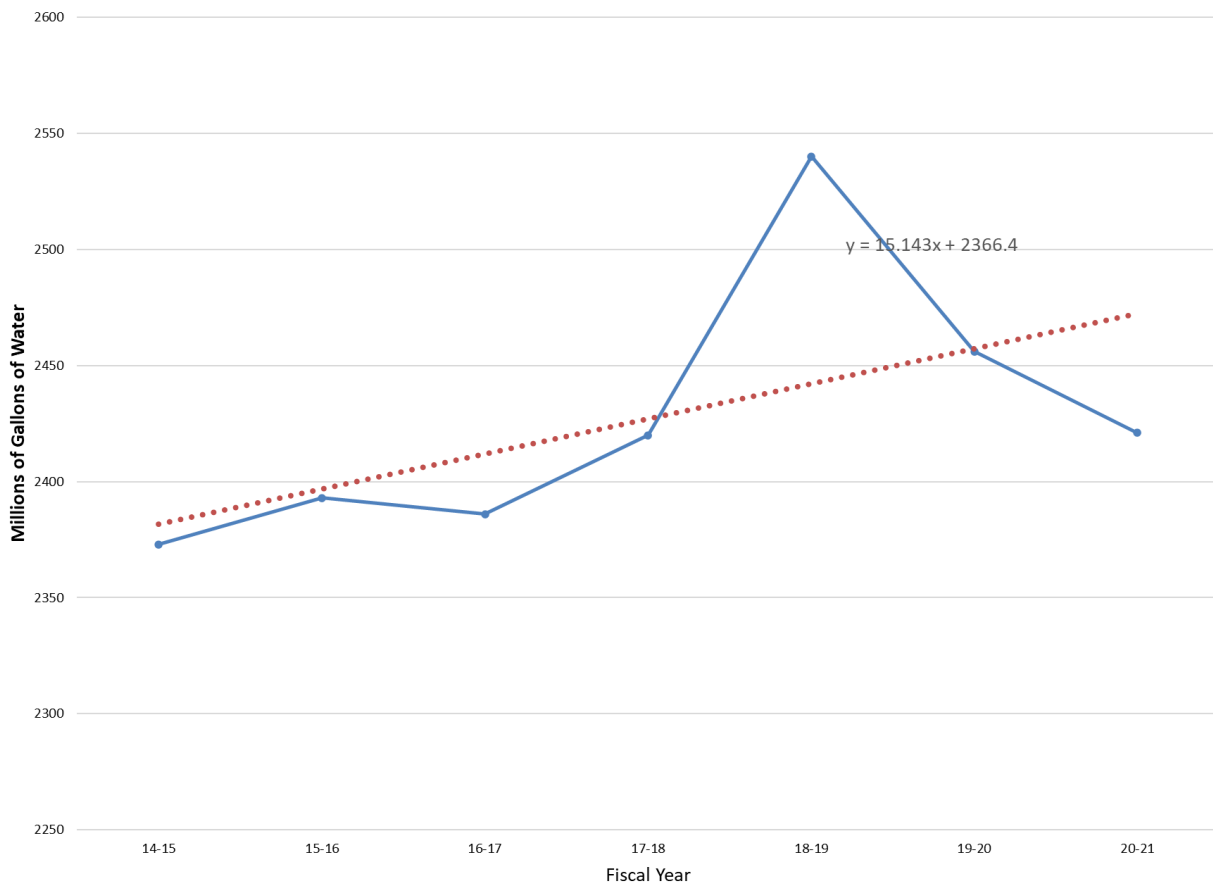
1. 2013 Bond for Prices Fork Transmission Main (Joinder Project)
2. 2014 (refinanced 2005 bond) bond
3. 2019 Bond for Plum Creek Transmission Main (Joinder Project)
4. 2020 Water Treatment Plant Modernization/Upgrade

The NRV Regional Water Authority’s Cash Flow Projections that outlines the existing and proposed water rates is provided in Appendix A.

The NRV Regional Water Authority’s proposed rate of \$3.96/1,000 gallons is a comparable rate when considering other wholesale water providers in the Commonwealth. More information on the wholesale water rates along with information on each of the Authorities is provided in Appendix A.

## ***Water Sales***

Annual water sales for the NRV Regional Water Authority from 2014-2020 are shown in Figure 1.

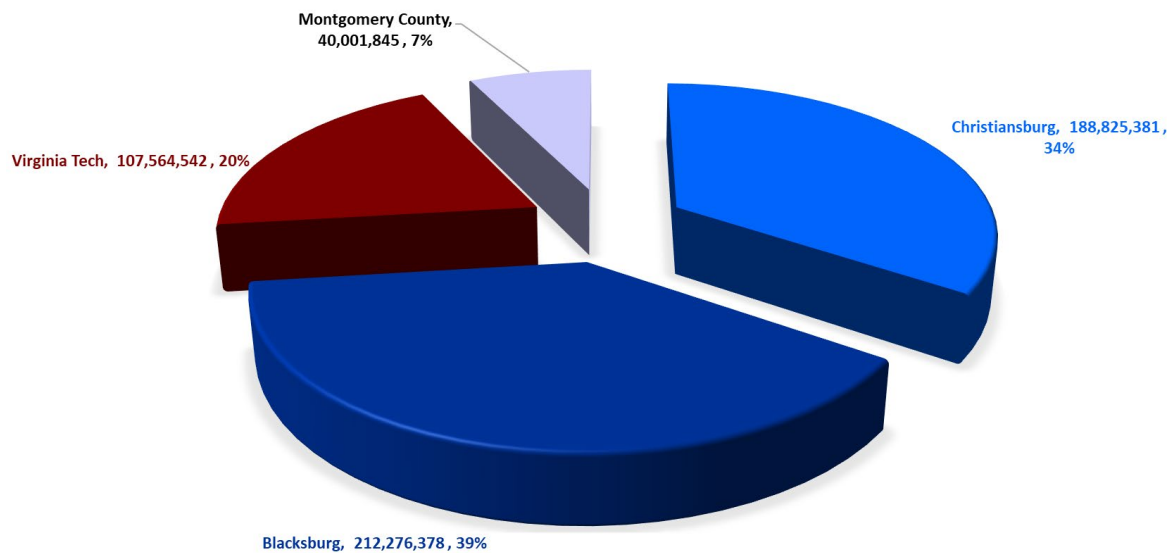


**Figure 1. Annual Water Sales FY2015-2021**

The annual water sales in the last seven (7) years for the Water Authority since the Joinder Study have risen during that time. In evaluating the trend for where anticipated water sales would be for FY2021-2022, many variables come into play such as weather patterns and economic growth. While weather is unpredictable for determining water sales, these historical numbers suggest that there will be little change in the annual water sales. Additionally, there is not any significant growth projected in the Water Authority’s service area within the next year.

For the Water Authority, the financial analysis assumed a one-half (0.5) percent increase in water sales for the 2021-2022 fiscal year. In evaluating the trends seen in Figure 1, no increase in water sales was projected for 2021-2022. The global pandemic that impacted this region beginning in March of 2020 resulted in reduced water sales. This reduction in sales has continued to be seen. While water consumption has slowly started to rise, we do not anticipate a significant change in the upcoming year with respect to water sales. This assumption provides a conservative estimate to the projected annual water sales for the Water Authority in 2021-2022.

Average water sales by customer are shown in Figure 2.



**Figure 2. Average Water Sales by Customer in Million Gallons 2013-2020**

Of the four customers (Blacksburg, Christiansburg, Virginia Tech and Montgomery County), approximately 73% of the water is being sold to the Towns of Blacksburg and Christiansburg while Virginia Tech and Montgomery County comprises approximately 20% and 7% of the total sales respectively. The percentages presented in Figure 2 follow historical usage.

The 2020 Water and Wastewater Rate Report prepared by Draper Aden Associates identifies trends in water rates for residential customers as well as other factors contributing to the water rates across the commonwealth. The towns and the county participate in this report. A copy of the 2020 Water and Wastewater Rate Report is provided in Appendix B.



## ***Proposed FY2021-2022 Revenue Budget***

The Recommended FY2021-2022 Revenue Budget based on the water rates and sales presented is shown in Table 2.

**Table 2. FY2021-2022 Revenue Budget**

<b><u>REVENUE</u></b>	<b>Proposed Budget FY21-22</b>	<b>Estimated Year End FY20-21</b>	<b>Increase (Decrease) FY21 to FY22</b>
<b>VIRGINIA TECH</b>	<b>\$ 1,890,000</b>		
<b>MONTGOMERY COUNTY</b>	<b>\$ 703,000</b>		
<b>TOWN OF BLACKSBURG</b>	<b>\$ 3,730,000</b>		
<b>TOWN OF CHRISTIANSBURG</b>	<b>\$ 3,318,000</b>		
<b>INTEREST INCOME</b>	<b>\$ 60,000</b>		
<b>MEMBERSHIP INTEREST</b>	<b>\$ 47,522</b>		
<b>TRANSER IN-CAPITAL CONTRIBUTION</b>	<b>-</b>		
<b>MISCELLANEOUS</b>	<b>\$ 5,000</b>		
<b>GAIN/LOSS ON SALE OF ASSETS</b>	<b>-</b>		
<b>TOTAL REVENUE =</b>	<b>\$ 9,753,500</b>	<b>\$ 9,277,000</b>	<b>\$ 476,500</b>

The Recommended FY2021-2022 Revenue Budget is \$9,753,500. This represents a 5.1% increase in revenue from FY2020-2021. The revenue increase is the net result of the water rate increase. The recommended revenue budget for FY2021-2022 takes a conservative but realistic approach of what the Water Authority could expect over the upcoming year.

## **EXPENSES**

### ***Salaries/Staffing***

Salaries is the single largest operating expense for the Water Authority. This is typical for most utilities that provides a similar type of service such as the Water Authority.

### ***Electrical Service***

Electrical service is the Water Authority's second largest expense in the operating budget. It comprises approximately 20% of the total operating budget.

## ***Chemicals and Testing***

Chemicals and Testing is the Water Authority's third largest expense in the operating budget. In the first quarter of 2021, all of the chemicals utilized by the Water Authority in the treatment of water were renewed for competitive pricing. The majority of the cost increases associated with the chemicals is the freight and fuel to have them delivered to the site.

## ***VRS Retirement***

VRS retirement percentages for the Authority essentially almost remained the same in 2021-2022 due to VRS's two year audit of staffing, staff age, anticipated retirements, and risk analysis. Based on the information of the existing staff, the VRS insurance percentage is 1.34% while the VRS pension percentage remained the same at 18.30% for fiscal years 2021 and 2022.

## ***Insurance***

Insurance premiums for the Water Authority slightly decreased in the upcoming fiscal year through our provider The Local Choice.

## ***Proposed FY2021-2022 Expense Budget***

The Recommended FY2021-2022 Expense Budget based on the anticipated operational and maintenance expenses is shown in Table 3.

Table 3. FY2021-2022 Expense Budget

<b>EXPENSES</b>	<b>Proposed Budget FY21-22</b>	<b>Current Budget FY20-21</b>	<b>Estimated Year End FY20-21</b>	<b>Increase (Decrease) FY21 to FY22</b>
ELECTRICAL SERVICES	\$ 830,000	\$ 850,000	\$ 700,000	\$ (20,000)
CHEMICALS AND TESTING	\$ 375,000	\$ 392,500	\$ 300,000	\$ (17,500)
LEGAL SERVICES	\$ 25,000	\$ 25,000	\$ 20,000	\$ 0
SALARIES-REGULAR	\$ 1,580,000	\$ 1,540,000	\$ 1,508,000	\$ 40,000
SALARIES-OVERTIME	\$ 135,000	\$ 133,000	\$ 110,000	\$ 2,000
FICA	\$ 134,000	\$ 129,000	\$ 120,000	\$ 5,000
VRS RETIREMENT	\$ 305,000	\$ 298,000	\$ 220,000	\$ 7,000
EMPLOYEE BENEFITS	\$ 128,000	\$ 117,000	\$ 47,000	\$ 11,000
GENERAL LIABILITY INSURANCE	\$ 90,000	\$ 85,000	\$ 85,000	\$ 5,000
HEALTH INSURANCE	\$ 280,000	\$ 291,000	\$ 287,000	\$ (11,000)
OTHER POSTEMPLOYMENT BENEFITS	\$ 34,000	\$ 35,000	\$ 39,000	\$ (1,000)
ENGINEERING AND ARCH. SERVICES	\$ 210,000	\$ 210,000	\$ 50,000	\$ 0
OTHER PROFESSIONAL SERVICES	\$ 124,000	\$ 110,000	\$ 102,000	\$ 14,000
LAB SUPPLIES	\$ 45,000	\$ 45,000	\$ 42,000	\$ 0
ADVERTISING	\$ 7,500	\$ 7,500	\$ 1,000	\$ 0
OFFICE SUPPLIES	\$ 12,500	\$ 12,500	\$ 11,000	\$ 0
POSTAGE	\$ 3,500	\$ 3,500	\$ 2,500	\$ 0
JANITORIAL SUPPLIES	\$ 15,000	\$ 15,000	\$ 13,000	\$ 0
DUES AND MEMBERSHIPS	\$ 19,000	\$ 19,000	\$ 16,000	\$ 0
WEARING APPAREL	\$ 16,000	\$ 16,000	\$ 16,000	\$ 0
EXPENDABLE EQUIPMENT	\$ 27,000	\$ 25,000	\$ 20,000	\$ 2,000
MAINTENANCE OF LINES	\$ 55,000	\$ 50,000	\$ 48,000	\$ 5,000
MAINTENANCE OF EQUIPMENT	\$ 30,000	\$ 50,000	\$ 25,000	\$ (20,000)
MAINTENANCE OF BOOSTER STATIONS	\$ 55,000	\$ 55,000	\$ 35,000	\$ 0
MAINTENANCE OF TANKS	\$ 20,000	\$ 10,000	\$ 0	\$ 10,000
MAINTENANCE OF INSTRUMENTATION	\$ 20,000	\$ 17,000	\$ 15,000	\$ 3,000
NON-PROFESSIONAL SERVICES	\$ 49,000	\$ 45,000	\$ 46,000	\$ 4,000
SAMPLING, TESTING, AND MONITORING	\$ 10,000	\$ 10,000	\$ 5,000	\$ 0
METERS	\$ 35,000	\$ 32,000	\$ 25,000	\$ 3,000
MILEAGE	\$ 1,000	\$ 1,000	\$ 0	\$ 0
MEALS AND LODGING	\$ 7,500	\$ 5,000	\$ 1,000	\$ 2,000
MAINTENANCE OF AUTO EQUIPMENT	\$ 45,000	\$ 43,000	\$ 25,000	\$ 2,000
HEATING SERVICES-GAS, OIL, KEROSENE	\$ 15,000	\$ 10,000	\$ 12,000	\$ 5,000
COMMUNICATION SERVICES	\$ 61,000	\$ 36,000	\$ 30,000	\$ 25,000
EDUCATION/REGISTRATION	\$ 10,000	\$ 10,000	\$ 6,000	\$ 0
UTILITIES	\$ 5,000	\$ 10,000	\$ 1,000	\$ (5,000)
MISCELLANEOUS	\$ 21,000	\$ 21,000	\$ 8,000	\$ 0
PERMITS	\$ 20,000	\$ 20,000	\$ 18,000	\$ 0
SOLIDS HANDLING AND DISPOSAL	\$ 30,000	\$ 30,000	\$ 25,000	\$ 0
MAINTENANCE OF BUILDING AND GROUNDS	\$ 35,000	\$ 30,000	\$ 30,000	\$ 5,000
DEBT SERVICE	\$ 893,410	\$ 894,100	\$ 894,100	\$ (690)
<b>OPERATIONS &amp; MAINTENANCE TOTAL <sup>a</sup> =</b>	<b>\$ 4,920,000</b>	<b>\$ 4,838,000</b>	<b>\$ 4,068,500</b>	<b>\$ 82,000</b>

<sup>a</sup> Operations and Maintenance Total does not include Debt Service.

The Recommended FY2021-2022 Expense Budget is \$4,920,000. This represents a 1.7% increase in expenses from FY2020-2021. The small increase in expenses is the result of inflation coupled with needs identified by staff to maintain a safe working environment and properly functioning equipment. The Financial Analysis projected FY2021-2022 total expenses of \$5,156,437 which is 4.8% more than the recommended expense budget of \$4,920,000. The recommended expense budget for FY2021-2022 takes into account the identified needs of the Water Authority operations over the upcoming year while building the necessary days of cash on hand that the Authority needs to have as recommended by its financial advisors as well as pay for the debt service obligations associated with the capital improvement plan needs of the Authority.

The difference between the Recommended Revenues and Expenses are the funds available for capital improvements. Table 4 presents the Recommended FY2021-2022 Budget summary.

**Table 4. Recommended FY2021-2022 Budget Summary**

	<b>Proposed Budget FY21-22</b>	<b>Budget FY20-21</b>	<b>Increase (Decrease) FY21 to FY22</b>
<b>TOTAL REVENUE =</b>	<b>\$ 9,753,500</b>	<b>\$ 9,277,000</b>	<b>\$ 476,500</b>
<b>OPERATIONS &amp; MAINTENANCE TOTAL =</b>	<b>\$ 4,920,000</b>	<b>\$ 4,838,000</b>	<b>\$ 82,000</b>
<b>FY2021-2022 180 DAYS CASH ON HAND =</b>	<b>\$ 2,426,310</b>	<b>\$ 2,385,870</b>	
<b>TOTAL AVAILABLE FOR IMPROVEMENTS <sup>a</sup> =</b>	<b>\$ 2,407,190</b>	<b>\$ 1,159,030</b>	
<b>PROPOSED IMPROVEMENTS =</b>	<b>\$ 1,500,000</b>	<b>\$ 550,000</b>	
<b>SURPLUS/RESERVE PAYMENT =</b>	<b>\$ 907,190</b>	<b>\$ 609,030</b>	

<sup>a</sup> Accounts for debt service payment of \$893,410 for FY21-22 and \$894,100 for FY20-21.

The total available funds for capital improvements in FY2021-2022 is \$2,437,060. The total proposed capital improvements for FY2021-2022 totals \$1,500,000. The proposed capital improvements funded through cash reserves include: Route 114 pump station improvements and Route 460 pump station improvements. Major capital improvement projects that will be funded through bonds and low interest rate loans through programs such as the Virginia Department of Health's State Revolving Loan Fund Program include:

1. Water Treatment Plant Modernization Phase 2 Project
2. Plum Creek Transmission Line Project (Phases 1, 2 & 3)

We anticipate FY2021-2022 to be a capital improvements year with the projects identified above progressing through construction. The Authority will continue to plan in the upcoming fiscal year to review and update the capital outlay using the latest information along with staff input and an overall master plan to build a solid path towards continued sustainability.

# APPENDICES

APPENDIX A:  
NRV REGIONAL  
WATER AUTHORITY  
CASH FLOW  
PROJECTIONS &  
WHOLESALE  
WATER RATES

## Memorandum

**To:** Caleb Taylor, PE  
**From:** Sheryl Stephens  
**Date:** April 20, 2020  
**Project Number:** B14128B-08  
**Subject:** Projections for FY2021 – 2025;  
 Wholesale Rates/Other Wholesale Water Authorities

The purpose of this memorandum is to provide:

- Revised revenue and expense projections for the fiscal years 2021 – 2025, and
- Wholesale water rates in effect for other authorities in Virginia.

**Revised Revenue and Expense Projections:**

The cashflow projection developed in 2019 was updated using the following assumptions:

- Water sales continue to increase at .5% per year.
- The following wholesale rates are used:

**Table 1: Projected Wholesale Rates (FY2020 – 2025)**

FY	Adopted			Projected		
	2020	2021	2022	2023	2024	2025
Rate	\$3.70	\$3.77	\$3.97	\$4.05	\$4.13	\$4.21
% increase	2.5%	1.9%	5.3%	2.0%	2.0%	2.0%

- Most operating expenses increase at 4% per year.
- Debt service on the water treatment plant upgrade is based on a project cost of \$45.7 million. The project is funded using VDH funds and cash reserves:
  - VDH funding is \$36.7 million; 30 years; 2.5% interest, annual debt service of \$1.76 million. Debt service starts in FY 2023.
  - The balance of the WTP cost - \$9 million, is funded with reserves.
- There is no additional "New Debt" during this 5-year period.
- During the 5-year period, the following projects are funded using cash reserves:
  - WTP Upgrade, \$9,000,000 in FY23 (mentioned above);
  - Route 114 Pump Station Upgrade, \$500,000 in FY21
  - Blacksburg Pump Station Study and Upgrades, \$500,000 in FY22
  - WTP – Flocculation Project - \$2,333,000 in FY23

**Projected Impact of COVID-19 in FY20:**

Water sales in March were approximately 7 percent (7%) less than the previous month. As would be expected, the water sales to Virginia Tech showed the greatest decline – 29% decline in March as compared to February.

Water sales to each member locality vary from month to month for a wide variety of reasons, but assuming that the overall sales are “down” 7% to 10% during the final quarter of FY20, the revenue for the fourth quarter may be \$125,000 - \$200,000 less than projected. The actual reduction in sales will be impacted by many factors, including when various businesses and services began to “shut-down” and if any begin to resume operations during the month of June. And, the reduced sales could continue into the first quarter of the next fiscal year.

The impact to the cash flow projections is that the projected transfers to the capital reserve would be reduced by an amount approximately equal to the decreased revenue – or, by approximately \$125,000 to \$200,000. However, a reduction in sales of this magnitude **will not** have a meaningful impact on the ability to pay operating expenses or debt service; nor will this reduction in revenue cause the Authority to fail to meet the debt coverage or days cash on hand ratios.

**Summary:**

Based on the adopted rates through FY 2022 :

- Debt coverage exceeds the “target” of 150% each year.
- Days Cash on Hand exceeds the target of 180 days.
- Reserves are projected to be approximately \$14 million at the end of FY22.

The 5-year projection is attached. see **Table 2** on the following page.

**Recommendation:**

Until the near-term capital projects are complete, it is recommended that the NRV Water Authority maintain the adopted wholesale rates through FY22. Further, the Authority may need to continue to increase the wholesale rates in the years following FY22, depending on future operating costs and the final cost of the capital projects.



**Table 2: NRV Cashflow Projection – FY2020 - FY2025**

	2020	2021	2022	2023	2024	2025
<b>Wholesale Rate (\$/1,000 gallons)</b>	<b>\$3.70</b>	<b>\$3.77</b>	<b>\$3.97</b>	<b>\$4.05</b>	<b>\$4.13</b>	<b>\$4.21</b>
<b>Revenue</b>						
Revenue from Water Sales	\$8,959,000	\$9,178,000	\$9,713,218	\$9,957,020	\$10,206,941	\$10,463,135
Other Income	\$99,000	\$99,000	\$99,000	\$99,000	\$99,000	\$99,000
<b>Total Revenue</b>	<b>\$9,058,000</b>	<b>\$9,277,000</b>	<b>\$9,812,218</b>	<b>\$10,056,020</b>	<b>\$10,305,941</b>	<b>\$10,562,135</b>
<b>Expenses</b>						
Operating Expenses	\$4,626,400	\$4,838,000	\$5,156,437	\$5,423,065	\$5,673,859	\$5,972,406
Existing Debt Service	\$554,173	\$894,097	\$893,406	\$894,509	\$891,856	\$892,981
<b>Projected Debt Service:</b>						
Upgrade of Water Plant (\$36.7 M)	\$-	\$-	\$-	\$883,060	\$1,766,120	\$1,766,120
<b>Total Expenses</b>	<b>\$5,180,573</b>	<b>\$5,732,097</b>	<b>\$6,049,843</b>	<b>\$7,200,634</b>	<b>\$8,331,835</b>	<b>\$8,631,508</b>
<b>Surplus/Contribution to Reserve</b>	<b>\$3,877,427</b>	<b>\$3,544,903</b>	<b>\$3,762,375</b>	<b>\$2,853,151</b>	<b>\$1,971,453</b>	<b>\$1,931,752</b>
<b>Analysis of Capital Reserve:</b>						
Beginning Capital Reserve	\$6,841,578	\$8,305,006	\$11,349,909	\$14,612,283	\$6,132,435	\$8,103,887
Additions to Reserve	\$3,877,427	\$3,544,903	\$3,762,375	\$2,853,151	\$1,971,453	\$1,931,752
<b>Use of Unrestricted Reserve:</b>						
<b>Projects Funded with Reserves:</b>						
Administration and Shop Bldgs.	\$(2,414,000)	\$-	\$-	\$-	\$-	\$-
Upgrade of Water Plant	\$-	\$-	\$-	\$(9,000,000)	\$-	\$-
Upgrades - Blacksburg Pump Station (Rt. 460 Pump Station)	\$-	\$-	\$(500,000)	\$-	\$-	\$-
WTP - Flocculation	\$-	\$-	\$-	\$(2,333,000)	\$-	\$-
Route 114 PS Upgrades	\$-	\$(500,000)	\$-	\$-	\$-	\$-
Route 114 Transmission Upgrade	\$-	\$-	\$-	\$-	\$-	\$-
Bburg S. Main St. Transmission Main Replacement	\$-	\$-	\$-	\$-	\$-	\$-
Prices Fork II	\$-	\$-	\$-	\$-	\$-	\$-
<b>Ending Reserve</b>	<b>\$8,305,006</b>	<b>\$11,349,909</b>	<b>\$14,612,283</b>	<b>\$6,132,435</b>	<b>\$8,103,887</b>	<b>\$10,035,639</b>
<b>Debt Coverage:</b>						
Total Revenue Available for Debt Service	\$4,431,600	\$4,439,000	\$4,655,781	\$4,632,955	\$4,632,082	\$4,589,729
Debt Coverage	8.00	4.96	5.21	2.60	1.74	1.73
Does Coverage = 150% or more?	Yes	Yes	Yes	Yes	Yes	Yes
<b>Days Cash on Hand:</b>						
Total Operating Expenses / 365 Days	\$12,675	\$13,255	\$14,127	\$14,858	\$15,545	\$16,363
DCOH (Ending Reserve)/(Total Operating Exp./365)	655	856	1,034	413	521	613
Does DCOH Exceed 180 days?	Yes	Yes	Yes	Yes	Yes	Yes

**Wholesale Water Rates:**

The following table details the historic and current wholesale water rates for select wholesale water providers in Virginia:

**Table 3: Wholesale Rates FY2017 - FY2021**  
 (\$/1,000 gallons)

Authority – Locality	Fiscal Year	Fiscal Year	Fiscal Year	Fiscal Year	Fiscal Year
	2017	2018	2019	2020	2021
NRV Regional Water Authority	\$2.34	\$3.08	\$3.61	\$3.70	\$3.77
Appomattox River WA - Chesterfield	\$0.90	\$0.90	\$1.00	\$0.98	\$1.03
Appomattox River WA - Colonial Heights	\$0.90	\$0.90	\$0.98	\$1.01	\$1.06
Appomattox River WA – Dinwiddie	\$1.41	\$1.41	\$1.58	\$1.45	\$1.48
Appomattox River WA - Petersburg	\$0.90	\$0.90	\$1.00	\$0.98	\$1.03
Appomattox River WA - Prince George	\$1.35	\$1.35	\$1.45	\$1.37	\$1.38
Maury SA - City of Lexington	\$2.55	\$2.60	\$2.72	\$3.32	\$3.70
Maury SA - Rockbridge PSA	\$2.55	\$2.60	\$2.72	\$3.32	\$3.70
Rivanna W&SA - Albemarle Co. SA (see note below)	\$3.88	\$4.03	N/A	\$3.59	N/A
Rivanna W&SA – Charlottesville (see note below)	\$2.86	\$2.98	N/A	\$4.63	N/A
Roanoke River Service Authority	\$3.70	\$3.70	\$3.77	\$3.77	\$3.77

	A	F	G	H	I	J	K	L	M	N
1	<b>Cashflow Projections</b>									
2	<b>NRV Regional Water Authority</b>									
3	<b>Revised April 2020</b>									
4										
5		<b>Budget</b>	<b>Budget</b>	<b>Projected</b>	<b>Projected</b>	<b>Projected</b>	<b>Projected</b>	<b>Projected</b>		
6		<b>June 30,</b>	<b>June 30,</b>	<b>June 30,</b>	<b>June 30,</b>	<b>June 30,</b>	<b>June 30,</b>	<b>June 30,</b>		
7		<b>2020 (includes adjustments)</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>		<b>Assumptions and Comments</b>
8	<b>Water Sales</b>									
9	Gallons per Year (000)	2,421,351	2,434,482	2,446,654	2,458,888	2,471,182	2,483,538	2,495,956	0.50%	Annual Growth Rate
10	Million Gallons per Day (MGD)	6.63	6.67	6.70	6.74	6.77	6.80	6.84		
11	Projected Rate	\$ 3.70	\$ 3.77	\$ 3.97	\$ 4.05	\$ 4.13	\$ 4.21	\$ 4.30		
12	% Increase / Wholesale Rate	2.5%	1.9%	5.3%	2.0%	2.0%	2.0%	2.0%		
13										
14	<b>Revenue</b>									
15	Revenue from Water Sales	\$ 8,959,000	\$ 9,178,000	\$ 9,713,218	\$ 9,957,020	\$ 10,206,941	\$ 10,463,135	\$ 10,725,760		
16	Interest Income	\$ 70,000	\$ 70,000	\$ 70,000	\$ 70,000	\$ 70,000	\$ 70,000	\$ 70,001		
17	Membership Interest	\$ 24,000	\$ 24,000	\$ 24,000	\$ 24,000	\$ 24,000	\$ 24,000	\$ 24,000		Annual Pmt./ Montgomery Co. / Interest Only is Shown
18	Miscellaneous	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,001		
19	<b>Total Revenue</b>	<b>\$ 9,058,000</b>	<b>\$ 9,277,000</b>	<b>\$ 9,812,218</b>	<b>\$ 10,056,020</b>	<b>\$ 10,305,941</b>	<b>\$ 10,562,135</b>	<b>\$ 10,824,762</b>		
20										
21	<b>Increase in Revenue</b>		2.4%	5.8%	2.5%	2.5%	2.5%	2.5%		
22										
23	<b>Expenses</b>									
24	Electrical Services	\$ 825,000	\$ 860,000	\$ 937,400	\$ 1,021,766	\$ 1,113,725	\$ 1,213,960	\$ 1,323,217	9.0%	increase each year
25	Chemicals and Testing	\$ 325,000	\$ 400,000	\$ 416,000	\$ 432,640	\$ 449,946	\$ 467,943	\$ 486,661	4.0%	increase each year
26	Legal Services	\$ 35,000	\$ 25,000	\$ 25,750	\$ 26,523	\$ 27,318	\$ 28,138	\$ 28,982	3.0%	increase each year
27	Salaries - Regular	\$ 1,480,000	\$ 1,540,000	\$ 1,601,600	\$ 1,665,664	\$ 1,732,291	\$ 1,801,582	\$ 1,873,645	4.0%	COLA each year
28	Salaries - Overtime	\$ 128,000	\$ 133,000	\$ 138,320	\$ 143,853	\$ 125,000	\$ 130,000	\$ 135,200	4.0%	increase until plant is complete; reduce to \$125,000 after plant is complete (2024)
29	FICA	\$ 126,000	\$ 129,000	\$ 134,703	\$ 140,092	\$ 143,790	\$ 149,542	\$ 155,524	7.7%	of salaries and overtime
30	VRS Retirement	\$ 291,000	\$ 298,000	\$ 378,854	\$ 394,008	\$ 404,410	\$ 420,586	\$ 437,410	21.8%	of salaries and overtime
31	Employee Benefits	\$ 106,000	\$ 117,000	\$ 128,700	\$ 141,570	\$ 155,727	\$ 171,300	\$ 188,430	10.0%	increase each year
32	General Liability Insurance	\$ 75,000	\$ 85,000	\$ 87,550	\$ 90,177	\$ 92,882	\$ 95,668	\$ 98,538	3.0%	increase each year
33	Health Insurance	\$ 267,000	\$ 291,000	\$ 308,460	\$ 326,968	\$ 346,586	\$ 367,381	\$ 389,424	6.0%	increase each year
34	Other Post Employment Benefits	\$ 38,000	\$ 35,000	\$ 37,100	\$ 39,326	\$ 41,686	\$ 44,187	\$ 46,838	6.0%	increase each year
35	Engineering and Architectural Services	\$ 200,000	\$ 210,000	\$ 218,400	\$ 227,136	\$ 236,221	\$ 245,670	\$ 255,497	4.0%	increase each year
36	Other Professional Services	\$ 102,000	\$ 102,000	\$ 106,080	\$ 110,323	\$ 114,736	\$ 119,326	\$ 124,099	4.0%	increase each year
37	Lab Supplies	\$ 45,000	\$ 45,000	\$ 46,800	\$ 48,672	\$ 50,619	\$ 52,644	\$ 54,749	4.0%	increase each year
38	Advertising	\$ 7,000	\$ 7,500	\$ 7,800	\$ 8,112	\$ 8,436	\$ 8,774	\$ 9,125	4.0%	increase each year
39	Office Supplies	\$ 12,500	\$ 12,500	\$ 13,000	\$ 13,520	\$ 14,061	\$ 14,623	\$ 15,208	4.0%	increase each year
40	Postage	\$ 3,500	\$ 3,500	\$ 3,640	\$ 3,786	\$ 3,937	\$ 4,095	\$ 4,258	4.0%	increase each year
41	Janitorial Supplies	\$ 8,000	\$ 7,500	\$ 7,800	\$ 8,112	\$ 8,436	\$ 8,774	\$ 9,125	4.0%	increase each year
42	Dues and Memberships	\$ 17,000	\$ 19,000	\$ 19,760	\$ 20,550	\$ 21,372	\$ 22,227	\$ 23,116	4.0%	increase each year
43	Wearing Apparel	\$ 16,000	\$ 16,000	\$ 16,640	\$ 17,306	\$ 17,998	\$ 18,718	\$ 19,466	4.0%	increase each year
44	Expendable Equipment	\$ 25,000	\$ 25,000	\$ 26,000	\$ 27,040	\$ 28,122	\$ 29,246	\$ 30,416	4.0%	increase each year
45	Maintenance of Lines	\$ 50,000	\$ 50,000	\$ 52,000	\$ 54,080	\$ 56,243	\$ 58,493	\$ 60,833	4.0%	increase each year
46	Maintenance of Equipment	\$ 68,000	\$ 50,000	\$ 52,000	\$ 54,080	\$ 56,243	\$ 58,493	\$ 60,833	4.0%	increase each year
47	Maintenance of Booster Stations	\$ 55,000	\$ 55,000	\$ 57,200	\$ 59,488	\$ 61,868	\$ 64,342	\$ 66,916	4.0%	increase each year
48	Maintenance of Tanks	\$ 20,000	\$ 20,000	\$ 20,800	\$ 21,632	\$ 22,497	\$ 23,397	\$ 24,333	4.0%	increase each year
49	Maintenance of Instrumentation	\$ 17,000	\$ 17,000	\$ 17,680	\$ 18,387	\$ 19,123	\$ 19,888	\$ 20,683	4.0%	increase each year
50	Non-professional Services	\$ 40,400	\$ 40,000	\$ 41,600	\$ 43,264	\$ 44,995	\$ 46,794	\$ 48,666	4.0%	increase each year
51	Sampling, Testing and Monitoring	\$ 15,000	\$ 10,000	\$ 10,400	\$ 10,816	\$ 11,249	\$ 11,699	\$ 12,167	4.0%	increase each year
52	Meters	\$ 32,000	\$ 32,000	\$ 33,280	\$ 34,611	\$ 35,996	\$ 37,435	\$ 38,933	4.0%	increase each year
53	Mileage	\$ 1,000	\$ 1,000	\$ 1,040	\$ 1,082	\$ 1,125	\$ 1,170	\$ 1,217	4.0%	increase each year
54	Meals and Lodging	\$ 4,500	\$ 5,000	\$ 5,200	\$ 5,408	\$ 5,624	\$ 5,849	\$ 6,083	4.0%	increase each year
55	Maintenance of Auto Equipment	\$ 39,000	\$ 43,000	\$ 44,720	\$ 46,509	\$ 48,369	\$ 50,304	\$ 52,316	4.0%	increase each year
56	Heating Services - Gas, Oil, Kerosene	\$ 15,000	\$ 10,000	\$ 10,400	\$ 10,816	\$ 11,249	\$ 11,699	\$ 12,167	4.0%	increase each year
57	Telephone Service	\$ 15,000	\$ 12,000	\$ 12,480	\$ 12,979	\$ 13,498	\$ 14,038	\$ 14,600	4.0%	increase each year
58	Cell Phone Service	\$ 9,000	\$ 11,000	\$ 11,440	\$ 11,898	\$ 12,374	\$ 12,868	\$ 13,383	4.0%	increase each year
59	Education / Registration	\$ 9,500	\$ 10,000	\$ 10,400	\$ 10,816	\$ 11,249	\$ 11,699	\$ 12,167	4.0%	increase each year
60	Utilities	\$ 10,000	\$ 10,000	\$ 10,400	\$ 10,816	\$ 11,249	\$ 11,699	\$ 12,167	4.0%	increase each year
61	Miscellaneous	\$ 16,000	\$ 21,000	\$ 21,840	\$ 22,714	\$ 23,622	\$ 24,567	\$ 25,550	4.0%	increase each year
62	Permits	\$ 18,000	\$ 20,000	\$ 20,800	\$ 21,632	\$ 22,497	\$ 23,397	\$ 24,333	4.0%	increase each year
63	Solids Handling and Disposal	\$ 30,000	\$ 30,000	\$ 31,200	\$ 32,448	\$ 33,746	\$ 35,096	\$ 36,500	4.0%	increase each year
64	Maintenance of Building and Grounds	\$ 30,000	\$ 30,000	\$ 31,200	\$ 32,448	\$ 33,746	\$ 35,096	\$ 36,500	4.0%	increase each year

	A	F	G	H	I	J	K	L	M	N
1	<b>Cashflow Projections</b>									
2	<b>NRV Regional Water Authority</b>									
3	<b>Revised April 2020</b>									
4										
5		<b>Budget</b>	<b>Budget</b>	<b>Projected</b>	<b>Projected</b>	<b>Projected</b>	<b>Projected</b>	<b>Projected</b>		
6		<b>June 30,</b>	<b>June 30,</b>	<b>June 30,</b>	<b>June 30,</b>	<b>June 30,</b>	<b>June 30,</b>	<b>June 30,</b>		
7		<b>2020 (includes adjustments)</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>		<b>Assumptions and Comments</b>
65	<b>Subtotal</b>	<b>\$ 4,626,400</b>	<b>\$ 4,838,000</b>	<b>\$ 5,156,437</b>	<b>\$ 5,423,065</b>	<b>\$ 5,673,859</b>	<b>\$ 5,972,406</b>	<b>\$ 6,289,272</b>		
66										
67	<b>Existing Debt Service:</b>									
68	Series 2013B / VRA / \$3,745,000 / through 10/1/2043	\$ 391,300	\$ 388,625	\$ 385,622	\$ 392,031	\$ 388,253	\$ 384,569	\$ 385,175		Debt Service thru 10/1/2043
69	Series 2014B /VRA / \$2,170,000 / through 4/1/2036									Debt Service thru 4/1/2036
70	<b>Projected Debt Service:</b>									
71	Plum Creek I and II and Chrisman Mill (\$9.8 M)	\$ 162,873	\$ 505,472	\$ 507,784	\$ 504,713	\$ 506,256	\$ 507,288	\$ 507,806		VRA funded. \$9,892,500 project fund / \$10.031 loan, 3.108% all-in TIC / 2019 Fall Pool / Final Numbers
72	Upgrade of Water Plant (VDH - \$36.7 M)	\$ -	\$ -	\$ -	\$ 883,060	\$ 1,766,120	\$ 1,766,120	\$ 1,766,120		VDH Funded - 30 years - 2.5%, Assume Debt Service Starts in April 2023
73	<b>Total Debt Service</b>	<b>\$ 554,173</b>	<b>\$ 894,097</b>	<b>\$ 893,406</b>	<b>\$ 1,779,804</b>	<b>\$ 2,660,630</b>	<b>\$ 2,657,977</b>	<b>\$ 2,659,102</b>		
74										
75	<b>Total Expenses (including debt)</b>	<b>\$ 5,180,573</b>	<b>\$ 5,732,097</b>	<b>\$ 6,049,843</b>	<b>\$ 7,202,869</b>	<b>\$ 8,334,488</b>	<b>\$ 8,630,383</b>	<b>\$ 8,948,373</b>		
76										
77	<b>Net Surplus/Contribution to Capital</b>	<b>\$ 3,877,427</b>	<b>\$ 3,544,903</b>	<b>\$ 3,762,375</b>	<b>\$ 2,853,151</b>	<b>\$ 1,971,453</b>	<b>\$ 1,931,752</b>	<b>\$ 1,876,388</b>		
78										
79	<b>Analysis of Capital Reserve:</b>									
80	Beginning Capital Reserve (July 1, 2019)	\$ 6,841,578	\$ 8,305,006	\$ 11,349,909	\$ 14,612,283	\$ 6,132,435	\$ 8,103,887	\$ 10,035,639		
81	Additions to Reserve	\$ 3,877,427	\$ 3,544,903	\$ 3,762,375	\$ 2,853,151	\$ 1,971,453	\$ 1,931,752	\$ 1,876,388		
82										
83	<b>Use of Unrestricted Reserve:</b>									
84	<b>Capital Projects Funded with Cash/Reserves:</b>									
85	Administration and Shop Bldgs.	\$ (2,414,000)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
86	Upgrade of Water Plant (Use \$9 M of Reserve)	\$ -	\$ -	\$ -	\$ (9,000,000)	\$ -	\$ -	\$ -		
87	Upgrades - Blacksburg Pump Station (Rt. 460 Pump Station)	\$ -	\$ -	\$ (500,000)	\$ -	\$ -	\$ -	\$ -		
88	WTP - Flocculation	\$ -	\$ -	\$ -	\$ (2,333,000)	\$ -	\$ -	\$ -		
89	Route 114 PS Upgrades	\$ -	\$ (500,000)	\$ -	\$ -	\$ -	\$ -	\$ -		
90	Route 114 Transmission Upgrade	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		Project is likely to be scheduled after FY25
91	Bburg S. Main St. Transmission Main Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		Project needs to be re-evaluated to determine cost and schedule.
92	Prices Fork II	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		Project needs to be re-evaluated to determine cost and schedule.
93	<b>Ending Reserve</b>	<b>\$ 8,305,006</b>	<b>\$ 11,349,909</b>	<b>\$ 14,612,283</b>	<b>\$ 6,132,435</b>	<b>\$ 8,103,887</b>	<b>\$ 10,035,639</b>	<b>\$ 11,912,028</b>		
94										
95	<b>Debt Coverage:</b>									
96	Total Revenue Available for Debt Service (Revenue - Operating Expenses)	\$ 4,431,600	\$ 4,439,000	\$ 4,655,781	\$ 4,632,955	\$ 4,632,082	\$ 4,589,729	\$ 4,535,490		
97	Debt Coverage	8.00	4.96	5.21	2.60	1.74	1.73	1.71		
98	Does Coverage = 150% or more?	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
99										
100	<b>Days Cash on Hand:</b>									
101	Total Operating Expenses / 365 Days	\$ 12,675	\$ 13,255	\$ 14,127	\$ 14,858	\$ 15,545	\$ 16,363	\$ 17,231		
102	DCOH (Ending Reserve)/(Total Operating Exp./365)	655	856	1,034	413	521	613	691		
103	Does DCOH Exceed 180 days?	Yes	Yes	Yes	Yes	Yes	Yes	Yes		

APPENDIX B:  
2019 ANNUAL  
WATER and  
WASTEWATER  
RATE REPORT

# The 32<sup>nd</sup> Annual Virginia Water and Wastewater Rate Report 2020



Draper Aden Associates

*Engineering • Surveying • Environmental Services*

*Lasting Positive Impact®*



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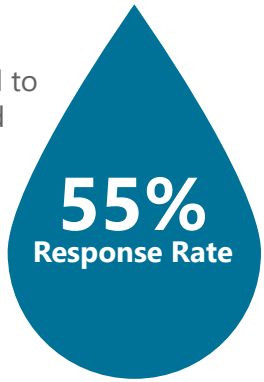
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Water and Wastewater Rates .....4  
Connection Fees and Capital Recovery Charges .....6  
Water Data.....7  
Wastewater Data ..... 11



*Draper Aden Associates has provided water and wastewater rate analysis to local government clients across Virginia for several decades. For questions about this report or rate consultation services, please contact Sheryl Stephens at 804.261.2915 or [sstephens@daa.com](mailto:sstephens@daa.com).*

# About Our Survey

For 32 years, Draper Aden Associates has provided the Annual Virginia Water and Wastewater Rate Report as a service to our clients and to water and sewer providers across the Commonwealth. Earlier this year, Draper Aden Associates conducted a survey to request water and wastewater rate information from 259 water and sewer providers; data from fifty-five percent (55%), or 143 utilities is included in this report. The information summarized herein includes:



- approximate number of residential and non-residential connections
- billing frequency (monthly, bi-monthly, or quarterly)
- the charge for residential customers using 3,000, 4,000, and 5,000 gallons of water per month
- the charge for non-residential customers using 1,000,000 gallons per month
- the current residential connection fee and capital recovery charge
- the year that rates and fees were last changed.

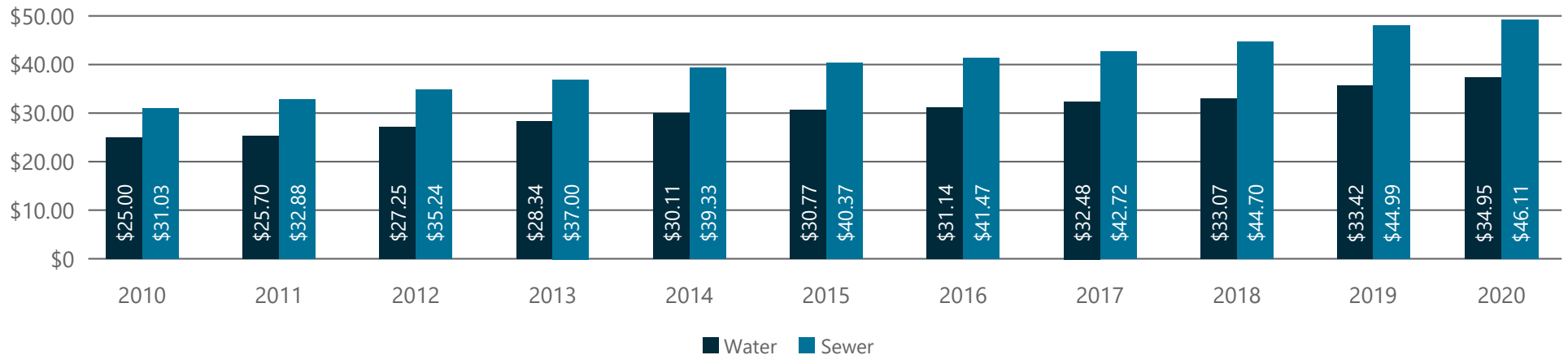
We are pleased to share these results and express our gratitude to all who participated in this effort.

## Control Group Data

For over 20 years, Draper Aden’s survey has tracked a select group comprised of 20 water and wastewater providers who represent a cross section of utilities across the Commonwealth. We have consistently tracked the monthly residential charges of these 20 utilities to provide an indication of trends in water and wastewater rates in Virginia – and to provide an indication of average increases over time.

The average water rate increased by 4.6% in 2020 and the average sewer rate increased by 2.5%. Since 2010, water rates have increased by approximately 3.4% per year and wastewater rates have increased by approximately 4.0% per year.

Average Monthly Water and Sewer Bills (based on 5,000 gallons of usage)





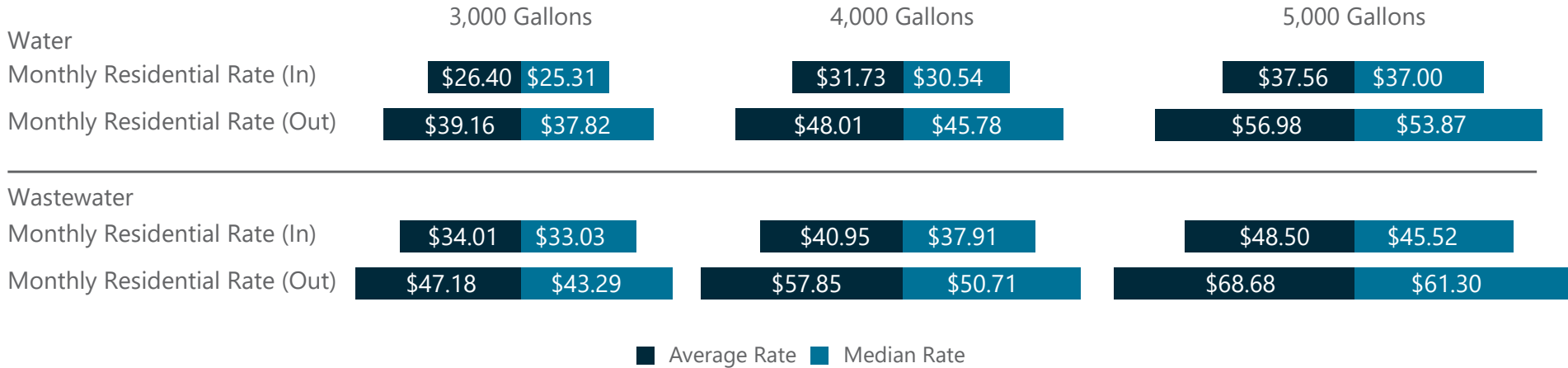
# Water and Wastewater Rates

Utilities were asked to calculate the charges for residential customers using 3,000, 4,000 and 5,000 gallons of water per month. Utilities that bill on a bi-monthly or quarterly basis provided rates based on equivalent usage and the rates were normalized to monthly rates. Respondents were asked to use the rates in effect on July 1, 2020.



Residential Connections	# of Replies	Smallest System # of Connections	Largest System # of Connections	Average # of Connections	Median # of Connections
Water	138	7	362,062	11,214	2,427
Wastewater	123	38	128,208	8,227	1,984

## Monthly Residential Rates

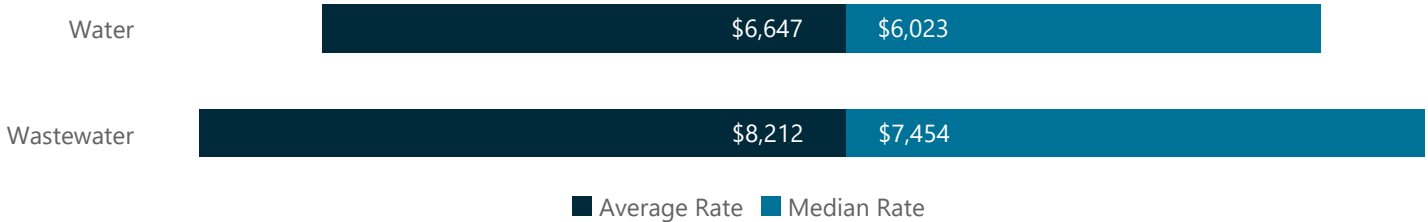


Utilities were also asked to provide the rate for a non-residential customer that uses 1,000,000 gallons per month. If the size of the meter influences the charges, the utility was to assume a 4-inch meter.



Non-residential Connections	# of Replies	Smallest System # of Connections	Largest System # of Connections	Average # of Connections	Median # of Connections
Water	128	2	12,703	736	204
Wastewater	121	1	7,131	644	194

Monthly Non-residential Rates (per 1 million gallons)



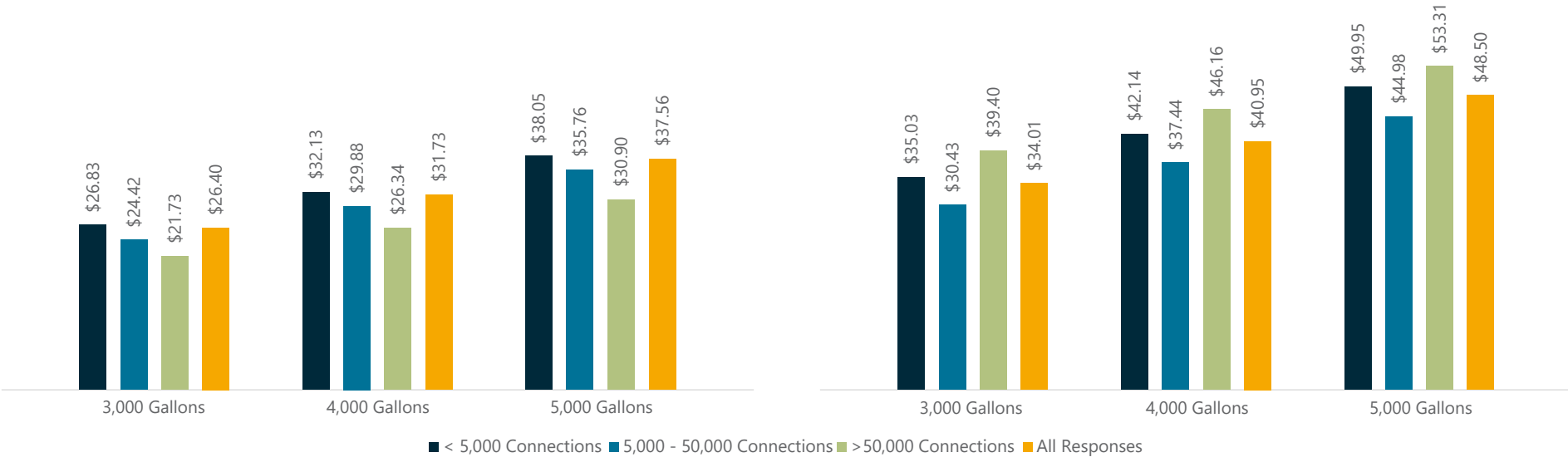
Water Rate Summary by System Size

Average Residential Water Rates by System Size (Monthly)



Wastewater Rate Summary by System Size

Average Residential Wastewater Rates by System Size (Monthly)



# Connection Fees and Capital Recovery Charges

Residential connection fees and capital recovery charges are shown below. Connection fees are charges for tapping into the water main and running a line to the water meter or for tapping into the sewer line and running a lateral to the property line. Capital recovery charges are capital charges for buying into the existing system or charges that recognize the Cost of adding capacity to the system. Providers were asked to furnish the charges for a residential connection using a 5/8- or 3/4-inch meter.

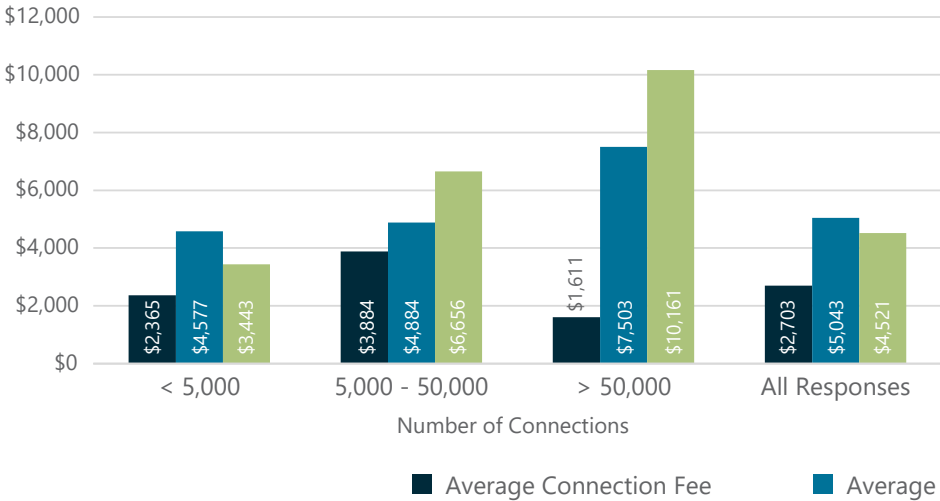
	Connection Fees		Capital Recovery Charges		Combined Charges	
	Water	Wastewater	Water	Wastewater	Water	Wastewater
Average	\$2,703	\$3,339	\$5,043	\$5,034	\$4,521	\$4,799
Median	\$1,500	\$2,000	\$3,500	\$4,375	\$3,500	\$4,050
High	\$18,100	\$14,000	\$25,754	\$21,600	\$32,910	\$21,600
Low	\$80	\$25	\$500	\$427	\$88	\$25

\*Fees and charges in this table are for residential connections using a 5/8- or 3/4-inch meter



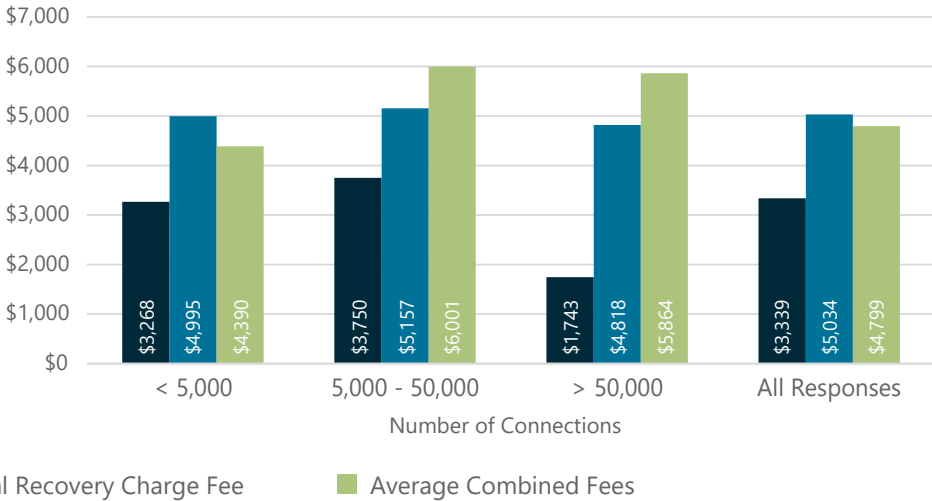
## Water Connection and Capital Recovery Charges by System Size

Connection Fees and Capital Recovery Charges Water Systems



## Wastewater Connection and Capital Recovery Charges by System Size

Connection Fees and Capital Recovery Charges Wastewater Systems





# Water Data

	# Residential Water Units	# Non-Residential Water Units	Residential Water Rate Inside (3,000 gal./mo.) <sup>1</sup>	Residential Water Rate Outside (3,000 gal./mo.) <sup>1</sup>	Residential Water Rate Inside (4,000 gal./mo.)	Residential Water Rate Outside (4,000 gal./mo.)	Residential Water Rate Inside (5,000 gal./mo.)	Residential Water Rate Outside (5,000 gal./mo.)	Billing Frequency	Water Rate - Business Inside (1 million gal./mo.)	Last Water Rate Change	Water Source <sup>2</sup>	Residential Connection Fee <sup>3</sup>	Last Water Connection Fee Change	Residential Capital Recovery Charge <sup>3</sup>	Last Water CRC Rate Change
Albemarle County Service Authority	31,804	1,492	\$22.01		\$30.99		\$39.97		M	\$8,795	2019	S	\$1,026	2013	\$6,650	2017
Alleghany County	2,555	187	\$46.00		\$46.00		\$46.00		M	\$9,499	2020	S	\$1,000	2000		
Altavista, Town of	1,615	64	\$14.75	\$22.97	\$17.50	\$28.46	\$20.25	\$33.95	Q	\$2,853	2020	C	\$1,500	2018		
Amelia County	294	147	\$22.50		\$27.00		\$31.50		M	\$4,725		G	COST+100%	2007	\$3,000	2013
Amherst County Service Authority	6,418	535	\$33.45		\$40.62		\$47.74		B	\$7,176	2020	S	\$1,500	2020	\$3,000	2020
Amherst, Town of	1,131	164	\$38.85	\$77.70	\$46.60	\$93.20	\$54.35	\$108.70	M	\$12,250	2019	S			\$1,700	
Appalachia, Town of	1,126	35	\$26.75	\$38.60	\$32.50	\$47.60	\$38.25	\$56.60	M	\$6,043	2019	S	\$1,250	2019		
Appomattox, Town of	944	231	\$17.50		\$23.70		\$29.90		M	\$6,199	2020	S	\$1,500		\$2,500	
Arlington County	34,807	1,951	\$14.73		\$19.64		\$24.55		Q	\$4,910	2020	S	\$3,200	2008	\$85/DFU	2013
Augusta County Service Authority	14,270	1,101	\$25.23		\$31.10		\$36.97		B	\$6,099	2020	C	\$1,350	2019	\$2,645	
Bedford Regional Water Authority	13,293	986	\$35.60	\$39.80	\$39.80	\$45.40	\$44.00	\$51.00	M	\$4,788	2019	C	\$1,500	2018	\$4,000	2018
Berryville, Town of	1,519	207	31.95		\$40.10		\$48.25		M		2020	S				
Big Stone Gap, Town of	3,570	303	\$31.26	\$48.00	\$37.41	\$57.85	\$43.56	\$67.70	M		2018	S	\$550			
Blacksburg, Town of	9,466	315	\$24.99	\$43.75	\$32.29	\$56.53	\$39.59	\$69.31	M	\$7,303	2020	S	\$665	2020	\$1,565	2020
Blackstone, Town of			\$24.90	\$37.35	\$33.20	\$49.80	\$41.50	\$62.25	M	\$8,300	2019	S				
Bluefield, Town of	2,200	100	\$32.60	\$48.90	\$40.50	\$60.75	\$48.40	\$72.60	M	\$6,076	2018	S	\$450	2018		
Boones Mill, Town of			\$58.00	\$78.00	\$64.00	\$84.00	\$70.00	\$90.00	M	\$6,020	2018	G	\$3,000			
Bowling Green, Town of	797	96	\$21.08	\$42.16	\$23.12	\$46.24	\$25.16	\$50.32	B	\$2,758	2020	G	\$750	2005	\$6,000	2005
Boydton, Town of			\$21.90	\$31.90	\$26.90	\$41.90	\$31.90	\$51.90	M			S				
Bridgewater, Town of	2,136	184	\$16.56	\$26.88	\$20.43	\$30.75	\$24.30	\$34.62	M	\$4,615	2020	C	\$2,846	2020		
Bristol Virginia Utilities Authority	6,931	955	\$24.09	\$36.14	\$27.75	\$41.63	\$31.41	\$47.12	M	\$3,278	2019	S	\$990	2019		
Broadway, Town of	1,546	155	\$18.31		\$23.40		\$28.49		B		2018	S	\$2,500	2018		
Brodnax, Town of	148	10	\$27.19	\$34.84	\$34.65	\$44.84	\$42.11	\$54.84	M			S				
Brookneal, Town of			\$29.30		\$36.10		\$42.90		M			S				
Buchanan, Town of	480	68	\$48.25	\$72.38	\$48.25	\$72.38	\$51.45	\$77.18	M	\$1,999	2019	G	\$2,200	2010		
Buckingham County	321	95	\$26.12		\$26.12		\$39.72		M	\$13,572	2020	S	\$2,000	1994		
Buena Vista, City of	2,620	199	\$25.74		\$34.32		\$42.90		M	\$8,580	2020	G	\$2,500	2019		
Campbell County Utility & Service Auth.	10,467	561	\$26.81		\$33.07		\$39.34		B	\$6,344	2012	C	\$1,500	2010	\$1,900	2010
Cape Charles, Town of	1,160	110	\$35.57		\$38.20		\$40.83		M		2019	G	\$875	2012	\$4,000	2012
Caroline County	1,652	138	\$23.16		\$24.68		\$26.51		M	\$2,043	2018	G	MIN-\$1,000	2018	\$5,000	2018

<sup>1</sup>"**Inside**" refers to inside of municipal boundary. "**Outside**" rates are listed where the utility has implemented higher rates to users outside of the municipal boundary.

<sup>2</sup>**Water Source:** **S** = surface water, **G** = groundwater, and **C** = combination.

<sup>3</sup>**Connection and Capital Recovery Charge (CRC) Fees:** "**Cost**" = customer pays the Cost of making the connection; "**Cost +**" = the customer pays the Cost to make the connection, plus additional charges, "**Fixture**" or **DFU** means the customer is charged that fee per the number of drainage fixture units in the structure. **Min** = Minimum charge is dollar amount cited.



# Water Data

	# Residential Water Units	# Non-Residential Water Units	Residential Water Rate Inside (3,000 gal./mo.) <sup>1</sup>	Residential Water Rate Outside (3,000 gal./mo.) <sup>1</sup>	Residential Water Rate Inside (4,000 gal./mo.)	Residential Water Rate Outside (4,000 gal./mo.)	Residential Water Rate Inside (5,000 gal./mo.)	Residential Water Rate Outside (5,000 gal./mo.)	Billing Frequency	Water Rate - Business Inside (1 million gal./mo.)	Last Water Rate Change	Water Source <sup>2</sup>	Residential Connection Fee <sup>3</sup>	Last Water Connection Fee Change	Residential Capital Recovery Charge <sup>3</sup>	Last Water CRC Rate Change
Carroll County PSA	3,689	165	\$37.80		\$47.25		\$56.70		M	\$4,773	2019	C	\$1,250	2019		
Charlotte Court House, Town of	257	58	\$37.00		\$41.00		\$45.00		M		2015	S	\$1,450			
Chatham, Town of	717	216	\$15.42	\$25.65	\$20.56	\$34.20	\$25.70	\$42.75	Q	\$5,140	2018	S	\$1,000	2018		
Chesterfield County	131,068	5,591	\$18.80		\$21.68		\$24.55		B	\$3,068	2019	S	\$1,980	2018	\$5,725	2018
Chilhowie, Town of	2,100	144	\$25.34	\$48.95	\$30.39	\$58.76	\$35.45	\$68.57	M	\$5,670	2021	G	\$900	2016		
Chincoteague, Town of	2,500	1,095	\$14.03		\$18.39		\$22.75		Q	\$5,521	2012	G	\$670	2012	\$3,708	2012
Christiansburg, Town of	9,894	787	\$28.00	\$42.00	\$38.00	\$57.00	\$48.00	\$72.00	M	\$7,623	2019	S	\$3,000	2015		
Clarke County Sanitary Authority	451	31	\$38.70		\$51.60		\$64.50		B	\$12,900	2019	G			\$13,800	2006
Clarksville, Town of			\$30.00	\$59.75	\$33.50	\$66.73	\$37.00	\$73.70	B	\$7,039		S				
Coeburn, Town of	1,550	165	\$25.74	\$37.02	\$31.68	\$45.90	\$37.62	\$54.78	M		2015	S	COST+\$50			
Craig-New Castle Public Service Authority	425	70	\$24.68		\$30.43		\$36.18		M	\$10,013	2020	G	\$2,000	2005		
Craigsville, Town of			\$37.00		\$37.00		\$37.00		M	\$9,490		G	\$2,000			
Culpeper, Town of	6,841	747	\$19.17		\$25.56		\$31.95		M	\$3,973	2019	G	COST	2019	\$6,500	2006
Danville, City of	17,500	2,500	\$19.25		\$22.63		\$26.27		M	\$3,688	2019	S	\$1,500	2019		
Dinwiddie County Water Authority	3,545	185	\$15.70		\$20.01		\$24.32		M	\$3,902	2017	C	\$1,618	2015		
Dublin, Town of	2,494	204	\$30.87	\$44.14	\$37.25	\$51.95	\$43.63	\$59.76	M	\$5,904	2020	S	\$1,500	2020		2020
Dungannon, Town of	221	5	\$29.25	\$35.25	\$39.00	\$47.00	\$48.75	\$58.75	M		2012	G	\$88			
Edinburg, Town of	561	50	\$28.50	\$42.75	\$56.50	\$84.75	\$63.50	\$95.25	M	\$6,023	2019	G	\$5,000			
Elkton, Town of	1,253	29	\$15.47		\$19.28		\$23.09		M		2020	G	\$7,000			
Fairfax Water	362,062	12,703	\$14.40		\$17.60		\$20.80		Q	\$3,248	2020	S	\$1,370	2020	\$22,350	2020
Farmville, Town of	3,198	646	\$16.81	\$25.22	\$20.49	\$30.74	\$24.17	\$36.26	M	\$5,240	2018	S	\$1,000	2020		
Fauquier County Water and Sanitation Authority	7,251	203	\$44.72		\$51.72		\$57.62		M	\$10,897	2019	G	\$11,120	2016		
Ferrum Water & Sewer Authority	194	30	\$24.00		\$29.50		\$35.00		M	\$5,570	2017	G	COST+\$500	2017	\$1,500	2017
Fincastle, Town of	180	35	\$28.18		\$32.28		\$36.38		M		2020	G	\$2,000	2012	\$2,500	2012
Franklin, City of	3,260	252	\$23.82	\$29.86	\$27.02	\$33.82	\$30.22	\$37.78	M	\$3,214	2016	G	\$3,500			
Frederick Water	15,911	682	\$21.69		\$26.01		\$30.33		B	\$7,796	2019	C	\$14,115	2019		
Galax, City of	3,200	500	\$16.00	\$32.00	\$20.50	\$41.00	\$25.00	\$50.00	B	\$4,503	2020	S				
Gate City, Town of	1,087	140	\$36.05	\$44.96	\$43.95	\$52.05	\$51.85	\$59.95	M	\$7,912	2014	S	\$650	2014		
Glasgow, Town of	516	12	\$31.50	\$47.25	\$36.40	\$56.15	\$41.30	\$65.05	M	\$608	2019	G	\$2,625	2019		
Gloucester, County of	6,552	894	\$30.18		\$40.18		\$50.18		M	\$10,397	2013	C	\$3,500	2008	\$500	2008
Goochland, County of	1,521	305	\$25.52		\$32.05		\$38.58		B	\$9,388	2019	S	\$4,400	2019		
Greensville County WSA	1,725	103	\$18.31		\$24.41		\$30.51		M	\$6,430	2020	C	\$960			
Halifax County Service Authority	3,890	420	\$24.00		\$29.00		\$34.00		B	\$4,049	2018	S			\$1,250	2008
Hamilton, Town of	701	29	\$17.13	\$23.13	\$22.84	\$30.84	\$35.59	\$48.05	B		2019	G	\$18,100	2010		



# Water Data

	# Residential Water Units	# Non-Residential Water Units	Residential Water Rate Inside (3,000 gal./mo.) <sup>1</sup>	Residential Water Rate Outside (3,000 gal./mo.) <sup>1</sup>	Residential Water Rate Inside (4,000 gal./mo.)	Residential Water Rate Outside (4,000 gal./mo.)	Residential Water Rate Inside (5,000 gal./mo.)	Residential Water Rate Outside (5,000 gal./mo.)	Billing Frequency	Water Rate - Business Inside (1 million gal./mo.)	Last Water Rate Change	Water Source <sup>2</sup>	Residential Connection Fee <sup>3</sup>	Last Water Connection Fee Change	Residential Capital Recovery Charge <sup>3</sup>	Last Water CRC Rate Change
Hanover County	20,195	1,800	\$13.83		\$18.97		\$24.11		B	\$4,128	2019	C			\$6,281	2019
Harrisonburg, City of	18,613	3,074	\$12.77	\$18.98	\$16.36	\$24.64	\$19.95	\$30.30	M	\$3,385	2019	S	\$2,500	2010		
Henrico, County of	94,256	6,003	\$22.19		\$25.78		\$31.16		B	\$4,949	2019	S	\$2,625	2018	\$4,635	2018
Henry Co. Public Service Authority	12,288	926	\$30.00		\$30.00		\$34.70		M	\$7,017	2013	C	\$1,750	2013		
Highland County - McDowell Water System	56	21	\$35.00		\$35.00		\$42.50		B	\$7,470	2006	G	COST+\$200			
Isle of Wight County	4,106	156	\$50.17		\$61.37		\$72.57		B	\$1,108	2020	C	\$4,000			
James City Service Authority	21,986	1,130	\$16.09		\$19.71		\$26.29		M	\$5,877	2020	G	\$3,219	2020	\$1,436	2020
Kenbridge, Town of	473	97	\$15.15	\$28.11	\$20.15	\$36.15	\$26.15	\$44.19	M		2012	G				
Kilmarnock, Town of	780	252	\$14.50	\$27.50	\$17.47	\$33.10	\$20.44	\$38.70	B	\$5,963	2019	G	\$2,055	2006		
King George County Service Authority	4,245	183	\$35.73		\$40.56		\$45.73		B	\$5,209	2020	G	\$8,662	2013		
King William County	488	41	\$30.00		\$36.00		\$42.00		B	\$6,012	2014		\$4,000	2015		
Leesburg, Town of	17,026	1,148	\$28.66	\$35.55	\$33.59	\$44.64	\$41.54	\$53.73	Q	\$7,164	2020	S	\$80		\$4,683	
Lexington, City of	2,500	600	\$22.50	\$30.36	\$30.00	\$40.48	\$37.50	\$50.60	M	\$15,965	2020	S	MIN-\$1,863	2020	\$691	2020
Loudoun Water	77,662	4,725	\$33.53		\$43.39		\$51.25		Q	\$10,566	2020	C	\$80		\$7,039	2020
Louisa Co. Water Authority Northeast Creek	97	72	\$23.56		\$23.56		\$29.45		M	\$5,890	2019	C	\$3,750	2004		
Louisa Co. Water Authority Zion Crossroads	664	61	\$23.56		\$23.56		\$29.45		M	\$5,890	2019	G	\$3,750	2004		
Louisa, Town of	845	154	\$37.32	\$41.92	\$37.32	\$41.92	\$43.98	\$49.97	M	\$6,697	2019	C	\$4,780			
Luray, Town of	2,193	126	\$38.19	\$57.28	\$43.76	\$65.64	\$49.33	\$73.99	M	\$6,028	2020	G	\$3,320	2010	\$1,200	2010
Lynchburg, City of	23,000	2,000	\$13.92		\$17.50		\$21.09		M	\$3,633	2017	S	\$1,150	2017	\$1,220	2000
Manassas, City of	14,069	1,386	\$17.80		\$20.71		\$23.62		M	\$3,365	2020	S				
Marion, Town of	3,505	455	\$22.08	\$44.10	\$30.65	\$61.20	\$39.22	\$78.30	M	\$8,566	2019	S	\$900	2016		
Martinsville, City of	7,000	500	\$25.31	\$31.50	\$25.31	\$31.50	\$28.50	\$35.68	M	\$2,675	2016	S	\$900	2014		
Mineral, Town of	257	51	\$26.50	\$30.00	\$34.50	\$39.00	\$42.50	\$48.00	M	\$8,003	2013	C	\$4,000	2007		
Montross, Town of	228	78	\$21.00	\$31.50	\$21.00	\$31.50	\$21.00	\$31.50	M		2020	G	\$500			
Mount Jackson, Town of	710	102	\$21.60	\$32.40	\$28.80	\$43.20	\$36.00	\$54.00	M	\$7,200	2019	G	\$5,000	2019		
Nelson County	88	14	\$29.90		\$29.90		\$36.00		M		2013	S	\$2,000	2013		
Nelson County Service Authority	2,735	200	\$46.00		\$46.00		\$56.50		M		2019	C	\$4,000			
New Kent County	3,140	215	\$24.05		\$31.27		\$38.49		B	\$8,469	2020	G	\$4,650	2012	\$2,500	2012
Norton, City of	1,823	347	\$29.25	\$44.45	\$35.40	\$56.75	\$44.05	\$71.55	M	\$6,168	2019	S	\$240			
Onancock, Town of	657		\$29.21		\$38.80		\$48.39		B		2020	G	\$1,500			
Pembroke, Town of	747		\$34.22	\$46.82	\$36.75	\$50.67	\$41.81	\$58.36	M		2018	G	\$1,500	2010		
Powhatan County	7	114	\$31.01		\$37.74		\$44.47		B	\$7,000	2019	C	\$4,100			
Purcellville, Town of	2,657	332	\$28.59	\$49.71	\$37.47	\$67.49	\$46.37	\$85.27	B	\$49,377	2019	S	\$395	2019	\$25,754	2019
Radford, City of	5,385	2	\$16.32		\$20.40		\$24.48		M		2014	S	\$1,500	2014		



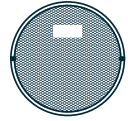
# Water Data

	# Residential Water Units	# Non-Residential Water Units	Residential Water Rate Inside (3,000 gal./mo.) <sup>1</sup>	Residential Water Rate Outside (3,000 gal./mo.) <sup>1</sup>	Residential Water Rate Inside (4,000 gal./mo.)	Residential Water Rate Outside (4,000 gal./mo.)	Residential Water Rate Inside (5,000 gal./mo.)	Residential Water Rate Outside (5,000 gal./mo.)	Billing Frequency	Water Rate - Business Inside (1 million gal./mo.)	Last Water Rate Change	Water Source <sup>2</sup>	Residential Connection Fee <sup>3</sup>	Last Water Connection Fee Change	Residential Capital Recovery Charge <sup>3</sup>	Last Water CRC Rate Change
Rapidan Service Authority	7,854	499	\$19.71		\$25.28		\$30.85		M	\$5,584	2020	S	\$10,000			
Richlands, Town of	2,256	269	\$20.50	\$26.50	\$25.00	\$32.50	\$29.50	\$38.50	M	\$6,009	2018	S	\$400	1986		
Rockbridge County PSA (Long Hollow)			\$40.89		\$50.74		\$60.59		B		2019	G	\$1,025	2007	\$4,000	2007
Rockbridge County PSA (Rivermont and Riveria)	2,592	380	\$35.79		\$43.94		\$52.09		B	\$8,287	2019	G	\$1,025	2007	\$4,000	2007
Rockingham County	4,064	322	\$12.50		\$16.30		\$20.10		M	\$3,799	2017	G	\$3,275	2017		
Rocky Mount, Town of	2,458	472	\$17.85	\$35.70	\$21.37	\$42.74	\$24.89	\$49.78	M	\$3,381	2019	S	\$1,000	2016		
Rural Retreat, Town of			\$23.60	\$41.10	\$28.90	\$50.20	\$34.20	\$59.30	M	\$7,045	2017	G	\$1,000	2017		
Saint Paul, Town of	556	78	\$24.23	\$41.68	\$30.88	\$52.13	\$37.53	\$62.58	M	\$6,654	2018	S	\$750			
Salem, City of	8,093	1,497	\$30.28		\$35.96		\$41.64		M	\$6,707	2020	S	\$1,500	2016	\$2,000	2016
Scott County Public Service Authority	5,214	109	\$39.30		\$49.42		\$59.54		M	\$10,193	2020	C	\$1,500	2015		
Shenandoah, Town of	971	76	\$25.65	\$38.50	\$30.15	\$46.00	\$34.65	\$53.50	M	\$4,513	2020	G	\$6,000	2020		
Smithfield, Town of	3,260	477	\$24.70	\$29.47	\$31.02	\$37.38	\$37.34	\$45.29	B	\$6,326	2019	G	\$660	1999	\$2,720	2007
South Hill, Town of	2,209	493	\$21.49	\$42.98	\$28.32	\$56.64	\$34.65	\$69.30	M	\$4,590	2020	S	\$1,000	1991		
Southampton County	798	25	\$28.00		\$28.00		\$34.00		M		2017	G	\$1,000	2009	\$4,000	2009
Spotsylvania County	30,312	2,016	\$19.03		\$25.74		\$32.45		M	\$10,868	2019	S	\$1,290	2008	\$4,920	2008
Stafford County	38,643	1,621	\$22.03		\$25.77		\$30.90		M	\$5,128	2019	S	\$1,450	2005	\$6,900	2010
Stanley, Town of	1,539	91	\$22.00	\$29.00	\$23.50	\$32.50	\$25.00	\$36.00	M		2020	G	\$3,825	2017		
Staunton, City of	8,592	1,241	\$14.99	\$23.16	\$18.85	\$28.95	\$24.64	\$37.64	B	\$4,931	2019	S	\$2,100	2016	\$3,500	2016
Stoney Creek Sanitary District	1,400	45	\$39.00		\$44.00		\$49.00		B	\$6,540	2013	G	\$4,000	2010		
Stuart, Town of	627	150	\$25.33	\$35.98	\$29.55	\$41.83	\$33.77	\$47.68	M		2020	S	\$600			
Tazewell, Town of	1,745	228	\$39.25	\$58.81	\$49.75	\$74.97	\$60.25	\$91.13	M		2020	S	\$540			
Toms Brook-Maurertown Sanitary District	650	30	\$30.50		\$36.00		\$41.50		M	\$5,514	2013	G	\$4,000	2010		
Troutdale, Town of	80	4	\$22.50		\$30.00		\$37.50		M		2017		\$900	2017		
Urbanna, Town of	550	67	\$19.85	\$38.28	\$23.54	\$45.66	\$27.23	\$53.03	B	\$3,699	2020	G	MIN-\$4,000	2020		
Victoria, Town of	850	15	\$30.50		\$35.57		\$40.84		M	\$6,080	2017	S	\$275			
Vienna, Town of	9,814	346	\$26.95		\$34.40		\$40.50		Q	\$7,411	2020	S	\$16,720	2020	\$16,190	2020
Virginia Beach Public Utilities	128,153	8,012	\$19.11		\$24.01		\$28.91		M	\$4,959	2019	S	MIN-\$3,363	2014	\$2,267	2014
Warrenton, Town of	4,265	628	\$11.28	\$16.93	\$17.17	\$25.77	\$23.06	\$34.61	M	\$6,048	2020	C	COST+\$5,000	2020	\$4,950	2020
Waynesboro, City of	8,192	899	\$24.40	\$26.84	\$29.61	\$32.57	\$34.82	\$38.30	B	\$5,367	2019	G	MIN-\$800	1999	\$2,725	1999
West Point, Town of	1,134	187	\$22.45		\$22.45		\$22.45		B	\$5,694	2018	G	\$500	2007	\$3,500	2007
Western Virginia Water Authority - Botetourt Co.	1,559	232	\$26.50		\$31.25		\$36.00		M	\$6,430	2020	G	\$2,000		\$3,000	
Western Virginia Water Authority - Franklin Co.	2,661	159	\$30.00		\$30.00		\$30.00		M	\$5,400	2020	C	\$2,000		\$3,000	
Western Virginia Water Authority - Roanoke City/County	52,731	4,382	\$22.35		\$25.55		\$28.75		M	\$4,458	2020	C	\$2,000		\$3,000	
Westmoreland County	56	9	\$22.50		\$22.50		\$22.50		B		2018	G				



## Water Data

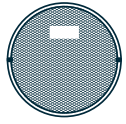
	# Residential Water Units	# Non-Residential Water Units	Residential Water Rate Inside (3,000 gal./mo.) <sup>1</sup>	Residential Water Rate Outside (3,000 gal./mo.) <sup>1</sup>	Residential Water Rate Inside (4,000 gal./mo.)	Residential Water Rate Outside (4,000 gal./mo.)	Residential Water Rate Inside (5,000 gal./mo.)	Residential Water Rate Outside (5,000 gal./mo.)	Billing Frequency	Water Rate - Business Inside (1 million gal./mo.)	Last Water Rate Change	Water Source <sup>2</sup>	Residential Connection Fee <sup>3</sup>	Last Water Connection Fee Change	Residential Capital Recovery Charge <sup>3</sup>	Last Water CRC Rate Change
Winchester, City of	9,410	1,827	\$37.44	\$56.56	\$44.82	\$67.63	\$52.20	\$78.70	B	\$8,373	2020	S	\$5,300	2017		
Windsor, Town of	1,148	54	\$26.25	\$28.00	\$30.00	\$32.00	\$37.50	\$40.00	B	\$7,500	2018	G	\$1,000	2008	\$5,000	2008
Wise, Town of	2,395	258	\$29.33	\$42.65	\$35.85	\$52.13	\$42.37	\$61.10	M	\$6,530	2019	S	\$500	2000		
Wythe County	2,969	196	\$41.59		\$51.99		\$62.39		M	\$10,410	2020	S	\$1,000			
Wytheville, Town of	4,080	688	\$24.11	\$48.22	\$32.46	\$64.92	\$40.81	\$81.62	M	\$4,003	2019	S	\$1,500+METER	2005		



## Wastewater Data<sup>4</sup>

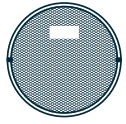
	# Residential Wastewater Units	# Non-Residential Wastewater Units	Residential WW Rate Inside (3,000 gal./mo.)	Residential WW Rate Outside (3,000 gal./mo.)	Residential WW Rate Inside (4,000 gal./mo.)	Residential WW Rate Outside (4,000 gal./mo.)	Residential WW Rate Inside (5,000 gal./mo.)	Residential WW Rate Outside (5,000 gal./mo.)	Billing Frequency	WW Rate Business Inside (1 million gal./mo.)	Last WW Rate Change	Residential Connection Fee Wastewater	Last WW Connection Fee Change	Residential Capital Recovery Charge	Last WW CRC Rate Change
Abingdon, Town of	4,076	1,017	\$28.48	\$51.32	\$32.74	\$58.49	\$37.00	\$65.66	M	\$5,701	2018	\$1,500	2018		
Albemarle County Service Authority	28,691	1,162	\$28.41		\$37.88		\$47.35		M	\$9,470	2019	COST	2017	\$6,820	2017
Alexandria Renew / City of Alexandria	23,318	3,513	\$42.77		\$53.18		\$63.59		M	\$8,996	2020	\$9,204	2020		
Alleghany County	1,904	134	\$46.00		\$46.00		\$46.00		M	\$10,742	2020	\$1,000	2000		
Altavista, Town of	1,236	45	\$8.80	\$17.60	\$11.73	\$23.46	\$14.66	\$29.33	Q	\$3,009	2020	\$2,000	2018		
Amelia County	239	119	\$27.50		\$33.00		\$38.50		M	\$5,751	2020	COST+100%	2007	\$4,000	2013
Amherst County Service Authority	954	251	\$34.34		\$44.98		\$55.54		B	\$10,617	2020	\$1,500	2020	\$4,500	2020
Amherst, Town of	680	142	\$47.90	\$95.80	\$54.75	\$109.50	\$61.60	\$123.20	M	\$15,265	2019	\$2,200			
Appalachia, Town of			\$41.11	\$57.11	\$48.88	\$69.26	\$56.64	\$81.41	M	\$8,163	2019	\$1,250	2019		
Appomattox, Town of	754	188	\$47.27		\$67.04		\$84.81		M	\$17,766	2020	\$2,200	2013	\$3,000	2019
Arlington County	34,546	1,644	\$27.87		\$37.16		\$46.45		Q	\$9,290	2020			\$115/DFU	2013
Augusta County Service Authority	8,594	761	\$41.43		\$51.35		\$61.27		B	\$10,214	2020	\$1,250		\$4,900	
Bedford Regional Water Authority	4,800	679	\$43.00	\$45.50	\$49.50	\$53.00	\$56.00	\$60.50	M	\$6,448	2019	\$1,500		\$5,000	2018
Berryville, Town of	1,466	207	\$69.31		\$86.58		\$103.85		M		2020				
Big Stone Gap, Town of	2,327	258	\$32.09	\$51.04	\$37.95	\$60.39	\$43.81	\$69.74	M		2018	\$400			
Blacksburg, Town of	9,040	126	\$21.02	\$36.80	\$27.04	\$47.34	\$33.06	\$57.88	M	\$6,023	2019	\$1,013	2019	\$2,500	2019
Blackstone, Town of			\$24.97	\$37.46	\$31.06	\$46.59	\$37.15	\$55.73	M	\$6,097	2019				
Boones Mill, Town of			\$58.00	\$78.00	\$64.00	\$84.00	\$70.00	\$90.00	M	\$6,020	2018	\$4,000			
Bowling Green, Town of	604	96	\$45.46	\$51.38	\$49.85	\$56.34	\$54.24	\$61.30	B	\$6,411	2020	\$750	2005	\$6,000	2005





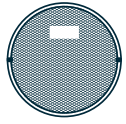
# Wastewater Data<sup>4</sup>

	# Residential Wastewater Units	# Non-Residential Wastewater Units	Residential WW Rate Inside (3,000 gal./mo.)	Residential WW Rate Outside (3,000 gal./mo.)	Residential WW Rate Inside (4,000 gal./mo.)	Residential WW Rate Outside (4,000 gal./mo.)	Residential WW Rate Inside (5,000 gal./mo.)	Residential WW Rate Outside (5,000 gal./mo.)	Billing Frequency	WW Rate Business Inside (1 million gal./mo.)	Last WW Rate Change	Residential Connection Fee Wastewater	Last WW Connection Fee Change	Residential Capital Recovery Charge	Last WW CRC Rate Change
Boydton, Town of			\$26.90	\$36.90	\$31.90	\$46.90	\$36.90	\$56.90	M						
Bridgewater, Town of	2,080	172	\$30.38		\$37.93		\$45.48		M	\$8,867	2020	\$7,402	2020		
Bristol Virginia Utilities Authority	6,703	966	\$25.36	\$38.04	\$29.10	\$43.65	\$32.84	\$49.26	M	\$3,995	2019	\$2,250			
Broadway, Town of	1,488	95	\$13.82		\$17.64		\$21.46		B		2018	\$4,600	2018		
Brodnax, Town of	148	10	\$29.11	\$40.66	\$38.81	\$54.21	\$48.51	\$67.76	M						
Brookneal, Town of			\$17.16		\$19.82		\$22.48		M						
Buchanan, Town of	411	68	\$36.75	\$55.13	\$36.75	\$55.13	\$40.05	\$55.43	M	\$1,350	2020	\$2,500	2010		
Buckingham County	178	42	\$42.08		\$42.08		\$56.09		M	\$13,996	2020	\$2,500	1994		
Buena Vista, City of	2,535	167	\$25.62		\$34.16		\$42.70		M	\$8,540	2020	\$2,000	2019		
Campbell County Utility & Service Auth.	3,264	303	\$25.82		\$32.41		\$39.03		B	\$6,610	2012	\$1,900	2010	\$2,200	2010
Cape Charles, Town of	1,160	110	\$66.11		\$70.22		\$74.33		M		2019	\$875	2012	\$6,600	2012
Caroline County	993	114	\$52.12		\$61.67		\$71.52		M	\$10,588	2018	MIN-\$1,000	2018	\$6,000	2018
Carroll County PSA	891	210	\$42.00		\$52.00		\$62.00		M	\$7,589	2019	\$1,250			
Chatham, Town of	428	123	\$19.17	\$35.70	\$25.56	\$47.60	\$31.95	\$59.50	Q	\$6,390	2018	\$1,000	2018		
Chesterfield County	115,566	3,791	\$25.71		\$28.72		\$31.73		B	\$3,364	2019		2018	\$5,400	2018
Chilhowie, Town of	1,040	121	\$25.57	\$56.38	\$30.68	\$67.68	\$35.79	\$78.98	M	\$6,653	2021	\$900	2016		
Christiansburg, Town of	9,222	386	\$30.50	\$45.75	\$40.75	\$61.13	\$51.00	\$76.50	M	\$10,250	2019	\$3,000	2015		
Clarke County Sanitary Authority	343	26	\$58.50		\$58.50		\$65.96		B	\$14,924	2019			\$16,200	2006
Clarksville, Town of			\$46.00	\$104.00	\$52.89	\$114.56	\$59.78	\$125.12	B	\$6,915					
Coeburn, Town of	995	130	\$33.46	\$55.53	\$41.18	\$68.85	\$48.91	\$82.17	M		2015	COST+\$50			
Craig-New Castle Public Service Authority	347	67	\$38.40		\$44.65		\$50.90		M	\$6,600	2020	\$2,000	2005		
Craigsville, Town of			\$34.00		\$34.00		\$34.00		M	\$6,999		\$3,000			
Culpeper, Town of	6,602	653	\$24.15		\$32.20		\$40.25		M	\$7,273	2019	COST	2019	\$10,000	2006
Danville, City of	16,250	2,300	\$18.37		\$21.46		\$24.80		M	\$3,535	2019	\$1,700	2019		
Dinwiddie County Water Authority	3,450	140	\$20.82		\$26.82		\$32.82		M	\$5,805	2017	\$3,910	2015		
Dublin, Town of	1,162	127	\$21.51	\$26.02	\$28.02	\$33.82	\$34.53	\$41.62	M	\$6,168	2020	\$1,500	2020		
Dungannon, Town of	203	5	\$29.25	\$35.25	\$39.00	\$47.00	\$48.75	\$58.75	M		2012	\$88	2012		
Edinburg, Town of	584	42	\$35.00	\$52.50	\$79.00		\$90.00	\$107.50	M	\$6,067	2019	\$10,000			
Elkton, Town of			\$33.60		\$41.37		\$49.14		M		2020	\$7,500			
Farmville, Town of	3,173	641	\$20.17	\$30.26	\$24.58	\$36.88	\$29.00	\$43.51	M	\$6,288	2018	\$1,000	2020		
Fauquier County Water and Sanitation Authority	5,057	277	\$58.21		\$67.83		\$77.45		M	\$10,501	2019	\$14,000	2016		
Ferrum Water & Sewer Authority	148	30	\$31.50		\$39.00		\$46.50		M	\$7,620	2017	COST+500	2017	\$2,500	2017
Fincastle, Town of	175	30	\$39.19		\$45.88		\$52.57		M		2020	\$2,000	2012	\$2,500	2012
Franklin, City of	3,220	252	\$32.30	\$36.95	\$36.73	\$45.62	\$41.16	\$51.29	M	\$4,449	2016	\$4,000			



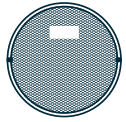
# Wastewater Data<sup>4</sup>

	# Residential Wastewater Units	# Non-Residential Wastewater Units	Residential WW Rate Inside (3,000 gal./mo.)	Residential WW Rate Outside (3,000 gal./mo.)	Residential WW Rate Inside (4,000 gal./mo.)	Residential WW Rate Outside (4,000 gal./mo.)	Residential WW Rate Inside (5,000 gal./mo.)	Residential WW Rate Outside (5,000 gal./mo.)	Billing Frequency	WW Rate Business Inside (1 million gal./mo.)	Last WW Rate Change	Residential Connection Fee Wastewater	Last WW Connection Fee Change	Residential Capital Recovery Charge	Last WW CRC Rate Change
Frederick Water	15,764	629	\$38.22	\$38.22	\$43.39	\$43.39	\$48.56	\$48.56	B	\$8,649	2019	\$3,076	2019		
Galax, City of	3,200	500	\$16.00	\$32.00	\$20.50	\$41.00	\$25.00	\$50.00	B	\$4,503	2020				
Gate City, Town of	803	131	\$38.25		\$47.65		\$57.05		M	\$10,958	2018	\$900	2014		
Glasgow, Town of	520	12	\$32.08	\$41.00	\$33.38	\$44.30	\$34.68	\$47.60	M	\$2,327	2019	\$2,500	2019		
Gloucester, County of	2,280	690	\$39.59		\$52.36		\$64.95		M	\$11,206	2013	\$5,205	2008	\$1,200	2008
Goochland, County of	1,235	190	\$39.98		\$47.26		\$54.54		B	\$14,207	2019	\$3,300	2019		
Greensville County WSA	1,553	93	\$34.49		\$34.49		\$41.39		M	\$8,008	2020	\$1,320			
Halifax County Service Authority	4,040	425	\$36.10		\$41.80		\$47.50		B	\$5,355	2019			\$1,500	2008
Hamilton, Town of	608	29	\$32.64	\$44.04	\$43.52	\$58.72	\$69.77	\$94.16	B		2019	\$5,000	2010		
Hanover County	19,751	1,685	\$30.70		\$38.25		\$45.80		B	\$5,690	2019			\$6,456	2019
Harrisonburg, City of	17,351	2,554	\$17.31	\$25.74	\$23.08	\$34.32	\$28.85	\$42.90	M	\$5,620	2019	\$4,500	2010		
Henrico, County of	92,035	5,173	\$31.02		\$34.83		\$40.54		B	\$5,253	2019	\$3,150	2018	\$5,605	2018
Henry Co. Public Service Authority	6,898	7,131	\$30.00		\$30.00		\$34.70		M	\$7,017	2013	\$1,750	2013		
Hopewell Regional Wastewater Treatment Facility	7,982	569	\$16.18		\$19.98		\$23.78		M	\$3,166	2017	\$2,026	2018		
Isle of Wight County	3,357	86	\$44.50		\$59.33		\$74.17		B		2020	\$3,700			
James City Service Authority	23,558	1,305	\$34.85		\$45.80		\$56.75		M	\$11,000	2019	\$3,583	2020	\$1,818	2020
Kenbridge, Town of	417	144	\$52.28	\$75.53	\$60.37	\$86.70	\$68.48	\$97.87	M		2012	\$500			
Kilmarnock, Town of	774	249	\$25.50	\$35.62	\$32.13	\$44.99	\$38.76	\$54.36	B	\$13,272	2019	\$8,040	2006		
King George County Service Authority	1,985	170	\$67.94		\$80.04		\$92.14		B	\$12,147	2020	\$11,183	2013		
King William County	493	53	\$41.46		\$55.28		\$69.10		B	\$13,820	2018	\$8,000	2015		
Leesburg, Town of	16,691	1,156	\$29.56	\$40.27	\$36.43	\$50.71	\$43.30	\$61.15	Q	\$2,537	2020	\$80		\$7,292	
Lexington, City of	2,500	550	\$44.75	\$60.43	\$59.67	\$80.58	\$74.59	\$100.73	M	\$31,776	2020	\$1,809	2020	\$427	2020
Loudoun Water	77,662	4,725	\$58.20		\$73.62		\$89.04		Q	\$15,679	2020	\$80		\$8,540	2020
Louisa Co. Water Authority Northeast Creek	38	48	\$35.48		\$35.48		\$44.35		M	\$8,870	2019	\$5,250	2004		
Louisa Co. Water Authority Zion Crossroads	664	49	\$35.48		\$35.48		\$44.35		M	\$8,870	2019	\$5,250	2004		
Louisa, Town of	739	154	\$34.34	\$50.36	\$34.34	\$50.36	\$41.53	\$58.99	M	\$7,720	2019	\$7,720			
Luray, Town of	2,131	73	\$48.33	\$72.49	\$55.58	\$83.37	\$62.83	\$94.24	M	\$7,838	2020	\$5,940	2010	\$1,200	2010
Lynchburg, City of	19,000	2,000	\$29.14		\$37.35		\$45.56		M	\$8,290	2020	\$1,330	2017	\$1,950	2000
Manassas, City of	13,730	1,042	\$36.45		\$45.80		\$55.15		M	\$10,359	2020				
Marion, Town of	2,705	345	\$21.68	\$43.29	\$29.85	\$59.58	\$38.02	\$75.87	M	\$8,167	2019	\$900	2016		
Martinsville, City of	7,000	500	\$23.64		\$23.64		\$26.37		M	\$2,743	2016	\$850	2014		
Mineral, Town of	112	34	\$35.40		\$44.25		\$53.10		M	\$8,859	2013	\$8,000	2007		
Mount Jackson, Town of	700	96	\$37.95	\$56.94	\$50.60	\$75.92	\$63.25	\$94.90	M	\$12,650	2019	\$10,000	2019		
Nelson County	179	18	\$38.60		\$38.60		\$45.45		M		2013	\$2,000	2013		



# Wastewater Data<sup>4</sup>

	# Residential Wastewater Units	# Non-Residential Wastewater Units	Residential WW Rate Inside (3,000 gal./mo.)	Residential WW Rate Outside (3,000 gal./mo.)	Residential WW Rate Inside (4,000 gal./mo.)	Residential WW Rate Outside (4,000 gal./mo.)	Residential WW Rate Inside (5,000 gal./mo.)	Residential WW Rate Outside (5,000 gal./mo.)	Billing Frequency	WW Rate Business Inside (1 million gal./mo.)	Last WW Rate Change	Residential Connection Fee Wastewater	Last WW Connection Fee Change	Residential Capital Recovery Charge	Last WW CRC Rate Change
Nelson County Service Authority	2,447	100	\$54.10		\$54.10		\$64.00		M		2019	\$4,000			
New Kent County	1,718	150	\$33.41		\$43.42		\$53.43		B	\$12,254	2020	\$9,275	2012	\$2,500	2012
Norton, City of	1,551	388	\$42.44	\$78.90	\$53.20	\$103.50	\$63.96	\$128.10	M	\$10,773	2019	\$175			
Onancock, Town of	630	1	\$67.59		\$90.41		\$112.90		B	\$18,730	2020	\$1,200			
Pembroke, Town of	640		\$26.20	\$32.50	\$30.10	\$37.00	\$34.00	\$41.50	M		2016	\$1,250	2010		
Powhatan County	123	110	\$33.46		\$40.07		\$46.68		B	\$6,951	2019	\$8,100			
Pulaski County Sewerage Authority	845	100	\$27.75		\$29.00		\$30.25		M	\$4,425	2019	\$500	2010		
Purcellville, Town of	2,657	332	\$55.35	\$103.20	\$71.30	\$135.10	\$87.25	\$167.00	B	\$16,137	2019			\$21,600	2019
Radford, City of	5,385	1	\$18.36		\$24.48		\$30.60		M		2014	\$1,500	2014		
Rapidan Service Authority	6,474	350	\$37.10		\$46.78		\$56.46		M	\$9,707	2020	\$10,000			
Rappahannock County Water & Sewer Authority	187	43	\$50.00		\$50.00		\$50.00		Q	\$50	2018	\$7,500	2009		
Richlands, Town of	2,178	255	\$20.50	\$26.50	\$25.00	\$32.50	\$29.50	\$38.50	M	\$6,009	2018	\$300	1986		
Rockbridge County PSA (Rivermont and Riveria)	1,411	288	\$46.69		\$56.44		\$66.19		B	\$9,942	2019	\$850	2007	\$4,500	2007
Rockingham County	3,664	225	\$16.30		\$21.45		\$26.60		M	\$5,151	2017	\$5,925	2017		
Rocky Mount, Town of	1,752	330	\$17.85	\$35.70	\$21.32	\$42.64	\$24.79	\$49.58	M	\$3,328	2019	\$1,000	2016		
Rural Retreat, Town of			\$24.15		\$28.95		\$33.75		M	\$6,458	2017	\$400			
Saint Paul, Town of	326	78	\$26.66	\$45.85	\$33.97	\$57.35	\$41.29	\$68.84	M	\$7,320	2018	\$350			
Salem, City of	7,703	1,286	\$38.87		\$44.26		\$49.65		M	\$5,435	2015	\$2,100	2016	\$1,000	2016
Scott County Public Service Authority	1,201	70	\$44.00		\$57.33		\$70.66		M	\$13,393	2020	\$2,000	2015		
Shenandoah, Town of	910	76	\$25.65	\$38.50	\$30.15	\$46.00	\$34.65	\$53.50	M	\$4,513	2020	\$7,000	2020		
Smithfield, Town of	3,176	470	\$43.65	\$46.35	\$55.09	\$58.69	\$66.53	\$71.03	B	\$11,454	2019	\$1,580	1999	\$4,120	2007
South Hill, Town of	1,935	447	\$23.64	\$47.28	\$31.15	\$62.30	\$38.12	\$76.23	M	\$5,049	2020	\$1,500	1991		
Southampton County	1,326	79	\$36.00		\$36.00		\$44.00		M		2017	\$1,800	2009	\$6,000	2009
Spotsylvania County	29,418	1,761	\$20.27		\$25.99		\$31.71		M	\$6,287	2019	\$2,220	2008	\$4,920	2008
Stafford County	35,211	1,253	\$35.20		\$41.56		\$47.92		M	\$6,697	2019	\$2,100	2005	\$3,500	2010
Stanley, Town of	1,417	70	\$29.40	\$31.00	\$30.70	\$33.50	\$32.00	\$36.00	M		2013	\$4,625	2017		
Staunton, City of	8,276	1,138	\$19.52	\$29.28	\$24.40	\$36.60	\$31.72	\$47.58	B	\$6,539	2012	\$3,100	2020	\$6,850	2016
Stoney Creek Sanitary District	1,385	45	\$51.00		\$56.00		\$61.00		B	\$6,527	2013	\$6,000	2010		
Stuart, Town of	364	100	\$24.16	\$27.69	\$29.74	\$33.99	\$35.32	\$40.29	M		2020	\$600			
Tazewell, Town of	1,609	203	\$39.35	\$57.50	\$49.20	\$71.00	\$59.05	\$84.50	M		2020	\$540			
Toms Brook-Maurertown Sanitary District	615	30	\$29.50		\$36.00		\$42.50		M	\$11,955	2013	\$6,000	2010		
Victoria, Town of	850	15	\$18.50		\$25.04		\$31.58		M	\$6,503	2020	\$25			
Vienna, Town of	6,971	325	\$23.85		\$34.40		\$43.00		Q	\$9,950	2020	\$8,340	2020	\$7,625	2020
Virginia Beach Public Utilities	128,208	5,811	\$54.31		\$62.14		\$69.98		M	\$8,220	2014	MIN \$7,450	2014	\$1,545	2014



## Wastewater Data<sup>4</sup>

	# Residential Wastewater Units	# Non-Residential Wastewater Units	Residential WW Rate Inside (3,000 gal./mo.)	Residential WW Rate Outside (3,000 gal./mo.)	Residential WW Rate Inside (4,000 gal./mo.)	Residential WW Rate Outside (4,000 gal./mo.)	Residential WW Rate Inside (5,000 gal./mo.)	Residential WW Rate Outside (5,000 gal./mo.)	Billing Frequency	WW Rate Business Inside (1 million gal./mo.)	Last WW Rate Change	Residential Connection Fee Wastewater	Last WW Connection Fee Change	Residential Capital Recovery Charge	Last WW CRC Rate Change
Warrenton, Town of	3,851	596	\$21.95	\$32.90	\$31.62	\$47.41	\$41.30	\$61.92	M	\$10,047	2020	COST+\$8,000	2020	\$10,800	2016
Waynesboro, City of	7,515	778	\$40.62	\$44.68	\$43.93	\$48.32	\$58.20	\$64.02	B	\$8,943	2019	MIN \$800	1999	\$4,250	1999
Western Virginia Water Authority (Botetourt Co.)	2,808	308	\$27.75		\$31.50		\$35.25		M	\$4,195	2020	\$2,000		\$3,000	
Western Virginia Water Authority (Franklin Co.)	49	48	\$29.10		\$33.30		\$37.50		M	\$4,695	2020	\$2,000		\$3,000	
Western Virginia Water Authority (Roanoke City/County)	48,754	4,265	\$27.75		\$31.50		\$35.25		M	\$4,195	2020	\$2,000		\$3,000	
Westmoreland County	2,801	298	\$37.00	\$40.00	\$37.00	\$40.00	\$37.00	\$40.00	B		2018	\$10,022	2018	\$1,539	2018
Winchester, City of	10,608		\$40.41		\$53.88		\$67.35		B	\$13,470	2020	\$7,200	2017		
Wise, Town of	1,984	194	\$36.66	\$53.31	\$44.81	\$65.16	\$52.96	\$77.01	M	\$8,162	2019	\$500	2000		
Wythe County	586	94	\$22.00		\$28.90		\$35.80			\$8,870	2015	\$1,000	2009	\$500 / EDU	
Wytheville, Town of	3,878	688	\$18.43	\$36.86	\$24.56	\$49.12	\$30.69	\$61.38	M	\$6,452	2019	\$1,500			

<sup>4</sup>Participants provided wastewater treatment services by the Hampton Roads Sanitation District (HRSD): Gloucester County, Isle of Wight County, James City Service Authority, Town of Smithfield, and the City of Virginia Beach included the HRSD wastewater charges in their responses. As a result, the data listed in the wastewater section of this report includes the HRSD wastewater treatment charges as follows: 3,000 gallons per month (or 401 cubic feet) - \$23.50; 4,000 gallons per month (or 535 cubic feet) - \$31.33; 5,000 gallons per month (or 668 cubic feet) - \$39.17 and 1,000,000 gallons per month (or 133,681 cubic feet) - \$7,833.68.



# Draper Aden Associates

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APPENDIX C:  
FY2020-2021  
PAY SCALE

Grade	Position	Step	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
8	Chief WTP Operator	Annual	\$67,017.60	\$68,702.40	\$70,428.80	\$72,196.80	\$74,006.40	\$75,857.60	\$77,750.40	\$79,684.80	\$81,681.60	\$83,720.00	\$85,820.80	\$87,963.20	\$90,168.00	\$92,414.40	\$94,723.20	\$97,094.40	\$99,528.00	\$102,024.00	\$104,582.40	\$107,203.20	\$109,886.40	\$112,632.00	\$115,440.00	\$118,331.20
		Monthly	\$5,584.80	\$5,725.20	\$5,869.07	\$6,016.40	\$6,167.20	\$6,321.47	\$6,479.20	\$6,640.40	\$6,806.80	\$6,976.67	\$7,151.73	\$7,330.27	\$7,514.00	\$7,701.20	\$7,893.60	\$8,091.20	\$8,294.00	\$8,502.00	\$8,715.20	\$8,933.60	\$9,157.20	\$9,386.00	\$9,620.00	\$9,860.93
		Bi-Weekly	\$2,577.60	\$2,642.40	\$2,708.80	\$2,776.80	\$2,846.40	\$2,917.60	\$2,990.40	\$3,064.80	\$3,141.60	\$3,220.00	\$3,300.80	\$3,383.20	\$3,468.00	\$3,554.40	\$3,643.20	\$3,734.40	\$3,828.00	\$3,924.00	\$4,022.40	\$4,123.20	\$4,226.40	\$4,332.00	\$4,440.00	\$4,551.20
		Weekly	\$1,288.80	\$1,321.20	\$1,354.40	\$1,388.40	\$1,423.20	\$1,458.80	\$1,495.20	\$1,532.40	\$1,570.80	\$1,610.00	\$1,650.40	\$1,691.60	\$1,734.00	\$1,777.20	\$1,821.60	\$1,867.20	\$1,914.00	\$1,962.00	\$2,011.20	\$2,061.60	\$2,113.20	\$2,166.00	\$2,220.00	\$2,275.60
		Hourly	\$32.22	\$33.03	\$33.86	\$34.71	\$35.58	\$36.47	\$37.38	\$38.31	\$39.27	\$40.25	\$41.26	\$42.29	\$43.35	\$44.43	\$45.54	\$46.68	\$47.85	\$49.05	\$50.28	\$51.54	\$52.83	\$54.15	\$55.50	\$56.89
7	Utility Mechanic Supervisor	Annual	\$63,752.00	\$65,353.60	\$66,996.80	\$68,681.60	\$70,408.00	\$72,176.00	\$73,985.60	\$75,836.80	\$77,729.60	\$79,664.00	\$81,660.80	\$83,699.20	\$85,800.00	\$87,942.40	\$90,147.20	\$92,393.60	\$94,702.40	\$97,073.60	\$99,507.20	\$102,003.20	\$104,561.60	\$107,182.40	\$109,865.60	\$112,611.20
		Monthly	\$5,312.67	\$5,446.13	\$5,583.07	\$5,723.47	\$5,867.33	\$6,014.67	\$6,165.47	\$6,319.73	\$6,477.47	\$6,638.67	\$6,805.07	\$6,974.93	\$7,150.00	\$7,328.53	\$7,512.27	\$7,699.47	\$7,891.87	\$8,089.47	\$8,292.27	\$8,500.27	\$8,713.47	\$8,931.87	\$9,155.47	\$9,384.27
		Bi-Weekly	\$2,452.00	\$2,513.60	\$2,576.80	\$2,641.60	\$2,708.00	\$2,776.00	\$2,845.60	\$2,916.80	\$2,989.60	\$3,064.00	\$3,140.80	\$3,219.20	\$3,300.00	\$3,382.40	\$3,467.20	\$3,553.60	\$3,642.40	\$3,733.60	\$3,827.20	\$3,923.20	\$4,021.60	\$4,122.40	\$4,225.60	\$4,331.20
		Weekly	\$1,226.00	\$1,256.80	\$1,288.40	\$1,320.80	\$1,354.00	\$1,388.00	\$1,422.80	\$1,458.40	\$1,494.80	\$1,532.00	\$1,570.40	\$1,609.60	\$1,650.00	\$1,691.20	\$1,733.60	\$1,776.80	\$1,821.20	\$1,866.80	\$1,913.60	\$1,961.60	\$2,010.80	\$2,061.20	\$2,112.80	\$2,165.60
		Hourly	\$30.65	\$31.42	\$32.21	\$33.02	\$33.85	\$34.70	\$35.57	\$36.46	\$37.37	\$38.30	\$39.26	\$40.24	\$41.25	\$42.28	\$43.34	\$44.42	\$45.53	\$46.67	\$47.84	\$49.04	\$50.27	\$51.53	\$52.82	\$54.14
6	Laboratory Manager	Annual	\$60,715.20	\$62,233.60	\$63,793.60	\$65,395.20	\$67,038.40	\$68,723.20	\$70,449.60	\$72,217.60	\$74,027.20	\$75,878.40	\$77,771.20	\$79,705.60	\$81,702.40	\$83,740.80	\$85,841.60	\$87,984.00	\$90,188.80	\$92,435.20	\$94,744.00	\$97,115.20	\$99,548.80	\$102,044.80	\$104,603.20	\$107,224.00
		Monthly	\$5,059.60	\$5,186.13	\$5,316.13	\$5,449.60	\$5,586.53	\$5,726.93	\$5,870.80	\$6,018.13	\$6,168.93	\$6,323.20	\$6,480.93	\$6,642.13	\$6,808.53	\$6,978.40	\$7,153.47	\$7,332.00	\$7,515.73	\$7,702.93	\$7,895.33	\$8,092.93	\$8,295.73	\$8,503.73	\$8,716.93	\$8,935.33
		Bi-Weekly	\$2,335.20	\$2,393.60	\$2,453.60	\$2,515.20	\$2,578.40	\$2,643.20	\$2,709.60	\$2,777.60	\$2,847.20	\$2,918.40	\$2,991.20	\$3,065.60	\$3,142.40	\$3,220.80	\$3,301.60	\$3,384.00	\$3,468.80	\$3,555.20	\$3,644.00	\$3,735.20	\$3,828.80	\$3,924.80	\$4,023.20	\$4,124.00
		Weekly	\$1,167.60	\$1,196.80	\$1,226.80	\$1,257.60	\$1,289.20	\$1,321.60	\$1,354.80	\$1,388.80	\$1,423.60	\$1,459.20	\$1,495.60	\$1,532.80	\$1,571.20	\$1,610.40	\$1,650.80	\$1,692.00	\$1,734.40	\$1,777.60	\$1,822.00	\$1,867.60	\$1,914.40	\$1,962.40	\$2,011.60	\$2,062.00
		Hourly	\$29.19	\$29.92	\$30.67	\$31.44	\$32.23	\$33.04	\$33.87	\$34.72	\$35.59	\$36.48	\$37.39	\$38.32	\$39.28	\$40.26	\$41.27	\$42.30	\$43.36	\$44.44	\$45.55	\$46.69	\$47.86	\$49.06	\$50.29	\$51.55
5	Senior WTP Operator	Annual	\$52,353.60	\$53,664.00	\$55,016.00	\$56,388.80	\$57,803.20	\$59,238.40	\$60,715.20	\$62,233.60	\$63,793.60	\$65,395.20	\$67,038.40	\$68,723.20	\$70,449.60	\$72,217.60	\$74,027.20	\$75,878.40	\$77,771.20	\$79,705.60	\$81,702.40	\$83,740.80	\$85,841.60	\$87,984.00	\$90,188.80	\$92,435.20
		Monthly	\$4,362.80	\$4,472.00	\$4,584.67	\$4,699.07	\$4,816.93	\$4,936.53	\$5,059.60	\$5,186.13	\$5,316.13	\$5,449.60	\$5,586.53	\$5,726.93	\$5,870.80	\$6,018.13	\$6,168.93	\$6,323.20	\$6,480.93	\$6,642.13	\$6,808.53	\$6,978.40	\$7,153.47	\$7,332.00	\$7,515.73	\$7,702.93
		Bi-Weekly	\$2,013.60	\$2,064.00	\$2,116.00	\$2,168.80	\$2,223.20	\$2,278.40	\$2,335.20	\$2,393.60	\$2,453.60	\$2,515.20	\$2,578.40	\$2,643.20	\$2,709.60	\$2,777.60	\$2,847.20	\$2,918.40	\$2,991.20	\$3,065.60	\$3,142.40	\$3,220.80	\$3,301.60	\$3,384.00	\$3,468.80	\$3,555.20
		Weekly	\$1,006.80	\$1,032.00	\$1,058.00	\$1,084.40	\$1,111.60	\$1,139.20	\$1,167.60	\$1,196.80	\$1,226.80	\$1,257.60	\$1,289.20	\$1,321.60	\$1,354.80	\$1,388.80	\$1,423.60	\$1,459.20	\$1,495.60	\$1,532.80	\$1,571.20	\$1,610.40	\$1,650.80	\$1,692.00	\$1,734.40	\$1,777.60
		Hourly	\$25.17	\$25.80	\$26.45	\$27.11	\$27.79	\$28.48	\$29.19	\$29.92	\$30.67	\$31.44	\$32.23	\$33.04	\$33.87	\$34.72	\$35.59	\$36.48	\$37.39	\$38.32	\$39.28	\$40.26	\$41.27	\$42.30	\$43.36	\$44.44
4	WTP Operator Class I Utility Mechanic I	Annual	\$47,403.20	\$48,588.80	\$49,795.20	\$51,043.20	\$52,312.00	\$53,622.40	\$54,953.60	\$56,326.40	\$57,740.80	\$59,176.00	\$60,652.80	\$62,171.20	\$63,731.20	\$65,332.80	\$66,976.00	\$68,660.80	\$70,387.20	\$72,155.20	\$73,964.80	\$75,816.00	\$77,708.80	\$79,643.20	\$81,640.00	\$83,678.40
		Monthly	\$3,950.27	\$4,049.07	\$4,149.60	\$4,253.60	\$4,359.33	\$4,468.53	\$4,579.47	\$4,693.87	\$4,811.73	\$4,931.33	\$5,054.40	\$5,180.93	\$5,310.93	\$5,444.40	\$5,581.33	\$5,721.73	\$5,865.60	\$6,012.93	\$6,163.73	\$6,318.00	\$6,475.73	\$6,636.93	\$6,803.33	\$6,973.20
		Bi-Weekly	\$1,823.20	\$1,868.80	\$1,915.20	\$1,963.20	\$2,012.00	\$2,062.40	\$2,113.60	\$2,166.40	\$2,220.80	\$2,276.00	\$2,332.80	\$2,391.20	\$2,451.20	\$2,512.80	\$2,576.00	\$2,640.80	\$2,707.20	\$2,775.20	\$2,844.80	\$2,916.00	\$2,988.80	\$3,063.20	\$3,140.00	\$3,218.40
		Weekly	\$911.60	\$934.40	\$957.60	\$981.60	\$1,006.00	\$1,031.20	\$1,056.80	\$1,083.20	\$1,110.40	\$1,138.00	\$1,166.40	\$1,195.60	\$1,225.60	\$1,256.40	\$1,288.00	\$1,320.40	\$1,353.60	\$1,387.60	\$1,422.40	\$1,458.00	\$1,494.40	\$1,531.60	\$1,570.00	\$1,609.20
		Hourly	\$22.79	\$23.36	\$23.94	\$24.54	\$25.15	\$25.78	\$26.42	\$27.08	\$27.76	\$28.45	\$29.16	\$29.89	\$30.64	\$31.41	\$32.20	\$33.01	\$33.84	\$34.69	\$35.56	\$36.45	\$37.36	\$38.29	\$39.25	\$40.23
3	WTP Operator Class II Utility Mechanic II Executive Assistant	Annual	\$42,952.00	\$44,033.60	\$45,136.00	\$46,259.20	\$47,424.00	\$48,609.60	\$49,816.00	\$51,064.00	\$52,332.80	\$53,643.20	\$54,974.40	\$56,347.20	\$57,761.60	\$59,196.80	\$60,673.60	\$62,192.00	\$63,752.00	\$65,353.60	\$66,996.80	\$68,681.60	\$70,408.00	\$72,176.00	\$73,985.60	\$75,836.80
		Monthly	\$3,579.33	\$3,669.47	\$3,761.33	\$3,854.93	\$3,952.00	\$4,050.80	\$4,151.33	\$4,255.33	\$4,361.07	\$4,470.27	\$4,581.20	\$4,695.60	\$4,813.47	\$4,933.07	\$5,056.13	\$5,182.67	\$5,312.67	\$5,446.13	\$5,583.07	\$5,723.47	\$5,867.33	\$6,014.67	\$6,165.47	\$6,319.73
		Bi-Weekly	\$1,652.00	\$1,693.60	\$1,736.00	\$1,779.20	\$1,824.00	\$1,869.60	\$1,916.00	\$1,964.00	\$2,012.80	\$2,063.20	\$2,114.40	\$2,167.20	\$2,221.60	\$2,276.80	\$2,333.60	\$2,392.00	\$2,452.00	\$2,513.60	\$2,576.80	\$2,641.60	\$2,708.00	\$2,776.00	\$2,845.60	\$2,916.80
		Weekly	\$826.00	\$846.80	\$868.00	\$889.60	\$912.00	\$934.80	\$958.00	\$982.00	\$1,006.40	\$1,031.60	\$1,057.20	\$1,083.60	\$1,110.80	\$1,138.40	\$1,166.80	\$1,196.00	\$1,226.00	\$1,256.80	\$1,288.40	\$1,320.80	\$1,354.00	\$1,388.00	\$1,422.80	\$1,458.40
		Hourly	\$20.65	\$21.17	\$21.70	\$22.24	\$22.80	\$23.37	\$23.95	\$24.55	\$25.16	\$25.79	\$26.43	\$27.09	\$27.77	\$28.46	\$29.17	\$29.90	\$30.65	\$31.42	\$32.21	\$33.02	\$33.85	\$34.70	\$35.57	\$36.46
2	WTP Operator Class III	Annual	\$38,916.80	\$39,894.40	\$40,892.80	\$41,912.00	\$42,952.00	\$44,033.60	\$45,136.00	\$46,259.20	\$47,424.00	\$48,609.60	\$49,816.00	\$51,064.00	\$52,332.80	\$53,643.20	\$54,974.40	\$56,347.20	\$57,761.60	\$59,196.80	\$60,673.60	\$62,192.00	\$63,752.00	\$65,353.60	\$66,996.80	\$68,681.60
		Monthly	\$3,243.07	\$3,324.53	\$3,407.73	\$3,492.67	\$3,579.33	\$3,669.47	\$3,761.33	\$3,854.93	\$3,952.00	\$4,050.80	\$4,151.33	\$4,255.33	\$4,361.07	\$4,470.27	\$4,581.20	\$4,695.60	\$4,813.47	\$4,933.07	\$5,056.13	\$5,182.67	\$5,312.67	\$5,446.13	\$5,583.07	\$5,723.47
		Bi-Weekly	\$1,496.80	\$1,534.40	\$1,572.80	\$1,612.00	\$1,652.00	\$1,693.60	\$1,736.00	\$1,779.20	\$1,824.00	\$1,869.60	\$1,916.00	\$1,964.00	\$2,012.80	\$2,063.20	\$2,114.40	\$2,167.20	\$2,221.60	\$2,276.80	\$2,333.60	\$2,392.00	\$2,452.00	\$2,513.60	\$2,576.80	\$2,641.60
		Weekly	\$748.40	\$767.20	\$786.40	\$806.00	\$826.00	\$846.80	\$868.00	\$889.60	\$912.00	\$934.80	\$958.00	\$982.00	\$1,006.40	\$1,031.60	\$1,057.20	\$1,083.60	\$1,110.80	\$1,138.40	\$1,166.80	\$1,196.00	\$1,226.00	\$1,256.80	\$1,288.40	\$1,320.80
		Hourly	\$18.71	\$19.18	\$19.66	\$20.15	\$20.65	\$21.17	\$21.70	\$22.24	\$22.80	\$23.37	\$23.95	\$24.55	\$25.16	\$25.79	\$26.43	\$27.09	\$27.77	\$28.46	\$29.17	\$29.90	\$30.65	\$31.42	\$32.21	\$33.02
1	WTP Operator Trainee	Annual	\$35,235																							