

STATE OF NEW HAMPSHIRE

BEFORE THE

PUBLIC UTILITIES COMMISSION

AQUARION WATER COMPANY OF NEW HAMPSHIRE, INC.

DOCKET NO. DW 20-184

PREFILED DIRECT TESTIMONY OF

DYLAN W. D'ASCENDIS, CRRA, CVA
SCOTTMADDEN, INC.

ON BEHALF OF
AQUARION WATER COMPANY OF NEW HAMPSHIRE

December 18, 2020

TABLE OF CONTENTS

	Page
I. INTRODUCTION	1
A. WITNESS IDENTIFICATION	1
B. BACKGROUND AND QUALIFICATIONS	1
II. PURPOSE OF TESTIMONY	2
III. SUMMARY	3
IV. GENERAL PRINCIPLES	5
A. BUSINESS RISK	8
B. FINANCIAL RISK	11
V. AQUARION WATER COMPANY OF NEW HAMPSHIRE AND THE UTILITY PROXY GROUP	12
VI. CAPITAL STRUCTURE	14
VII. COMMON EQUITY COST RATE MODELS	15
A. DISCOUNTED CASH FLOW MODEL	16
B. THE RISK PREMIUM MODEL	18
C. THE CAPITAL ASSET PRICING MODEL	28
D. COMMON EQUITY COST RATES FOR A PROXY GROUP OF DOMESTIC, NON-PRICE REGULATED COMPANIES BASED ON THE DCF, RPM, AND CAPM	34
VIII. CONCLUSION OF COMMON EQUITY COST RATE BEFORE ADJUSTMENT	38
IX. ADJUSTMENTS TO THE COMMON EQUITY COST RATE	38
A. SIZE ADJUSTMENT	38
B. FLOTATION COST ADJUSTMENT	46
X. CONCLUSION OF COMMON EQUITY COST RATE	49

1 **I. INTRODUCTION**

2 **A. WITNESS IDENTIFICATION**

3 **Q. Please state your name and business address.**

4 A. My name is Dylan W. D'Ascendis. My business address is 3000 Atrium Way,
5 Suite 241, Mount Laurel, NJ 08054.

6 **Q. By whom are you employed and in what capacity?**

7 A. I am a Director at ScottMadden, Inc.

8 **B. BACKGROUND AND QUALIFICATIONS**

9 **Q. Please summarize your professional experience and educational
10 background.**

11 A. I have offered expert testimony on behalf of investor-owned utilities in over 20
12 state regulatory commissions in the United States, the Federal Energy
13 Regulatory Commission, the Alberta Utility Commission, and one American
14 Arbitration Association panel on issues including, but not limited to, common
15 equity cost rate, rate of return, valuation, capital structure, class cost of service,
16 and rate design.

17 On behalf of the American Gas Association ("AGA"), I calculate the AGA
18 Gas Index, which serves as the benchmark against which the performance of the
19 American Gas Index Fund ("AGIF") is measured on a monthly basis. The AGA
20 Gas Index and AGIF are a market capitalization weighted index and mutual fund,
21 respectively, comprised of the common stocks of the publicly traded corporate
22 members of the AGA.

23 I am a member of the Society of Utility and Regulatory Financial Analysts
24 ("SURFA"). In 2011, I was awarded the professional designation "Certified Rate

1 of Return Analyst" by SURFA, which is based on education, experience, and the
2 successful completion of a comprehensive written examination.

3 I am also a member of the National Association of Certified Valuation
4 Analysts ("NACVA") and was awarded the professional designation "Certified
5 Valuation Analyst" by the NACVA in 2015.

6 I am a graduate of the University of Pennsylvania, where I received a
7 Bachelor of Arts degree in Economic History. I have also received a Master of
8 Business Administration with high honors and concentrations in Finance and
9 International Business from Rutgers University.

10 The details of my educational background and expert witness
11 appearances are included in Appendix A.

12 **II. PURPOSE OF TESTIMONY**

13 **Q. What is the purpose of your testimony in this proceeding?**

14 A. The purpose of my testimony is to present evidence on behalf of Aquarion Water
15 Company of New Hampshire, Inc. ("AWNH" or the "Company") about the
16 appropriate capital structure and corresponding cost rates the Company should
17 be given the opportunity to earn on its jurisdictional rate base.

18 **Q. Have you prepared Attachments in support of your recommendation?**

19 A. Yes. Attachments DWD-1 through DWD-10 have been prepared by me or under
20 my direct supervision.

21 **Q. What is your recommended cost of capital for AWNH?**

22 A. I recommend the New Hampshire Public Utilities Commission (the "Commission")
23 authorize the Company the opportunity to earn an overall rate of return of 8.15%
24 based on a test year ending December 31, 2019. The ratemaking capital

1 structure consists of 43.85% long-term debt at an embedded cost rate of 6.14%,
2 3.78% short-term debt at an embedded cost rate of 2.42%, 0.01% preferred
3 equity at a 6.00% cost rate and 52.36% common equity at my recommended
4 common equity cost rate of 10.25%. The overall rate of return is summarized on
5 page 1 of Attachment DWD-1 and in Table 1 below:

6 **Table 1: Summary of Overall Rate of Return**

<u>Type of Capital</u>	<u>Ratios</u>	<u>Cost rate</u>	<u>Weighted Cost Rate</u>
Long-Term Debt	43.85%	6.14%	2.69%
Short-Term Debt	3.78%	2.42%	0.09%
Preferred Equity	0.01%	6.00%	0.00%
Common Equity	<u>52.36%</u>	10.25%	<u>5.37%</u>
Total	<u>100.00%</u>		<u>8.15%</u>

7 **III. SUMMARY**

8 **Q. Please summarize your recommended common equity cost rate.**

9 A. My recommended common equity cost rate of 10.25% is summarized on page 2
10 of Attachment DWD-1. I have assessed the market-based common equity cost
11 rates of companies of relatively similar, but not necessarily identical, risk to
12 AWNH. Using companies of relatively comparable risk as proxies is consistent
13 with the principles of fair rate of return established in the *Hope*¹ and *Bluefield*²
14 cases. No proxy group can be identical in risk to any single company, so there
15 must be an evaluation of relative risk between the company and the proxy group
16 to see if it is appropriate to make adjustments to the proxy group's indicated rate
17 of return.

¹ *Federal Power Commission v. Hope Natural Gas Co.*, 320 U.S. 591 (1944).

² *Bluefield Water Works Improvement Co. v. Public Serv. Comm'n*, 262 U.S. 679 (1922).
("Bluefield")

1 My recommendation results from the application of several cost of
 2 common equity models, specifically the Discounted Cash Flow (“DCF”) model,
 3 the Risk Premium Model (“RPM”), and the Capital Asset Pricing Model (“CAPM”),
 4 to the market data of a proxy group of seven water companies (“Utility Proxy
 5 Group”) whose selection criteria will be discussed below. In addition, I also
 6 applied the DCF, RPM, and CAPM to a proxy group of domestic, non-price
 7 regulated companies comparable in total risk to the Utility Proxy Group (“Non-
 8 Price Regulated Proxy Group”).

9 The results derived from each are as follows:

10 **Table 2: Summary of Common Equity Cost Rate**

	Utility Proxy Group
13 Discounted Cash Flow Model	9.09%
14 Risk Premium Model	10.56%
15 Capital Asset Pricing Model	10.87%
16 Cost of Equity Models Applied to	
17 Comparable Risk, Non-Price	
18 Regulated Companies	<u>10.76%</u>
19 Range of Model Results	9.09% - 10.87%
20 Size Adjustment	1.00%
21 Flotation Cost Adjustment	<u>0.04%</u>
22 Indicated Range of Common Equity	
23 Cost Rates After Adjustments	<u>10.13% - 11.91%</u>
24 Recommended Common Equity	
25 Cost Rate After Adjustments	<u>10.25%</u>

26 After analyzing the indicated common equity cost rates derived through
 27 these models, the indicated range of common equity cost rates produced by the
 28 models are between 9.09% and 10.87%, which are applicable to the Utility Proxy

1 Group. In view of these model results, it is clear that the DCF model is a low side
2 outlier when compared to the results of the other models.

3 The indicated range of common equity cost rates was then adjusted
4 upward by 1.00% and 0.04% to reflect AWNH's smaller relative size and flotation
5 costs, respectively. These adjustments result in a Company-specific range of
6 common equity cost rates between 10.13% and 11.91%. From this range of
7 results, I recommend the Commission consider a common equity cost rate of
8 10.25% for use in setting rates for the Company.

9 **IV. GENERAL PRINCIPLES**

10 **Q. What general principles have you considered in arriving at your
11 recommended common equity cost rate of 10.25%?**

12 A. In unregulated industries, the competition of the marketplace is the principal
13 determinant of the price of products or services. For regulated public utilities,
14 regulation must act as a substitute for marketplace competition. Assuring that
15 the utility can fulfill its obligations to the public, while providing safe and reliable
16 service at all times, requires a level of earnings sufficient to maintain the integrity
17 of presently invested capital. Sufficient earnings also permit the attraction of
18 needed new capital at a reasonable cost, for which the utility must compete with
19 other firms of comparable risk, consistent with the fair rate of return standards
20 established by the U.S. Supreme Court in the previously cited *Hope* and *Bluefield*
21 decisions. Consequently, marketplace data must be relied on in assessing a
22 common equity cost rate appropriate for ratemaking purposes. Just as the use of
23 the market data for the proxy group adds reliability to the informed expert's
24 judgment used in arriving at a recommended common equity cost rate, the use of

1 multiple generally accepted common equity cost rate models also adds reliability
2 and accuracy when arriving at a recommended common equity cost rate.

3 **Q. Can you please provide some examples from the financial literature which**
4 **support the use of multiple cost of common equity models in determining**
5 **the investor-required return?**

6 A. Yes. In one example, Morin states:

7 Each methodology requires the exercise of considerable judgment
8 on the reasonableness of the assumptions underlying the
9 methodology and on the reasonableness of the proxies used to
10 validate a theory. The inability of the DCF model to account for
11 changes in relative market valuation, discussed below, is a vivid
12 example of the potential shortcomings of the DCF model when
13 applied to a given company. Similarly, the inability of the CAPM to
14 account for variables that affect security returns other than beta
15 tarnishes its use.

16 No one individual method provides the necessary level of precision
17 for determining a fair return, but each method provides useful
18 evidence to facilitate the exercise of an informed judgment.
19 Reliance on any single method or preset formula is inappropriate
20 when dealing with investor expectations because of possible
21 measurement difficulties and vagaries in individual companies'
22 market data. (emphasis added)

23 * * *

24 The financial literature supports the use of multiple methods.
25 Professor Eugene Brigham, a widely respected scholar and finance
26 academician, asserts^(footnote omitted):

27 Three methods typically are used: (1) the Capital
28 Asset Pricing Model (CAPM), (2) the discounted cash
29 flow (DCF) method, and (3) the bond-yield-plus-risk-
30 premium approach. **These methods are not**
31 **mutually exclusive – no method dominates the**
32 **others**, and all are subject to error when used in
33 practice. Therefore, when faced with the task of
34 estimating a company's cost of equity, we generally
35 use all three methods and then choose among them
36 on the basis of our confidence in the data used for
37 each in the specific case at hand. (emphasis added)

1 Another prominent finance scholar, Professor Stewart Myers, in an
2 early pioneering article on regulatory finance, stated^(footnote omitted):

3 Use more than one model when you can. Because
4 estimating the opportunity cost of capital is difficult,
5 **only a fool throws away useful information.** That
6 means you should not use any one model or measure
7 mechanically and exclusively. Beta is helpful as one
8 tool in a kit, to be used in parallel with DCF models or
9 other techniques for interpreting capital market data.
10 (emphasis added)

11 Reliance on multiple tests recognizes that no single methodology
12 produces a precise definitive estimate of the cost of equity. As
13 stated in Bonbright, Danielsen, and Kamerschen (1988), '*no single*
14 *or group test or technique is conclusive.*' Only a fool discards
15 relevant evidence. (italics in original) (emphasis added)

16 * * *

17 While it is certainly appropriate to use the DCF methodology to
18 estimate the cost of equity, there is no proof that the DCF produces
19 a more accurate estimate of the cost of equity than other
20 methodologies. Sole reliance on the DCF model ignores the capital
21 market evidence and financial theory formalized in the CAPM and
22 other risk premium methods. **The DCF model is one of many**
23 **tools to be employed in conjunction with other methods to**
24 **estimate the cost of equity.** It is not a superior methodology that
25 supplants other financial theory and market evidence. The broad
26 usage of the DCF methodology in regulatory proceedings in
27 contrast to its virtual disappearance in academic textbooks does
28 not make it superior to other methods. The same is true of the Risk
29 Premium and CAPM methodologies. (emphasis added)³

30 Finally, Brigham and Gapenski note:

31 In practical work, *it is often best to use all three methods* – CAPM,
32 bond yield plus risk premium, and DCF – and then apply judgment
33 when the methods produce different results. People experienced in
34 estimating equity capital costs recognize that both careful analysis
35 and some very fine judgments are required. It would be nice to
36 pretend that these judgments are unnecessary and to specify an
37 easy, precise way of determining the exact cost of equity capital.

³ Roger A. Morin, New Regulatory Finance, Public Utilities Reports, Inc., 2006, at 428-431. ("Morin")

1 Unfortunately, this is not possible. Finance is in large part a matter
2 of judgment, and we simply must face this fact. (italics in original)⁴

3 In the academic literature cited above, three methods are consistently
4 mentioned: the DCF, CAPM, and the RPM, all of which I used in my analyses.

5 **A. BUSINESS RISK**

6 **Q. Please define business risk and explain why it is important to the**
7 **determination of a fair rate of return.**

8 A. Business risk is the riskiness of a company's common stock without the use of
9 debt and/or preferred capital. Examples of such general business risks faced by
10 all utilities (*i.e.*, electric, natural gas distribution, and water) include size, the
11 quality of management, the regulatory environment in which utilities operate,
12 customer mix and concentration of customers, service territory growth, and
13 capital intensity. All of these have a direct bearing on earnings.

14 Consistent with the basic financial principle of risk and return, business
15 risk is important to the determination of a fair rate of return, because the higher
16 the level of risk, the higher the rate of return investors demand.

17 **Q. What business risks do the water and wastewater industries face in**
18 **general?**

19 A. Water and wastewater utilities have an ever-increasing responsibility to be
20 stewards of the environment from which water supplies are drawn in order to
21 preserve and protect essential natural resources of the United States. This
22 increased environmental stewardship is a direct result of compliance with the
23 Safe Water Drinking Act, as well as a response to continuous monitoring by the

⁴ Eugene F. Brigham and Louis C. Gapenski, Financial Management – Theory and Practice, 4th Ed. (The Dryden Press, 1985) at 256. (“Brigham and Gapenski”)

1 Environmental Protection Agency (“EPA”) and state and local governments, of
2 the water supply for potential contaminants and their resultant regulations. This,
3 plus aging infrastructure, necessitate additional capital investment in the
4 distribution and treatment of water, exacerbating the pressure on free cash flows
5 arising from increased capital expenditures for infrastructure repair and
6 replacement. The significant amount of capital investment and, hence, high
7 capital intensity, is a major risk factor for the water and wastewater utility
8 industry.

9 *Value Line Investment Survey* (“*Value Line*”) observes the following about
10 the water utility industry:

11 After decades of under investment, American utilities are
12 now spending heavily to modernize and upgrade aging
13 pipelines and wastewater facilities. Funding these projects
14 requires significant amounts of capital, much of it coming
15 from external financing.

16 * * *

17 Utilities understand that they are being granted a monopoly
18 of a vital resource and must provide good service. The
19 regulatory climate is much more favorable in the water
20 industry compared to that of other the electric utility
21 industry.⁵

22 The water and wastewater industry also experience low depreciation
23 rates. Depreciation rates are one of the principal sources of internal cash flows
24 for all utilities (through a utility’s depreciation expense), and are vital for a
25 company to fund ongoing replacements and repairs of water and wastewater
26 systems. Water / wastewater utility assets have long lives, and therefore have

⁵ *Value Line Investment Survey*, October 9, 2020.

1 long capital recovery periods. As such, they face greater risk due to inflation,
2 which results in a higher replacement cost per dollar of net plant.

3 Substantial capital expenditures, as noted by *Value Line*, will require
4 significant financing. The three sources of financing typically used are debt,
5 equity (common and preferred), and cash flow. All three are intricately linked to
6 the opportunity to earn a sufficient rate of return as well as the ability to achieve
7 that return. Consistent with *Hope* and *Bluefield*, the return must be sufficient to
8 maintain credit quality as well as enable the attraction of necessary new capital,
9 be it debt or equity capital. If unable to raise debt or equity capital, the utility
10 must turn to either retained earnings or free cash flow,⁶ both of which are directly
11 linked to earning a sufficient rate of return. The level of free cash flow represents
12 a utility's ability to meet the needs of its debt and equity holders. If either
13 retained earnings or free cash flow is inadequate, it will be nearly impossible for
14 the utility to attract the needed capital for new infrastructure investment
15 necessary to ensure quality service to its customers. An insufficient rate of return
16 can be financially devastating for utilities as well as a public safety issue for their
17 customers.

18 The water and wastewater utility industry's high degree of capital intensity
19 and low depreciation rates, coupled with the need for substantial infrastructure
20 capital spending, require regulatory support in the form of adequate and timely
21 rate relief, and in particular, a sufficient authorized return on common equity, so
22 that the industry can successfully meet the challenges it faces.

⁶ Free Cash Flow = Operating Cash Flow (Funds From Operations) minus Capital Expenditures.

1 **B. FINANCIAL RISK**

2 **Q. Please define financial risk and explain why it is important to the**
3 **determination of a fair rate of return.**

4 A. Financial risk is the additional risk created by the introduction of debt and
5 preferred stock into the capital structure. The higher the proportion of debt and
6 preferred stock in the capital structure, the higher the financial risk (*i.e.* likelihood
7 of default). Therefore, consistent with the basic financial principle of risk and
8 return, investors demand a higher common equity return as compensation for
9 bearing higher default risk.

10 **Q. Can bond and credit ratings be a proxy for the combined business and**
11 **financial risk (*i.e.*, investment risk of an enterprise)?**

12 A. Yes, similar bond ratings/issuer credit ratings reflect, and are representative of,
13 similar combined business and financial risks (*i.e.*, total risk) faced by bond
14 investors.⁷ Although specific business or financial risks may differ between
15 companies, the same bond/credit rating indicates that the combined risks are
16 roughly similar, albeit not necessarily equal, as the purpose of the bond/credit
17 rating process is to assess credit quality or credit risk, and not common equity
18 risk.

⁷ Risk distinctions within S&P's bond rating categories are recognized by a plus or minus, *i.e.*, within the A category, an S&P rating can be at A+, A, or A-. Similarly, risk distinctions for Moody's ratings are distinguished by numerical rating gradations, *i.e.*, within the A category, a Moody's rating can be A1, A2 and A3.

1 **Q. That being said, do rating agencies reflect company size in their bond**
2 **ratings?**

3 A. No. Neither S&P nor Moody's have minimum company size requirements for any
4 given rating level. This means, all else equal, a relative size analysis needs to be
5 conducted for companies with similar bond ratings.

6 **V. AQUARION WATER COMPANY OF NEW HAMPSHIRE AND THE UTILITY**
7 **PROXY GROUP**

8 **Q. Are you familiar with the operations of AWNH?**

9 A. Yes. AWNH's operations serve approximately 9,541 customers in three
10 communities within Rockingham County in New Hampshire. As a wholly-owned
11 subsidiary of Aquarion Water Company, which is a wholly-owned subsidiary of
12 Eversource Energy, AWNH is not publicly-traded.

13 **Q. Please explain how you chose your Utility Proxy Group.**

14 A. The basis of selection for the Utility Proxy Group was to select those companies
15 which meet the following criteria:

16 (i) They are included in the Water Utility Group of *Value Line's Standard*
17 *Edition* (October 9, 2020);

18 (ii) They have 70% or greater of 2019 total operating income and 70% or
19 greater of 2019 total assets attributable to regulated water operations;

20 (iii) At the time of preparation of this testimony, they had not publicly
21 announced that they were involved in any major merger or acquisition
22 activity (*i.e.*, one publicly-traded utility merging with or acquiring another);

23 (iv) They have not cut or omitted their common dividends during the five years
24 ending 2019 or through the time of the preparation of this testimony;

1 (v) They have *Value Line* and Bloomberg Professional Services
2 (“Bloomberg”) adjusted betas;

3 (vi) They have a positive *Value Line* five-year dividends per share (“DPS”)
4 growth rate projection; and

5 (vii) They have *Value Line*, Zacks, Yahoo! Finance, or Bloomberg consensus
6 five-year earnings per share (“EPS”) growth rate projections.

7 The following seven companies met these criteria: American States Water
8 Co., American Water Works Co., Inc., California Water Service Group, Essential
9 Utilities, Inc., Middlesex Water Co., SJW Corp., and York Water Co.

10 **Q. Please describe Attachment DWD-2, page 1.**

11 A. Page 1 of Attachment DWD-2 contains comparative capitalization and financial
12 statistics for the Utility Proxy Group identified above for the years 2015 to 2019.
13 During the five-year period ending 2019, the historically achieved average
14 earnings rate on book common equity for the group averaged 10.45%. The
15 average common equity ratio based on total capital (including short-term debt)
16 was 51.09%, and the average dividend payout ratio was 60.34%.

17 Total debt to earnings before interest, taxes, depreciation, and
18 amortization for the years 2015 to 2019 ranges between 3.41 and 5.54, with an
19 average of 4.00. Funds from operations to total debt range from 14.49% to
20 25.81%, with an average of 21.64%.

1 **VI. CAPITAL STRUCTURE**

2 **Q. What capital structure ratios do you recommend be employed in**
3 **developing an overall fair rate of return appropriate for the Company?**

4 A. I recommend the use of the actual test year capital structure of AWNH at
5 December 31, 2019, which consists of 43.85% long-term debt, 3.78% short-term
6 debt, 0.01% preferred equity, and 52.36% common equity as shown on page 1 of
7 Attachment DWD-1.

8 **Q. How does your proposed ratemaking common equity ratio of 52.36% for**
9 **AWNH compare with the equity ratios maintained by the companies in your**
10 **Utility Proxy Group?**

11 A. My proposed ratemaking common equity ratio of 52.36% for AWNH is
12 reasonable and consistent with the range of common equity ratios maintained, on
13 average, by the companies in the Utility Proxy Group on which I base my
14 recommended common equity cost rate. As shown on page 2 of Attachment
15 DWD-2, the common equity ratios of the Utility Proxy Group range from 38.48%
16 to 57.05% in 2019. In my opinion, AWNH's actual capital structure consisting of
17 43.85% long-term debt, 3.78% short-term debt, 0.01% preferred equity, and
18 52.36% common equity is appropriate. This is how AWNH is actually financed,
19 and is comparable to the range of capital structure ratios (based on total capital)
20 maintained by the companies in the Utility Proxy Group, on whose market data I
21 base my recommended common equity cost rate.

1 **Q. What cost rates are most appropriate for use in a cost of capital**
2 **determination for AWNH?**

3 A. The Company's actual long- and short-term debt cost rates at December 31,
4 2019 of 6.14% and 2.42%, respectively, are reasonable and appropriate for use
5 in the calculation of the overall cost of capital in this proceeding. Likewise, the
6 actual preferred equity cost rate of 6.00% should be approved by the
7 Commission.

8 **VII. COMMON EQUITY COST RATE MODELS**

9 **Q. Are your cost of common equity models market-based models?**

10 A. Yes. The DCF model is market-based because market prices are used in
11 developing the dividend yield component of the model. The RPM is market-
12 based because the bond ratings and expected bond yields used in the
13 application of the RPM reflect the market's assessment of bond/credit risk. In
14 addition, the use of beta coefficients (β) to determine the equity risk premium
15 reflects the market's assessment of market/systematic risk, since beta
16 coefficients are derived from regression analyses of market prices. The
17 Predictive Risk Premium Model ("PRPM") uses monthly market returns in
18 addition to expectations of the risk-free rate. The CAPM is market-based for
19 many of the same reasons that the RPM is market-based (*i.e.*, the use of
20 expected bond yields and beta coefficients). Selection of the comparable risk
21 non-price regulated companies is market-based because it is based on statistics
22 which result from regression analyses of market prices and reflect the market's
23 assessment of total risk.

1 **A. DISCOUNTED CASH FLOW MODEL**

2 **Q. What is the theoretical basis of the DCF model?**

3 A. The theory underlying the DCF model is that the present value of an expected
4 future stream of net cash flows during the investment holding period can be
5 determined by discounting those cash flows at the cost of capital, or the
6 investors' capitalization rate. DCF theory indicates that an investor buys a stock
7 for an expected total return rate, which is derived from cash flows received in the
8 form of dividends plus appreciation in market price (the expected growth rate).
9 Mathematically, the dividend yield on market price plus a growth rate equals the
10 capitalization rate, *i.e.*, the total common equity return rate expected by investors.

11 **Q. Which version of the DCF model did you use?**

12 A. I used the single-stage constant growth DCF model.

13 **Q. Please describe the dividend yield you used in your application of the DCF
14 model.**

15 A. The unadjusted dividend yields are based on the proxy companies' dividends as
16 of October 16, 2020, divided by the average of closing market prices for the 60
17 trading days ending October 16, 2020.⁸

18 **Q. Please explain your adjustment to the dividend yield.**

19 A. Because dividends are paid periodically (quarterly), as opposed to continuously
20 (daily), an adjustment must be made to the dividend yield. This is often referred
21 to as the discrete, or the Gordon Periodic, version of the DCF model.

22 DCF theory calls for the use of the full growth rate, or D_1 , in calculating the
23 dividend yield component of the model. Since the various companies in the

⁸ See Attachment DWD-3, page 1, Column 1.

1 Utility Proxy Group increase their quarterly dividend at various times during the
2 year, a reasonable assumption is to reflect one-half the annual dividend growth
3 rate in the dividend yield component, or $D_{1/2}$. Because the dividend should be
4 representative of the next 12-month period, my adjustment is a conservative
5 approach that does not overstate the dividend yield. Therefore, the actual
6 average dividend yields in Column 1 on page 1 of Attachment DWD-3 have been
7 adjusted upward to reflect one-half the average projected growth rate shown in
8 Column 6.

9 **Q. Please explain the basis of the growth rates you applied to the Utility Proxy**
10 **Group in your DCF model.**

11 A. Investors with more limited resources than institutional investors are likely to rely
12 on widely available financial information services, such as *Value Line*, *Zacks*,
13 *Yahoo! Finance*, and *Bloomberg*. Investors realize that analysts have significant
14 insight into the dynamics of the industries and individual companies they analyze,
15 as well as companies' abilities to effectively manage the effects of changing laws
16 and regulations, and ever-changing economic and market conditions. For these
17 reasons, I used analysts' five-year forecasts of EPS growth in my DCF analysis.

18 Over the long run, there can be no growth in DPS without growth in EPS.
19 Security analysts' earnings expectations have a more significant influence on
20 market prices than dividend expectations. Thus, the use of earnings growth
21 rates in a DCF analysis provides a better match between investors' market price
22 appreciation expectations and the growth rate component of the DCF.

1 **Q. Please summarize the DCF model results.**

2 A. As shown on page 1 of Attachment DWD-3, the mean result of the application of
3 the single-stage DCF model is 9.19%, the median result is 8.99%, and the
4 average of the two is 9.09% for the Utility Proxy Group. In arriving at a
5 conclusion for the DCF-indicated common equity cost rate for the Utility Proxy
6 Group, I have relied on an average of the mean and the median results of the
7 DCF. This approach takes into consideration all the proxy companies' results,
8 while mitigating the high and low outliers of those individual results.

9 **B. THE RISK PREMIUM MODEL**

10 **Q. Please describe the theoretical basis of the RPM.**

11 A. The RPM is based on the fundamental financial principle of risk and return,
12 namely, that investors require greater returns for bearing greater risk. The RPM
13 recognizes that common equity capital has greater investment risk than debt
14 capital, as common equity shareholders are behind debt holders in any claim on
15 a company's assets and earnings. As a result, investors require higher returns
16 from common stocks than from investment in bonds, to compensate them for
17 bearing the additional risk.

18 While it is possible to directly observe bond returns and yields, investors'
19 required common equity return cannot be directly determined or observed.
20 According to RPM theory, one can estimate a common equity risk premium over
21 bonds (either historically or prospectively), and use that premium to derive a cost
22 rate of common equity. The cost of common equity equals the expected cost
23 rate for long-term debt capital plus a risk premium over that cost rate to
24 compensate common shareholders for the added risk of being unsecured and

1 last-in-line for any claim on the corporation's assets and earnings in the event of
2 a liquidation.

3 **Q. Please explain how you derived your indicated cost of common equity**
4 **based on the RPM.**

5 A. I relied on the results of the application of two risk premium methods. The first
6 method is the PRPM, while the second method is a risk premium model using a
7 total market approach.

8 **Q. Please explain the PRPM.**

9 A. The PRPM, published in the *Journal of Regulatory Economics* and *The Electricity*
10 *Journal*⁹, was developed from the work of Robert F. Engle who shared the Nobel
11 Prize in Economics in 2003 "for methods of analyzing economic time series with
12 time-varying volatility ("ARCH")".¹⁰ Engle found that volatility changes over time
13 and is related from one period to the next, especially in financial markets. Engle
14 discovered that the volatility in prices and returns clusters over time and is
15 therefore highly predictable and can be used to predict future levels of risk and
16 risk premiums.

17 The PRPM estimates the risk / return relationship directly, as the predicted
18 equity risk premium is generated by the prediction of volatility or risk. The PRPM
19 is not based on an estimate of investor behavior, but rather on the evaluation of
20 the results of that behavior (*i.e.*, the variance of historical equity risk premiums).

⁹ Autoregressive conditional heteroscedasticity. See "A New Approach for Estimating the Equity Risk Premium for Public Utilities", Pauline M. Ahern, Frank J. Hanley and Richard A. Michelfelder, Ph.D. The Journal of Regulatory Economics (December 2011), 40:261-278 and "Comparative Evaluation of the Predictive Risk Premium Model, the Discounted Cash Flow Model and the Capital Asset Pricing Model for Estimating the Cost of Common Equity", Richard A. Michelfelder, Ph.D, Pauline M. Ahern, Dylan W. D'Ascendis, and Frank J. Hanley, The Electricity Journal (May 2013), 84-89.

¹⁰ www.nobelprize.org.

1 The inputs to the model are the historical returns on the common shares
2 of each company in the Utility Proxy Group minus the historical monthly yield on
3 long-term U.S. Treasury securities through September 2020. Using a
4 generalized form of ARCH, known as GARCH, I calculated each Utility Proxy
5 Group company's projected equity risk premium using Eviews[®] statistical
6 software. When the GARCH Model is applied to the historical return data, it
7 produces a predicted GARCH variance series¹¹ and a GARCH coefficient¹².
8 Multiplying the predicted monthly variance by the GARCH coefficient, then
9 annualizing it¹³, produces the predicted annual equity risk premium. I then added
10 the forecasted 30-year U.S. Treasury Bond yield, 2.11%¹⁴, to each company's
11 PRPM-derived equity risk premium to arrive at an indicated cost of common
12 equity. The 30-year Treasury yield is a consensus forecast derived from the Blue
13 Chip Financial Forecasts ("Blue Chip")¹⁵. The mean PRPM indicated common
14 equity cost rate for the Utility Proxy Group is 11.20%, the median is 10.43%, and
15 the average of the two is 10.82%. Consistent with my reliance on the average of
16 the median and mean results of the DCF, I relied on the average of the mean
17 and median results of the Utility Proxy Group PRPM to calculate a cost of
18 common equity rate of 10.82%.

19 **Q. Please explain the total market approach RPM.**

20 A. The total market approach RPM adds a prospective public utility bond yield to an
21 average of: 1) an equity risk premium that is derived from a beta-adjusted total

¹¹ Illustrated on Columns 1 and 2 of page 2 of Attachment DWD-4.

¹² Illustrated on Column 4 of page 2 of Attachment DWD-4.

¹³ Annualized Return = $(1 + \text{Monthly Return})^{12} - 1$

¹⁴ See, Column 6 of page 2 of Attachment DWD-4.

¹⁵ Blue Chip Financial Forecasts, June 1, 2020 at p. 14 and October 1, 2020 at p. 2.

1 market equity risk premium, and 2) an equity risk premium based on the S&P
2 Utilities Index.

3 **Q. Please explain the basis of the expected bond yield of 3.56% applicable to**
4 **the Utility Proxy Group.**

5 A. The first step in the total market approach RPM analysis is to determine the
6 expected bond yield. Because both ratemaking and the cost of capital, including
7 common equity cost rate, are prospective in nature, a prospective yield on
8 similarly-rated long-term debt is essential. I rely on a consensus forecast of
9 about 50 economists of the expected yield on Aaa-rated corporate bonds for the
10 six calendar quarters ending with the first calendar quarter of 2022 and the long-
11 term projections for 2022 to 2026, and 2027 to 2031 from *Blue Chip*. As shown
12 on line No. 1 of page 3 of Attachment DWD-4, the average expected yield on
13 Moody's Aaa-rated corporate bonds is 2.96%. In order to derive an expected
14 yield on A2-rated public utility bonds, I make an upward adjustment of 0.54%,
15 which represents a recent spread between Aaa-rated corporate bonds and A2-
16 rated public utility bonds, in order to adjust the expected Aaa-rated corporate
17 bond yield to an equivalent Moody's A2-rated public utility bond.¹⁶ Adding that
18 recent 0.54% spread to the expected Aaa-rated corporate bond yield of 2.96%
19 results in an expected A2 public utility bond of 3.50%.

20 Since the Utility Proxy Group's average Moody's long-term issuer rating is
21 A2/A3, another adjustment to the expected A2-rated public utility bond yield is
22 needed to reflect the difference in bond ratings. An upward adjustment of 0.06%,
23 which represents one-sixth of a recent spread between A2- and Baa2-rated

¹⁶ As shown on Line No. 2 and explained in Note 2 of page 3 of Attachment DWD-4.

1 public utility bond yields, is necessary to make the A2-rated prospective bond
2 yield applicable to an A2/A3-rated public utility bond.¹⁷ Adding the 0.06% to the
3 3.50% prospective A2-rated public utility bond yield results in a 3.56% expected
4 bond yield for the Utility Proxy Group.

5 **Q. Please explain how the beta-derived equity risk premium is determined.**

6 A. The components of the beta-derived risk premium model are: 1) an expected
7 market equity risk premium over corporate bonds, and 2) the beta coefficient.
8 The derivation of the beta-derived equity risk premium that I applied to the Utility
9 Proxy Group is shown on lines 1 through 9 of page 8 of Attachment DWD-4. The
10 total beta-derived equity risk premium I applied was based on an average of: 1)
11 Ibbotson-based equity risk premiums; 2) *Value Line*-based equity risk premiums;
12 and 3) Bloomberg-based equity risk premium. Each of these is described in turn.

13 **Q. How did you derive a market equity risk premium based on long-term
14 historical data?**

15 A. To derive a historical market equity risk premium, I used the most recent holding
16 period returns for the large company common stocks from the Stocks, Bonds,
17 Bills, and Inflation ("SBBI") 2020 Yearbook ("SBBI – 2020")¹⁸ less the average
18 historical yield on Moody's Aaa/Aa-rated corporate bonds for the period 1928 to
19 2019. The use of holding period returns over a very long period of time is
20 appropriate because it is consistent with the long-term investment horizon
21 presumed by investing in a going concern, *i.e.*, a company expected to operate in
22 perpetuity.

¹⁷ As shown on Line No. 4 and explained in Note 3 on page 3 of Attachment DWD-4.
¹⁸ SBBI Appendix A Tables: Morningstar Stocks, Bonds, Bills, & Inflation 1926-2019.

1 SBBI's long-term arithmetic mean monthly total return rate on large
2 company common stocks was 11.83% and the long-term arithmetic mean
3 monthly yield on Moody's Aaa/Aa-rated corporate bonds was 6.05%.¹⁹ As shown
4 on line 1 of page 8 of Attachment DWD-4, subtracting the mean monthly bond
5 yield from the total return on large company stocks results in a long-term
6 historical equity risk premium of 5.78%.

7 I used the arithmetic mean monthly total return rates for the large
8 company stocks and yields (income returns) for the Moody's Aaa/Aa corporate
9 bonds, because they are appropriate for the purpose of estimating the cost of
10 capital as noted in SBBI – 2020.²⁰ The use of the arithmetic mean return rates
11 and yields is appropriate because historical total returns and equity risk
12 premiums provide insight into the variance and standard deviation of returns
13 needed by investors in estimating future risk when making a current investment.
14 If investors relied on the geometric mean of historical equity risk premiums, they
15 would have no insight into the potential variance of future returns because the
16 geometric mean relates the change over many periods to a constant rate of
17 change, thereby obviating the year-to-year fluctuations, or variance, which is
18 critical to risk analysis.

19 **Q. Please explain the derivation of the regression-based market equity risk
20 premium.**

21 A. To derive the regression analysis-derived market equity risk premium of 9.42%,
22 shown on line 2 of page 8 of Attachment DWD-4, I used the same monthly
23 annualized total returns on large company common stocks relative to the monthly

¹⁹ As explained in Note 1 on page 9 of Attachment DWD-4.
²⁰ SBBI – 2020, at 10-22.

1 annualized yields on Moody's Aaa/Aa-rated corporate bonds as mentioned
2 above. The relationship between interest rates and the market equity risk
3 premium was modeled using the observed monthly market equity risk premium
4 as the dependent variable, and the monthly yield on Moody's Aaa/Aa-rated
5 corporate bonds as the independent variable. I used a linear Ordinary Least
6 Squares ("OLS") regression, in which the market equity risk premium is
7 expressed as a function of the Moody's Aaa/Aa-rated corporate bonds yield:

8
$$RP = \alpha + \beta (R_{Aaa/Aa})$$

9 **Q. Please explain the derivation of a PRPM equity risk premium.**

10 A. I used the same PRPM approach described previously to develop another equity
11 risk premium estimate. The inputs to the model are the historical monthly returns
12 on large company common stocks minus the monthly yields on Aaa/Aa-rated
13 corporate bonds during the period from January 1928 through September 2020.²¹
14 Using the previously discussed generalized form of ARCH, known as GARCH,
15 the projected equity risk premium is determined using Eviews[®] statistical
16 software. The resulting PRPM predicted market equity risk premium is 9.54%.²²

17 **Q. Please explain the derivation of a projected equity risk premium based on**
18 ***Value Line* data for your RPM analysis.**

19 A. As noted previously, because both ratemaking and the cost of capital are
20 prospective, a prospective market equity risk premium is needed. The derivation
21 of the forecasted or prospective market equity risk premium can be found in Note
22 4 on page 9 of Attachment DWD-4. Consistent with my calculation of the

²¹ Data from January 1928-December 2019 is from SBBI – 2019. Data from January – September 2020 is from Bloomberg Professional Services.

²² Shown on Line No. 3 on page 8 of Attachment DWD-4.

1 dividend yield component in my DCF analysis, this prospective market equity risk
2 premium is derived from an average of the three- to five-year median market
3 price appreciation potential by *Value Line* for the 13 weeks ending October 16,
4 2020, plus an average of the median estimated dividend yield for the common
5 stocks of the 1,700 firms covered in *Value Line*'s Standard Edition.²³

6 The average median expected price appreciation is 54%, which translates
7 to an 11.40% annual appreciation, and when added to the average of *Value*
8 *Line*'s median expected dividend yields of 2.29%, equates to a forecasted annual
9 total return rate on the market of 13.69%. The forecasted Aaa-rated bond yield
10 of 2.96% is deducted from the total market return of 13.69%, resulting in an
11 equity risk premium of 10.73%, shown on page 8, line 4 of Attachment DWD-4.

12 **Q. Please explain the derivation of an equity risk premium based on the S&P**
13 **500 companies.**

14 A. Using data from *Value Line*, I calculated an expected total return on the S&P 500
15 using expected dividend yields and long-term growth estimates as a proxy for
16 capital appreciation. The expected total return for the S&P 500 is 13.95%.
17 Subtracting the prospective yield on Aaa-rated Corporate bonds of 2.96% results
18 in a 10.99% projected equity risk premium.

19 **Q. Please explain the derivation of an equity risk premium based on**
20 **Bloomberg data.**

21 A. Using data from Bloomberg, I calculated an expected total return on the S&P 500
22 using expected dividend yields and long-term growth estimates as a proxy for
23 capital appreciation, identical to the method described above. The expected total

²³ As explained in detail in page 2, Note 1 of Attachment DWD-5.

1 return for the S&P 500 is 13.70%. Subtracting the prospective yield on Aaa-rated
2 Corporate bonds of 2.96% results in a 10.74% projected equity risk premium.

3 **Q. What is your conclusion of a beta-derived equity risk premium for use in**
4 **your RPM analysis?**

5 A. I gave equal weight to the six equity risk premiums in arriving at my conclusion of
6 9.53%.²⁴

7 After calculating the average market equity risk premium of 9.53%, I
8 adjusted it by beta to account for the risk of the Utility Proxy Group. As
9 discussed below, the beta coefficient is a meaningful measure of prospective
10 relative risk to the market as a whole and is a logical means by which to allocate
11 a company's, or proxy group's, share of the market's total equity risk premium
12 relative to corporate bond yields. As shown on page 1 of Attachment DWD-5,
13 the average of the mean and median beta coefficient for the Utility Proxy Group
14 is 0.81. Multiplying the beta coefficient of the Utility Proxy Group of 0.81 by the
15 market equity risk premium of 9.53% results in a beta-adjusted equity risk
16 premium of 7.72% for the Utility Proxy Group.

17 **Q. How did you derive the equity risk premium based on the S&P Utility Index**
18 **and Moody's A-rated public utility bonds?**

19 A. I estimated three equity risk premiums based on S&P Utility Index holding
20 returns, and two equity risk premiums based on the expected returns of the S&P
21 Utilities Index, using *Value Line* and Bloomberg data, respectively. Turning first
22 to the S&P Utility Index holding period returns, I derived a long-term monthly
23 arithmetic mean equity risk premium between the S&P Utility Index total returns

²⁴ See, Line No. 7 on page 8 of Attachment DWD-4.

1 of 10.74% and monthly A-rated public utility bond yields of 6.53% from 1928 to
2 2019, to arrive at an equity risk premium of 4.21%.²⁵ I then used the same
3 historical data to derive an equity risk premium of 6.88% based on a regression
4 of the monthly equity risk premiums. The final S&P Utility Index holding period
5 equity risk premium involved applying the PRPM using the historical monthly
6 equity risk premiums from January 1928 to September 2020 to arrive at a PRPM-
7 derived equity risk premium of 5.53% for the S&P Utility Index.

8 I then derived expected total returns on the S&P Utilities Index of 10.18%
9 and 8.94% using data from *Value Line* and Bloomberg, respectively, and
10 subtracted the prospective A2-rated public utility bond yield (3.50%²⁶), which
11 results in risk premiums of 6.68% and 5.44%, respectively. As with the market
12 equity risk premiums, I averaged each risk premium to arrive at my utility-specific
13 equity risk premium of 5.75%.

14 **Q. What is your conclusion of an equity risk premium for use in your total**
15 **market approach RPM analysis?**

16 A. The equity risk premium I applied to the Utility Proxy Group is 6.74%, which is
17 the average of the beta-derived and the S&P utility equity risk premiums of
18 7.72% and 5.75%, respectively.²⁷

²⁵ As shown on Line No. 1 on page 12 of Attachment DWD-4.
²⁶ Derived on Line No. 3 of page 3 of Attachment DWD-4.
²⁷ As shown on page 7 of Attachment DWD-4.

1 **Q. What is the indicated RPM common equity cost rate based on the total**
2 **market approach?**

3 A. As shown on line No. 7 of Attachment DWD-4, page 3, I calculated a common
4 equity cost rate of 10.30% for the Utility Proxy Group based on the total market
5 approach of the RPM.

6 **Q. What are the results of your application of the PRPM and the total market**
7 **approach RPM?**

8 A. As shown on page 1 of Attachment DWD-4, the indicated RPM-derived common
9 equity cost rate is 10.56%, which gives equal weight to the PRPM (10.82%) and
10 the adjusted market approach results (10.30%).

11 **C. THE CAPITAL ASSET PRICING MODEL**

12 **Q. Please explain the theoretical basis of the CAPM.**

13 A. CAPM theory defines risk as the co-variability of a security's returns with the
14 market's returns as measured by the beta coefficient (β). A beta coefficient less
15 than 1.0 indicates lower variability than the market as a whole, while a beta
16 coefficient greater than 1.0 indicates greater variability than the market.

17 The CAPM assumes that all other risk (*i.e.*, all non-market or unsystematic
18 risk) can be eliminated through diversification. The risk that cannot be eliminated
19 through diversification is called market, or systematic, risk. In addition, the
20 CAPM presumes that investors require compensation only for systematic risk,
21 which is the result of macroeconomic and other events that affect the returns on
22 all assets. The model is applied by adding a risk-free rate of return to a market
23 risk premium, which is adjusted proportionately to reflect the systematic risk of

1 the individual security relative to the total market as measured by the beta
2 coefficient. The traditional CAPM model is expressed as:

3
$$R_s = R_f + \beta(R_m - R_f)$$

4 Where: R_s = Return rate on the common stock;

5 R_f = Risk-free rate of return;

6 R_m = Return rate on the market as a whole; and

7 β = Adjusted beta coefficient (volatility of the
8 security relative to the market as a whole).

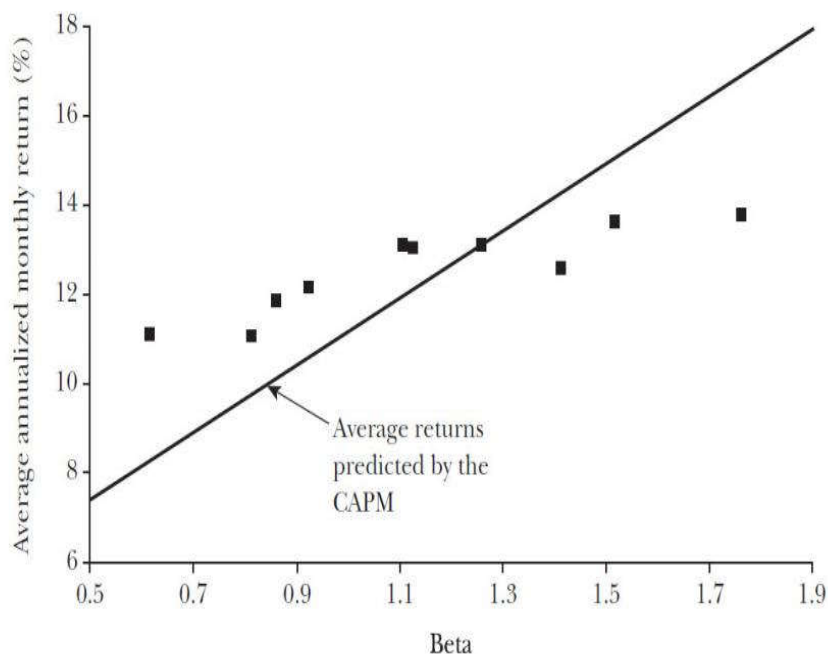
9 Numerous tests of the CAPM have measured the extent to which security
10 returns and beta coefficients are related as predicted by the CAPM, confirming its
11 validity. The empirical CAPM ("ECAPM") reflects the reality that while the results
12 of these tests support the notion that the beta coefficient is related to security
13 returns, the empirical Security Market Line ("SML") described by the CAPM
14 formula is not as steeply sloped as the predicted SML.²⁸ The ECAPM reflects
15 this empirical reality. Fama and French clearly state regarding Figure 2, below,
16 that "[t]he returns on the low beta portfolios are too high, and the returns on the
17 high beta portfolios are too low."²⁹

²⁸ Morin, at 175.

²⁹ Eugene F. Fama and Kenneth R. French, "The Capital Asset Pricing Model: Theory and Evidence", *Journal of Economic Perspectives*, Vol. 18, No. 3, Summer 2004 at 33 ("Fama & French"). <http://pubs.aeaweb.org/doi/pdfplus/10.1257/0895330042162430>

Figure 2 <http://pubs.aeaweb.org/doi/pdfplus/10.1257/0895330042162430>

Average Annualized Monthly Return versus Beta for Value Weight Portfolios Formed on Prior Beta, 1928–2003



1

2

3

4

In addition, Morin observes that while the results of these tests support the notion that beta is related to security returns, the empirical SML described by the CAPM formula is not as steeply sloped as the predicted SML. Morin states:

5

6

7

With few exceptions, the empirical studies agree that ... low-beta securities earn returns somewhat higher than the CAPM would predict, and high-beta securities earn less than predicted.³⁰

8

* * *

9

10

Therefore, the empirical evidence suggests that the expected return on a security is related to its risk by the following approximation:

11

$$K = R_F + x \beta(R_M - R_F) + (1-x) \beta(R_M - R_F)$$

12

13

where x is a fraction to be determined empirically. The value of x that best explains the observed relationship [is] Return = 0.0829 +

³⁰ Morin, at 175.

1 0.0520 β is between 0.25 and 0.30. If $x = 0.25$, the equation
2 becomes:

3
$$K = R_F + 0.25(R_M - R_F) + 0.75 \beta(R_M - R_F)^{31}$$

4 Fama and French provide similar support for the ECAPM when they state:

5 The early tests firmly reject the Sharpe-Lintner version of the
6 CAPM. There is a positive relation between beta and average
7 return, but it is too 'flat.'... The regressions consistently find that the
8 intercept is greater than the average risk-free rate... and the
9 coefficient on beta is less than the average excess market return...
10 This is true in the early tests... as well as in more recent cross-
11 section regressions tests, like Fama and French (1992).³²

12 Finally, Fama and French further note:

13 Confirming earlier evidence, the relation between beta and average
14 return for the ten portfolios is much flatter than the Sharpe-Linter
15 CAPM predicts. The returns on low beta portfolios are too high,
16 and the returns on the high beta portfolios are too low. For
17 example, the predicted return on the portfolio with the lowest beta is
18 8.3 percent per year; the actual return as 11.1 percent. The
19 predicted return on the portfolio with the t beta is 16.8 percent per
20 year; the actual is 13.7 percent.³³

21
22 Clearly, the justification from Morin, Fama, and French along with their
23 reviews of other academic research on the CAPM, validate the use of the
24 ECAPM. In view of theory and practical research, I have applied both the
25 traditional CAPM and the ECAPM to the companies in the Utility Proxy Group
26 and averaged the results.

27 **Q. What beta coefficients did you use in your CAPM analysis?**

28 A. With respect to the beta coefficient, I considered two methods of calculation: the
29 average of the beta coefficients of the Utility Proxy Group companies reported by
30 Bloomberg Professional Services and the average of the beta coefficients of the

³¹ Morin, at 190.

³² Fama & French, at 32.

³³ *Ibid.*, at 33.

1 Utility Proxy Group companies as reported by *Value Line*. While both of those
2 services adjust their calculated (or “raw”) beta coefficients to reflect the tendency
3 of the beta coefficient to regress to the market mean of 1.00, *Value Line*
4 calculates the beta coefficient over a five-year period, while Bloomberg’s
5 calculation is based on two years of data.

6 **Q. Please describe your selection of a risk-free rate of return.**

7 A. As shown in Column 5 on page 1 of Attachment DWD-5, the risk-free rate
8 adopted for both applications of the CAPM is 2.11%. This risk-free rate of 2.11%
9 is based on the average of the *Blue Chip* consensus forecast of the expected
10 yields on 30-year U.S. Treasury bonds for the six quarters ending with the first
11 calendar quarter of 2022, and long-term projections for the years 2022 to 2026
12 and 2027 to 2031.

13 **Q. Why is the yield on long-term U.S. Treasury bonds appropriate for use as**
14 **the risk-free rate?**

15 A. The yield on long-term U.S. Treasury Bonds is almost risk-free and its term is
16 consistent with the long-term cost of capital to public utilities measured by the
17 yields on A-rated public utility bonds; the long-term investment horizon inherent
18 in utilities’ common stocks; and the long-term life of the jurisdictional rate base to
19 which the allowed fair rate of return (*i.e.*, cost of capital) will be applied. In
20 contrast, short-term U.S. Treasury yields are more volatile and largely a function
21 of Federal Reserve monetary policy.

1 **Q. Please explain the estimation of the expected risk premium for the market**
2 **used in your CAPM analyses.**

3 A. The basis of the market risk premium is explained in detail in note 1 on page 2 of
4 Attachment DWD-5. As discussed previously, the market risk premium is derived
5 from an average of:

- 6 (i) Ibbotson-based market risk premiums;
- 7 (ii) *Value Line* data-based market risk premiums; and
- 8 (iii) Bloomberg data-based market risk premium.

9 The long-term income return on U.S. Government Securities of 5.09% was
10 deducted from the SBBI - 2020 monthly historical total market return of 12.10%,
11 which results in an historical market equity risk premium of 7.01%.³⁴ I applied a
12 linear OLS regression to the monthly annualized historical returns on the S&P
13 500 relative to historical yields on long-term U.S. Government Securities from
14 SBBI - 2020. That regression analysis yielded a market equity risk premium of
15 10.18%. The PRPM market equity risk premium is 10.66% and is derived using
16 the PRPM relative to the yields on long-term U.S. Treasury securities from
17 January 1926 through September 2020.

18 The *Value Line*-derived forecasted total market equity risk premium is
19 derived by deducting the forecasted risk-free rate of 2.11%, discussed above,
20 from the *Value Line* projected total annual market return of 13.69%, resulting in a
21 forecasted total market equity risk premium of 11.58%. The S&P 500 projected
22 market equity risk premium using *Value Line* data is derived by subtracting the

³⁴ SBBI - 2020, at Appendix A-1 (1) through .A-1 (3) and Appendix A-7 (19) through A-7 (21).

1 projected risk-free rate of 2.11% from the projected total return of the S&P 500 of
2 13.95%. The resulting market equity risk premium is 11.84%.

3 The S&P 500 projected market equity risk premium using Bloomberg data
4 is derived by subtracting the projected risk-free rate of 2.11% from the projected
5 total return of the S&P 500 of 13.70%. The resulting market equity risk premium
6 is 11.59%.

7 These six market risk premiums, when averaged, result in an average
8 total market equity risk premium of 10.48%.

9 **Q. What are the results of your application of the traditional and empirical**
10 **CAPM to the Utility Proxy Group?**

11 A. As shown on page 1 of Attachment DWD-5, the mean result of my
12 CAPM/ECAPM analyses is 10.61%, the median is 11.12%, and the average of
13 the two is 10.87%. Consistent with my reliance on the average of mean and
14 median DCF results discussed above, the indicated common equity cost rate
15 using the CAPM/ECAPM is 10.87%.

16 **D. COMMON EQUITY COST RATES FOR A PROXY GROUP OF**
17 **DOMESTIC, NON-PRICE REGULATED COMPANIES BASED ON THE**
18 **DCF, RPM, AND CAPM**

19 **Q. Why did you also consider a proxy group of domestic, non-price regulated**
20 **companies?**

21 A. In the *Hope* and *Bluefield* cases, the U.S. Supreme Court did not specify that
22 comparable risk companies had to be utilities. Since the purpose of rate
23 regulation is to be a substitute for the competition of the marketplace, non-price
24 regulated firms operating in the competitive marketplace make an excellent proxy
25 if they are comparable in total risk to the Utility Proxy Group being used to

1 estimate the cost of common equity. The selection of such domestic, non-price
2 regulated competitive firms theoretically and empirically results in a proxy group
3 which is comparable in total risk to the Utility Proxy Group.

4 **Q. How did you select non-price regulated companies that are comparable in**
5 **total risk to the Utility Proxy Group?**

6 A. In order to select a proxy group of domestic, non-price regulated companies
7 similar in total risk to the Utility Proxy Group, I relied on the beta coefficients and
8 related statistics derived from *Value Line* regression analyses of weekly market
9 prices over the most recent 260 weeks (*i.e.*, five years). Using these selection
10 criteria resulted in a proxy group of 23 domestic, non-price regulated firms
11 comparable in total risk to the Utility Proxy Group. Total risk is the sum of non-
12 diversifiable market risk and diversifiable company-specific risks. The criteria
13 used in the selection of the domestic, non-price regulated firms was:

- 14 (i) They must be covered by *Value Line Investment Survey* (Standard
15 Edition);
- 16 (ii) They must be domestic, non-price regulated companies, *i.e.*, non-utilities;
- 17 (iii) Their beta coefficients must lie within plus or minus two standard
18 deviations of the average unadjusted beta coefficient of the Utility Proxy
19 Group; and
- 20 (iv) The residual standard errors of the *Value Line* regressions which gave rise
21 to the unadjusted beta coefficients must lie within plus or minus two
22 standard deviations of the average residual standard error of the Utility
23 Proxy Group.

1 Beta coefficients are a measure of market or systematic risk, which is not
2 diversifiable. The residual standard errors of the regressions were used to
3 measure each firm's company-specific, diversifiable risk. Companies that have
4 similar beta coefficients and similar residual standard errors resulting from the
5 same regression analyses have similar total investment risk.

6 **Q. Have you prepared an attachment which shows the data from which you**
7 **selected the 23 domestic, non-price regulated companies that are**
8 **comparable in total risk to the Utility Proxy Group?**

9 A. Yes, the basis of my selection, and both proxy groups' regression statistics, are
10 shown in Attachment DWD-6.

11 **Q. Did you calculate common equity cost rates using the DCF, RPM, and**
12 **CAPM for the Non-Price Regulated Proxy Group?**

13 A. Yes. Because the DCF, RPM, and CAPM have been applied in an identical
14 manner as described above, I will not repeat the details of the rationale and
15 application of each model. One exception is in the application of the RPM, where
16 I did not use public utility-specific equity risk premiums, nor did I apply the PRPM
17 to the individual companies.

18 Page 2 of Attachment DWD-7 contains the derivation of the DCF cost
19 rates. As shown, the indicated common equity cost rate using the DCF for the
20 Non-Price Regulated Proxy Group comparable in total risk to the Utility Proxy
21 Group, is 10.26%.

22 Pages 3 through 5 contain the data and calculations that support the
23 11.50% RPM cost rate. As shown on Line No. 1 of page 3 of Attachment DWD-
24 7, the consensus prospective yield on Moody's Baa-rated corporate bonds for the

1 six quarters ending in the first quarter of 2022, and for the years 2022 to 2026
2 and 2027 to 2031, is 4.08%.³⁵ Because the Non-Price Regulated Proxy Group
3 has an average Moody's bond rating of Baa1, a downward adjustment of 0.20%
4 to the prospective Baa2-rated bond yield is necessary to reflect the difference in
5 bond ratings.³⁶ Subtracting 0.20% from the prospective Baa2-rated bond yield of
6 4.08% is 3.88%.

7 When the beta-adjusted risk premium of 7.62%³⁷ relative to the Non-Price
8 Regulated Proxy Group is added to the prospective Baa1-rated corporate bond
9 yield of 3.88%, the indicated RPM cost rate is 11.50%.

10 Page 6 contains the inputs and calculations that support my indicated
11 CAPM/ECAPM cost rate of 10.70%.

12 **Q. What is the cost rate of common equity based on the Non-Price Regulated**
13 **Proxy Group comparable in total risk to the Utility Proxy Group?**

14 A. As shown on page 1 of Attachment DWD-7, the results of the DCF, RPM, and
15 CAPM applied to the Non-Price Regulated Proxy Group comparable in total risk
16 to the Utility Proxy Group are 10.26%, 11.50%, and 10.70%, respectively. The
17 average of the mean and median of these models is 10.76%, which I used as the
18 indicated common equity cost rate for the Non-Price Regulated Proxy Group.

³⁵ *Blue Chip Financial Forecasts*, June 1, 2020, at p. 14 and October 1, 2020, at p. 2.

³⁶ As demonstrated on Attachment DWD-7, page 3, note 2.

³⁷ Derived on page 5 of Attachment DWD-7.

1 **VIII. CONCLUSION OF COMMON EQUITY COST RATE BEFORE ADJUSTMENT**

2 **Q. What is the indicated range of common equity cost rates before**
3 **adjustment?**

4 A. Based on the results of the application of multiple cost of common equity models
5 to the Utility Proxy Group and the Non-Price Regulated Proxy Group, the
6 indicated model results are between 9.09% and 10.87%. I used multiple cost of
7 common equity models as primary tools in arriving at my recommended common
8 equity cost rate, because no single model is so inherently precise that it can be
9 relied on solely to the exclusion of other theoretically sound models. The use of
10 multiple models adds reliability to the estimation of the common equity cost rate,
11 and the prudence of using multiple cost of common equity models is supported in
12 both the financial literature and regulatory precedent.

13 **IX. ADJUSTMENTS TO THE COMMON EQUITY COST RATE**

14 **A. SIZE ADJUSTMENT**

15 **Q. Does AWNH's smaller size compared with the Utility Proxy Group increase**
16 **its business risk?**

17 A. Yes. AWNH's smaller size relative to the Utility Proxy Group companies
18 indicates greater relative business risk for the Company because, all else being
19 equal, size has a material bearing on risk.

20 Size affects business risk because smaller companies generally are less
21 able to cope with significant events that affect sales, revenues, and earnings.
22 For example, smaller companies face more risk exposure to business cycles and
23 economic conditions, both nationally and locally. Additionally, the loss of
24 revenues from a few larger customers would have a greater effect on a small

1 company than on a bigger company with a larger, more diverse, customer base.

2 As further evidence illustrates that smaller firms are riskier, investors
3 generally demand greater returns from smaller firms to compensate for less
4 marketability and liquidity of their securities. Duff & Phelps' 2020 Valuation
5 Handbook – U.S. Guide to Cost of Capital (“D&P - 2020”) discusses the nature of
6 the small-size phenomenon, providing an indication of the magnitude of the size
7 premium based on several measures of size. In discussing “Size as a Predictor
8 of Equity Premiums,” D&P - 2020 states:

9 The size effect is based on the empirical observation that
10 companies of smaller size are associated with greater risk and,
11 therefore, have greater cost of capital [sic]. The “size” of a
12 company is one of the most important risk elements to consider
13 when developing cost of equity capital estimates for use in valuing
14 a business simply because size has been shown to be a *predictor*
15 of equity returns. In other words, there is a significant (negative)
16 relationship between size and historical equity returns - as size
17 *decreases*, returns tend to *increase*, and vice versa. (footnote
18 omitted) (emphasis in original)³⁸

19 Furthermore, in “The Capital Asset Pricing Model: Theory and Evidence,”
20 Fama and French note size is indeed a risk factor which must be reflected when
21 estimating the cost of common equity. On page 14, they note:

22 . . . the higher average returns on small stocks and high book-to-
23 market stocks reflect unidentified state variables that produce
24 undiversifiable risks (covariances) in returns not captured in the
25 market return and are priced separately from market betas.³⁹

26 Based on this evidence, Fama and French proposed their three-factor
27 model which includes a size variable in recognition of the effect size has on the
28 cost of common equity.

29 Also, it is a basic financial principle that the use of funds invested, and not

³⁸ Duff & Phelps 2020 Valuation Handbook – U.S. Guide to Cost of Capital, Wiley 2018, at 4-1.
³⁹ Fama & French, at 25-43.

1 the source of funds, is what gives rise to the risk of any investment.⁴⁰ Eugene

2 Brigham, a well-known authority, states:

3 A number of researchers have observed that portfolios of small-
4 firms (sic) have earned consistently higher average returns than
5 those of large-firm stocks; this is called the “small-firm effect.” On
6 the surface, it would seem to be advantageous to the small firms to
7 provide average returns in a stock market that are higher than
8 those of larger firms. In reality, it is bad news for the small firm;
9 **what the small-firm effect means is that the capital market**
10 **demands higher returns on stocks of small firms than on**
11 **otherwise similar stocks of the large firms.** (emphasis added)⁴¹

12 Consistent with the financial principle of risk and return discussed above,
13 increased relative risk due to small size must be considered in the allowed rate of
14 return on common equity. Therefore, the Commission’s authorization of a cost
15 rate of common equity in this proceeding must appropriately reflect the unique
16 risks of AWNH, including its small size, which is justified and supported above by
17 evidence in the financial literature.

18 **Q. Should the Commission consider AWNH as a stand-alone company?**

19 A. Yes, it should. Because it is AWNH’s rate base to which the overall rates of
20 return set forth in this proceeding will be applied, they should be evaluated as a
21 stand-alone entity. To do otherwise would be discriminatory, confiscatory, and
22 inaccurate. It is also a basic financial precept that the use of the funds invested
23 give rise to the risk of the investment. As Brealey and Myers state:

24 The true cost of capital depends on the use to which the capital is
25 put.

26 ***

27 *Each project should be evaluated at its own opportunity cost of*

⁴⁰ Richard A. Brealey and Stewart C. Myers, Principles of Corporate Finance (McGraw-Hill Book Company, 1996), at 204-205, 229.

⁴¹ Eugene F. Brigham, Fundamentals of Financial Management, Fifth Edition (The Dryden Press, 1989), at 623.

1 *capital; the true cost of capital depends on the use to which the*
2 *capital is put. (italics and bold in original)*⁴²

3 Morin confirms Brealey and Myers when he states:

4 Financial theory clearly establishes that the cost of equity is the
5 risk-adjusted opportunity cost of the investors and not the cost of
6 the specific capital sources employed by the investors. The true
7 cost of capital depends on the use to which the capital is put and
8 not on its source. The Hope and Bluefield doctrines have made
9 clear that the relevant considerations in calculating a company's
10 cost of capital are the alternatives available to investors and the
11 returns and risks associated with those alternatives.⁴³

12 Additionally, Levy and Sarnat state:

13 The firm's cost of capital is the discount rate employed to discount
14 the firm's average cash flow, hence obtaining the value of the firm.
15 It is also the weighted average cost of capital, as we shall see
16 below. The weighted average cost of capital should be employed
17 for project evaluation... only in cases where the risk profile of the
18 new projects is a "carbon copy" of the risk profile of the firm⁴⁴

19 Although Levy and Sarnat discuss a project's cost of capital relative to a
20 firm's cost of capital, these principles apply equally to the use of a proxy group-
21 based cost of capital. Each company must be viewed on its own merits,
22 regardless of the source of its equity capital. As *Bluefield* clearly states:

23 A public utility is entitled to such rates as will permit it to earn a
24 return on the value of the property which it employs for the
25 convenience of the public equal to that generally being made at the
26 same time and in the same general part of the country on
27 investments in other business undertakings which are attended by
28 corresponding risks and uncertainties;⁴⁵

29 In other words, it is the "risks and uncertainties" surrounding the property
30 employed for the "convenience of the public" which determines the appropriate

⁴² Richard A. Brealey and Stewart C. Myers, Principles of Corporate Finance, McGraw-Hill, Third Edition, 1988, at pp. 173, 198.

⁴³ Morin, at 523.

⁴⁴ Haim Levy & Marshall Sarnat, Capital Investment and Financial Decisions, Prentice/Hall International, 1986, at 465.

⁴⁵ *Bluefield*, at 6.

1 level of rates. In this proceeding, the property employed “for the convenience of
2 the public” is the rate base of AWNH. Thus, it is only the risk of investment in
3 AWNH that is relevant to the determination of the cost of common equity to be
4 applied to the common equity-financed portion of that rate base.

5 In addition, in the Fama and French article previously cited, the authors⁴⁶
6 proposed that their three-factor model include the SMB (Small Minus Big) factor,
7 which indicates that small capitalization firms are more risky than large
8 capitalization firms, confirming that size is a risk factor which must be taken into
9 account in estimating the cost of common equity.

10 Consistent with the financial principle of risk and return discussed previously,
11 and the stand-alone nature of ratemaking, an upward adjustment must be
12 applied to the indicated cost of common equity derived from the cost of equity
13 models of the proxy groups used in this proceeding.

14 **Q. Is there a way to quantify a relative risk adjustment due to AWNH’s small
15 size relative to the Utility Proxy Group?**

16 A. Yes. The Company has greater relative risk than the average company in the
17 Utility Proxy Group because of its smaller size compared with the group, as
18 measured by an estimated market capitalization of common equity for AWNH
19 (whose common stock is not publicly-traded).

⁴⁶ Fama & French, at 39.

Table 5: Size as Measured by Market Capitalization for the Company and the Utility Proxy Group

	<u>Market Capitalization*</u> (\$ Millions)	<u>Times Greater than the Company</u>
AWNH	\$54.075	
Utility Proxy Group	\$6,572.792	121.5x

*From page 1 of Attachment DWD-8.

The Company's estimated market capitalization was at \$54.075 million as of October 16, 2020, compared with the market capitalization of the average water company in the Utility Proxy Group of \$6.573 billion as of October 16, 2020. The Utility Proxy Group's market capitalization is 121.5 times the size of AWNH's estimated market capitalization.

As a result, it is necessary to upwardly adjust the indicated range of common equity cost rates to reflect AWNH's greater risk due to its smaller relative size. The determination is based on the size premiums for portfolios of New York Stock Exchange, American Stock Exchange, and NASDAQ listed companies ranked by deciles for the 1926 to 2019 period. The average size premium for the Utility Proxy Group with a market capitalization of \$6.573 billion falls in the 4th decile, while AWNH's market capitalization of \$54.075 million places the Company in the 10th decile. The size premium spread between the 4th decile and the 10th decile is 4.20%. Even though a 4.20% upward size adjustment is indicated, I apply a size premium of 1.00% to AWNH's indicated range of common equity cost rates.

1 **Q. Since AWNH is a wholly-owned subsidiary of Aquarion Water Company,**
2 **which is in turn a wholly-owned subsidiary of Eversource Energy, why is**
3 **the size of Eversource Energy not more appropriate to use when**
4 **determining the size adjustment?**

5 A. As discussed above, the return derived in this proceeding will not apply to
6 Eversource Energy as a whole, but only AWNH. Eversource Energy is the sum of
7 its constituent parts, including those constituent parts' returns on common equity.
8 Potential investors in Eversource Energy are aware that it is a combination of
9 operations in each state, and that each state's operations experience the
10 operating risks specific to their jurisdiction. The market's expectation of
11 Eversource Energy's return is commensurate with the realities of its composite
12 operations in each of the states in which it operates.

13 **B. CONSIDERATION OF REQUESTED MECHANISMS FOR AWNH**

14 **Q. Does AWNH's requested revenue adjustment mechanism ("RAM")**
15 **decrease its required return on common equity?**

16 A. No. The cost of capital is a comparative exercise, so if the mechanism is
17 common throughout the companies on which one bases their analyses on, the
18 comparative risk is zero, because any impact of the perceived reduced risk of the
19 mechanism(s) by investors would be reflected in the market data of the proxy
20 group. To that point, as shown on Attachment DWD-9, every single one of the
21 proxy companies has a Distribution Service Improvement Charge and five of
22 seven of the Utility Proxy Group companies have a RAM-type mechanism in at
23 least one of their jurisdictions.

1 **Q. ARE YOU AWARE OF ANY STUDIES THAT HAVE ADDRESSED THE**
2 **RELATIONSHIP BETWEEN DECOUPLING MECHANISMS, GENERALLY,**
3 **AND the return on common equity?**

4 A. Yes. I, along with Dr. Richard A. Michelfelder of Rutgers University, and my
5 colleague at ScottMadden, Pauline M. Ahern, CRRRA, examined the relationship
6 between decoupling and return on common equity among electric, gas, and
7 water utilities. Using the PRPM, we found decoupling to have no statistically
8 significant effect on investor perceived risk, and hence, the return on common
9 equity.⁴⁷

10 Also, in March 2014, The Brattle Group (“Brattle”) published a study
11 addressing the effect of revenue decoupling structures on the cost of capital for
12 electric utilities.⁴⁸ In its report, which extended a prior analysis focused on
13 natural gas distribution utilities, Brattle pointed out that although decoupling
14 structures may affect revenues, net income still can vary.⁴⁹ Brattle further noted
15 that the distinction between diversifiable and non-diversifiable risk is important to
16 equity investors, and the relationship between decoupling and return on common
17 equity should be examined in that context. Further to that point, Brattle noted
18 that although reductions in total risk may be important to bondholders, only
19 reductions in non-diversifiable business risk would justify a reduction to the return

⁴⁷ Dr. Richard A. Michelfelder, Pauline M. Ahern, Dylan W. D’Ascendis, *The Impact of Decoupling on The Cost of Capital of Public Utilities*, Energy Policy 130 (2019), at 311-319.

⁴⁸ The Brattle Group, *The Impact of Revenue Decoupling on the Cost of Capital for Electric Utilities: An Empirical Investigation*, Prepared for the Energy Foundation, March 20, 2014.

⁴⁹ *Ibid.*, at 7.

1 on common equity.⁵⁰ In November 2016, the Brattle study was updated based
2 on data through the fourth quarter of 2015.⁵¹

3 Brattle's empirical analysis examined the relationship between decoupling
4 and the After-Tax weighted average cost of capital for a group of electric utilities
5 that had implemented decoupling structures in various jurisdictions throughout
6 the United States. As with Brattle's 2014 study, the updated study found no
7 statistically significant link between the cost of capital and revenue decoupling
8 structures.⁵²

9 In view of all of the above, AWNH's return on common equity should not
10 be reduced if the RAM is approved by the Commission in this Docket.

11 **C. FLOTATION COST ADJUSTMENT**

12 **Q. What are flotation costs?**

13 A. Flotation costs are those costs associated with the sale of new issuances of
14 common stock. They include market pressure and the essential costs of
15 issuance (e.g., underwriting fees and out-of-pocket costs for printing, legal,
16 registration, etc.).

17 **Q. Why is it important to recognize flotation costs in the allowed common
18 equity cost rate?**

19 A. It is important because there is no other mechanism in the ratemaking paradigm
20 through which such costs can be recovered. Because these costs are real and
21 legitimate, recovery of these costs should be permitted. As noted by Morin:

⁵⁰ *Ibid.*, at 8.

⁵¹ Michael J. Vilbert, Joseph B. Wharton, Shirley Zhang and James Hall, *Effect on the Cost of Capital of Innovative Ratemaking that Relaxes the Linkage between Revenue and kWh Sales – An Updated Empirical Investigation*, November 2016.

⁵² *Ibid.*

1 The costs of issuing these securities are just as real as
2 operating and maintenance expenses or costs incurred to
3 build utility plants, and fair regulatory treatment must permit
4 recovery of these costs....

5 The simple fact of the matter is that common equity capital is
6 not free....[Flotation costs] must be recovered through a rate
7 of return adjustment.⁵³

8 **Q. Should flotation costs be recognized only when there has been an**
9 **issuance during the test year or there is an imminent post-test year**
10 **issuance of additional common stock?**

11 A. No. As noted above, there is no mechanism to recapture such costs in the
12 ratemaking paradigm other than an adjustment to the allowed common equity
13 cost rate. Flotation costs are charged to capital accounts and are not expensed
14 on a utility's income statement. As such, flotation costs are analogous to capital
15 investments reflected on the balance sheet. Recovery of capital investments
16 relates to the expected useful lives of the investment. Since common equity has
17 a very long and indefinite life (assumed to be infinity in the standard regulatory
18 DCF model), flotation costs should be recovered through an adjustment to
19 common equity cost rate, even when there has not been an issuance during the
20 test year or in the absence of an expected imminent issuance of additional
21 shares of common stock.

22 Historical flotation costs are a permanent loss of investment to the utility
23 and should be accounted for. When any company, including a utility, issues
24 common stock, flotation costs are incurred for legal, accounting, printing fees and
25 the like. For each dollar of issuing market price, a small percentage is expensed
26 and is permanently unavailable for investment in utility rate base. Since these

⁵³ Morin, at p. 321.

1 expenses are charged to capital accounts and not expensed on the income
2 statement, the only way to restore the full value of that dollar of issuing price with
3 an assumed investor required return of 10% is for the net investment, \$0.95, to
4 earn more than 10% to net back to the investor a fair return on that dollar. In
5 other words, if a company issues stock at \$1.00 with 5% in flotation costs, it will
6 net \$0.95 in investment. Assuming the investor in that stock requires a 10%
7 return on his or her invested \$1.00 (*i.e.*, a return of \$0.10), the company needs to
8 earn approximately 10.5% on its invested \$0.95 to receive a \$0.10 return.

9 **Q. Do the common equity cost rate models you have used already reflect**
10 **investors' anticipation of flotation costs?**

11 A. No. All of these models assume no transaction costs. The literature is quite
12 clear that these costs are not reflected in market prices paid for common stocks.
13 For example, Brigham and Daves confirm this and provide the methodology
14 utilized to calculate the flotation adjustment.⁵⁴ In addition, Morin confirms the
15 need for such an adjustment even when no new equity issuance is imminent.⁵⁵
16 Consequently, it is proper to include a flotation cost adjustment when using cost
17 of common equity models to estimate the common equity cost rate.

18 **Q. How did you calculate the flotation cost allowance?**

19 A. I modified the DCF calculation to provide a dividend yield that would reimburse
20 investors for issuance costs in accordance with the method cited in literature by
21 Brigham and Daves, as well as by Morin. The flotation cost adjustment
22 recognizes the costs of issuing equity that were incurred by Eversource Energy,

⁵⁴ Eugene F. Brigham and Phillip R. Daves, *Intermediate Financial Management*, 9th Edition, Thomson/Southwestern, at p. 342.

⁵⁵ Morin, at pp. 327-330.

1 AWNH's parent company, since its acquisition of AWNH. Based upon the
2 issuance costs shown on page 1 of Attachment DWD-10, an adjustment of
3 0.04% is required to reflect the flotation costs applicable to the Company.

4 **Q. What is the indicated range of common equity cost rates after adjustments**
5 **for size, credit risk, and flotation costs?**

6 After applying the 1.00% size adjustment and 0.04% flotation cost adjustment to
7 the indicated range of common equity cost rates between 9.09% and 10.87%,
8 based on the Utility Proxy Group results, a range of common equity cost rates
9 between 10.13% and 11.91% is applicable to AWNH.

10 **X. CONCLUSION OF COMMON EQUITY COST RATE**

11 **Q. What is your recommended common equity cost rate for AWNH?**

12 A. Given the indicated range of common equity cost rates between 9.09% and
13 10.87% applicable to the Utility Proxy Group and 10.13% and 11.91% applicable
14 to AWNH, I conclude that a common equity cost rate of 10.25% for the Company
15 is appropriate.

16 **Q. In your opinion, is your proposed common equity cost rate of 10.25% fair**
17 **and reasonable to AWNH, its shareholders, and its customers?**

18 A. Yes, it is.

19 **Q. Does this conclude your direct testimony?**

20 A. Yes, it does.

Summary

Dylan is an experienced consultant and a Certified Rate of Return Analyst (CRRRA) and Certified Valuation Analyst (CVA). He has served as a consultant for investor-owned and municipal utilities and authorities for 12 years. Dylan has extensive experience in rate of return analyses, class cost of service, rate design, and valuation for regulated public utilities. He has testified as an expert witness in the subjects of rate of return, cost of service, rate design, and valuation before 23 regulatory commissions in the U.S., one Canadian province, and an American Arbitration Association panel.

He also maintains the benchmark index against which the Hennessy Gas Utility Mutual Fund performance is measured.

Areas of Specialization

- Regulation and Rates
- Utilities
- Mutual Fund Benchmarking
- Capital Market Risk
- Financial Modeling
- Valuation
- Regulatory Strategy
- Rate Case Support
- Rate of Return
- Cost of Service
- Rate Design

Recent Expert Testimony Submission/Apearances

Jurisdiction	Topic
■ Massachusetts Department of Public Utilities	Rate of Return
■ New Jersey Board of Public Utilities	Rate of Return
■ Hawaii Public Utilities Commission	Cost of Service, Rate Design
■ South Carolina Public Service Commission	Return on Common Equity
■ American Arbitration Association	Valuation

Recent Assignments

- Provided expert testimony on the cost of capital for ratemaking purposes before numerous state utility regulatory agencies
- Maintains the benchmark index against which the Hennessy Gas Utility Mutual Fund performance is measured
- Sponsored valuation testimony for a large municipal water company in front of an American Arbitration Association Board to justify the reasonability of their lease payments to the City
- Co-authored a valuation report on behalf of a large investor-owned utility company in response to a new state regulation which allowed the appraised value of acquired assets into rate base

Recent Publications and Speeches

- Co-Author of: "Decoupling, Risk Impacts and the Cost of Capital", co-authored with Richard A. Michelfelder, Ph.D., Rutgers University and Pauline M. Ahern. The Electricity Journal, March, 2020.
- Co-Author of: "Decoupling Impact and Public Utility Conservation Investment", co-authored with Richard A. Michelfelder, Ph.D., Rutgers University and Pauline M. Ahern. Energy Policy Journal, 130 (2019), 311-319.
- "Establishing Alternative Proxy Groups", before the Society of Utility and Regulatory Financial Analysts: 51st Financial Forum, April 4, 2019, New Orleans, LA.
- "Past is Prologue: Future Test Year", Presentation before the National Association of Water Companies 2017 Southeast Water Infrastructure Summit, May 2, 2017, Savannah, GA.
- Co-author of: "Comparative Evaluation of the Predictive Risk Premium Model™, the Discounted Cash Flow Model and the Capital Asset Pricing Model", co-authored with Richard A. Michelfelder, Ph.D., Rutgers University, Pauline M. Ahern, and Frank J. Hanley, The Electricity Journal, May, 2013.
- "Decoupling: Impact on the Risk and Cost of Common Equity of Public Utility Stocks", before the Society of Utility and Regulatory Financial Analysts: 45th Financial Forum, April 17-18, 2013, Indianapolis, IN.

SPONSOR	DATE	CASE/APPLICANT	DOCKET NO.	SUBJECT
Regulatory Commission of Alaska				
Alaska Power Company	09/20	Alaska Power Company; Goat Lake Hydro, Inc.; BBL Hydro, Inc.	Tariff Nos. TA886-2; TA6-521; TA4-573	Capital Structure
Alaska Power Company	07/16	Alaska Power Company	Docket No. TA857-2	Rate of Return
Alberta Utilities Commission				
AltaLink, L.P., and EPCOR Distribution & Transmission, Inc.	01/20	AltaLink, L.P., and EPCOR Distribution & Transmission, Inc.	2021 Generic Cost of Capital, Proceeding ID. 24110	Rate of Return
Arizona Corporation Commission				
EPCOR Water Arizona, Inc.	06/20	EPCOR Water Arizona, Inc.	Docket No. WS-01303A-20-0177	Rate of Return
Arizona Water Company	12/19	Arizona Water Company – Western Group	Docket No. W-01445A-19-0278	Rate of Return
Arizona Water Company	08/18	Arizona Water Company – Northern Group	Docket No. W-01445A-18-0164	Rate of Return
Colorado Public Utilities Commission				
Summit Utilities, Inc.	04/18	Colorado Natural Gas Company	Docket No. 18AL-0305G	Rate of Return
Atmos Energy Corporation	06/17	Atmos Energy Corporation	Docket No. 17AL-0429G	Rate of Return
Delaware Public Service Commission				
Delmarva Power & Light Co.	10/20	Delmarva Power & Light Co.	Docket No. 20-0150	Rate of Return
Tidewater Utilities, Inc.	11/13	Tidewater Utilities, Inc.	Docket No. 13-466	Capital Structure
Public Service Commission of the District of Columbia				
Washington Gas Light Company	09/20	Washington Gas Light Company	Formal Case No. 1162	Rate of Return
Federal Energy Regulatory Commission				
LS Power Grid California, LLC	10/20	LS Power Grid California, LLC	Docket No. ER21-195-000	Rate of Return
Florida Public Service Commission				
Peoples Gas System	09/20	Peoples Gas System	Docket No. 20200051-GU	Rate of Return
Utilities, Inc. of Florida	06/20	Utilities, Inc. of Florida	Docket No. 20200139-WS	Rate of Return
Hawaii Public Utilities Commission				
Lanai Water Company, Inc.	12/19	Lanai Water Company, Inc.	Docket No. 2019-0386	Cost of Service / Rate Design
Manele Water Resources, LLC	08/19	Manele Water Resources, LLC	Docket No. 2019-0311	Cost of Service / Rate Design
Kaupulehu Water Company	02/18	Kaupulehu Water Company	Docket No. 2016-0363	Rate of Return
Aqua Engineers, LLC	05/17	Puhi Sewer & Water Company	Docket No. 2017-0118	Cost of Service / Rate Design
Hawaii Resources, Inc.	09/16	Laie Water Company	Docket No. 2016-0229	Cost of Service / Rate Design
Illinois Commerce Commission				
Ameren Illinois Company d/b/a Ameren Illinois	07/20	Ameren Illinois Company d/b/a Ameren Illinois	Docket No. 20-0308	Return on Equity
Utility Services of Illinois, Inc.	11/17	Utility Services of Illinois, Inc.	Docket No. 17-1106	Cost of Service / Rate Design
Aqua Illinois, Inc.	04/17	Aqua Illinois, Inc.	Docket No. 17-0259	Rate of Return

SPONSOR	DATE	CASE/APPLICANT	DOCKET NO.	SUBJECT
Utility Services of Illinois, Inc.	04/15	Utility Services of Illinois, Inc.	Docket No. 14-0741	Rate of Return
Indiana Utility Regulatory Commission				
Aqua Indiana, Inc.	03/16	Aqua Indiana, Inc. Aboite Wastewater Division	Docket No. 44752	Rate of Return
Twin Lakes, Utilities, Inc.	08/13	Twin Lakes, Utilities, Inc.	Docket No. 44388	Rate of Return
Kansas Corporation Commission				
Atmos Energy	07/19	Atmos Energy	19-ATMG-525-RTS	Rate of Return
Louisiana Public Service Commission				
Atmos Energy	04/20	Atmos Energy	Docket No. U-35535	Rate of Return
Louisiana Water Service, Inc.	06/13	Louisiana Water Service, Inc.	Docket No. U-32848	Rate of Return
Maryland Public Service Commission				
Washington Gas Light Company	08/20	Washington Gas Light Company	Case No. 9651	Rate of Return
FirstEnergy, Inc.	08/18	Potomac Edison Company	Case No. 9490	Rate of Return
Massachusetts Department of Public Utilities				
Unitil Corporation	12/19	Fitchburg Gas & Electric Co. (Elec.)	D.P.U. 19-130	Rate of Return
Unitil Corporation	12/19	Fitchburg Gas & Electric Co. (Gas)	D.P.U. 19-131	Rate of Return
Liberty Utilities	07/15	Liberty Utilities d/b/a New England Natural Gas Company	Docket No. 15-75	Rate of Return
Mississippi Public Service Commission				
Atmos Energy	03/19	Atmos Energy	Docket No. 2015-UN-049	Capital Structure
Atmos Energy	07/18	Atmos Energy	Docket No. 2015-UN-049	Capital Structure
Missouri Public Service Commission				
Indian Hills Utility Operating Company, Inc.	10/17	Indian Hills Utility Operating Company, Inc.	Case No. SR-2017-0259	Rate of Return
Raccoon Creek Utility Operating Company, Inc.	09/16	Raccoon Creek Utility Operating Company, Inc.	Docket No. SR-2016-0202	Rate of Return
Public Utilities Commission of Nevada				
Southwest Gas Corporation	08/20	Southwest Gas Corporation	Docket No. 20-02023	Return on Equity
New Jersey Board of Public Utilities				
FirstEnergy	02/20	Jersey Central Power & Light Co.	Docket No. ER20020146	Rate of Return
Aqua New Jersey, Inc.	12/18	Aqua New Jersey, Inc.	Docket No. WR18121351	Rate of Return
Middlesex Water Company	10/17	Middlesex Water Company	Docket No. WR17101049	Rate of Return
Middlesex Water Company	03/15	Middlesex Water Company	Docket No. WR15030391	Rate of Return
The Atlantic City Sewerage Company	10/14	The Atlantic City Sewerage Company	Docket No. WR14101263	Cost of Service / Rate Design
Middlesex Water Company	11/13	Middlesex Water Company	Docket No. WR1311059	Capital Structure
North Carolina Utilities Commission				
Duke Energy Carolinas, LLC	07/20	Duke Energy Carolinas, LLC	Docket No. E-7, Sub 1214	Return on Equity
Duke Energy Progress, LLC	07/20	Duke Energy Progress, LLC	Docket No. E-2, Sub 1219	Return on Equity
Aqua North Carolina, Inc.	12/19	Aqua North Carolina, Inc.	Docket No. W-218 Sub 526	Rate of Return
Carolina Water Service, Inc.	06/19	Carolina Water Service, Inc.	Docket No. W-354 Sub 364	Rate of Return
Carolina Water Service, Inc.	09/18	Carolina Water Service, Inc.	Docket No. W-354 Sub 360	Rate of Return

SPONSOR	DATE	CASE/APPLICANT	DOCKET No.	SUBJECT
Aqua North Carolina, Inc.	07/18	Aqua North Carolina, Inc.	Docket No. W-218 Sub 497	Rate of Return
Public Utilities Commission of Ohio				
Aqua Ohio, Inc.	05/16	Aqua Ohio, Inc.	Docket No. 16-0907-WW-AIR	Rate of Return
Pennsylvania Public Utility Commission				
Valley Energy, Inc.	07/19	C&T Enterprises	Docket No. R-2019-3008209	Rate of Return
Wellsboro Electric Company	07/19	C&T Enterprises	Docket No. R-2019-3008208	Rate of Return
Citizens' Electric Company of Lewisburg	07/19	C&T Enterprises	Docket No. R-2019-3008212	Rate of Return
Steelton Borough Authority	01/19	Steelton Borough Authority	Docket No. A-2019-3006880	Valuation
Mahoning Township, PA	08/18	Mahoning Township, PA	Docket No. A-2018-3003519	Valuation
SUEZ Water Pennsylvania Inc.	04/18	SUEZ Water Pennsylvania Inc.	Docket No. R-2018-000834	Rate of Return
Columbia Water Company	09/17	Columbia Water Company	Docket No. R-2017-2598203	Rate of Return
Veolia Energy Philadelphia, Inc.	06/17	Veolia Energy Philadelphia, Inc.	Docket No. R-2017-2593142	Rate of Return
Emporium Water Company	07/14	Emporium Water Company	Docket No. R-2014-2402324	Rate of Return
Columbia Water Company	07/13	Columbia Water Company	Docket No. R-2013-2360798	Rate of Return
Penn Estates Utilities, Inc.	12/11	Penn Estates, Utilities, Inc.	Docket No. R-2011-2255159	Capital Structure / Long-Term Debt Cost Rate
South Carolina Public Service Commission				
Blue Granite Water Co.	12/19	Blue Granite Water Company	Docket No. 2019-292-WS	Rate of Return
Carolina Water Service, Inc.	02/18	Carolina Water Service, Inc.	Docket No. 2017-292-WS	Rate of Return
Carolina Water Service, Inc.	06/15	Carolina Water Service, Inc.	Docket No. 2015-199-WS	Rate of Return
Carolina Water Service, Inc.	11/13	Carolina Water Service, Inc.	Docket No. 2013-275-WS	Rate of Return
United Utility Companies, Inc.	09/13	United Utility Companies, Inc.	Docket No. 2013-199-WS	Rate of Return
Utility Services of South Carolina, Inc.	09/13	Utility Services of South Carolina, Inc.	Docket No. 2013-201-WS	Rate of Return
Tega Cay Water Services, Inc.	11/12	Tega Cay Water Services, Inc.	Docket No. 2012-177-WS	Capital Structure
Tennessee Public Utility Commission				
Piedmont Natural Gas Company	07/20	Piedmont Natural Gas Company	Docket No. 20-00086	Return on Equity
Public Utility Commission of Texas				
Southwestern Electric Power Company	10/20	Southwestern Electric Power Company	Docket No. 51415	Rate of Return
Virginia State Corporation Commission				
Aqua Virginia, Inc.	07/20	Aqua Virginia, Inc.	PUR-2020-00106	Rate of Return
WGL Holdings, Inc.	07/18	Washington Gas Light Company	PUR-2018-00080	Rate of Return
Atmos Energy Corporation	05/18	Atmos Energy Corporation	PUR-2018-00014	Rate of Return
Aqua Virginia, Inc.	07/17	Aqua Virginia, Inc.	PUR-2017-00082	Rate of Return
Massanutten Public Service Corp.	08/14	Massanutten Public Service Corp.	PUE-2014-00035	Rate of Return / Rate Design

Aquarion Water Company of New Hampshire, Inc.
Table of Contents
Supporting Attachments Accompanying the Direct Testimony of
Dylan W. D'Ascendis, CRRA, CVA

	<u>Attachment</u>
Summary of the Recommended Capital Structure and Return on Common Equity	DWD-1
Financial Profile of the Utility Proxy Group	DWD-2
Indicated Common Equity Cost Rate Using the Discounted Cash Flow Model	DWD-3
Indicated Common Equity Cost Rate Using the Risk Premium Model	DWD-4
Indicated Common Equity Cost Rate Using the Capital Asset Pricing Model	DWD-5
Basis of Selection for the Non-Price Regulated Companies Comparable in Total Risk to the Utility Proxy Group	DWD-6
Cost of Common Equity Models Applied to the Non-Price Regulated Proxy Group	DWD-7
Estimated Risk Adjustment and Market Capitalization for AWNH and the Utility Proxy Group	DWD-8
Rate Mechanisms In Place at Proxy Group Operating Subsidiaries	DWD-9
Calculation of Flotation Costs	DWD-10

Aquarion Water Company of New Hampshire, Inc.
Recommended Capital Structure and Cost Rates
for Ratemaking Purposes
at December 31, 2019

<u>Type Of Capital</u>	<u>Ratios (1)</u>	<u>Cost Rate</u>		<u>Weighted Cost Rate</u>
Long-Term Debt	43.85%	6.14%	(1)	2.69%
Short-Term Debt	3.78%	2.42%	(1)	0.09%
Preferred Equity	0.01%	6.00%	(1)	0.00%
Common Equity	<u>52.36%</u>	10.25%	(2)	<u>5.37%</u>
Total	<u>100.00%</u>			<u>8.15%</u>

Notes:

- (1) Company-provided.
- (2) From page 2 of this Attachment.

Aquarion Water Company of New Hampshire, Inc.
Brief Summary of Common Equity Cost Rate

<u>Line No.</u>	<u>Principal Methods</u>	<u>Proxy Group of Seven Water Companies</u>
1.	Discounted Cash Flow Model (DCF) (1)	9.09%
2.	Risk Premium Model (RPM) (2)	10.56%
3.	Capital Asset Pricing Model (CAPM) (3)	10.87%
4.	Market Models Applied to Comparable Risk, Non-Price Regulated Companies (4)	<u>10.76%</u>
5.	Indicated Range of Common Equity Cost Rates before Adjustment for Unique Risk	9.09% - 10.87%
6.	Business Risk Adjustment (5)	1.00%
7.	Flotation Cost Adjustment (6)	<u>0.04%</u>
8.	Indicated Range of Common Equity Cost Rates after Adjustment	<u>10.13% - 11.91%</u>
9.	Recommended Common Equity Cost Rate	<u>10.25%</u>

- Notes: (1) From Attachment DWD-3.
(2) From page 1 of Attachment DWD-4.
(3) From page 1 of Attachment DWD-5.
(4) From page 1 of Attachment DWD-7.
(5) Business risk adjustment to reflect AWNH's unique risk compared to the Utility Proxy Group as detailed in the accompanying direct testimony.
(6) From Attachment DWD-10.

Proxy Group of Seven Water Companies
CAPITALIZATION AND FINANCIAL STATISTICS (1)
2015 - 2019, Inclusive

	2019	2018	2017	2016	2015	
	(MILLIONS OF DOLLARS)					
Capitalization Statistics						
Amount of Capital Employed						
Total Permanent Capital	\$3,888.223	\$3,208.636	\$2,837.657	\$2,680.018	\$2,535.795	
Short-Term Debt	\$189.862	\$184.221	\$185.250	\$152.691	\$106.277	
Total Capital Employed	<u>\$4,078.085</u>	<u>\$3,392.857</u>	<u>\$3,022.907</u>	<u>\$2,832.709</u>	<u>\$2,642.072</u>	
Indicated Average Capital Cost Rates (2)						
Total Debt	4.30 %	4.75 %	4.83 %	4.94 %	5.08 %	
Preferred Stock	5.84 %	5.92 %	5.91 %	5.91 %	5.91 %	
Capital Structure Ratios						
5 YEAR AVERAGE						
Based on Total Permanent Capital:						
Long-Term Debt	47.17 %	45.15 %	45.58 %	46.14 %	46.49 %	46.11 %
Preferred Stock	0.06	0.09	0.10	0.11	0.11	0.09
Common Equity	52.77	54.76	54.32	53.75	53.40	53.80
Total	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>
Based on Total Capital:						
Total Debt, Including Short-Term Debt	50.61 %	48.37 %	48.93 %	48.42 %	47.77 %	48.82 %
Preferred Stock	0.06	0.08	0.09	0.10	0.11	0.09
Common Equity	49.34	51.54	50.98	51.47	52.12	51.09
Total	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>
Financial Statistics						
Financial Ratios - Market Based						
Earnings / Price Ratio	2.67 %	6.31 %	7.91 %	3.97 %	4.59 %	5.09 %
Market / Average Book Ratio	340.26	289.89	288.75	280.21	229.70	285.76
Dividend Yield	1.77	3.74	3.69	2.15	2.62	2.79
Dividend Payout Ratio	72.32	60.08	55.80	56.03	57.45	60.34
Rate of Return on Average Book Common Equity	9.49 %	10.12 %	11.31 %	10.93 %	10.39 %	10.45 %
Total Debt / EBITDA (3)	5.54 x	4.22 x	3.42 x	3.41 x	3.42 x	4.00 x
Funds from Operations / Total Debt (4)	14.49 %	21.37 %	22.87 %	23.65 %	25.81 %	21.64 %
Total Debt / Total Capital	50.61 %	48.37 %	48.93 %	48.42 %	47.77 %	48.82 %

Notes:

- (1) All capitalization and financial statistics for the group are the arithmetic average of the achieved results for each individual company in the group, and are based upon financial statements as originally reported in each year.
- (2) Computed by relating actual total debt interest or preferred stock dividends booked to average of beginning and ending total debt or preferred stock reported to be outstanding.
- (3) Total debt relative to EBITDA (Earnings before Interest, Income Taxes, Depreciation and Amortization).
- (4) Funds from operations (sum of net income, depreciation, amortization, net deferred income tax and investment tax credits, less total AFUDC) plus interest charges as a percentage of total debt.

Source of Information: Company Annual Forms 10-K

Capital Structure Based upon Total Permanent Capital for the
Proxy Group of Seven Water Companies
2015 - 2019, Inclusive

	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>5 YEAR AVERAGE</u>
<u>American States Water Company</u>						
Long-Term Debt	25.86 %	32.96 %	35.30 %	35.48 %	39.75 %	33.87 %
Short-Term Debt	18.84	9.79	6.48	9.94	3.41	9.69
Preferred Stock	0.00	0.00	0.00	0.00	0.00	0.00
Common Equity	55.30	57.25	58.22	54.58	56.84	56.44
Total Capital	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>
<u>American Water Works Company, Inc.</u>						
Long-Term Debt	55.63 %	52.78 %	51.96 %	50.99 %	50.98 %	52.47 %
Short-Term Debt	5.05	6.66	6.90	6.85	5.41	6.17
Preferred Stock	0.03	0.05	0.06	0.08	0.10	0.06
Common Equity	39.29	40.51	41.08	42.08	43.51	41.30
Total Capital	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>
<u>California Water Service Group</u>						
Long-Term Debt	45.85 %	50.61 %	35.44 %	42.44 %	43.44 %	43.56 %
Short-Term Debt	9.93	4.04	18.34	7.39	2.81	8.50
Preferred Stock	0.00	0.00	0.00	0.00	0.00	0.00
Common Equity	44.22	45.35	46.22	50.17	53.75	47.94
Total Capital	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>
<u>Essential Utilities, Inc.</u>						
Long-Term Debt	44.06 %	55.87 %	52.21 %	50.72 %	50.52 %	50.67 %
Short-Term Debt	0.37	0.34	0.09	0.17	0.47	0.29
Preferred Stock	0.00	0.00	0.00	0.00	0.00	0.00
Common Equity	55.57	43.79	47.70	49.11	49.01	49.04
Total Capital	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>
<u>Middlesex Water Company</u>						
Long-Term Debt	40.76 %	34.83 %	35.98 %	37.66 %	40.10 %	37.87 %
Short-Term Debt	3.42	10.55	6.90	3.21	0.85	4.99
Preferred Stock	0.36	0.53	0.60	0.65	0.68	0.56
Common Equity	55.46	54.09	56.52	58.48	58.37	56.58
Total Capital	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>
<u>SIW Group</u>						
Long-Term Debt	56.45 %	30.37 %	46.89 %	49.86 %	47.88 %	46.29 %
Short-Term Debt	5.07	7.04	2.72	1.63	4.31	4.15
Preferred Stock	0.00	0.00	0.00	0.00	0.00	0.00
Common Equity	38.48	62.59	50.39	48.51	47.81	49.56
Total Capital	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>
<u>York Water Company</u>						
Long-Term Debt	42.95 %	42.33 %	42.81 %	42.60 %	44.46 %	43.03 %
Short-Term Debt	0.00	0.45	0.48	0.00	0.00	0.19
Preferred Stock	0.00	0.00	0.00	0.00	0.00	0.00
Common Equity	57.05	57.22	56.71	57.40	55.54	56.78
Total Capital	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>
<u>Proxy Group of Seven Water Companies</u>						
Long-Term Debt	44.51 %	42.82 %	42.94 %	44.25 %	45.30 %	43.97 %
Short-Term Debt	6.10	5.55	5.99	4.17	2.47	4.85
Preferred Stock	0.05	0.08	0.09	0.10	0.11	0.09
Common Equity	49.34	51.55	50.98	51.48	52.12	51.09
Total Capital	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>

Source of Information
Annual Forms 10-K

Aquarion Water Company of New Hampshire, Inc.
Indicated Common Equity Cost Rate Using the Discounted Cash Flow Model for the
Proxy Group of Seven Water Companies

	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]
Proxy Group of Seven Water Companies	Average Dividend Yield (1)	Value Line Projected Five Year Growth in EPS (2)	Zack's Five Year Projected Growth Rate in EPS	Yahoo! Finance Projected Five Year Growth in EPS	Bloomberg Projected Five Year Growth in EPS	Average Projected Five Year Growth in EPS (3)	Adjusted Dividend Yield (4)	Indicated Common Equity Cost Rate (5)
American States Water Company	1.75 %	6.50 %	4.90 %	5.30 %	6.00 %	5.68 %	1.80 %	7.48 %
American Water Works Company, Inc.	1.51	8.50	8.10	8.30	8.00	8.23	1.57	9.80
California Water Service Group	1.86	6.50	NA	11.50	9.00	9.00	1.94	10.94
Essential Utilities, Inc.	2.36	7.00	6.00	6.70	6.52	6.55	2.44	8.99
Middlesex Water Company	1.59	6.00	NA	2.70	NA	4.35	1.62	5.97
SJW Group	2.03	10.50	14.00	14.10	7.00	11.40	2.15	13.55
York Water Company	1.61	7.00	NA	4.90	NA	5.95	1.66	7.61
							Average	<u>9.19 %</u>
							Median	<u>8.99 %</u>
							Average of Mean and Median	<u>9.09 %</u>

NA= Not Available

Notes:

- (1) Indicated dividend at 10/16/2020 divided by the average closing price of the last 60 trading days ending 10/16/2020 for each company.
- (2) From pages 2 through 8 of this Attachment.
- (3) Average of columns 2 through 4 excluding negative growth rates.
- (4) This reflects a growth rate component equal to one-half the conclusion of growth rate (from column 5) x column 1 to reflect the periodic payment of dividends (Gordon Model) as opposed to the continuous payment. Thus, for American States Water Company, $1.75\% \times (1 + (1/2 \times 5.68\%)) = 1.80\%$.
- (5) Column 5 + column 6.

Source of Information:

Value Line Investment Survey
www.zacks.com Downloaded on 10/16/2020
www.yahoo.com Downloaded on 10/16/2020
Bloomberg Professional Services

AMER. STATES WATER NYSE-AWR										RECENT PRICE	P/E RATIO	RELATIVE P/E RATIO	DIV'D YLD	VALUE LINE										
TIMELINESS 2 Lowered 10/9/20 SAFETY 2 Raised 7/20/12 TECHNICAL 4 Lowered 10/9/20 BETA .65 (1.00 = Market) 18-Month Target Price Range Low-High Midpoint (% to Mid) \$64-\$121 \$93 (25%) 2023-25 PROJECTIONS High Price Gain Ann'l Total Return Low 80 (+10%) 4% 60 (-20%) -2% Institutional Decisions to Buy 4Q2019 1Q2020 2Q2020 137 125 135 to Sell 145 166 129 Hld's(000) 26734 26162 25635 Percent shares traded 24 8										74.33	31.6	1.51	1.8%											
LEGENDS 1.35x Dividends p sh divided by Interest Rate Relative Price Strength 2-for-1 split 9/13 Options: Yes Shaded area indicates recession															Target Price Range 2023 2024 2025 128 96 80 64 48 40 24 16 12									
CAPITAL STRUCTURE as of 6/30/20 Total Debt \$330.3 mill. Due in 5 Yrs \$6.9 mill. LT Debt \$280.9 mill. LT Interest \$24.5 mill. (31% of Cap'l) Leases, Uncapitalized: Annual rentals \$2.7 mill. Pension Assets-12/19 \$192.5 mill. Oblig. \$231.9 mill. Pfd Stock None Common Stock 36,883,874 shs. as of 7/30/20 MARKET CAP: \$2.7 billion (Mid Cap)										398.9 419.3 466.9 472.1 465.8 458.6 436.1 440.6 436.8 473.9 485 500 41.4 42.0 54.1 62.7 61.1 60.5 59.7 69.4 63.9 84.3 85.0 90.0 43.2% 41.7% 39.9% 36.3% 38.4% 38.4% 36.8% 36.0% 22.0% 22.6% 23.0% 23.0% 5.8% 2.0% 2.5% -- -- -- -- -- 2.5% -- 1.0% 1.0% 44.3% 45.4% 42.2% 39.8% 39.1% 41.1% 39.4% 38.0% 40.5% 44.4% 46.0% 47.0% 55.7% 54.6% 57.8% 60.2% 60.9% 58.9% 60.6% 62.0% 59.5% 55.6% 54.0% 53.0% 677.4 749.1 787.0 818.4 832.6 791.5 815.3 854.9 938.4 1082.5 1180 1275 855.0 896.5 917.8 981.5 1003.5 1060.8 1150.9 1205.0 1296.3 1415.7 1485 1590 7.6% 7.1% 8.3% 8.9% 8.6% 9.0% 8.6% 9.3% 7.9% 8.9% 8.0% 8.0% 11.0% 10.3% 11.9% 12.7% 12.0% 13.0% 12.1% 13.1% 11.4% 14.0% 13.0% 13.5% 11.0% 10.3% 11.9% 12.7% 12.0% 13.0% 12.1% 13.1% 11.4% 14.0% 13.0% 13.5%					© VALUE LINE PUB. LLC 23-25 Revenues per sh 13.10 13.40 "Cash Flow" per sh 3.60 4.50 Earnings per sh A 2.45 2.90 Div'd Decl'd per sh B 1.40 1.85 Cap'l Spending per sh 3.75 3.75 Book Value per sh D 21.35 21.35 Common Shs Outst'g C 37.50 37.50 Avg Ann'l P/E Ratio 23.5 Relative P/E Ratio 1.30 Avg Ann'l Div'd Yield 2.6% Revenues (\$mill) 615 Net Profit (\$mill) 110 Income Tax Rate 23.0% AFUDC % to Net Profit 1.0% Long-Term Debt Ratio 49.5% Common Equity Ratio 51.5% Total Capital (\$mill) 1565 Net Plant (\$mill) 1780 Return on Total Cap'l 8.5% Return on Shr. Equity 14.0% Return on Com Equity 14.0% Retained to Com Eq 5.0% All Div'ds to Net Prof 64%									
ANNUAL RATES Past 10 Yrs. Past 5 Yrs. Est'd '17-'19 of change (per sh) Revenues 3.0% -- 5.0% "Cash Flow" 6.0% 3.0% 7.0% Earnings 9.5% 5.0% 6.5% Dividends 8.0% 7.5% 9.5% Book Value 5.5% 4.0% 5.5%										QUARTERLY REVENUES (\$mill.) Cal-endar Mar.31 Jun.30 Sep.30 Dec.31 Full Year 2017 98.8 113.2 124.4 104.2 440.6 2018 94.7 106.9 124.2 111.0 436.8 2019 101.7 124.7 134.5 113.0 473.9 2020 109.1 121.3 139.6 115 485 2021 110 125 145 120 500					EARNINGS PER SHARE A Cal-endar Mar.31 Jun.30 Sep.30 Dec.31 Full Year 2017 .34 .62 .57 .35 1.88 2018 .29 .44 .62 .37 1.72 2019 .35 .72 .76 .45 2.28 2020 .38 .69 .73 .50 2.30 2021 .43 .72 .75 .55 2.45					QUARTERLY DIVIDENDS PAID B Cal-endar Mar.31 Jun.30 Sep.30 Dec.31 Full Year 2016 .224 .224 .224 .242 .91 2017 .242 .242 .255 .255 .99 2018 .255 .255 .275 .275 1.06 2019 .275 .275 .305 .305 1.16 2020 .305 .305 .335				
BUSINESS: American States Water Co. operates as a holding company. Through its principal subsidiary, Golden State Water Co., it supplies water to 260,708 customers in 10 California counties. Service areas include the metropolitan areas of Los Angeles and Orange Counties. The company also provides electricity to 24,420 customers in Big Bear Lake and San Bernardino Cnty. Provides water & wastewater services to U.S. military bases through its ASUS subsidiary. Sold Chaparral City Wtr. of AZ, (6/11). Employs 841. BlackRock, Inc. owns 15.9% of out. shares; Vanguard, 11.9%, off. & dir. 1.0%. (4/20 Proxy). Chairman: Lloyd Ross. Pres. & CEO: Robert Sprowls. Inc. CA. Address: 630 East Foothill Blvd., San Dimas, CA 91773. Tel: 909-394-3600. Internet: www.aswater.com										American States Water recently raised its dividend by more than we had anticipated. In the third quarter, the water utility hiked the quarterly payout almost 10%. This represented one of the largest increases in the entire industry. What's more, with a dividend-to-net profit ratio that is considered low for this group, there is ample room for growth in the distribution in the years ahead. We think annual increases of close to double digits are possible through mid-decade. Golden State Water is doing well, despite problems in its home state. The second-quarter year-over-year earnings comparison was much better than it appeared, as the company recorded a large one-time gain in the 2019 period. As California deals with the impact of the coronavirus and wildfires, the utility is operating smoothly as the demand for water typically remains stable whether the economy is booming or in a recession, as is the case now. Our earnings estimates are unchanged, once again. As we often point out, one of the main advantages of a water utility is the predictable nature of its in-					come stream. Hence, we are still looking for share earnings of \$2.30 and \$2.45 for 2020 and 2021, respectively. Nonregulated operations should be a key driver of long-term growth. Though its ASUS subsidiary, American States provides water services to U.S. Army bases around the country. As the military continues to privatize its water systems, we expect the company to win its fair share of the 50-year contracts. Responsible for over 17% of net profits last quarter, this percentage should continue to trend higher. Also, profitability in this sector is not capped like it is in the regulated business. Short-term investors might find these shares attractive. For starters, the equity is expected to outperform the market averages in the year ahead. What's more, during this period of economic and political uncertainty, the utility has very well-defined prospects. As usual, a premium will have to be paid to own stock in this space. Also, as is the case with most utilities, AWR's total return prospects out to 2023-2025 are not impressive. <i>James A. Flood</i> <i>October 9, 2020</i>									
(A) Primary earnings. Excludes nonrecurring gains/(losses): '04, 7c; '05, 13c; '06, 3c; '08, (14c); '10, (23c); '11, 10c. Next earnings report due early November. (B) Dividends historically paid in early March, June, September, and December. ■ Div'd reinvestment plan available. (C) In millions, adjusted for split. (D) Includes intangibles. As of 12/31/19; \$1.1 million/\$0.04 a share.										Company's Financial Strength Stock's Price Stability 100 Price Growth Persistence 85 Earnings Predictability 85														
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 |
 | | | RECENT PRICE | P/E RATIO | Trailing: 41.1
Median: 22.0 | RELATIVE P/E RATIO | DIV'D YLD | VALUE LINE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| TIMELINESS 1 Raised 10/9/20

 | High: 23.0
 | 25.8 | 32.8 | 39.4 | 45.1 | 56.2 | 61.2 | 85.2 | 92.4 | 98.2 | 129.9 | 150.5 | Target Price Range
2023 2024 2025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SAFETY 3 New 7/25/08

 | Low: 16.2
 | 19.4 | 25.2 | 31.3 | 37.0 | 41.1 | 48.4 | 58.9 | 70.0 | 76.0 | 88.0 | 92.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| TECHNICAL 3 Lowered 10/9/20

 | LEGENDS
1.10 X Dividends p sh divided by Interest Rate
. . . . Relative Price Strength
Options:
Yes
Shaded area indicates recession | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| BETA .85 (1.00 = Market)

 | 18-Month Target Price Range
Low-High Midpoint (% to Mid)
\$104-\$236 \$170 (20%)
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 2023-25 PROJECTIONS
High Price Gain Ann'l Total
Low 90 (-5%) (-40%) 1% Return
1 yr. 12.4 8.7
3 yr. 64.0 17.6
5 yr. 198.8 45.6

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| Institutional Decisions
4Q2019 1Q2020 2Q2020
to Buy 393 333 363
to Sell 361 415 371
Hld's(000) 155435 151948 151102
Percent shares 21
traded 7

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| <table border="1"> <thead> <tr> <th>2004</th><th>2005</th><th>2006E</th><th>2007E</th><th>2008</th><th>2009</th><th>2010</th><th>2011</th><th>2012</th><th>2013</th><th>2014</th><th>2015</th><th>2016</th><th>2017</th><th>2018</th><th>2019</th><th>2020</th><th>2021</th><th>© VALUE LINE PUB. LLC</th><th>23-25</th></tr> </thead> <tbody> <tr> <td>--</td><td>--</td><td>13.08</td><td>13.84</td><td>14.61</td><td>13.98</td><td>15.49</td><td>15.18</td><td>16.25</td><td>16.28</td><td>16.78</td><td>17.72</td><td>18.54</td><td>18.81</td><td>19.04</td><td>19.97</td><td>20.95</td><td>21.85</td><td>Revenues per sh</td><td>24.75</td></tr> <tr> <td>--</td><td>--</td><td>.65</td><td>d.47</td><td>2.87</td><td>2.89</td><td>3.56</td><td>3.73</td><td>4.27</td><td>4.36</td><td>4.75</td><td>5.13</td><td>5.26</td><td>5.14</td><td>6.15</td><td>6.65</td><td>8.00</td><td>8.15</td><td>"Cash Flow" per sh</td><td>8.75</td></tr> <tr> <td>--</td><td>--</td><td>d.97</td><td>d2.14</td><td>1.10</td><td>1.25</td><td>1.53</td><td>1.72</td><td>2.11</td><td>2.06</td><td>2.39</td><td>2.64</td><td>2.62</td><td>2.38</td><td>3.15</td><td>3.43</td><td>3.85</td><td>4.20</td><td>Earnings per sh ^A</td><td>4.90</td></tr> <tr> <td>--</td><td>--</td><td>--</td><td>--</td><td>.40</td><td>.82</td><td>.86</td><td>.90</td><td>1.21</td><td>.84</td><td>1.21</td><td>1.33</td><td>1.47</td><td>1.62</td><td>1.78</td><td>1.96</td><td>2.15</td><td>2.35</td><td>Div'd Decl'd per sh ^B</td><td>2.90</td></tr> <tr> <td>--</td><td>--</td><td>4.31</td><td>4.74</td><td>6.31</td><td>4.50</td><td>4.38</td><td>5.27</td><td>5.25</td><td>5.50</td><td>5.33</td><td>6.51</td><td>7.36</td><td>8.04</td><td>8.78</td><td>9.15</td><td>8.70</td><td>9.20</td><td>Cap'l Spending per sh</td><td>9.00</td></tr> <tr> <td>--</td><td>--</td><td>23.86</td><td>28.39</td><td>25.64</td><td>22.91</td><td>23.59</td><td>24.11</td><td>25.11</td><td>26.52</td><td>27.39</td><td>28.25</td><td>29.24</td><td>30.13</td><td>32.42</td><td>33.83</td><td>35.40</td><td>36.95</td><td>Book Value per sh ^D</td><td>42.50</td></tr> <tr> <td>--</td><td>--</td><td>160.00</td><td>160.00</td><td>160.00</td><td>174.63</td><td>175.00</td><td>175.66</td><td>176.99</td><td>178.25</td><td>179.46</td><td>178.28</td><td>178.10</td><td>178.44</td><td>180.68</td><td>180.81</td><td>181.50</td><td>182.00</td><td>Common Shs Outst'g ^C</td><td>189.00</td></tr> <tr> <td>--</td><td>--</td><td>--</td><td>--</td><td>18.9</td><td>15.6</td><td>14.6</td><td>16.8</td><td>16.7</td><td>19.9</td><td>20.0</td><td>20.5</td><td>27.7</td><td>33.8</td><td>27.3</td><td>32.9</td><td>32.9</td><td>32.9</td><td>Avg Ann'l P/E Ratio</td><td>23.5</td></tr> <tr> <td>--</td><td>--</td><td>--</td><td>--</td><td>1.14</td><td>1.04</td><td>.93</td><td>1.05</td><td>1.06</td><td>1.12</td><td>1.05</td><td>1.03</td><td>1.45</td><td>1.70</td><td>1.47</td><td>1.79</td><td>1.79</td><td>1.79</td><td>Relative P/E Ratio</td><td>1.30</td></tr> <tr> <td>--</td><td>--</td><td>--</td><td>--</td><td>1.9%</td><td>4.2%</td><td>3.8%</td><td>3.1%</td><td>3.4%</td><td>2.0%</td><td>2.5%</td><td>2.5%</td><td>2.0%</td><td>2.0%</td><td>2.1%</td><td>1.7%</td><td>1.7%</td><td>1.7%</td><td>Avg Ann'l Div'd Yield</td><td>2.5%</td></tr> <tr> <td colspan="13"> CAPITAL STRUCTURE as of 6/30/20
 Total Debt \$10578 mil. Due in 5 Yrs \$2500 mil.
 LT Debt \$9589 mil. LT Interest \$354 mil.
 (60% of Cap'l) </td> <td>2710.7</td> <td>2666.2</td> <td>2876.9</td> <td>2901.9</td> <td>3011.3</td> <td>3159.0</td> <td>3302.0</td> <td>3357.0</td> <td>3440.0</td> <td>3610.0</td> <td>3800</td> <td>3975</td> <td>Revenues (\$mill)</td> <td>4675</td> </tr> <tr> <td colspan="13"> Leases, Uncapitalized: Annual rentals \$14.0 mil.
 Pension Assets: \$1747.0 mil
 Oblig: \$2161.0 mil.
 Pfd Stock: \$5.0 mil. Pfd Div'd \$4.4 mil </td> <td>267.8</td> <td>304.9</td> <td>374.3</td> <td>369.3</td> <td>429.8</td> <td>476.0</td> <td>468.0</td> <td>426.0</td> <td>567.0</td> <td>621.0</td> <td>700</td> <td>765</td> <td>Net Profit (\$mill)</td> <td>925</td> </tr> <tr> <td colspan="13"> Common Stock: 181,204,068 shares as of 7/31/20 </td> <td>40.4%</td> <td>39.5%</td> <td>40.7%</td> <td>39.1%</td> <td>39.4%</td> <td>39.1%</td> <td>39.2%</td> <td>53.3%</td> <td>28.2%</td> <td>25.5%</td> <td>21.0%</td> <td>21.0%</td> <td>Income Tax Rate</td> <td>21.0%</td> </tr> <tr> <td colspan="13"> MARKET CAP: \$26.2 billion (Large Cap) </td> <td>--</td> <td>--</td> <td>6.2%</td> <td>5.1%</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>5.1%</td> <td>4.0%</td> <td>5.0%</td> <td>5.0%</td> <td>AFUDC % to Net Profit</td> <td>5.0%</td> </tr> <tr> <td colspan="13"> CURRENT POSITION 2018 2019 6/30/20 (SMILL) </td> <td>56.8%</td> <td>55.7%</td> <td>53.9%</td> <td>52.4%</td> <td>52.4%</td> <td>53.7%</td> <td>52.4%</td> <td>54.7%</td> <td>56.3%</td> <td>58.5%</td> <td>61.0%</td> <td>60.5%</td> <td>Long-Term Debt Ratio</td> <td>59.0%</td> </tr> <tr> <td colspan="13"> ANNUAL RATES Past 10 Yrs. Past 5 Yrs. Est'd '17-'19 of change (per sh) </td> <td>43.2%</td> <td>44.2%</td> <td>46.1%</td> <td>47.6%</td> <td>47.4%</td> <td>46.2%</td> <td>47.5%</td> <td>45.3%</td> <td>43.6%</td> <td>41.4%</td> <td>39.0%</td> <td>39.5%</td> <td>Common Equity Ratio</td> <td>41.0%</td> </tr> <tr> <td colspan="13"> Business: American Water Works Company, Inc. is the largest investor-owned water and wastewater utility in the U.S., providing services to approximately 15 million people in 46 states. Nonregulated business assists municipalities and military bases with the maintenance and upkeep as well. Regulated operations made up 86% of 2019 revenues. New Jersey is its largest market accounting for 24.6% of regulated revenues; Pennsylvania, 22.3%; Missouri, 10.5%. Has 6,800 employees. The Vanguard Grp. owns 12.4% of outstanding shares; BlackRock, Inc., 8.7%; officers & directors, less than 1.0%. (3/20 Proxy). President & CEO: Susan N. Story. Chairman: George MacKenzie. Address: 1 Water Street, Camden, NJ 08102. Tel.: 856-346-8200. Internet: www.amwater.com. </td> <td>9561.3</td> <td>9580.3</td> <td>9635.5</td> <td>9940.7</td> <td>10364</td> <td>10911</td> <td>10967</td> <td>11875</td> <td>13433</td> <td>14760</td> <td>15800</td> <td>17050</td> <td>Total Capital (\$mill)</td> <td>20000</td> </tr> <tr> <td colspan="13"> Shares of American Water Works continue to outperform the broader market, as well as that of its peers. Since our last report three months ago, the equity has increased nearly 14% in value, versus about a 6% rise in the S&P 500 Index. In addition, most of the other stocks in this group have actually posted negative returns averaging in the double digits over the same time span. </td> <td>11059</td> <td>11021</td> <td>11739</td> <td>12391</td> <td>12900</td> <td>13933</td> <td>14992</td> <td>16246</td> <td>17409</td> <td>18232</td> <td>19100</td> <td>20000</td> <td>Net Plant (\$mill)</td> <td>22200</td> </tr> <tr> <td colspan="13"> Earnings and dividend growth prospects are bright. Due to its bolt-on acquisition strategy, a constructive relationship with its many different state regulators, and the ability to cut costs, we estimate that American Water's share-net and annual payout may well rise 9%-11% in 2020 and 2021. This is far superior to most others in the industry. Much of the expense control is related to its merger policy. Because the water industry is very fragmented, significant economies of scale are very attainable. So, American Water can purchase other water districts and increase the margins on the purchased assets. Through July of this year, more than 60,000 new customers were added, with another 43,600 under agreement. </td> <td>4.4%</td> <td>4.8%</td> <td>5.4%</td> <td>5.1%</td> <td>5.5%</td> <td>5.7%</td> <td>5.6%</td> <td>4.9%</td> <td>5.4%</td> <td>5.4%</td> <td>5.5%</td> <td>5.5%</td> <td>Return on Total Cap'l</td> <td>6.0%</td> </tr> <tr> <td colspan="13"> The construction budget remain massive. As is the case with most water utilities, the company is investing heavily to upgrade and modernize its pipeline and water treatment assets. Approximately \$28 billion has been spent over the past decade, with about another \$20 billion projected to be used over the next decade. Still, we expect American Water's balance sheet to remain in decent shape even though a fair amount of new debt will probably be needed to finance the building program. </td> <td>6.5%</td> <td>7.2%</td> <td>8.4%</td> <td>7.8%</td> <td>8.7%</td> <td>9.4%</td> <td>9.0%</td> <td>7.9%</td> <td>9.7%</td> <td>10.1%</td> <td>11.0%</td> <td>11.5%</td> <td>Return on Shr. Equity</td> <td>11.5%</td> </tr> <tr> <td colspan="13"> Investors will likely have to continue to pay a hefty premium for these timely shares. As we have pointed out in previous reports, by a metric such as the Price/Earnings ratio, AWK is trading at levels well above the market averages and its group. We attribute this to the company's well-defined earnings and dividend growth prospects. The equity also seems to benefit from its large size, as well as the lack of options in this space for institutions seeking to take large positions. Over the pull to 2023-2025, these shares have subpar total return prospects. </td> <td>6.5%</td> <td>7.2%</td> <td>8.4%</td> <td>7.8%</td> <td>8.7%</td> <td>9.4%</td> <td>9.0%</td> <td>7.9%</td> <td>9.7%</td> <td>10.1%</td> <td>11.0%</td> <td>11.9%</td> <td>Return on Com Equity</td> <td>11.5%</td> </tr> <tr> <td colspan="13"> Shares of American Water Works continue to outperform the broader market, as well as that of its peers. Since our last report three months ago, the equity has increased nearly 14% in value, versus about a 6% rise in the S&P 500 Index. In addition, most of the other stocks in this group have actually posted
negative returns averaging in the double digits over the same time span. </td> <td>2.8%</td> <td>3.5%</td> <td>3.6%</td> <td>4.7%</td> <td>4.3%</td> <td>4.7%</td> <td>4.0%</td> <td>2.5%</td> <td>4.2%</td> <td>4.4%</td> <td>5.0%</td> <td>4.5%</td> <td>Retained to Com Eq</td> <td>4.5%</td> </tr> <tr> <td colspan="13"> Earnings and dividend growth prospects are bright. Due to its bolt-on acquisition strategy, a constructive relationship with its many different state regulators, and the ability to cut costs, we estimate that American Water's share-net and annual payout may well rise 9%-11% in 2020 and 2021. This is far superior to most others in the industry. Much of the expense control is related to its merger policy. Because the water industry is very fragmented, significant economies of scale are very attainable. So, American Water can purchase other water districts and increase the margins on the purchased assets. Through July of this year, more than 60,000 new customers were added, with another 43,600 under agreement. </td> <td>56%</td> <td>52%</td> <td>57%</td> <td>40%</td> <td>50%</td> <td>50%</td> <td>56%</td> <td>68%</td> <td>56%</td> <td>57%</td> <td>56%</td> <td>59%</td> <td>All Div'ds to Net Prof</td> <td>59%</td> </tr> <tr> <td colspan="13"> Shares of American Water Works continue to outperform the broader market, as well as that of its peers. Since our last report three months ago, the equity has increased nearly 14% in value, versus about a 6% rise in the S&P 500 Index. In addition, most of the other stocks in this group have actually posted negative returns averaging in the double digits over the same time span. </td> <td>756</td> <td>844</td> <td>936</td> <td>821</td> <td>3357</td> <td>761</td> <td>853</td> <td>976</td> <td>850</td> <td>3440</td> <td>813</td> <td>882</td> <td>1013</td> <td>902</td> <td>3610</td> <td>844</td> <td>931</td> <td>1090</td> <td>935</td> <td>3800</td> <td>885</td> <td>970</td> <td>1120</td> <td>1000</td> <td>3975</td> </tr> <tr> <td colspan="13"> Shares of American Water Works continue to outperform the broader market, as well as that of its peers. Since our last report three months ago, the equity has increased nearly 14% in value, versus about a 6% rise in the S&P 500 Index. In addition, most of the other stocks in this group have actually posted negative returns averaging in the double digits over the same time span. </td> <td>52</td> <td>.73</td> <td>1.12</td> <td>.01</td> <td>2.38</td> <td>.59</td> <td>.91</td> <td>1.03</td> <td>.62</td> <td>3.15</td> <td>.62</td> <td>.94</td> <td>1.33</td> <td>.54</td> <td>3.43</td> <td>.68</td> <td>.97</td> <td>1.40</td> <td>.80</td> <td>3.85</td> <td>.72</td> <td>1.05</td> <td>1.60</td> <td>.83</td> <td>4.20</td> </tr> <tr> <td colspan="13"> Shares of American Water Works continue to outperform the broader market, as well as that of its peers. Since our last report three months ago, the equity has increased nearly 14% in value, versus about a 6% rise in the S&P 500 Index. In addition, most of the other stocks in this group have actually posted negative returns averaging in the double digits over the same time span. </td> <td>.34</td> <td>.375</td> <td>.375</td> <td>.375</td> <td>1.47</td> <td>.375</td> <td>.415</td> <td>.415</td> <td>.415</td> <td>1.62</td> <td>.415</td> <td>.455</td> <td>.455</td> <td>.455</td> <td>1.78</td> <td>.455</td> <td>.50</td> <td>.50</td> <td>.50</td> <td>1.96</td> <td>.50</td> <td>.50</td> <td>.55</td> <td></td> <td></td> </tr> <tr> <td colspan="13"> Shares of American Water Works continue to outperform the broader market, as well as that of its peers. Since our last report three months ago, the equity has increased nearly 14% in value, versus about a 6% rise in the S&P 500 Index. In addition, most of the other stocks in this group have actually posted negative returns averaging in the double digits over the same time span. </td> <td colspan="12"> Company's Financial Strength B++
 Stock's Price Stability 85
 Price Growth Persistence 100
 Earnings Predictability 85 </td> </tr> <tr> <td colspan="13"> Shares of American Water Works continue to outperform the broader market, as well as that of its peers. Since our last report three months ago, the equity has increased nearly 14% in value, versus about a 6% rise in the S&P 500 Index. In addition, most of the other stocks in this group have actually posted negative returns averaging in the double digits over the same time span. </td> <td colspan="12"> 6/30/20: \$1.567 billion, \$8.65/share.
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 | | | | | | | | | | | | 2004 | 2005 | 2006E | 2007E | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | © VALUE LINE PUB. LLC | 23-25 | -- | -- | 13.08 | 13.84 | 14.61 | 13.98 | 15.49 | 15.18 | 16.25 | 16.28 | 16.78 | 17.72 | 18.54 | 18.81 | 19.04 | 19.97 | 20.95 | 21.85 | Revenues per sh | 24.75 | -- | -- | .65 | d.47 | 2.87 | 2.89 | 3.56 | 3.73 | 4.27 | 4.36 | 4.75 | 5.13 | 5.26 | 5.14 | 6.15 | 6.65 | 8.00 | 8.15 | "Cash Flow" per sh | 8.75 | -- | -- | d.97 | d2.14 | 1.10 | 1.25 | 1.53 | 1.72 | 2.11 | 2.06 | 2.39 | 2.64 | 2.62 | 2.38 | 3.15 | 3.43 | 3.85 | 4.20 | Earnings per sh ^A | 4.90 | -- | -- | -- | -- | .40 | .82 | .86 | .90 | 1.21 | .84 | 1.21 | 1.33 | 1.47 | 1.62 | 1.78 | 1.96 | 2.15 | 2.35 | Div'd Decl'd per sh ^B | 2.90 | -- | -- | 4.31 | 4.74 | 6.31 | 4.50 | 4.38 | 5.27 | 5.25 | 5.50 | 5.33 | 6.51 | 7.36 | 8.04 | 8.78 | 9.15 | 8.70 | 9.20 | Cap'l Spending per sh | 9.00 | -- | -- | 23.86 | 28.39 | 25.64 | 22.91 | 23.59 | 24.11 | 25.11 | 26.52 | 27.39 | 28.25 | 29.24 | 30.13 | 32.42 | 33.83 | 35.40 | 36.95 | Book Value per sh ^D | 42.50 | -- | -- | 160.00 | 160.00 | 160.00 | 174.63 | 175.00 | 175.66 | 176.99 | 178.25 | 179.46 | 178.28 | 178.10 | 178.44 | 180.68 | 180.81 | 181.50 | 182.00 | Common Shs Outst'g ^C | 189.00 | -- | -- | -- | -- | 18.9 | 15.6 | 14.6 | 16.8 | 16.7 | 19.9 | 20.0 | 20.5 | 27.7 | 33.8 | 27.3 | 32.9 | 32.9 | 32.9 | Avg Ann'l P/E Ratio | 23.5 | -- | -- | -- | -- | 1.14 | 1.04 | .93 | 1.05 | 1.06 | 1.12 | 1.05 | 1.03 | 1.45 | 1.70 | 1.47 | 1.79 | 1.79 | 1.79 | Relative P/E Ratio | 1.30 | -- | -- | -- | -- | 1.9% | 4.2% | 3.8% | 3.1% | 3.4% | 2.0% | 2.5% | 2.5% | 2.0% | 2.0% | 2.1% | 1.7% | 1.7% | 1.7% | Avg Ann'l Div'd Yield | 2.5% | CAPITAL STRUCTURE as of 6/30/20
Total Debt \$10578 mil. Due in 5 Yrs \$2500 mil.
LT Debt \$9589 mil. LT Interest \$354 mil.
(60% of Cap'l) | | | | | | | | | | | | | 2710.7 | 2666.2 | 2876.9 | 2901.9 | 3011.3 | 3159.0 | 3302.0 | 3357.0 | 3440.0 | 3610.0 | 3800 | 3975 | Revenues (\$mill) | 4675 | Leases, Uncapitalized: Annual rentals \$14.0 mil.
Pension Assets: \$1747.0 mil
Oblig: \$2161.0 mil.
Pfd Stock: \$5.0 mil. Pfd Div'd \$4.4 mil | | | | | | | | | | | | | 267.8 | 304.9 | 374.3 | 369.3 | 429.8 | 476.0 | 468.0 | 426.0 | 567.0 | 621.0 | 700 | 765 | Net Profit (\$mill) | 925 | Common Stock: 181,204,068 shares as of 7/31/20 | | | | | | | | | | | | | 40.4% | 39.5% | 40.7% | 39.1% | 39.4% | 39.1% | 39.2% | 53.3% | 28.2% | 25.5% | 21.0% | 21.0% | Income Tax Rate | 21.0% | MARKET CAP: \$26.2 billion (Large Cap) | | | | | | | | | | | | | -- | -- | 6.2% | 5.1% | -- | -- | -- | -- | 5.1% | 4.0% | 5.0% | 5.0% | AFUDC % to Net Profit | 5.0% | CURRENT POSITION 2018 2019 6/30/20 (SMILL) | | | | | | | | | | | | | 56.8% | 55.7% | 53.9% | 52.4% | 52.4% | 53.7% | 52.4% | 54.7% | 56.3% | 58.5% | 61.0% | 60.5% | Long-Term Debt Ratio | 59.0% | ANNUAL RATES Past 10 Yrs. Past 5 Yrs. Est'd '17-'19 of change (per sh) | | | | | | | | | | | | | 43.2% | 44.2% | 46.1% | 47.6% | 47.4% | 46.2% | 47.5% | 45.3% | 43.6% | 41.4% | 39.0% | 39.5% | Common Equity Ratio | 41.0% | Business: American Water Works Company, Inc. is the largest investor-owned water and wastewater utility in the U.S., providing services to approximately 15 million people in 46 states. Nonregulated business assists municipalities and military bases with the maintenance and upkeep as well. Regulated operations made up 86% of 2019 revenues. New Jersey is its largest market accounting for 24.6% of regulated revenues; Pennsylvania, 22.3%; Missouri, 10.5%. Has 6,800 employees. The Vanguard Grp. owns 12.4% of outstanding shares; BlackRock, Inc., 8.7%; officers & directors, less than 1.0%. (3/20 Proxy). President & CEO: Susan N. Story. Chairman: George MacKenzie. Address: 1 Water Street, Camden, NJ 08102. Tel.: 856-346-8200. Internet: www.amwater.com. | | | | | | | | | | | | | 9561.3 | 9580.3 | 9635.5 | 9940.7 | 10364 | 10911 | 10967 | 11875 | 13433 | 14760 | 15800 | 17050 | Total Capital (\$mill) | 20000 | Shares of American Water Works continue to outperform the broader market, as well as that of its peers. Since our last report three months ago, the equity has increased nearly 14% in value, versus about a 6% rise in the S&P 500 Index. In addition, most of the other stocks in this group have actually posted negative returns averaging in the double digits over the same time span. | | | | | | | | | | | | | 11059 | 11021 | 11739 | 12391 | 12900 | 13933 | 14992 | 16246 | 17409 | 18232 | 19100 | 20000 | Net Plant (\$mill) | 22200 | Earnings and dividend growth prospects are bright. Due to its bolt-on acquisition strategy, a constructive relationship with its many different state regulators, and the ability to cut costs, we estimate that American Water's share-net and annual payout may well rise 9%-11% in 2020 and 2021. This is far superior to most others in the industry. Much of the expense control is related to its merger policy. Because the water industry is very fragmented, significant economies of scale are very attainable. So, American Water can purchase other water districts and increase the margins on the purchased assets. Through July of this year, more than 60,000 new customers were added, with another 43,600 under agreement. | | | | | | | | | | | | | 4.4% | 4.8% | 5.4% | 5.1% | 5.5% | 5.7% | 5.6% | 4.9% | 5.4% | 5.4% | 5.5% | 5.5% | Return on Total Cap'l | 6.0% | The construction budget remain massive. As is the case with most water utilities, the company is investing heavily to upgrade and modernize its pipeline and water treatment assets. Approximately \$28 billion has been spent over the past decade, with about another \$20 billion projected to be used over the next decade. Still, we expect American Water's balance sheet to remain in decent shape even though a fair amount of new debt will probably be needed to finance the building program. | | | | | | | | | | | | | 6.5% | 7.2% | 8.4% | 7.8% | 8.7% | 9.4% | 9.0% | 7.9% | 9.7% | 10.1% | 11.0% | 11.5% | Return on Shr. Equity | 11.5% | Investors will likely have to continue to pay a hefty premium for these timely shares. As we have pointed out in previous reports, by a metric such as the Price/Earnings ratio, AWK is trading at levels well above the market averages and its group. We attribute this to the company's well-defined earnings and dividend growth prospects. The equity also seems to benefit from its large size, as well as the lack of options in this space for institutions seeking to take large positions. Over the pull to 2023-2025, these shares have subpar total return prospects. | | | | | | | | | | | | | 6.5% | 7.2% | 8.4% | 7.8% | 8.7% | 9.4% | 9.0% | 7.9% | 9.7% | 10.1% | 11.0% | 11.9% | Return on Com Equity | 11.5% | Shares of American Water Works continue to outperform the broader market, as well as that of its peers. Since our last report three months ago, the equity has increased nearly 14% in value, versus about a 6% rise in the S&P 500 Index. In addition, most of the other stocks in this group have actually posted negative returns averaging in the double digits over the same time span. | | | | | | | | | | | | | 2.8% | 3.5% | 3.6% | 4.7% | 4.3% | 4.7% | 4.0% | 2.5% | 4.2% | 4.4% | 5.0% | 4.5% | Retained to Com Eq | 4.5% | Earnings and dividend growth prospects are bright. Due to its bolt-on acquisition strategy, a constructive relationship with its many different state regulators, and the ability to cut costs, we estimate that American Water's share-net and annual payout may well rise 9%-11% in 2020 and 2021. This is far superior to most others in the industry. Much of the expense control is related to its merger policy. Because the water industry is very fragmented, significant economies of scale are very attainable. So, American Water can purchase other water districts and increase the margins on the purchased assets. Through July of this year, more than 60,000 new customers were added, with another 43,600 under agreement. | | | | | | | | | | | | | 56% | 52% | 57% | 40% | 50% | 50% | 56% | 68% | 56% | 57% | 56% | 59% | All Div'ds to Net Prof | 59% | Shares of American Water Works continue to outperform the broader market, as well as that of its peers. Since our last report three months ago, the equity has increased nearly 14% in value, versus about a 6% rise in the S&P 500 Index. In addition, most of the other stocks in this group have actually posted negative returns averaging in the double digits over the same time span. | | | | | | | | | | | | | 756 | 844 | 936 | 821 | 3357 | 761 | 853 | 976 | 850 | 3440 | 813 | 882 | 1013 | 902 | 3610 | 844 | 931 | 1090 | 935 | 3800 | 885 | 970 | 1120 | 1000 | 3975 | Shares of American Water Works continue to outperform the broader market, as well as that of its peers. Since our last report three months ago, the equity has increased nearly 14% in value, versus about a 6% rise in the S&P 500 Index. In addition, most of the other stocks in this group have actually posted negative returns averaging in the double digits over the same time span. | | | | | | | | | | | | | 52 | .73 | 1.12 | .01 | 2.38 | .59 | .91 | 1.03 | .62 | 3.15 | .62 | .94 | 1.33 | .54 | 3.43 | .68 | .97 | 1.40 | .80 | 3.85
| .72 | 1.05 | 1.60 | .83 | 4.20 | Shares of American Water Works continue to outperform the broader market, as well as that of its peers. Since our last report three months ago, the equity has increased nearly 14% in value, versus about a 6% rise in the S&P 500 Index. In addition, most of the other stocks in this group have actually posted negative returns averaging in the double digits over the same time span. | | | | | | | | | | | | | .34 | .375 | .375 | .375 | 1.47 | .375 | .415 | .415 | .415 | 1.62 | .415 | .455 | .455 | .455 | 1.78 | .455 | .50 | .50 | .50 | 1.96 | .50 | .50 | .55 | | | Shares of American Water Works continue to outperform the broader market, as well as that of its peers. Since our last report three months ago, the equity has increased nearly 14% in value, versus about a 6% rise in the S&P 500 Index. In addition, most of the other stocks in this group have actually posted negative returns averaging in the double digits over the same time span. | | | | | | | | | | | | | Company's Financial Strength B++
Stock's Price Stability 85
Price Growth Persistence 100
Earnings Predictability 85 | | | | | | | | | | | | Shares of American Water Works continue to outperform the broader market, as well as that of its peers. Since our last report three months ago, the equity has increased nearly 14% in value, versus about a 6% rise in the S&P 500 Index. In addition, most of the other stocks in this group have actually posted negative returns averaging in the double digits over the same time span. | | | | | | | | | | | | | 6/30/20: \$1.567 billion, \$8.65/share.
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 | 13.08 | 13.84 | 14.61 | 13.98 | 15.49 | 15.18 | 16.25 | 16.28 | 16.78 | 17.72 | 18.54 | 18.81 | 19.04 | 19.97 | 20.95 | 21.85 | Revenues per sh | 24.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | .65 | d.47 | 2.87 | 2.89 | 3.56 | 3.73 | 4.27 | 4.36 | 4.75 | 5.13 | 5.26 | 5.14 | 6.15 | 6.65 | 8.00 | 8.15 | "Cash Flow" per sh | 8.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | d.97 | d2.14 | 1.10 | 1.25 | 1.53 | 1.72 | 2.11 | 2.06 | 2.39 | 2.64 | 2.62 | 2.38 | 3.15 | 3.43 | 3.85 | 4.20 | Earnings per sh ^A | 4.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | 4.31 | 4.74 | 6.31 | 4.50 | 4.38 | 5.27 | 5.25 | 5.50 | 5.33 | 6.51 | 7.36 | 8.04 | 8.78 | 9.15 | 8.70 | 9.20 | Cap'l Spending per sh | 9.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | 23.86 | 28.39 | 25.64 | 22.91 | 23.59 | 24.11 | 25.11 | 26.52 | 27.39 | 28.25 | 29.24 | 30.13 | 32.42 | 33.83 | 35.40 | 36.95 | Book Value per sh ^D | 42.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | 160.00 | 160.00 | 160.00 | 174.63 | 175.00 | 175.66 | 176.99 | 178.25 | 179.46 | 178.28 | 178.10 | 178.44 | 180.68 | 180.81 | 181.50 | 182.00 | Common Shs Outst'g ^C | 189.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | -- | -- | 18.9 | 15.6 | 14.6 | 16.8 | 16.7 | 19.9 | 20.0 | 20.5 | 27.7 | 33.8 | 27.3 | 32.9 | 32.9 | 32.9 | Avg Ann'l P/E Ratio | 23.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | -- | -- | 1.14 | 1.04 | .93 | 1.05 | 1.06 | 1.12 | 1.05 | 1.03 | 1.45 | 1.70 | 1.47 | 1.79 | 1.79 | 1.79 | Relative P/E Ratio | 1.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | -- | -- | 1.9% | 4.2% | 3.8% | 3.1% | 3.4% | 2.0% | 2.5% | 2.5% | 2.0% | 2.0% | 2.1% | 1.7% | 1.7% | 1.7% | Avg Ann'l Div'd Yield | 2.5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CAPITAL STRUCTURE as of 6/30/20
Total Debt \$10578 mil. Due in 5 Yrs \$2500 mil.
LT Debt \$9589 mil. LT Interest \$354 mil.
(60% of Cap'l)

 |
 | | | | | | | | | | | | 2710.7 | 2666.2 | 2876.9 | 2901.9 | 3011.3 | 3159.0 | 3302.0 | 3357.0 | 3440.0 | 3610.0 | 3800 | 3975 | Revenues (\$mill) | 4675 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Leases, Uncapitalized: Annual rentals \$14.0 mil.
Pension Assets: \$1747.0 mil
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Pfd Stock: \$5.0 mil. Pfd Div'd \$4.4 mil

 |
 | | | | | | | | | | | | 267.8 | 304.9 | 374.3 | 369.3 | 429.8 | 476.0 | 468.0 | 426.0 | 567.0 | 621.0 | 700 | 765 | Net Profit (\$mill) | 925 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Common Stock: 181,204,068 shares as of 7/31/20

 |
 | | | | | | | | | | | | 40.4% | 39.5% | 40.7% | 39.1% | 39.4% | 39.1% | 39.2% | 53.3% | 28.2% | 25.5% | 21.0% | 21.0% | Income Tax Rate | 21.0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| MARKET CAP: \$26.2 billion (Large Cap)

 |
 | | | | | | | | | | | | -- | -- | 6.2% | 5.1% | -- | -- | -- | -- | 5.1% | 4.0% | 5.0% | 5.0% | AFUDC % to Net Profit | 5.0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CURRENT POSITION 2018 2019 6/30/20 (SMILL)

 |
 | | | | | | | | | | | | 56.8% | 55.7% | 53.9% | 52.4% | 52.4% | 53.7% | 52.4% | 54.7% | 56.3% | 58.5% | 61.0% | 60.5% | Long-Term Debt Ratio | 59.0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ANNUAL RATES Past 10 Yrs. Past 5 Yrs. Est'd '17-'19 of change (per sh)

 |
 | | | | | | | | | | | | 43.2% | 44.2% | 46.1% | 47.6% | 47.4% | 46.2% | 47.5% | 45.3% | 43.6% | 41.4% | 39.0% | 39.5% | Common Equity Ratio | 41.0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Business: American Water Works Company, Inc. is the largest investor-owned water and wastewater utility in the U.S., providing services to approximately 15 million people in 46 states. Nonregulated business assists municipalities and military bases with the maintenance and upkeep as well. Regulated operations made up 86% of 2019 revenues. New Jersey is its largest market accounting for 24.6% of regulated revenues; Pennsylvania, 22.3%; Missouri, 10.5%. Has 6,800 employees. The Vanguard Grp. owns 12.4% of outstanding shares; BlackRock, Inc., 8.7%; officers & directors, less than 1.0%. (3/20 Proxy). President & CEO: Susan N. Story. Chairman: George MacKenzie. Address: 1 Water Street, Camden, NJ 08102. Tel.: 856-346-8200. Internet: www.amwater.com.

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 | | | | | | | | | | | | 9561.3 | 9580.3 | 9635.5 | 9940.7 | 10364 | 10911 | 10967 | 11875 | 13433 | 14760 | 15800 | 17050 | Total Capital (\$mill) | 20000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Shares of American Water Works continue to outperform the broader market, as well as that of its peers. Since our last report three months ago, the equity has increased nearly 14% in value, versus about a 6% rise in the S&P 500 Index. In addition, most of the other stocks in this group have actually posted negative returns averaging in the double digits over the same time span.

 |
 | | | | | | | | | | | | 11059 | 11021 | 11739 | 12391 | 12900 | 13933 | 14992 | 16246 | 17409 | 18232 | 19100 | 20000 | Net Plant (\$mill) | 22200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Earnings and dividend growth prospects are bright. Due to its bolt-on acquisition strategy, a constructive relationship with its many different state regulators, and the ability to cut costs, we estimate that American Water's share-net and annual payout may well rise 9%-11% in 2020 and 2021. This is far superior to most others in the industry. Much of the expense control is related to its merger policy. Because the water industry is very fragmented, significant economies of scale are very attainable. So, American Water can purchase other water districts and increase the margins on the purchased assets. Through July of this year, more than 60,000 new customers were added, with another 43,600 under agreement.

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 | | | | | | | | | | | | 4.4% | 4.8% | 5.4% | 5.1% | 5.5% | 5.7% | 5.6% | 4.9% | 5.4% | 5.4% | 5.5% | 5.5% | Return on Total Cap'l | 6.0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| The construction budget remain massive. As is the case with most water utilities, the company is investing heavily to upgrade and modernize its pipeline and water treatment assets. Approximately \$28 billion has been spent over the past decade, with about another \$20 billion projected to be used over the next decade. Still, we expect American Water's balance sheet to remain in decent shape even though a fair amount of new debt will probably be needed to finance the building program.

 |
 | | | | | | | | | | | | 6.5% | 7.2% | 8.4% | 7.8% | 8.7% | 9.4% | 9.0% | 7.9% | 9.7% | 10.1% | 11.0% | 11.5% | Return on Shr. Equity | 11.5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Investors will likely have to continue to pay a hefty premium for these timely shares. As we have pointed out in previous reports, by a metric such as the Price/Earnings ratio, AWK is trading at levels well above the market averages and its group. We attribute this to the company's well-defined earnings and dividend growth prospects. The equity also seems to benefit from its large size, as well as the lack of options in this space for institutions seeking to take large positions. Over the pull to 2023-2025, these shares have subpar total return prospects.

 |
 | | | | | | | | | | | | 6.5% | 7.2% | 8.4% | 7.8% | 8.7% | 9.4% | 9.0% | 7.9% | 9.7% | 10.1% | 11.0% | 11.9% | Return on Com Equity | 11.5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Shares of American Water Works continue to outperform the broader market, as well as that of its peers. Since our last report three months ago, the equity has increased nearly 14% in value, versus about a 6% rise in the S&P 500 Index. In addition, most of the other stocks in this group have actually posted negative returns averaging in the double digits over the same time span.

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 | | | | | | | | | | | | 2.8% | 3.5% | 3.6% | 4.7% | 4.3% | 4.7% | 4.0% | 2.5% | 4.2% | 4.4% | 5.0% | 4.5% | Retained to Com Eq | 4.5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Earnings and dividend growth prospects are bright. Due to its bolt-on acquisition strategy, a constructive relationship with its many different state regulators, and the ability to cut costs, we estimate that American Water's share-net and annual payout may well rise 9%-11% in 2020 and 2021. This is far superior to most others in the industry. Much of the expense control is related to its merger policy. Because the water industry is very fragmented, significant economies of scale are very attainable. So, American Water can purchase other water districts and increase the margins on the purchased assets. Through July of this year, more than 60,000 new customers were added, with another 43,600 under agreement.

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 | | | | | | | | | | | | 56% | 52% | 57% | 40% | 50% | 50% | 56% | 68% | 56% | 57% | 56% | 59% | All Div'ds to Net Prof | 59% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | | | | | | | | | | | | 756 | 844 | 936 | 821 | 3357 | 761 | 853 | 976 | 850 | 3440 | 813 | 882 | 1013 | 902 | 3610 | 844 | 931 | 1090 | 935 | 3800 | 885 | 970 | 1120 | 1000 | 3975 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | | | | | | | | | | | | 52 | .73 | 1.12 | .01 | 2.38 | .59 | .91 | 1.03 | .62 | 3.15 | .62 | .94 | 1.33 | .54 | 3.43 | .68 | .97 | 1.40 | .80 | 3.85 | .72 | 1.05 | 1.60 | .83 | 4.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 |
 | | | | | | | | | | | | .34 | .375 | .375 | .375 | 1.47 | .375 | .415 | .415 | .415 | 1.62 | .415 | .455 | .455 | .455 | 1.78 | .455 | .50 | .50 | .50 | 1.96 | .50 | .50 | .55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 |
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Stock's Price Stability 85
Price Growth Persistence 100
Earnings Predictability 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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(B) Dividends paid in March, June, September, and December. (D) Div. reinvestment available.
(E) Pro forma numbers for '06 & '07.
(C) In millions. (D) Includes intangibles. On | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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CALIFORNIA WATER NYSE-CWT		RECENT PRICE	P/E RATIO	Trailing: 53.8 Median: 23.0	RELATIVE P/E RATIO	DIV'D YLD	2.0%	VALUE LINE													
TIMELINESS 3 Lowered 3/6/20	High: 24.1 19.8 19.4 19.3 23.4 26.4 26.0 36.8 46.2 49.1 57.5 57.4	43.55	33.0		1.58	2.0%															
SAFETY 3 Lowered 7/27/07	Low: 16.7 16.9 16.7 16.8 18.4 20.3 19.5 22.5 32.4 35.3 44.6 39.7																				
TECHNICAL 3 Lowered 6/12/20	LEGENDS 1.33 x Dividends p sh divided by Interest Rate Relative Price Strength 2-for-1 split 6/11 Options: Yes Shaded area indicates recession																				
BETA .65 (1.00 = Market)	18-Month Target Price Range Low-High Midpoint (% to Mid) \$36-\$71 \$54 (25%)																				
2023-25 PROJECTIONS		High	Price	Gain	Ann'l Total	Ann'l Return															
Low	55	35	(+25%)	8%	-3%																
			(-20%)																		
Institutional Decisions		4Q2019 1Q2020 2Q2020		Percent	18																
To Buy	115	104	109	shares	12																
To Sell	101	118	107	traded	6																
Hld's(000)	36624	35792	35580						% TOT. RETURN 8/20												
								THIS STOCK													
								VL ARITH.													
								1 yr. -18.6 8.7													
								3 yr. 26.9 17.6													
								5 yr. 141.4 45.6													
2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	© VALUE LINE PUB. LLC	23-25		
8.59	8.72	8.10	8.88	9.90	10.82	11.05	12.00	13.34	12.23	12.50	12.29	12.70	13.89	14.53	14.72	14.60	15.20	15.20	Revenues per sh	15.00	
1.42	1.52	1.36	1.56	1.86	1.93	1.93	2.07	2.32	2.21	2.47	2.22	2.34	3.00	3.11	3.14	2.45	3.30	3.30	"Cash Flow" per sh	3.50	
.73	.74	.67	.75	.95	.98	.91	.86	1.02	1.02	1.19	.94	1.01	1.40	1.36	1.31	.85	1.75	1.75	Earnings per sh ^A	2.00	
.57	.57	.58	.58	.59	.59	.60	.62	.63	.64	.65	.67	.69	.72	.75	.75	.85	.85	.85	Div'd Decl'd per sh ^B	1.00	
1.87	2.01	2.14	1.84	2.41	2.66	2.97	2.83	3.04	2.58	2.76	3.69	4.77	5.40	5.65	5.64	4.85	4.75	4.75	Cap'l Spending per sh	4.25	
7.83	7.90	9.07	9.25	9.72	10.13	10.45	10.76	11.28	12.54	13.11	13.41	13.75	14.44	15.19	16.07	15.70	15.90	15.90	Book Value per sh ^C	16.05	
36.73	36.78	41.31	41.33	41.45	41.53	41.67	41.82	41.98	47.74	47.81	47.88	47.97	48.01	48.07	48.53	50.00	51.00	51.00	Common Shs Outst'g ^D	53.00	
20.1	24.9	29.2	26.1	19.8	19.7	20.3	21.3	17.9	20.1	19.7	24.8	29.6	26.9	30.3	39.3	39.3	39.3	39.3	Avg Ann'l P/E Ratio	23.0	
1.06	1.33	1.58	1.39	1.19	1.31	1.29	1.34	1.14	1.13	1.04	1.25	1.55	1.35	1.64	2.13	2.13	2.13	2.13	Relative P/E Ratio	1.25	
3.9%	3.1%	2.9%	3.0%	3.1%	3.1%	3.2%	3.4%	3.5%	3.1%	2.8%	2.9%	2.3%	1.9%	1.8%	1.5%	1.5%	1.5%	1.5%	Avg Ann'l Div'd Yield	2.3%	
CAPITAL STRUCTURE as of 6/30/20		460.4	501.8	560.0	584.1	597.5	588.4	609.4	666.9	698.2	714.6	730	775	795	795	795	795	795	Revenues (\$mill) ^E	795	
Total Debt \$1182.3 mill. Due in 5 Yrs \$357.0 mill.		37.7	36.1	42.6	47.3	56.7	45.0	48.7	67.2	65.6	63.1	43.0	90.0	105	105	105	105	105	Net Profit (\$mill)	105	
LT Debt \$785.3 mill. LT Interest \$40.0 mill.		39.5%	40.5%	37.5%	30.3%	33.0%	36.0%	35.5%	30.1%	24.5%	19.1%	21.0%	21.0%	21.0%	21.0%	21.0%	21.0%	21.0%	Income Tax Rate	21.0%	
(Total interest coverage: 3.2x) (50% of Cap'l)		4.2%	7.6%	8.0%	4.3%	2.7%	4.3%	6.1%	3.5%	3.1%	5.8%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	AFUDC % to Net Profit	5.0%	
Pension Assets-12/19 \$573.6 mill.		52.4%	51.7%	47.8%	41.6%	40.1%	44.4%	44.6%	42.7%	49.3%	50.2%	49.0%	47.0%	43.5%	43.5%	43.5%	43.5%	43.5%	Long-Term Debt Ratio	43.5%	
Oblig. \$812.0 mill.		47.6%	48.3%	52.2%	58.4%	59.9%	55.6%	55.4%	57.3%	50.7%	49.8%	51.0%	53.0%	53.0%	53.0%	53.0%	53.0%	53.0%	Equity Ratio	56.5%	
Pfd Stock None		914.7	931.5	908.2	1024.9	1045.9	1154.4	1191.2	1209.3	1440.2	1566.7	1535	1525	1525	1525	1525	1525	1525	Total Capital (\$mill)	1500	
Common Stock 49,398,000 shs.		1294.3	1381.1	1457.1	1515.8	1590.4	1701.8	1859.3	2048.0	2232.7	2406.4	2550	2550	2550	2550	2550	2550	2550	Net Plant (\$mill)	2500	
		5.5%	5.5%	6.3%	6.0%	6.3%	5.2%	5.5%	7.1%	5.9%	5.5%	3.5%	6.5%	6.5%	6.5%	6.5%	6.5%	6.5%	Return on Total Cap'l	8.0%	
		8.6%	8.0%	9.0%	7.9%	9.1%	7.0%	7.4%	9.7%	9.0%	8.1%	5.5%	11.0%	11.0%	11.0%	11.0%	11.0%	11.0%	Return on Shr. Equity	12.5%	
		8.6%	8.0%	9.0%	7.9%	9.1%	7.0%	7.4%	9.7%	9.0%	8.1%	5.5%	11.0%	11.0%	11.0%	11.0%	11.0%	11.0%	Return on Com Equity	12.5%	
MARKET CAP: \$2.2 billion (Mid Cap)		3.0%	2.3%	3.4%	3.4%	4.1%	2.0%	2.4%	4.7%	4.0%	3.2%	NMF	5.5%	5.5%	5.5%	5.5%	5.5%	5.5%	Retained to Com Eq	6.0%	
CURRENT POSITION 2018 2019 6/30/20		66%	71%	62%	56%	55%	71%	68%	51%	55%	60%	100%	51%	51%	51%	51%	51%	51%	All Div'ds to Net Prof	53%	
(SMILL)																					
Cash Assets	47.2	42.7	114.4																		
Other	141.5	142.0	152.5																		
Current Assets	188.7	184.7	266.9																		
Accts Payable	95.6	108.5	128.2																		
Debt Due	170.0	197.0	397.0																		
Other	55.6	53.2	132.4																		
Current Liab.	321.2	358.7	557.6																		
ANNUAL RATES PAST		10 Yrs.		Past 5 Yrs.		Est'd '17-'19															
of change (per sh)						to '23-'25															
Revenues	4.0%	2.5%	.5%																		
"Cash Flow"	5.5%	5.5%	2.0%																		
Earnings	4.5%	4.5%	6.5%																		
Dividends	2.5%	3.5%	5.5%																		
Book Value	4.5%	4.5%	7.0%																		
Cal-endar	QUARTERLY REVENUES (\$ mill) ^E				Full Year																
Mar.31	Jun.30	Sep.30	Dec.31																		
2017	122.1	171.1	211.7	162.0	666.9																
2018	134.6	174.9	221.3	167.4	698.2																
2019	126.1	179.0	232.6	176.9	714.6																
2020	125.6	175.5	247	181.9	730																
2021	147	195	248	185	775																
Cal-endar	EARNINGS PER SHARE ^A				Full Year																
Mar.31	Jun.30	Sep.30	Dec.31																		
2017	.02	.39	.70	.29	1.40																
2018	d.02	.31	.75	.32	1.36																
2019	d.16	.35	.88	.24	1.31																
2020	d.42	.11	.79	.37	.85																
2021	.05	.42	.90	.38	1.75																
Cal-endar	QUARTERLY DIVIDENDS PAID ^B				Full Year																
Mar.31	Jun.30	Sep.30	Dec.31																		
2016	.1725	.1725	.1725	.1725	.69																
2017	.18	.18	.18	.18	.72																
2018	.1875	.1875	.1875	.1875	.75																
2019	.1975	.1975	.1975	.1975	.79																
2020	.2125	.2125	.2125																		
(A) Basic EPS. Excl. nonrecurring gain (loss): \$0.51/sh.																					
(B) Dividends historically paid in late Feb., May, Aug., and Nov. ■ Div'd reinvestment plan available.																					
(C) Incl. intangible assets. In '19 : \$24.9 mill.																					
(D) In millions, adjusted for split.																					
(E) Excludes non-reg. rev.																					
Company's Financial Strength B++																					
Stock's Price Stability 95																					
Price Growth Persistence 60																					
Earnings Predictability 65																					
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California Water's financial results continue to be hampered by a lack of resolution on the rate case front. Specifically, the California Public Utilities Commission has yet to officially approve the settlement filed in October of 2019 that would provide general rate relief and other cost recovery methods. The new rates would be effective from January 1, 2020 and would be recouped via customer surcharges. In fact, if they had been approved, management estimates an additional \$30 million in revenues would have been generated in the June period. Moreover, water production costs, another metric that would have benefited from a rate case approval, increased significantly from the previous-year figure. All told, CWT drastically underperformed expectations in the first half of 2020. Second-quarter revenues of \$176 million fell modestly, year over year, while share net declined sharply from \$0.35, to \$0.11.

We are tempering our 2020 profit forecast for the second time this year. Due largely to a weak first-half showing, we now expect California Water to earn \$0.85 a share this year, down from our previous

call of \$1.20 a share. **Financials should rebound sharply next year.** We are cautiously optimistic that the general rate case situation will be resolved in the near future. In addition, operating headwinds, such as rising production expenses and purchased water costs, may begin to ease. Too, an expanded footprint in Washington State, thanks to its recent acquisition of Rainier View Water Company, augurs well. In sum, we are leaving unchanged our 2021 top- and bottom-line estimates at \$775 million and \$1.75 a share, respectively. **Interested subscribers with a holding period out to mid-decade would be wise to wait for a better entry point.** Overall, we think California Water's long-term business prospects are bright, and operating conditions should smooth out once regulatory matters are in the rear-view mirror. That said, the stock price has been on a tear since early 2016 and, as a result, total return potential over the pull to 2023-2025 is subpar at the recent quotation. The equity is only an average selection for the year ahead, too.

Nicholas P. Patrikis October 9, 2020

ESSENTIAL UTIL. NYSE-WTRG										RECENT PRICE	P/E RATIO		RELATIVE P/E RATIO	DIV'D YLD	VALUE LINE				
										39.93	39.1 (Trailing: 34.7; Median: 23.0)		1.87	2.6%					
TIMELINESS 2 Lowered 4/24/20 SAFETY 2 Raised 4/20/12 TECHNICAL 2 Lowered 6/12/20 BETA .90 (1.00 = Market) 18-Month Target Price Range Low-High Midpoint (% to Mid) \$31-\$80 \$56 (40%)										High: 17.2 18.4 19.0 21.5 28.1 28.2 31.1 35.8 39.6 39.4 47.3 54.5 Low: 12.3 13.2 15.4 16.8 20.6 22.4 24.4 28.0 29.4 32.1 32.7 30.4									
2023-25 PROJECTIONS High Low Price Gain Ann'l Total Return 55 40 (+40%) (Nil) 11% 3%										LEGENDS 1.50 x Dividends p sh divided by Interest Rate Relative Price Strength 5-for-4 split 9/13 Options: Yes Shaded area indicates recession									
Institutional Decisions 4Q2019 1Q2020 2Q2020 to Buy 274 252 250 to Sell 242 292 235 Hld's(000) 149836 161407 161504										Percent shares traded 15 10 5									
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021										© VALUE LINE PUB. LLC 23-25									
2.78 3.08 3.23 3.61 3.71 3.93 4.21 4.10 4.32 4.32 4.37 4.61 4.62 4.56 4.71 4.03 6.35 7.55										Revenues per sh 8.45									
.87 .97 1.01 1.10 1.14 1.29 1.42 1.45 1.51 1.82 1.89 1.87 2.07 2.12 1.90 1.73 1.95 2.30										"Cash Flow" per sh 2.65									
.51 .57 .56 .57 .58 .62 72 .83 .87 1.16 1.20 1.14 1.32 1.35 1.08 1.04 1.00 1.20										Earnings per sh A 1.75									
.29 .32 .35 .38 .41 .44 47 .50 .54 .58 .63 69 .74 .79 .85 .91 .97 1.04										Div'd Decl'd per sh B= 1.30									
1.23 1.47 1.64 1.43 1.58 1.66 1.89 1.90 1.98 1.73 1.84 2.07 2.16 2.69 2.78 2.49 2.20 3.80										Cap'l Spending per sh 4.75									
4.71 5.04 5.57 5.85 6.26 6.50 6.81 7.21 7.90 8.63 9.27 9.78 10.43 11.02 11.28 17.58 19.00 19.05										Book Value per sh 20.00									
158.97 161.21 165.41 166.75 169.21 170.61 172.46 173.60 175.43 177.93 178.59 176.54 177.39 177.71 178.09 220.76 251.25 252.00										Common Shs Outst'g C 260.00									
25.1 31.8 34.7 32.0 24.9 23.1 21.1 21.3 21.9 21.2 20.8 23.5 23.9 24.7 32.6 39.1										Avg Ann'l P/E Ratio 27.0									
1.33 1.69 1.87 1.70 1.50 1.54 1.34 1.34 1.39 1.19 1.09 1.18 1.25 1.24 1.76 2.12										Relative P/E Ratio 1.50									
2.3% 1.8% 1.8% 2.1% 2.8% 3.1% 3.1% 2.8% 2.8% 2.4% 2.5% 2.6% 2.3% 2.4% 2.4%										Avg Ann'l Div'd Yield 2.7%									
CAPITAL STRUCTURE as of 6/30/20 Total Debt \$5277.4 mill. Due in 5 Yrs \$496.0 mill. LT Debt \$5174.6 mill. LT Interest \$200.0 mill. (53% of Cap'l)										726.1 712.0 757.8 768.6 779.9 814.2 819.9 809.5 838.1 889.7 1600 1900 124.0 144.8 153.1 205.0 213.9 201.8 234.2 239.7 192.0 224.5 250 300 39.2% 32.9% 39.0% 10.0% 10.5% 6.9% 8.2% 6.6% 6.6% 2.0% 2.0% 3.5% -- -- -- 1.1% 2.4% 3.1% 3.8% 6.3% 6.8% 7.2% 7.0% 7.0%									
Pension Assets-12/19 \$266.4 mill. Oblig. \$310.5 mill.										56.6% 52.7% 52.7% 48.9% 48.5% 50.3% 48.4% 50.6% 54.4% 43.1% 53.5% 57.0% 43.4% 47.3% 47.3% 51.1% 51.5% 49.7% 51.6% 49.4% 45.6% 56.9% 46.5% 43.0%									
Pfd Stock None Common Stock 245,151,093 shares as of 7/27/20										2706.2 2646.8 2929.7 3003.6 3216.0 3469.5 3587.7 3965.4 4407.8 6824.2 10300 11000 3469.3 3612.9 3936.2 4167.3 4402.0 4688.9 5001.6 5399.9 6345.8 6345.8 9500 10150									
MARKET CAP: \$9.8 billion (Large Cap)										5.9% 6.9% 6.6% 8.0% 7.8% 6.9% 7.6% 7.1% 5.5% 4.2% 3.0% 4.0% 10.6% 11.6% 11.0% 13.4% 12.9% 11.7% 12.7% 12.2% 9.6% 5.8% 5.0% 6.5% 10.6% 11.6% 11.0% 13.4% 12.9% 11.7% 12.7% 12.2% 9.6% 5.8% 5.0% 6.5%									
CURRENT POSITION 2018 2019 6/30/20 (\$MILL)										3.7% 4.6% 4.3% 6.7% 6.1% 4.7% 5.6% 5.1% 2.1% 9% NMF 1.0% 65% 60% 61% 50% 52% 60% 56% 59% 79% 84% 97% 87%									
Cash Assets 3.6 1868.9 7.3 Receivables 101.2 67.1 152.9 Inventory (AvgCst) 15.8 18.4 50.1 Other 26.6 58.3 102.2 Current Assets 147.2 2012.7 312.5 Accts Payable 77.3 74.9 124.1 Debt Due 160.0 130.8 102.8 Other 167.1 113.1 221.3 Current Liab. 399.0 318.8 448.2										BUSINESS: Essential Utilities, Inc. became the new name for Aqua America on Feb. 3, 2020, to reflect the acquisition of Peoples, a natural gas utility, which occurred in 3/20. In 2019, Aqua Amer. provided water and wastewater services to about three million people in PA, OH, TX, IL, NC, NJ, IN, and VA. Employed 1,583. Acquired AquaSource, 7/13; North Maine Utilities, 7/15; and others.									
ANNUAL RATES Past 10 Yrs. Past 5 Yrs. Est'd '17-'19 of change (per sh)										Essential Utilities raised its dividend a solid 7% last quarter. The company increased the share payout from \$0.2343 to \$0.2507. This rate of increase ought to be maintained to mid-decade.									
Revenues 1.5% 5% 11.5% "Cash Flow" 5.0% 2.0% 5.5% Earnings 7.0% 1.5% 7.0% Dividends 7.5% 8.0% 7.5% Book Value 8.0% 9.0% 7.0%										Earnings comparisons should be flat in 2020. Even though the second quarter surpassed our expectations, the company will probably be hindered by the costs associated with the large acquisition it made earlier this year. Recall that it (then known as Aqua America), paid \$4.3 billion and assumed over \$1 billion in debt to purchase Peoples gas utility. All told, Essential's share net should be around \$1.00, which isn't bad considering the amount of unusual charges. It also should be noted that both of the company's two key segments are much less vulnerable to the economic slowdown caused by the coronavirus. With the exception of industrial customers, the demand for water and gas is relatively inelastic.									
QUARTERLY REVENUES (\$ mill.)										with some rate relief and cost savings, should enable Essential's share net to reach \$1.20.									
Cal-endar Mar.31 Jun.30 Sep.30 Dec.31 Full Year										The construction budget is large. This year, the company plans on spending only \$550 million to upgrade its water pipelines and other assets. However, capital expenditures have been projected to total about \$2.8 billion through 2022. Thus, spending ought to average over a \$1 billion annually in 2021 and 2020.									
2017 187.8 203.4 215.0 203.3 809.5 2018 194.3 211.9 226.2 205.7 838.1 2019 201.1 218.9 243.6 226.1 889.7 2020 255.6 384.5 395 564.9 1600 2021 395 450 430 625 1900										Finances are more than decent. True, debt levels have increased as a result of the Peoples merger. In addition, external funds will be required to fund the massive building program discussed above. Nevertheless, the balance sheet is still better than average, and will likely remain so.									
EARNINGS PER SHARE A										These shares are ranked 2 (Above Average) for year-ahead performance. So short-term investors looking for well-defined prospects should find the stock of interest. For those looking out to 2023-2025, however, total return potential remains well below the Value Line median, as is the case with most members in this group.									
Cal-endar Mar.31 Jun.30 Sep.30 Dec.31 Full Year										2017 .28 .34 .43 .30 1.35 2018 .29 .37 .44 d.02 1.08 2019 .09 .25 .38 .28 1.04 2020 .20 .29 .23 .28 1.00 2021 .22 .33 .33 .32 1.20									
QUARTERLY DIVIDENDS PAID B										In 2021, we expect the bottom line to get back on track. Management is estimating that the regulated water and segments will grow 6% to 7.0%, and 8% to 10%, annually through 2022. This, along									
Cal-endar Mar.31 Jun.30 Sep.30 Dec.31 Full Year										2016 .178 .178 .1913 .1913 .74 2017 .1913 .1913 .2047 .2047 .79 2018 .2047 .2047 .219 .219 .85 2019 .219 .219 .2343 .2343 .91 2020 .2343 .2343 .2507									
(A) Diluted eqs. Excl. nonrec. gains: '12, 18c. Excl. gain from disc. operations: '12, 7c; '13, 9c; '14, 11c. Quarterly EPS do not add in '19 due to a large change in the number of shares										(C) In millions, adjusted for stock splits. report early Nov. (B) Dividends historically paid in early March, June, Sept., & Dec. (D) Includes intangibles: 6/30/20, \$2,342 bill./\$9.55 a share.									
(A) Diluted eqs. Excl. nonrec. gains: '12, 18c. Excl. gain from disc. operations: '12, 7c; '13, 9c; '14, 11c. Quarterly EPS do not add in '19 due to a large change in the number of shares										Company's Financial Strength Stock's Price Stability 90 Price Growth Persistence 95 Earnings Predictability 80									
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MIDDLESEX WATER NDQ-MSEX										RECENT PRICE	P/E RATIO	Trailing: 29.4 Median: 21.0	RELATIVE P/E RATIO	DIV'D YLD	VALUE LINE																																		
TIMELINESS 2 Raised 5/15/20 SAFETY 2 New 10/21/11 TECHNICAL 2 Raised 5/11/20 BETA .70 (1.00 = Market) 18-Month Target Price Range Low-High Midpoint (% to Mid) \$53-\$99 \$76 (20%) 2023-25 PROJECTIONS High Price Gain Ann'l Total Return Low 50 50 (+5%) 3% (-20%) -3% Institutional Decisions 4Q2019 1Q2020 2Q2020 to Buy 68 55 68 to Sell 68 70 55 Held's(000) 10433 10280 10359 Percent shares traded 12 8 4																				Target Price Range 2023 2024 2025 120 100 80 64 48 32 24 20 16 12 8																													
CAPITAL STRUCTURE as of 6/30/20 Total Debt \$282.7 mill. Due in 5 Yrs \$33.3 mill. LT Debt \$237.9 mill. LT Interest \$7.2 mill. (Total interest coverage: 7.4x) (42% of Cap'l) Pension Assets-12/19 \$80.4 mill. Oblig. \$100.9 mill. Pfd Stock \$2.4 mill. Pfd Div'd: \$.1 mill. Common Stock 17,464,795 shs. as of 7/31/20 MARKET CAP: \$1.1 billion (Mid-Cap)										102.7 102.1 110.4 114.8 117.1 126.0 132.9 130.8 138.1 134.6 145 150 14.3 13.4 14.4 16.6 18.4 20.0 22.7 22.8 32.5 33.9 38.0 40.0 32.1% 32.7% 33.9% 34.1% 35.0% 34.5% 34.0% 32.7% 2.8% 2.8% 21.0% 21.0% 6.8% 6.1% 3.4% 1.9% 1.7% 1.9% 2.7% 3.1% 1.4% 3.4% 2.0% 2.0% 43.1% 42.3% 41.5% 40.4% 40.5% 39.4% 37.9% 37.5% 37.8% 41.5% 42.5% 41.5% 55.8% 56.6% 57.4% 58.7% 58.8% 59.8% 61.5% 61.8% 61.6% 58.2% 57.0% 58.0% 310.5 312.5 316.5 321.4 335.8 345.4 370.7 404.1 556.7 500 505 505 405.9 422.2 435.2 446.5 465.4 481.9 517.8 557.2 618.5 735 720 735 5.7% 5.2% 5.4% 5.9% 6.3% 6.6% 7.1% 6.9% 8.9% 6.7% 8.0% 8.5% 8.1% 7.5% 7.8% 8.7% 9.2% 9.6% 10.3% 9.8% 12.9% 10.4% 13.0% 13.5% 8.2% 7.5% 7.8% 8.7% 9.3% 9.6% 10.3% 9.9% 13.0% 10.4% 13.5% 13.5% 2.1% 1.0% 1.4% 2.4% 3.1% 3.5% 4.3% 3.8% 7.0% 5.4% 7.0% 7.0% 75% 87% 83% 73% 67% 63% 58% 62% 46% 48% 48% 49%										Revenues per sh 8.45 "Cash Flow" per sh 3.50 Earnings per sh 2.50 Div'd Decl'd per sh 1.25 Cap'l Spending per sh 5.00 Book Value per sh 17.35 Common Shs Outst'g 18.00 Avg Ann'l P/E Ratio 23.0 Relative P/E Ratio 1.30 Avg Ann'l Div'd Yield 2.2% Revenues (\$mill) 165 Net Profit (\$mill) 45.0 Income Tax Rate 21.0% AFUDC % to Net Profit 2.5% Long-Term Debt Ratio 39.0% Common Equity Ratio 60.5% Total Capital (\$mill) 515 Net Plant (\$mill) 775 Return on Total Cap'l 9.0% Return on Shr. Equity 14.5% Return on Com Equity 14.5% Retained to Com Eq 7.0% All Div'ds to Net Prof 50%																													
ANNUAL RATES Past Past Est'd '17-'19 of change (per sh) 10 Yrs. 5 Yrs. to 23-'25 Revenues 2.0% 2.5% 2.0% "Cash Flow" 6.0% 9.5% 4.5% Earnings 8.0% 12.0% 6.0% Dividends 2.5% 4.0% 5.5% Book Value 4.5% 6.0% 7.5%										QUARTERLY REVENUES (\$ mill.) Full Year Cal-endar Mar.31 Jun.30 Sep.30 Dec.31 2017 30.1 33.0 36.2 31.5 130.8 2018 31.2 34.9 38.7 33.3 138.1 2019 30.7 33.4 37.8 32.7 134.6 2020 31.8 35.3 42.0 35.9 145 2021 33.0 37.0 44.0 36.0 150										EARNINGS PER SHARE Full Year Cal-endar Mar.31 Jun.30 Sep.30 Dec.31 2017 .27 .33 .46 .32 1.38 2018 .27 .52 .74 .43 1.96 2019 .39 .49 .66 .46 2.01 2020 .44 .55 .69 .47 2.15 2021 .45 .55 .73 .52 2.25										QUARTERLY DIVIDENDS PAID Full Year Cal-endar Mar.31 Jun.30 Sep.30 Dec.31 2016 .19875 .19875 .19875 .21125 .81 2017 .21125 .21125 .21125 .22375 .86 2018 .22375 .22375 .22375 .24 .91 2019 .24 .24 .24 .2562 .98 2020 .2562 .2562 .2562										BUSINESS: Middlesex Water Company engages in the ownership and operation of regulated water utility systems in New Jersey, Delaware, and Pennsylvania. It also operates water and wastewater systems under contract on behalf of municipal and private clients in NJ and DE. Its Middlesex System provides water services to 61,000 retail customers, primarily in Middlesex County, New Jersey. In 2019, the Middlesex System accounted for 60% of operating revenues. At 12/31/19, the company had 352 employees. Incorporated: NJ. President, CEO, and Chairman: Dennis W. Doll. Officers & directors own 3.1% of the com. stock; BlackRock Inst. Trust Co., 7.7% (4/20 proxy). Add.: 485 C Route 1 South, Suite 400, Iselin, NJ 08830. Tel.: 732-634-1500. Int.: www.middlesexwater.com. Middlesex Water's bottom line surged in the June period. The regulated water utility posted second-quarter profits of \$0.55 a share, a nickel better than we had expected. Driving the outperformance was healthier operating margins and an income tax benefit related to recently adopted tangible property regulations. Revenues rose nicely, as well, thanks to an expanding customer base in its Delaware system and higher water consumption. Accordingly, we are adding \$0.05 to our earnings-per-share forecasts for this year and next, to \$2.15 and \$2.25, respectively. We are leaving unchanged our top-line estimates at this time. Plenty of tailwinds, such as higher rates, increasing customers, and a heightened approach to personal hygiene, are likely to persist. However, we are keeping an eye on residential water consumption levels as stay-at-home restrictions fade and members of the household slowly return to the office and classroom. The company recently wrapped up a major infrastructure project. Middlesex completed construction of a two-year, \$50 million supplemental transmission pipeline in its New Jersey system. Subsequent to this accomplishment, we do not expect leadership to take its foot off the gas in terms of infrastructure improvement spending. To reiterate, the company's long-term program, Water For Tomorrow, boasts a \$300 million budget, and ought to be used to replace and improve aging infrastructure such as water mains, pipelines, and wastewater treatment facilities. At recent levels, Middlesex stock is suited primarily for subscribers with a short-term investment horizon. The equity is presently in the good graces of our Timeliness Ranking System. That said, the stock's multiyear price ascent (MSEX shares recently traded at an all-time high) has limited some of its long-term appeal. To this point, capital appreciation potential over the 3- to 5-year time frame is below average, and the current dividend yield is dwarfed by the Value Line median. All told, we recommend buy-and-hold accounts defer capital commitments until a more attractive entry point is available. Nicholas P. Patrikis October 9, 2020									
(A) Diluted earnings. Next earnings report due late October.										(B) Dividends historically paid in mid-Feb., May, Aug., and November. Div'd reinvestment plan available.										(C) In millions.																													
Company's Financial Strength B++ Stock's Price Stability 80 Price Growth Persistence 60 Earnings Predictability 80										To subscribe call 1-800-VALUELINE																																							

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SJW GROUP NYSE-SJW			RECENT PRICE	P/E RATIO	Trailing: 42.5 Median: 21.0	RELATIVE P/E RATIO	DIV'D YLD	VALUE LINE	
TIMELINESS — Suspended 5/4/18 SAFETY 3 New 4/22/11 TECHNICAL — Suspended 5/4/18 BETA .80 (1.00 = Market)			61.23	28.2		1.35	2.1%		
18-Month Target Price Range Low-High Midpoint (% to Mid) \$54-\$128 \$91 (50%)									Target Price Range 2023 2024 2025 120 100 80 64 48 32 24 20 16 12 8
2023-25 PROJECTIONS High Price Gain Ann'l Total Low 65 (+5%) 4% Return									% TOT. RETURN 8/20 THIS STOCK VL ARITH. 1 yr. -7.2 8.7 3 yr. 18.6 17.6 5 yr. 138.5 45.6
Institutional Decisions to Buy 4Q2019 1Q2020 2Q2020 to Sell 93 72 78 Hld's (000) 76 95 75 19650 19448 19939			© VALUE LINE PUB. LLC 23-25						
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021			REVENUES PER SH 21.65 "Cash Flow" per sh 5.30 Earnings per sh 3.65 Div'd Decl'd per sh 1.66 Cap'l Spending per sh 6.50 Book Value per sh 39.15 Common Shs Outst'g 30.00 Avg Ann'l P/E Ratio 22.0 Relative P/E Ratio 1.20 Avg Ann'l Div'd Yield 2.1%						
CAPITAL STRUCTURE as of 6/30/20 Total Debt \$1338.4 mill. Due in 5 Yrs \$22.4 mill. LT Debt \$1316.0 mill. LT Interest \$50.0 mill. (LT Interest Coverage: 4.5x)			REVENUES (\$mill) 650 Net Profit (\$mill) 110 Income Tax Rate 21.0% AFUDC % to Net Profit 1.5% Long-Term Debt Ratio 39.0% Common Equity Ratio 61.0%						
Pension Assets-12/19 \$243.5 mill. Oblig. \$338.2 mill. Pfd Stock None. Common Stock 28,516,705 shs.			TOTAL CAPITAL (\$mill) 1925 Net Plant (\$mill) 2775 Return on Total Cap'l 6.5% Return on Shr. Equity 9.5% Return on Com Equity 9.5% Retained to Com Eq 5.0% All Div'ds to Net Prof 45%						
MARKET CAP: \$1.7 billion (Mid Cap) CURRENT POSITION 2018 2019 6/30/20 (\$MILL) Cash Assets 420.7 17.9 23.3 Accts Receivable 19.2 36.3 44.9 Other 62.8 67.8 77.3 Current Assets 502.7 122.0 145.5 Accts Payable 24.9 34.9 24.3 Debt Due -- 22.3 22.4 Other 139.1 177.4 211.3 Current Liab. 164.0 234.6 258.0			Shares of SJW traded above \$70 per share in mid-August before pulling back to levels seen three months prior. The East and West coasts (post CTWS merger) regulated water utility found some market support following the release of better-than-expected second-quarter financial results. Earlier this year, the company had been on shaky ground stemming from a combination of COVID-19-related disruptions and the ongoing integration of Connecticut Water. Even so, SJW delivered a relatively inspiring June-period performance. Revenues of \$147 million exceeded our \$135 million call, while earnings came in \$0.09 better than expected, at \$0.69 a share. However, the stock was unable to hold its gains, likely due to recent broader market turbulence amidst an uncertain economic backdrop. We are lifting our profit forecasts for this year and next. Specifically, we are adding \$0.10 and \$0.05 to our 2020 and 2021 share-net estimates, to \$2.05 and \$2.50, respectively. In regard to the latter, our call for healthy double-digit bottom-line expansion is underpinned by the assumption of subsidizing integration-related operating expenses, as well as lower production and water purchase costs. Despite slightly lagging the Value Line median, SJW is currently one of the more-attractive income-generating options in the Water Utility industry. The current yield is hovering just above 2.0%, while many of its peers fall below that metric. Additionally, a reasonable payout ratio and prospects for increased profitability suggest that annual dividend hikes are likely on tap over the coming years. We are fans of the long-term story here; however, at the recent quotation, we are not presently recommending the stock. From a business perspective, SJW is well positioned to benefit from increased hygiene awareness, a rapidly expanding customer base, and periodic rate hikes. Nevertheless, unranked SJW shares have risen considerably in price over the past few years, thus rendering 3- to 5-year total return potential subpar. All told, subscribers interested in adding a noncyclical water utility to their portfolios should hold off, for now.						
ANNUAL RATES of change (per sh) Past 10 Yrs. Past 5 Yrs. Est'd '17-'19 to '23-'25 Revenues 3.0% 2.0% 5.5% "Cash Flow" 6.0% 3.5% 4.5% Earnings 7.5% 4.5% 10.5% Dividends 6.0% 9.0% 7.0% Book Value 7.5% 12.0% 5.5%			QUARTERLY REVENUES (\$mill.) Cal-endar Mar.31 Jun.30 Sep.30 Dec.31 Full Year 2017 69.0 102.1 124.6 93.5 389.2 2018 75.0 99.1 124.9 98.7 397.7 2019 77.7 103.0 114.0 126.0 420.5 2020 115.8 147.2 160 132 555 2021 120 150 170 145 585						
QUARTERLY EARNINGS PER SHARE Cal-endar Mar.31 Jun.30 Sep.30 Dec.31 Full Year 2017 .18 .90 .94 .84 2.86 2018 .06 .62 .76 .38 1.82 2019 .21 .47 .33 .34 1.35 2020 .08 .69 .85 .43 2.05 2021 .20 .75 .90 .65 2.50			QUARTERLY DIVIDENDS PAID Cal-endar Mar.31 Jun.30 Sep.30 Dec.31 Full Year 2016 .2025 .2025 .2025 .2025 .81 2017 .2175 .2175 .2175 .3875 1.04 2018 .28 .28 .28 .28 1.12 2019 .30 .30 .30 .30 1.20 2020 .32 .32 .32 .32 1.20						
Company's Financial Strength B+ Stock's Price Stability 75 Price Growth Persistence 65 Earnings Predictability 45			Company's Financial Strength B+ Stock's Price Stability 75 Price Growth Persistence 65 Earnings Predictability 45						
Company's Financial Strength B+ Stock's Price Stability 75 Price Growth Persistence 65 Earnings Predictability 45			Company's Financial Strength B+ Stock's Price Stability 75 Price Growth Persistence 65 Earnings Predictability 45						

YORK WATER		NDQ-YORW		RECENT PRICE	P/E RATIO		Trailing: 35.0 Median: 26.0		RELATIVE P/E RATIO	DIV'D YLD	VALUE LINE
TIMELINESS 2 Raised 5/29/20 SAFETY 3 Lowered 7/17/15 TECHNICAL 2 Lowered 5/29/20 BETA .80 (1.00 = Market)		High: 18.0 18.0 18.1 18.5 22.0 24.3 26.7 39.8 39.9 36.1 47.3 51.3 Low: 9.7 12.8 15.8 16.8 17.6 18.8 19.7 23.8 31.7 27.5 30.3 34.6		43.39	34.2	1.64	1.7%				
18-Month Target Price Range Low-High Midpoint (% to Mid) \$34-\$74 \$54 (25%)		2023-25 PROJECTIONS High 50 30 Low 30 30 Price 50 (+15%) Gain (-30%) Ann'l Total Return 6% -6%									
Institutional Decisions to Buy 402019 102020 202020 to Sell 52 61 59 Held 39 52 48 (000s) 5387 5387 5479		Percent shares traded 12 8 4		% TOT. RETURN 8/20 THIS STOCK VL ARITH. 1 yr. 24.1 8.7 3 yr. 46.7 17.6 5 yr. 137.0 45.6							
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021		© VALUE LINE PUB. LLC 23-25		Revenues per sh 4.10 4.20 "Cash Flow" per sh 1.90 1.95 Earnings per sh A 1.30 1.35 Div'd Decl'd per sh B .70 .73 Cap'l Spending per sh 1.85 1.85 Book Value per sh 11.60 11.60 Common Shs Outst'g C 12.80 12.80 Avg Ann'l P/E Ratio 25.0 Relative P/E Ratio 1.40 Avg Ann'l Div'd Yield 2.4%							
CAPITAL STRUCTURE as of 6/30/20 Total Debt \$103.1 mill. Due in 5 Yrs \$42.5 mill. LT Debt \$96.6 mill. LT Interest \$5.5 mill.		(41% of Cap'l)		Revenues (\$mill) 65.0 Net Profit (\$mill) 20.5 Income Tax Rate 21.0% AFUDC % to Net Profit 1.5% Long-Term Debt Ratio 36.0% Common Equity Ratio 64.0% Total Capital (\$mill) 250 Net Plant (\$mill) 335 Return on Total Cap'l 9.0% Return on Shr. Equity 13.0% Return on Com Equity 13.0% Retained to Com Eq 5.0% All Div'ds to Net Prof 59%							
Pension Assets 12/19 \$49.3 mill. Oblig. \$47.3 mill.		Pfd Stock None		Business: The York Water Company is the oldest investor-owned regulated water utility in the United States. It has operated continuously since 1816. As of December 31, 2019, the company's average daily availability was 35.4 million gallons and its service territory had an estimated population of 201,000. Has more than 71,400 customers. Residential customers accounted for 65% of 2019 revenues; commercial and industrial (28%); other (7%). It also provides sewer billing services. Incorporated: PA. York had 106 full-time employees at 12/31/19. President/Chief Executive Officer: J.T. Hand. Officers/directors own 1.2% of the common stock (3/20 proxy). Address: 130 East Market Street, York, Pennsylvania 17401. Telephone: (717) 845-3601. Internet: www.yorkwater.com.							
Common Stock 13,033,999 shs.		MARKET CAP: \$575 million (Small Cap)		York Water delivered strong top- and bottom-line performances in the second quarter. Indeed, the Pennsylvania-based regulated water utility held up considerably well during the height of the pandemic, and should continue to thrive as the economy appears to be entering recovery mode. The company generated \$13.3 million in revenues in the June period, up 21% from the previous-year figure, while earnings clocked in at \$0.32 a share, up about 14% year over year. Underpinning the advances was a combination of recent rate hikes, increased water consumption per residential customers (largely due to more people staying and working from home amidst lingering health concerns), as well as growth in its customer base (both acquisition and homebuying related). Moreover, share profits were boosted by lower taxes tied to greater tangible property deductions and a declining interest expense.							
ANNUAL RATES Past 10 Yrs. Past 5 Yrs. Est'd '17-'19 of change (per sh)		QUARTERLY REVENUES (\$ mill.) Cal-endar Mar.31 Jun. 30 Sep. 30 Dec. 31 Full Year		projections stem partly from periodically rising operation and maintenance expenses. On top of that, as much of the population slowly returns to work and school, household water consumption could take a slight step back, despite an increase in general hygiene practices.							
QUARTERLY DIVIDENDS PAID B Cal-endar Mar.31 Jun.30 Sep.30 Dec.31 Full Year		QUARTERLY REVENUES (\$ mill.) Cal-endar Mar.31 Jun. 30 Sep. 30 Dec. 31 Full Year		True to form, infrastructure upgrades are on tap over the pull to mid-decade. York invested \$9.0 million year to date on various replacements and water system improvements, and expects to spend an additional \$12.0 million over the next six months on main extensions, wastewater treatment plant expansions, and broad pipe and service line upgrades. Infrastructure spending ought to considerably ramp up over the coming years, as the company focuses on delivering safe water to its growing customer base.							
EARNINGS PER SHARE A Cal-endar Mar.31 Jun. 30 Sep. 30 Dec. 31 Full Year		QUARTERLY REVENUES (\$ mill.) Cal-endar Mar.31 Jun. 30 Sep. 30 Dec. 31 Full Year		The equity is favorably ranked (2) for relative year-ahead price performance. That said, although York shares have slipped modestly in price since our mid-July review, total return potential out to 2023-2025 still leaves much to be desired at the recent quotation.							
QUARTERLY DIVIDENDS PAID B Cal-endar Mar.31 Jun.30 Sep.30 Dec.31 Full Year		QUARTERLY REVENUES (\$ mill.) Cal-endar Mar.31 Jun. 30 Sep. 30 Dec. 31 Full Year		We think modest financial growth is in the cards next year. Revenues are expected to increase to about \$55 million, while earnings may edge up a nickel, to \$1.35 a share. Our somewhat conservative							
QUARTERLY DIVIDENDS PAID B Cal-endar Mar.31 Jun.30 Sep.30 Dec.31 Full Year		QUARTERLY REVENUES (\$ mill.) Cal-endar Mar.31 Jun. 30 Sep. 30 Dec. 31 Full Year		Nicholas P. Patrikis October 9, 2020							

(A) Diluted earnings. Next earnings report due late October.
(B) Dividends historically paid in late February, June, September, and December.

(C) In millions, adjusted for split.

Company's Financial Strength	B+
Stock's Price Stability	75
Price Growth Persistence	75
Earnings Predictability	100

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Aquarion Water Company of New Hampshire, Inc.
Summary of Risk Premium Models for the
Proxy Group of Seven Water Companies

	<u>Proxy Group of Seven Water Companies</u>
Predictive Risk Premium Model (PRPM) (1)	10.82 %
Risk Premium Using an Adjusted Total Market Approach (2)	<u>10.30 %</u>
Average	<u><u>10.56 %</u></u>

Notes:

- (1) From page 2 of this Attachment.
- (2) From page 3 of this Attachment.

Aquarion Water Company of New Hampshire, Inc.
Indicated ROE
Derived by the Predictive Risk Premium Model (1)

	[1]	[2]	[3]	[4]	[5]	[6]	[7]
<u>Proxy Group of Seven Water Companies</u>	<u>LT Average Predicted Variance</u>	<u>Spot Predicted Variance</u>	<u>Recommended Variance</u>	<u>GARCH Coefficient</u>	<u>Predicted Risk Premium (2)</u>	<u>Risk-Free Rate (3)</u>	<u>Indicated ROE (4)</u>
American States Water Company	0.38%	0.37%	0.38%	1.8583	8.73%	2.11%	10.84%
American Water Works Company, Inc.	0.23%	0.15%	0.19%	5.9529	14.28%	2.11%	NMF
California Water Service Group	0.32%	0.29%	0.30%	1.8743	7.05%	2.11%	9.16%
Essential Utilities, Inc.	0.44%	0.44%	0.44%	2.2287	12.45%	2.11%	14.56%
Middlesex Water Company	0.30%	0.30%	0.30%	2.1314	7.91%	2.11%	10.02%
SJW Group	0.42%	0.37%	0.39%	1.5198	7.44%	2.11%	9.55%
York Water Company	0.45%	0.37%	0.41%	2.1147	10.95%	2.11%	<u>13.06%</u>
						Average	<u>11.20%</u>
						Median	<u>10.43%</u>
						Average of Mean and Median	<u>10.82%</u>

NMF = Not Meaningful Figure

Notes:

- (1) The Predictive Risk Premium Model uses historical data to generate a predicted variance and a GARCH coefficient. The historical data used are the equity risk premiums for the first available trading month as reported by Bloomberg Professional Service.
- (2) $(1 + (\text{Column [3]} * \text{Column [4]})^{12}) - 1$.
- (3) From note 2 on page 2 of Attachment DWD-5.
- (4) Column [5] + Column [6].

Aquarion Water Company of New Hampshire, Inc.
Indicated Common Equity Cost Rate
Through Use of a Risk Premium Model
Using an Adjusted Total Market Approach

<u>Line No.</u>		<u>Proxy Group of Seven Water Companies</u>
1.	Prospective Yield on Aaa Rated Corporate Bonds (1)	2.96 %
2.	Adjustment to Reflect Yield Spread Between Aaa Rated Corporate Bonds and A2 Rated Public Utility Bonds	<u>0.54</u> (2)
3.	Adjusted Prospective Yield on A2 Rated Public Utility Bonds	3.50 %
4.	Adjustment to Reflect Bond Rating Difference of Proxy Group	<u>0.06</u> (3)
5.	Adjusted Prospective Bond Yield	3.56 %
6.	Equity Risk Premium (4)	<u>6.74</u>
7.	Risk Premium Derived Common Equity Cost Rate	<u><u>10.30</u></u> %

- Notes:
- (1) Consensus forecast of Moody's Aaa Rated Corporate bonds from Blue Chip Financial Forecasts (see pages 10-11 of this Attachment).
 - (2) The average yield spread of A2 rated public utility bonds over Aaa rated corporate bonds of 0.54% from page 4 of this Attachment.
 - (3) Adjustment to reflect the A2/A3 Moody's LT issuer rating of the Utility Proxy Group as shown on page 5 of this Attachment. The 0.06% upward adjustment is derived by taking 1/6 of the spread between A2 and Baa2 Public Utility Bonds ($1/6 * 0.34\% = 0.06\%$) as derived from page 4 of this Attachment.
 - (4) From page 7 of this Attachment.

Aquarion Water Company of New Hampshire, Inc.
Interest Rates and Bond Spreads for
Moody's Corporate and Public Utility Bonds

Selected Bond Yields

	[1]	[2]	[3]
	Aaa Rated Corporate Bond	A2 Rated Public Utility Bond	Baa2 Rated Public Utility Bond
Sep-2020	2.31 %	2.84 %	3.17 %
Aug-2020	2.25	2.73	3.06
Jul-2020	2.14	2.74	3.09
Average	<u>2.23 %</u>	<u>2.77 %</u>	<u>3.11 %</u>

Selected Bond Spreads

A2 Rated Public Utility Bonds Over Aaa Rated Corporate Bonds:	<u>0.54 % (1)</u>
Baa2 Rated Public Utility Bonds Over A2 Rated Public Utility Bonds:	<u>0.34 % (2)</u>

Notes:

- (1) Column [2] - Column [1].
- (2) Column [3] - Column [2].

Source of Information:
Bloomberg Professional Service

Aquarion Water Company of New Hampshire, Inc.
Comparison of Long-Term Issuer Ratings for
Proxy Group of Seven Water Companies

	Moody's		Standard & Poor's	
	Long-Term Issuer Rating	October 2020	Long-Term Issuer Rating	October 2020
<u>Proxy Group of Seven Water Companies</u>	Long-Term Issuer Rating	Numerical Weighting (1)	Long-Term Issuer Rating	Numerical Weighting(1)
American States Water Company (2)	A2	6.0	A+	5.0
American Water Works Company Inc (3)	A3	7.0	A	6.0
California Water Service Group (4)	NR	--	A+	5.0
Essential Utilities, Inc. (5)	NR	--	A	6.0
Middlesex Water Company	NR	--	A	6.0
SJW Corp. (6)	NR	--	A/A-	6.5
York Water Company	NR	--	A-	7.0
Average	<u>A2/A3</u>	<u>6.5</u>	<u>A</u>	<u>5.9</u>

Notes:

- (1) From page 6 of this Attachment.
- (2) Ratings that of Golden State Water Company.
- (3) Ratings that of New Jersey and Pennsylvania American Water Companies.
- (4) Ratings that of California Water Service Company.
- (5) Ratings that of Aqua Pennsylvania, Inc.
- (6) Ratings that of San Jose Water Company and The Connecticut Water Company

Source Information: Moody's Investors Service
Standard & Poor's Global Utilities Rating Service

Numerical Assignment for
Moody's and Standard & Poor's Bond Ratings

<u>Moody's Bond Rating</u>	<u>Numerical Bond Weighting</u>	<u>Standard & Poor's Bond Rating</u>
Aaa	1	AAA
Aa1	2	AA+
Aa2	3	AA
Aa3	4	AA-
A1	5	A+
A2	6	A
A3	7	A-
Baa1	8	BBB+
Baa2	9	BBB
Baa3	10	BBB-
Ba1	11	BB+
Ba2	12	BB
Ba3	13	BB-
B1	14	B+
B2	15	B
B3	16	B-

Aquarion Water Company of New Hampshire, Inc.
Judgment of Equity Risk Premium for the
Proxy Group of Seven Water Companies

<u>Line No.</u>		<u>Proxy Group of Seven Water Companies</u>
1.	Calculated equity risk premium based on the total market using the beta approach (1)	7.72 %
2.	Mean equity risk premium based on a study using the holding period returns of public utilities with A2 rated bonds (2)	<u>5.75</u>
3.	Average equity risk premium	<u><u>6.74 %</u></u>

Notes: (1) From page 8 of this Attachment.
(2) From page 12 of this Attachment.

Aquarion Water Company of New Hampshire, Inc.
Derivation of Equity Risk Premium Based on the Total Market Approach
Using the Beta for the
Proxy Group of Seven Water Companies

<u>Line No.</u>	<u>Equity Risk Premium Measure</u>	<u>Proxy Group of Seven Water Companies</u>
<u>Ibbotson-Based Equity Risk Premiums:</u>		
1.	Ibbotson Equity Risk Premium (1)	5.78 %
2.	Regression on Ibbotson Risk Premium Data (2)	9.42
3.	Ibbotson Equity Risk Premium based on PRPM (3)	9.54
4.	Equity Risk Premium Based on Value Line Summary and Index (4)	10.73
5.	Equity Risk Premium Based on Value Line S&P 500 Companies (5)	10.99
6.	Equity Risk Premium Based on Bloomberg S&P 500 Companies (6)	<u>10.74</u>
7.	Conclusion of Equity Risk Premium	9.53 %
8.	Adjusted Beta (7)	<u>0.81</u>
9.	Forecasted Equity Risk Premium	<u><u>7.72</u></u> %

Notes provided on page 9 of this Attachment.

Aquarion Water Company of New Hampshire, Inc.
Derivation of Equity Risk Premium Based on the Total Market Approach
Using the Beta for the
Proxy Group of Seven Water Companies

Notes:

- (1) Based on the arithmetic mean historical monthly returns on large company common stocks from Ibbotson@ SBBI@ 2020 Market Report minus the arithmetic mean monthly yield of Moody's average Aaa and Aa2 corporate bonds from 1926-2019.
- (2) This equity risk premium is based on a regression of the monthly equity risk premiums of large company common stocks relative to Moody's average Aaa and Aa rated corporate bond yields from 1928-2019 referenced in Note 1 above.
- (3) The Predictive Risk Premium Model (PRPM) is discussed in the accompanying direct testimony. The Ibbotson equity risk premium based on the PRPM is derived by applying the PRPM to the monthly risk premiums between Ibbotson large company common stock monthly returns and average Aaa and Aa2 corporate monthly bond yields, from January 1928 through September 2020.
- (4) The equity risk premium based on the Value Line Summary and Index is derived by subtracting the average consensus forecast of Aaa corporate bonds of 2.96% (from page 3 of this Attachment) from the projected 3-5 year total annual market return of 13.69% (described fully in note 1 on page 2 of Attachment DWD-5).
- (5) Using data from Value Line for the S&P 500, an expected total return of 13.95% was derived based upon expected dividend yields and long-term earnings growth estimates as a proxy for capital appreciation. Subtracting the average consensus forecast of Aaa corporate bonds of 2.96% results in an expected equity risk premium of 10.99%.
- (6) Using data from the Bloomberg Professional Service for the S&P 500, an expected total return of 13.70% was derived based upon expected dividend yields and long-term earnings growth estimates as a proxy for capital appreciation. Subtracting the average consensus forecast of Aaa corporate bonds of 2.96% results in an expected equity risk premium of 10.74%.
- (7) Average of mean and median beta from Attachment DWD-5.

Sources of Information:

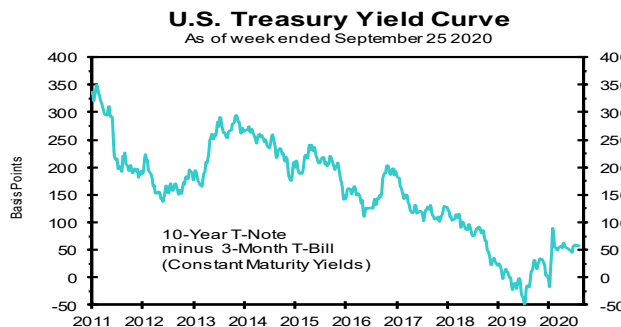
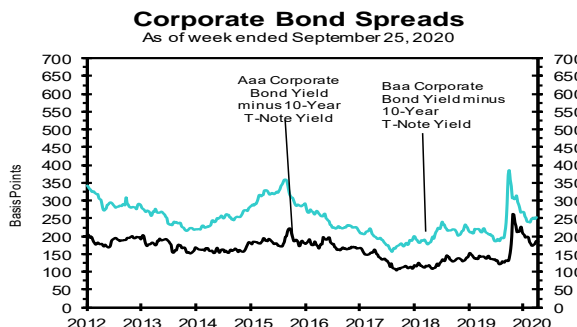
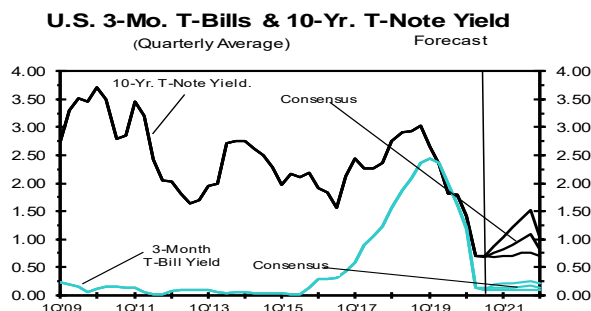
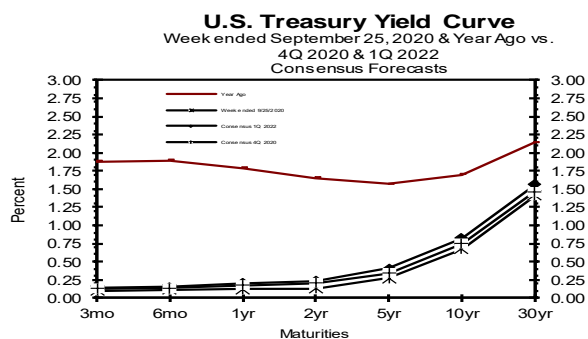
Stocks, Bonds, Bills, and Inflation - 2020 SBBI Yearbook, John Wiley & Sons, Inc.
Industrial Manual and Mergent Bond Record Monthly Update.
Value Line Summary and Index
Blue Chip Financial Forecasts, October 1, 2020 and June 1, 2020
Bloomberg Professional Service

Consensus Forecasts of U.S. Interest Rates and Key Assumptions

Interest Rates	History								Consensus Forecasts-Quarterly Avg.						
	Average For Week Ending				Average For Month			Latest Qtr	4Q	1Q	2Q	3Q	4Q	1Q	
	Sep 25	Sep 18	Sep 11	Sep 4	Aug	Jul	Jun	3Q 2020*	2020	2021	2021	2021	2021	2021	2022
Federal Funds Rate	0.09	0.09	0.09	0.09	0.10	0.09	0.08	0.09	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Prime Rate	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.3	3.3	3.3	3.3	3.3	3.3	3.3
LIBOR, 3-mo.	0.22	0.23	0.25	0.25	0.25	0.27	0.31	0.26	0.3	0.3	0.3	0.3	0.4	0.4	0.4
Commercial Paper, 1-mo.	0.10	0.10	0.09	0.09	0.09	0.11	0.12	0.10	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Treasury bill, 3-mo.	0.10	0.11	0.12	0.11	0.10	0.13	0.16	0.12	0.1	0.1	0.1	0.2	0.2	0.2	0.2
Treasury bill, 6-mo.	0.11	0.12	0.13	0.12	0.12	0.14	0.18	0.13	0.1	0.2	0.2	0.2	0.2	0.2	0.2
Treasury bill, 1 yr.	0.12	0.13	0.14	0.12	0.13	0.15	0.18	0.14	0.2	0.2	0.2	0.2	0.3	0.3	0.3
Treasury note, 2 yr.	0.13	0.14	0.14	0.14	0.14	0.15	0.19	0.14	0.2	0.2	0.3	0.3	0.3	0.3	0.4
Treasury note, 5 yr.	0.27	0.28	0.27	0.27	0.27	0.28	0.34	0.27	0.3	0.4	0.5	0.5	0.6	0.7	0.7
Treasury note, 10 yr.	0.67	0.69	0.69	0.68	0.65	0.62	0.73	0.65	0.8	0.8	0.9	1.0	1.1	1.1	1.1
Treasury note, 30 yr.	1.41	1.44	1.43	1.42	1.36	1.31	1.49	1.36	1.5	1.6	1.6	1.7	1.8	1.9	1.9
Corporate Aaa bond	2.56	2.55	2.57	2.54	2.48	2.43	2.73	2.49	2.3	2.4	2.5	2.6	2.7	2.7	2.7
Corporate Baa bond	3.20	3.18	3.21	3.17	3.09	3.12	3.44	3.14	3.5	3.6	3.6	3.7	3.7	3.8	3.8
State & Local bonds	2.91	2.92	2.92	2.93	2.88	2.99	3.10	2.94	2.4	2.4	2.5	2.6	2.6	2.6	2.6
Home mortgage rate	2.90	2.87	2.86	2.93	2.94	3.02	3.16	2.95	3.0	3.0	3.1	3.1	3.2	3.2	3.2

Key Assumptions	History								Consensus Forecasts-Quarterly					
	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q
	2018	2019	2019	2019	2019	2020	2020	2020**	2020	2021	2021	2021	2021	2022
Fed's AFE \$ Index	109.4	109.4	110.3	110.5	110.3	111.2	112.4	107.2	107.2	107.1	106.9	106.3	106.2	106.5
Real GDP	1.3	2.9	1.5	2.6	2.4	-5.0	-31.7	21.5	4.6	4.3	4.0	3.8	3.4	3.1
GDP Price Index	1.8	1.2	2.5	1.5	1.4	1.4	-2.0	1.9	1.5	1.7	1.5	1.7	1.7	1.8
Consumer Price Index	1.3	0.9	3.0	1.8	2.4	1.2	-3.5	3.2	2.1	1.9	1.8	2.0	2.0	2.0

Forecasts for interest rates and the Federal Reserve's Major Currency Index represent averages for the quarter. Forecasts for Real GDP, GDP Price Index and Consumer Price Index are seasonally-adjusted annual rates of change (saar). Individual panel members' forecasts are on pages 4 through 9. Historical data: Treasury rates from the Federal Reserve Board's H.15; AAA-AA and A-BBB corporate bond yields from Bank of America-Merrill Lynch and are 15+ years, yield to maturity; State and local bond yields from Bank of America-Merrill Lynch, A-rated, yield to maturity; Mortgage rates from Freddie Mac, 30-year, fixed; LIBOR quotes from Intercontinental Exchange. All interest rate data are sourced from Haver Analytics. Historical data for Fed's Major Currency Index are from FRSR H.10. Historical data for Real GDP and GDP Chained Price Index are from the Bureau of Economic Analysis (BEA). Consumer Price Index (CPI) history is from the Department of Labor's Bureau of Labor Statistics (BLS). *Interest rate data for 3Q 2020 based on historical data through the week ended September 23. **Data for 3Q 2020 for the Fed's AFE \$ Index based on data through the week ended September 25. Figures for 3Q 2020 Real GDP, GDP Chained Price Index and Consumer Price Index are consensus forecasts from the September 2020 survey.



Long-Range Survey:

The table below contains the results of our twice-annual long-range CONSENSUS survey. There are also Top 10 and Bottom 10 averages for each variable. Shown are consensus estimates for the years 2021 through 2026 and averages for the five-year periods 2022-2026 and 2027-2031. Apply these projections cautiously. Few if any economic, demographic and political forces can be evaluated accurately over such long time spans.

		Average For The Year					Five-Year Averages		
		2021	2022	2023	2024	2025	2026	2022-2026	2027-2031
1. Federal Funds Rate	CONSENSUS	0.2	0.4	1.0	1.6	1.9	2.1	1.4	2.3
	Top 10 Average	0.4	0.8	1.6	2.2	2.5	2.7	1.9	2.8
	Bottom 10 Average	0.1	0.1	0.4	1.0	1.3	1.5	0.9	1.7
2. Prime Rate	CONSENSUS	3.4	3.6	4.1	4.7	5.0	5.2	4.5	5.4
	Top 10 Average	3.5	3.9	4.6	5.3	5.5	5.7	5.0	5.9
	Bottom 10 Average	3.3	3.3	3.7	4.2	4.5	4.7	4.1	4.9
3. LIBOR, 3-Mo.	CONSENSUS	0.6	0.9	1.4	2.0	2.3	2.4	1.8	2.6
	Top 10 Average	0.8	1.3	1.9	2.5	2.7	3.0	2.3	3.1
	Bottom 10 Average	0.4	0.5	0.9	1.6	1.9	2.0	1.4	2.1
4. Commercial Paper, 1-Mo	CONSENSUS	0.6	0.9	1.4	2.0	2.2	2.3	1.7	2.6
	Top 10 Average	0.7	1.2	1.8	2.3	2.6	2.8	2.1	3.0
	Bottom 10 Average	0.3	0.5	1.1	1.6	1.9	2.0	1.4	2.2
5. Treasury Bill Yield, 3-Mo	CONSENSUS	0.2	0.5	1.1	1.6	1.9	2.1	1.4	2.3
	Top 10 Average	0.4	0.9	1.6	2.2	2.4	2.6	1.9	2.8
	Bottom 10 Average	0.1	0.2	0.5	1.1	1.4	1.6	0.9	1.8
6. Treasury Bill Yield, 6-Mo	CONSENSUS	0.3	0.6	1.1	1.7	2.0	2.2	1.5	2.5
	Top 10 Average	0.4	0.9	1.7	2.3	2.6	2.7	2.0	3.0
	Bottom 10 Average	0.2	0.2	0.6	1.2	1.5	1.7	1.1	1.9
7. Treasury Bill Yield, 1-Yr	CONSENSUS	0.4	0.7	1.3	1.8	2.1	2.3	1.7	2.6
	Top 10 Average	0.5	1.1	1.8	2.4	2.7	2.9	2.2	3.1
	Bottom 10 Average	0.2	0.3	0.7	1.3	1.6	1.8	1.1	2.0
8. Treasury Note Yield, 2-Yr	CONSENSUS	0.5	0.9	1.5	2.0	2.3	2.5	1.8	2.7
	Top 10 Average	0.8	1.3	2.0	2.5	2.9	3.0	2.4	3.3
	Bottom 10 Average	0.3	0.4	0.9	1.4	1.7	2.0	1.3	2.2
9. Treasury Note Yield, 5-Yr	CONSENSUS	0.7	1.1	1.7	2.2	2.5	2.7	2.0	2.9
	Top 10 Average	1.1	1.6	2.3	2.8	3.1	3.3	2.6	3.5
	Bottom 10 Average	0.5	0.7	1.2	1.6	1.8	2.1	1.5	2.3
10. Treasury Note Yield, 10-Yr	CONSENSUS	1.2	1.5	2.1	2.5	2.7	2.9	2.3	3.1
	Top 10 Average	1.5	2.0	2.6	3.1	3.3	3.5	2.9	3.8
	Bottom 10 Average	0.8	1.1	1.6	1.9	2.1	2.2	1.8	2.5
11. Treasury Bond Yield, 30-Yr	CONSENSUS	1.8	2.2	2.7	3.1	3.3	3.5	3.0	3.8
	Top 10 Average	2.2	2.7	3.3	3.7	3.9	4.1	3.5	4.4
	Bottom 10 Average	1.4	1.7	2.2	2.6	2.8	2.9	2.4	3.1
12. Corporate Aaa Bond Yield	CONSENSUS	2.8	3.2	3.6	4.0	4.2	4.3	3.9	4.6
	Top 10 Average	3.1	3.6	4.2	4.6	4.7	4.8	4.4	5.1
	Bottom 10 Average	2.4	2.7	3.1	3.5	3.7	3.8	3.4	4.2
13. Corporate Baa Bond Yield	CONSENSUS	4.1	4.5	4.9	5.2	5.3	5.4	5.0	5.7
	Top 10 Average	4.6	5.0	5.4	5.7	5.8	6.0	5.6	6.2
	Bottom 10 Average	3.6	3.9	4.3	4.6	4.7	4.8	4.4	5.2
14. State & Local Bonds Yield	CONSENSUS	2.6	3.0	3.5	3.7	3.8	3.8	3.6	4.1
	Top 10 Average	3.0	3.3	3.9	4.2	4.3	4.4	4.0	4.6
	Bottom 10 Average	2.3	2.6	2.9	3.2	3.2	3.3	3.0	3.7
15. Home Mortgage Rate	CONSENSUS	3.4	3.6	4.0	4.4	4.5	4.7	4.2	4.9
	Top 10 Average	3.8	4.0	4.5	4.8	5.0	5.2	4.7	5.5
	Bottom 10 Average	3.0	3.2	3.5	3.9	4.1	4.1	3.7	4.4
A. Fed's AFE Nominal \$ Index	CONSENSUS	112.8	112.6	112.5	111.8	111.4	111.0	111.9	110.6
	Top 10 Average	114.1	114.5	114.1	113.8	113.5	113.4	113.9	113.9
	Bottom 10 Average	111.7	110.7	110.7	110.2	109.5	108.7	110.0	107.6
		Year-Over-Year, % Change					Five-Year Averages		
		2021	2022	2023	2024	2025	2026	2022-2026	2027-2031
B. Real GDP	CONSENSUS	3.2	3.2	2.4	2.2	2.1	2.0	2.4	2.1
	Top 10 Average	5.7	4.3	2.9	2.5	2.3	2.3	2.9	2.4
	Bottom 10 Average	0.5	2.2	1.9	1.9	1.8	1.8	1.9	1.8
C. GDP Chained Price Index	CONSENSUS	1.1	1.7	1.9	2.0	2.0	2.0	1.9	2.0
	Top 10 Average	1.8	2.2	2.2	2.2	2.3	2.2	2.2	2.2
	Bottom 10 Average	0.3	1.3	1.6	1.8	1.8	1.8	1.7	1.9
D. Consumer Price Index	CONSENSUS	1.3	2.0	2.1	2.1	2.1	2.1	2.1	2.2
	Top 10 Average	2.2	2.5	2.3	2.3	2.4	2.3	2.4	2.4
	Bottom 10 Average	0.4	1.5	1.8	1.8	1.9	1.9	1.8	2.0

Aquarion Water Company of New Hampshire, Inc.
Derivation of Mean Equity Risk Premium Based Studies
Using Holding Period Returns and
Projected Market Appreciation of the S&P Utility Index

<u>Line No.</u>		<u>Implied Equity Risk Premium</u>
	<u>Equity Risk Premium based on S&P Utility Index Holding Period Returns (1):</u>	
1.	Historical Equity Risk Premium	4.21 %
2.	Regression of Historical Equity Risk Premium (2)	6.88
3.	Forecasted Equity Risk Premium Based on PRPM (3)	5.53
4.	Forecasted Equity Risk Premium based on Projected Total Return on the S&P Utilities Index (Value Line Data) (4)	6.68
5.	Forecasted Equity Risk Premium based on Projected Total Return on the S&P Utilities Index (Bloomberg Data) (5)	<u>5.44</u>
6.	Average Equity Risk Premium (6)	<u><u>5.75 %</u></u>

- Notes: (1) Based on S&P Public Utility Index monthly total returns and Moody's Public Utility Bond average monthly yields from 1928-2019. Holding period returns are calculated based upon income received (dividends and interest) plus the relative change in the market value of a security over a one-year holding period.
- (2) This equity risk premium is based on a regression of the monthly equity risk premiums of the S&P Utility Index relative to Moody's A2 rated public utility bond yields from 1928 - 2019 referenced in note 1 above.
- (3) The Predictive Risk Premium Model (PRPM) is applied to the risk premium of the monthly total returns of the S&P Utility Index and the monthly yields on Moody's A2 rated public utility bonds from January 1928 - September 2020.
- (4) Using data from Value Line for the S&P Utilities Index, an expected return of 10.18% was derived based on expected dividend yields and long-term growth estimates as a proxy for market appreciation. Subtracting the expected A2 rated public utility bond yield of 3.50%, calculated on line 3 of page 3 of this Attachment results in an equity risk premium of 6.68%. (10.18% - 3.50% = 6.68%)
- (5) Using data from Bloomberg Professional Service for the S&P Utilities Index, an expected return of 8.94% was derived based on expected dividend yields and long-term growth estimates as a proxy for market appreciation. Subtracting the expected A2 rated public utility bond yield of 3.50%, calculated on line 3 of page 3 of this Attachment results in an equity risk premium of 5.44%. (8.94% - 3.50% = 5.44%)
- (6) Average of lines 1 through 5.

Aquarion Water Company of New Hampshire, Inc.
Indicated Common Equity Cost Rate Through Use
of the Traditional Capital Asset Pricing Model (CAPM) and Empirical Capital Asset Pricing Model (ECAPM)

	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]
Proxy Group of Seven Water Companies	Value Line Adjusted Beta	Bloomberg Adjusted Beta	Average Beta	Market Risk Premium (1)	Risk-Free Rate (2)	Traditional CAPM Cost Rate	ECAPM Cost Rate	Indicated Common Equity Cost Rate (3)
American States Water Company	0.65	0.56	0.60	10.48 %	2.11 %	8.40 %	9.44 %	8.92 %
American Water Works Company, Inc.	0.85	0.99	0.92	10.48	2.11	11.75	11.96	11.85
California Water Service Group	0.65	0.56	0.60	10.48	2.11	8.40	9.44	8.92
Essential Utilities, Inc.	0.90	0.97	0.93	10.48	2.11	11.85	12.04	11.95
Middlesex Water Company	0.70	0.77	0.74	10.48	2.11	9.86	10.54	10.20
SJW Group	0.80	0.88	0.84	10.48	2.11	10.91	11.33	11.12
York Water Company	0.80	0.92	0.86	10.48	2.11	11.12	11.49	11.30
Mean			0.78			10.33 %	10.89 %	10.61 %
Median			0.84			10.91 %	11.33 %	11.12 %
Average of Mean and Median			0.81			10.62	11.11	10.87 %

Notes on page 2 of this Attachment.

Aquarion Water Company of New Hampshire, Inc.
Notes to Accompany the Application of the CAPM and ECAPM

Notes:

- (1) The market risk premium (MRP) is derived by using six different measures from three sources: Ibbotson, Value Line, and Bloomberg as illustrated below:

Historical Data MRP Estimates:

Measure 1: Ibbotson Arithmetic Mean MRP (1926-2019)

Arithmetic Mean Monthly Returns for Large Stocks 1926-2019:	12.10 %
Arithmetic Mean Income Returns on Long-Term Government Bonds:	<u>5.09</u>
MRP based on Ibbotson Historical Data:	<u><u>7.01</u></u> %

Measure 2: Application of a Regression Analysis to Ibbotson Historical Data (1926-2019)

10.18 %

Measure 3: Application of the PRPM to Ibbotson Historical Data: (January 1926 - September 2020)

10.66 %

Value Line MRP Estimates:

Measure 4: Value Line Projected MRP (Thirteen weeks ending October 16, 2020)

Total projected return on the market 3-5 years hence*:	13.69 %
Projected Risk-Free Rate (see note 2):	<u>2.11</u>
MRP based on Value Line Summary & Index:	<u><u>11.58</u></u> %
*Forecasted 3-5 year capital appreciation plus expected dividend yield	

Measure 5: Value Line Projected Return on the Market based on the S&P 500

Total return on the Market based on the S&P 500:	13.95 %
Projected Risk-Free Rate (see note 2):	<u>2.11</u>
MRP based on Value Line data	<u><u>11.84</u></u> %

Measure 6: Bloomberg Projected MRP

Total return on the Market based on the S&P 500:	13.70 %
Projected Risk-Free Rate (see note 2):	<u>2.11</u>
MRP based on Bloomberg data	<u><u>11.59</u></u> %

Average of Value Line, Ibbotson, and Bloomberg MRP: 10.48 %

- (2) For reasons explained in the direct testimony, the appropriate risk-free rate for cost of capital purposes is the average forecast of 30 year Treasury Bonds per the consensus of nearly 50 economists reported in Blue Chip Financial Forecasts. (See pages 10-11 of Attachment DWD-4.) The projection of the risk-free rate is illustrated below:

Fourth Quarter 2020	1.50 %
First Quarter 2021	1.60
Second Quarter 2021	1.60
Third Quarter 2021	1.70
Fourth Quarter 2021	1.80
First Quarter 2022	1.90
2022-2026	3.00
2027-2031	<u>3.80</u>
	<u><u>2.11</u></u> %

- (3) Average of Column 6 and Column 7.

Sources of Information:

Value Line Summary and Index
Blue Chip Financial Forecasts, October 1, 2020 and June 1, 2020
Stocks, Bonds, Bills, and Inflation - 2020 SBBI Yearbook, John Wiley & Sons, Inc.
Bloomberg Professional Services

Aquarion Water Company of New Hampshire, Inc.
Basis of Selection of the Group of Non-Price Regulated Companies
Comparable in Total Risk to the Utility Proxy Group

The criteria for selection of the Non-Price Regulated Proxy Group was that the non-price regulated companies be domestic and reported in Value Line Investment Survey (Standard Edition).

The Non-Price Regulated Proxy Group was then selected based on the unadjusted beta range of 0.45 – 0.75 and residual standard error of the regression range of 2.9166 – 3.4786 of the Utility Proxy Group.

These ranges are based upon plus or minus two standard deviations of the unadjusted beta and standard error of the regression. Plus or minus two standard deviations captures 95.50% of the distribution of unadjusted betas and residual standard errors of the regression.

The standard deviation of the Utility Proxy Group's residual standard error of the regression is 0.1405. The standard deviation of the standard error of the regression is calculated as follows:

$$\text{Standard Deviation of the Std. Err. of the Regr.} = \frac{\text{Standard Error of the Regression}}{\sqrt{2N}}$$

where: N = number of observations. Since Value Line betas are derived from weekly price change observations over a period of five years, N = 259

$$\text{Thus, } 0.1405 = \frac{3.1976}{\sqrt{518}} = \frac{3.1976}{22.7596}$$

Source of Information: Value Line, Inc., September 2020
Value Line Investment Survey (Standard Edition)

Aquarion Water Company of New Hampshire, Inc.
Basis of Selection of Comparable Risk
Domestic Non-Price Regulated Companies

	[1]	[2]	[3]	[4]
Proxy Group of Seven Water Companies	Value Line Adjusted Beta	Unadjusted Beta	Residual Standard Error of the Regression	Standard Deviation of Beta
American States Water Company	0.65	0.42	2.7018	0.0652
American Water Works Company, Inc.	0.85	0.70	3.1629	0.0763
California Water Service Group	0.65	0.40	3.1081	0.0750
Essential Utilities, Inc.	0.90	0.83	2.7162	0.0655
Middlesex Water Company	0.70	0.52	3.4887	0.0841
SJW Group	0.80	0.67	3.5594	0.0858
York Water Company	0.80	0.64	3.6461	0.0879
Average	<u>0.76</u>	<u>0.60</u>	<u>3.1976</u>	<u>0.0771</u>
Beta Range (+/- 2 std. Devs. of Beta) 2 std. Devs. of Beta	0.45 0.15	0.75		
Residual Std. Err. Range (+/- 2 std. Devs. of the Residual Std. Err.)	2.9166	3.4786		
Std. dev. of the Res. Std. Err.	0.1405			
2 std. devs. of the Res. Std. Err.	0.2810			

Source of Information: Valueline Proprietary Database, September 2020

Aquarion Water Company of New Hampshire, Inc.
Proxy Group of Non-Price Regulated Companies
Comparable in Total Risk to the
Proxy Group of Seven Water Companies

	[1]	[2]	[3]	[4]
Proxy Group of Twenty-Three Non-Price Regulated Companies	VL Adjusted Beta	Unadjusted Beta	Residual Standard Error of the Regression	Standard Deviation of Beta
Adobe Inc.	0.80	0.68	3.2135	0.0775
Bio-Rad Labs. 'A'	0.80	0.64	3.0465	0.0735
Casey's Gen'l Stores	0.80	0.69	3.2699	0.0789
C.H. Robinson	0.70	0.49	2.9211	0.0704
salesforce.com	0.85	0.74	3.3139	0.0799
CSG Systems Int'l	0.75	0.60	3.1939	0.0770
Citrix Sys.	0.75	0.58	3.3490	0.0808
Dollar General	0.70	0.47	3.2817	0.0791
Ennis, Inc.	0.80	0.63	3.3760	0.0814
FirstCash, Inc.	0.80	0.67	3.2660	0.0788
Gen'l Mills	0.65	0.45	2.9700	0.0716
Heartland Express	0.75	0.56	3.1152	0.0751
St. Joe Corp.	0.85	0.72	2.9838	0.0720
Lancaster Colony	0.70	0.50	3.1119	0.0751
Lilly (Eli)	0.75	0.56	2.9987	0.0723
ManTech Int'l 'A'	0.85	0.71	3.1009	0.0748
MAXIMUS Inc.	0.80	0.67	3.3500	0.0808
Smucker (J.M.)	0.65	0.45	3.0513	0.0736
Standard Motor Prod.	0.80	0.68	3.3622	0.0811
Bio-Techne Corp.	0.80	0.66	3.1657	0.0763
Tyler Technologies	0.75	0.61	3.1722	0.0765
Walgreens Boots	0.80	0.67	3.2476	0.0783
West Pharmac. Svcs.	0.80	0.68	3.1016	0.0748
Average	<u>0.77</u>	<u>0.61</u>	<u>3.1700</u>	<u>0.0800</u>
Proxy Group of Seven Water Companies	<u>0.76</u>	<u>0.60</u>	<u>3.1976</u>	<u>0.0771</u>

Source of Information:

Valueline Proprietary Database, September 2020

Aquarion Water Company of New Hampshire, Inc.
 Summary of Cost of Equity Models Applied to
 Proxy Group of Twenty-Three Non-Price Regulated Companies
 Comparable in Total Risk to the
Proxy Group of Seven Water Companies

Principal Methods	Proxy Group of Twenty-Three Non-Price Regulated Companies
Discounted Cash Flow Model (DCF) (1)	10.26 %
Risk Premium Model (RPM) (2)	11.50
Capital Asset Pricing Model (CAPM) (3)	10.70
	Mean <u>10.82</u> %
	Median <u>10.70</u> %
	Average of Mean and Median <u>10.76</u> %

Notes:

- (1) From page 2 of this Attachment.
- (2) From page 3 of this Attachment.
- (3) From page 6 of this Attachment.

Aquarion Water Company of New Hampshire, Inc.
DCF Results for the Proxy Group of Non-Price-Regulated Companies Comparable in Total Risk to the
Proxy Group of Seven Water Companies

	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]
Proxy Group of Twenty- Three Non-Price Regulated Companies	Average Dividend Yield	Value Line Projected Five Year Growth in EPS	Zack's Five Year Projected Growth Rate in EPS	Yahoo! Finance Projected Five Year Growth in EPS	Bloomberg Projected Five Year Growth in EPS	Average Projected Five Year Growth Rate in EPS	Adjusted Dividend Yield	Indicated Common Equity Cost Rate (1)
Adobe Inc.	- %	19.50 %	19.00 %	17.42 %	16.27 %	18.05 %	- %	NA %
Bio-Rad Labs. 'A'	-	11.50	NA	17.80	21.75	17.02	-	NA
Casey's Gen'l Stores	0.73	6.50	NA	5.56	16.31	9.46	0.76	10.22
C.H. Robinson	2.06	8.00	9.00	4.12	8.63	7.44	2.14	9.58
salesforce.com	-	34.50	15.70	16.72	18.85	21.44	-	NA
CSG Systems Int'l	2.25	10.00	NA	(5.00)	8.00	9.00	2.35	11.35
Citrix Sys.	1.01	9.00	7.00	9.37	9.63	8.75	1.05	9.80
Dollar General	0.71	12.00	11.10	14.79	12.89	12.70	0.76	13.46
Ennis, Inc.	5.08	3.00	NA	5.00	NA	4.00	5.18	9.18
FirstCash, Inc.	1.81	9.00	NA	(0.93)	NA	9.00	1.89	10.89
Gen'l Mills	3.28	3.00	7.50	5.05	4.37	4.98	3.36	8.34
Heartland Express	0.40	8.50	NA	5.80	NA	7.15	0.41	7.56
St. Joe Corp.	-	15.00	NA	(28.10)	NA	15.00	-	NA
Lancaster Colony	1.63	5.00	NA	3.00	NA	4.00	1.66	5.66
Lilly (Eli)	1.96	10.00	16.10	13.16	19.33	14.65	2.10	16.75
ManTech Int'l 'A'	1.78	12.00	7.40	7.02	7.36	8.45	1.86	10.31
MAXIMUS Inc.	1.53	10.00	NA	12.50	7.50	10.00	1.61	11.61
Smucker (J.M.)	3.15	3.00	2.20	0.68	(0.13)	1.96	3.18	5.14
Standard Motor Prod.	-	7.50	NA	7.00	NA	7.25	-	NA
Bio-Techne Corp.	0.50	14.00	7.00	7.00	10.45	9.61	0.52	10.13
Tyler Technologies	-	10.50	15.00	10.00	13.25	12.19	-	NA
Walgreens Boots	4.91	6.00	5.00	(5.18)	3.58	4.86	5.03	9.89
West Pharmac. Svcs.	0.23	16.00	17.40	17.40	14.94	16.43	0.25	<u>16.68</u>
							Mean	<u>10.39</u> %
							Median	<u>10.13</u> %
							Average of Mean and Median	<u>10.26</u> %

NA= Not Available

NMF= Not Meaningful Figure

(1) The application of the DCF model to the domestic, non-price regulated comparable risk companies is identical to the application of the DCF to the utility proxy group. The dividend yield is derived by using the 60 day average price and the spot indicated dividend as of October 16, 2020. The dividend yield is then adjusted by 1/2 the average projected growth rate in EPS, which is calculated by averaging the 5 year projected growth in EPS provided by Value Line, Bloomberg, www.zacks.com, and www.yahoo.com (excluding any negative growth rates) and then adding that growth rate to the adjusted dividend yield.

Source of Information: Value Line Investment Survey
www.zacks.com Downloaded on 10/16/2020
www.yahoo.com Downloaded on 10/16/2020
Bloomberg Professional Services

Aquarion Water Company of New Hampshire, Inc.
Indicated Common Equity Cost Rate
Through Use of a Risk Premium Model
Using an Adjusted Total Market Approach

<u>Line No.</u>		<u>Proxy Group of Twenty-Three Non- Price Regulated Companies</u>
1.	Prospective Yield on Baa2 Rated Corporate Bonds (1)	4.08 %
2.	Adjustment to Reflect Proxy Group Bond Rating (2)	<u>(0.20)</u>
3.	Prospective Bond Yield Applicable to the Non-Price Regulated Proxy Group	3.88
4.	Equity Risk Premium (3)	<u>7.62</u>
5.	Risk Premium Derived Common Equity Cost Rate	<u><u>11.50 %</u></u>

Notes: (1) Average forecast of Baa2 corporate bonds based upon the consensus of nearly 50 economists reported in Blue Chip Financial Forecasts dated October 1, 2020 and June 1, 2020 (see pages 10 and 11 of Attachment DWD-4). The estimates are detailed below.

Fourth Quarter 2020	3.50 %
First Quarter 2021	3.60
Second Quarter 2021	3.60
Third Quarter 2021	3.70
Fourth Quarter 2021	3.70
First Quarter 2022	3.80
2022-2026	5.00
2027-2031	<u>5.70</u>
Average	<u><u>4.08 %</u></u>

(2) To reflect the Baa1 average rating of the Non-Price Regulated Proxy Group, the prospective yield on Baa2 corporate bonds must be adjusted downward by 1/3 of the spread between A2 and Baa2 corporate bond yields as shown below:

	A2 Corp. Bond Yield		Baa2 Corp. Bond Yield		Spread
Sep-2020	2.79 %		3.36 %		0.57 %
Aug-2020	2.68		3.27		0.59
Jul-2020	2.69		3.31		<u>0.62</u>
			Average yield spread		<u><u>0.59 %</u></u>
			1/3 of spread		<u><u>0.20 %</u></u>

(3) From page 5 of this Attachment.

Aquarion Water Company of New Hampshire, Inc.
Comparison of Long-Term Issuer Ratings for the
Proxy Group of Twenty-Three Non-Price Regulated Companies of Comparable risk to the
Proxy Group of Seven Water Companies

Proxy Group of Twenty-Three Non-Price Regulated Companies	Moody's Long-Term Issuer Rating October 2020		Standard & Poor's Long-Term Issuer Rating October 2020	
	Long-Term Issuer Rating	Numerical Weighting (1)	Long-Term Issuer Rating	Numerical Weighting (1)
Adobe Inc.	A2	6.0	A	6.0
Bio-Rad Labs. 'A'	Baa2	9.0	BBB	9.0
Casey's Gen'l Stores	NR	--	NR	--
C.H. Robinson	Baa2	9.0	BBB+	8.0
salesforce.com	A2	6.0	A	6.0
CSG Systems Int'l	NR	--	BB+	11.0
Citrix Sys.	NR	--	BBB	9.0
Dollar General	Baa2	9.0	BBB	9.0
Ennis, Inc.	NR	--	NR	--
FirstCash, Inc.	Ba1	11.0	BB	12.0
Gen'l Mills	Baa2	9.0	BBB	9.0
Heartland Express	NR	--	NR	--
St. Joe Corp.	NR	--	NR	--
Lancaster Colony	NR	--	NR	--
Lilly (Eli)	A2	6.0	A+	5.0
ManTech Int'l 'A'	WR	--	BB+	11.0
MAXIMUS Inc.	NR	--	NR	--
Smucker (J.M.)	Baa2	9.0	BBB	9.0
Standard Motor Prod.	NR	--	NR	--
Bio-Techne Corp.	NR	--	NR	--
Tyler Technologies	NR	--	NR	--
Walgreens Boots	Baa2	9.0	BBB	9.0
West Pharmac. Svcs.	NR	--	NR	--
Average	<u>Baa1</u>	<u>8.3</u>	<u>BBB</u>	<u>8.7</u>

Notes:

(1) From page 6 of Attachment DWD-4.

Source of Information:

Bloomberg Professional Services

Aquarion Water Company of New Hampshire, Inc.
Derivation of Equity Risk Premium Based on the Total Market Approach
Using the Beta for
Proxy Group of Twenty-Three Non-Price Regulated Companies of Comparable risk to the
Proxy Group of Seven Water Companies

<u>Line No.</u>	<u>Equity Risk Premium Measure</u>	<u>Proxy Group of Twenty-Three Non- Price Regulated Companies</u>
<u>Ibbotson-Based Equity Risk Premiums:</u>		
1.	Ibbotson Equity Risk Premium (1)	5.78 %
2.	Regression on Ibbotson Risk Premium Data (2)	9.42
3.	Ibbotson Equity Risk Premium based on PRPM (3)	9.54
4.	Equity Risk Premium Based on <u>Value Line</u> Summary and Index (4)	10.73
5.	Equity Risk Premium Based on <u>Value Line</u> S&P 500 Companies (5)	10.99
6.	Equity Risk Premium Based on Bloomberg S&P 500 Companies (6)	<u>10.74</u>
7.	Conclusion of Equity Risk Premium	9.53 %
8.	Adjusted Beta (7)	<u>0.80</u>
9.	Forecasted Equity Risk Premium	<u><u>7.62 %</u></u>

Notes:

- (1) From note 1 of page 9 of Attachment DWD-4.
- (2) From note 2 of page 9 of Attachment DWD-4.
- (3) From note 3 of page 9 of Attachment DWD-4.
- (4) From note 4 of page 9 of Attachment DWD-4.
- (5) From note 5 of page 9 of Attachment DWD-4.
- (6) From note 6 of page 9 of Attachment DWD-4.
- (7) Average of mean and median beta from page 6 of this Attachment.

Sources of Information:

Stocks, Bonds, Bills, and Inflation - 2020 SBBI Yearbook, John Wiley & Sons, Inc.
Value Line Summary and Index
Blue Chip Financial Forecasts, October 1, 2020 and June 1, 2020
Bloomberg Professional Services

Aquarion Water Company of New Hampshire, Inc.
Traditional CAPM and ECAPM Results for the Proxy Group of Non-Price-Regulated Companies Comparable in Total Risk to the
Proxy Group of Seven Water Companies

	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]
<u>Proxy Group of Twenty-Three Non-Price Regulated Companies</u>	<u>Value Line Adjusted Beta</u>	<u>Bloomberg Beta</u>	<u>Average Beta</u>	<u>Market Risk Premium (1)</u>	<u>Risk-Free Rate (2)</u>	<u>Traditional CAPM Cost Rate</u>	<u>ECAPM Cost Rate</u>	<u>Indicated Common Equity Cost Rate (3)</u>
Adobe Inc.	0.85	0.86	0.86	10.48 %	2.11 %	11.12 %	11.49 %	11.30 %
Bio-Rad Labs. 'A'	0.80	0.72	0.76	10.48	2.11	10.07	10.70	10.39
Casey's Gen'l Stores	0.80	0.86	0.83	10.48	2.11	10.81	11.25	11.03
C.H. Robinson	0.70	0.64	0.67	10.48	2.11	9.13	9.99	9.56
salesforce.com	0.85	1.05	0.95	10.48	2.11	12.06	12.19	12.13
CSG Systems Int'l	0.75	0.89	0.82	10.48	2.11	10.70	11.17	10.94
Citrix Sys.	0.80	0.64	0.72	10.48	2.11	9.65	10.39	10.02
Dollar General	0.70	0.68	0.69	10.48	2.11	9.34	10.15	9.75
Ennis, Inc.	0.80	0.79	0.79	10.48	2.11	10.39	10.94	10.66
FirstCash, Inc.	0.80	0.98	0.89	10.48	2.11	11.44	11.72	11.58
Gen'l Mills	0.70	0.50	0.60	10.48	2.11	8.40	9.44	8.92
Heartland Express	0.75	0.81	0.78	10.48	2.11	10.28	10.86	10.57
St. Joe Corp.	0.85	1.01	0.93	10.48	2.11	11.85	12.04	11.95
Lancaster Colony	0.65	0.64	0.64	10.48	2.11	8.82	9.76	9.29
Lilly (Eli)	0.75	0.73	0.74	10.48	2.11	9.86	10.54	10.20
ManTech Int'l 'A'	0.85	1.09	0.97	10.48	2.11	12.27	12.35	12.31
MAXIMUS Inc.	0.80	0.90	0.85	10.48	2.11	11.02	11.41	11.21
Smucker (J.M.)	0.65	0.52	0.58	10.48	2.11	8.19	9.29	8.74
Standard Motor Prod.	0.80	0.94	0.87	10.48	2.11	11.23	11.57	11.40
Bio-Techne Corp.	0.80	0.81	0.81	10.48	2.11	10.60	11.09	10.85
Tyler Technologies	0.80	0.75	0.78	10.48	2.11	10.28	10.86	10.57
Walgreens Boots	0.80	0.79	0.80	10.48	2.11	10.49	11.02	10.75
West Pharmac. Svcs.	0.80	0.83	0.81	10.48	2.11	10.60	11.09	10.85
Mean			<u>0.79</u>			<u>10.37 %</u>	<u>10.93 %</u>	<u>10.65 %</u>
Median			<u>0.80</u>			<u>10.49 %</u>	<u>11.02 %</u>	<u>10.75 %</u>
Average of Mean and Median			<u>0.80</u>			<u>10.43 %</u>	<u>10.98 %</u>	<u>10.70 %</u>

Notes:

- (1) From Attachment DWD-5, note 1.
- (2) From Attachment DWD-5, note 2.
- (3) Average of CAPM and ECAPM cost rates.

Aquarion Water Company of New Hampshire, Inc.
Derivation of Investment Risk Adjustment Based upon
Ibbotson Associates' Size Premia for the Decile Portfolios of the NYSE/AMEX/NASDAQ

Line No.	[1]		[2]	[3]	[4]
	Market Capitalization on September 30, 2020 (1) (millions)	(times larger)	Applicable Decile of the NYSE/AMEX/NASDAQ (2)	Applicable Size Premium (3)	Spread from Applicable Size Premium (4)
1.	<u>Aquarion Water Company of New Hampshire, Inc.</u>	\$ 54.075	10	4.99%	
2.	<u>Proxy Group of Seven Water Companies</u>	\$ 6,572.792	121.5 x	0.79%	4.20%
		[A]	[B]	[C]	[D]
		Decile	Market Capitalization of Smallest Company (millions)	Market Capitalization of Largest Company (millions)	Size Premium (Return in Excess of CAPM)*
	Largest	1	\$ 31,090.379	\$ 1,061,355.011	-0.28%
		2	13,142.606	30,542.936	0.50%
		3	6,618.604	13,100.225	0.73%
		4	4,312.546	6,614.962	0.79%
		5	2,688.889	4,311.252	1.10%
		6	1,669.856	2,685.865	1.34%
		7	993.855	1,668.282	1.47%
		8	515.621	993.847	1.59%
		9	230.024	515.602	2.22%
	Smallest	10	1.973	229.748	4.99%

*From 2020 Duff & Phelps Cost of Capital Navigator

Notes:

- (1) From page 2 of this Attachment.
- (2) Gleaned from Columns [B] and [C] on the bottom of this page. The appropriate decile (Column [A]) corresponds to the market capitalization of the proxy group, which is found in Column [1].
- (3) Corresponding risk premium to the decile is provided in Column [D] on the bottom of this page.
- (4) Line No. 1 Column [3] - Line No. 2 Column [3]. For example, the 4.20% in Column [4], Line No. 2 is derived as follows 4.20% = 4.99% - 0.79%.

Aquarion Water Company of New Hampshire, Inc.
Market Capitalization of Aquarion Water Company of New Hampshire, Inc. and the
Proxy Group of Seven Water Companies

Company	Exchange	[1] Common Stock Shares Outstanding at Fiscal Year End 2019 (millions)	[2] Book Value per Share at Fiscal Year End 2019 (1)	[3] Total Common Equity at Fiscal Year End 2019 (millions)	[4] Closing Stock Market Price on October 16, 2020	[5] Market-to- Book Ratio on October 16, 2020 (2)	[6] Market Capitalization on October 16, 2020 (3) (millions)
<u>Aquarion Water Company of New Hampshire, Inc.</u>		<u>NA</u>	<u>NA</u>	<u>\$ 15.402</u> (4)	<u>NA</u>		
<u>Based upon Proxy Group of Seven Water Companies</u>						<u>351.1</u> (5)	<u>\$ 54.075</u> (6)
<u>Proxy Group of Seven Water Companies</u>							
American States Water Company	NYSE	36.847	\$ 16.325	\$ 601.530	\$ 77.620	475.5 %	\$ 2,860.034
American Water Works Company, Inc.	NYSE	180.813	33.853	6,121.000	155.720	460.0	\$ 28,156.180
California Water Service Group	NYSE	48.532	16.070	779.906	46.270	287.9	\$ 2,245.585
Essential Utilities, Inc.	NYSE	220.759	17.580	3,880.860	41.850	238.1	\$ 9,238.752
Middlesex Water Company	NASDAQ	17.434	18.572	323.792	66.880	360.1	\$ 1,165.986
SJW Group	NYSE	28.457	31.275	889.984	61.650	197.1	\$ 1,754.344
York Water Company	NASDAQ	<u>13.015</u>	<u>10.310</u>	<u>134.185</u>	<u>45.230</u>	<u>438.7</u>	<u>\$ 588.664</u>
<u>Average</u>		<u>77.979</u>	<u>\$ 20.569</u>	<u>\$ 1,818.751</u>	<u>\$ 70.746</u>	<u>351.1 %</u>	<u>\$ 6,572.792</u>

NA= Not Available

Notes: (1) Column 3 / Column 1.

(2) Column 4 / Column 2.

(3) Column 1 * Column 4.

(4) Company requested rate base multiplied by Company requested equity ratio.

(5) The market-to-book ratio of Aquarion Water Company of New Hampshire, Inc. on October 16, 2020 is assumed to be equal to the market-to-book ratio of Proxy Group of Seven Water Companies on October 16, 2020 as appropriate.

(6) Column [3] multiplied by Column [5].

Source of Information: 2019 Annual Forms 10K
Bloomberg Financial Services

Docket No. DW 20-184
Exhibit 12

Aquarion Water Company of New Hampshire, Inc.
Rate Mechanisms In Place at Proxy Group Operating Subsidiaries

Ticker	Company (bold if parent)	State	Decoupling?	Mechanism Name	Type of Mechanism	Source
AWR	American States Water Company					
	Golden State Water Company	CA	Yes	Water Revenue Adjustment Mechanism (WRAM)	Full Decoupling (Actual to Target Revenues)	Annual Report, tariff
AWK	American Water					
	California American Water	CA	Yes	Water Revenue Adjustment Mechanism (WRAM); Modified Cost Balancing Adjustment (MCBA)	Full Decoupling (Actual to Target Revenues)	Annual Report, tariff
	Hawaii American Water	HI	No			Annual Report, tariff
	Illinois American Water	IL	Yes	Volume Balancing Adjustment Rider (VBA); Qualifying Infrastructure Plant (QIP) Surcharge	Full Decoupling (Actual to Target Revenues); Capital Recovery	Commission Order dated December 13, 2016, Docket No. 16-0093
	Indiana American Water	IN	No	Distribution System Improvement Charge (DSIC)	Capital Recovery	Annual Report, tariff
	Iowa American Water	IA	No			Annual Report, tariff
	Kentucky American Water	KY	No			Annual Report, tariff
	Maryland American Water	MD	No			Annual Report, tariff
	Michigan American Water	MI	No			Annual Report
	Missouri American Water	MO	No	Infrastructure system replacement Surcharge	Capital Recovery	Annual Report, tariff
	New Jersey American Water	NJ	No			Annual Report, tariff
	New York American Water	NY	Yes	Revenue And Production Cost Reconciliation Adjustment Clause and Property Tax Clause (RAC/PTC)	Full Decoupling (Actual to Target Revenues)	Commission Order in Case 07-W-0508 and Case 16-W-0259
	Pennsylvania American Water	PA	No	Distribution System Improvement Charge (DSIC)	Capital Recovery	Annual Report, tariff
	Tennessee American Water	TN	No			Annual Report, tariff
	Virginia American Water	VA	No	Water & Wastewater Infrastructure Service Charge "WWISC" Rider	Capital Recovery	Annual Report, tariff
	West Virginia American Water	WV	No	Distribution System Improvement Charge (DSIC)	Capital Recovery	Annual Report, tariff
CWT	California Water Service Group					
	California Water Service Co.	CA	Yes	Water Revenue Adjustment Mechanism (WRAM); Modified Cost Balancing Adjustment (MCBA); and Sales Reconciliation Mechanism (SRM)	Full Decoupling (Actual to Target Revenues)	Annual Report, tariff
	New Mexico Water Service Co.	NM	No			Annual Report, tariff
	Washington Water Service Co.	WA	No			Annual Report, tariff
	Hawaii Water Service Co.	HI	No			Annual Report, tariff
WTRG	Essential Utilities, Inc.					
	Aqua Illinois, Inc.	IL	Yes	Volume Balancing Adjustment Rider (VBA)	Full Decoupling (Actual to Target Revenues)	Order in Docket No. 17-0259
	Aqua Indiana, Inc.	IN	No			Annual Report, tariff
	Aqua New Jersey, Inc.	NJ	No	Distribution System Improvement Charge (DSIC)	Capital Recovery	Annual Report, tariff
	Aqua North Carolina, Inc.	NC	No			Annual Report
	Aqua Ohio, Inc.	OH	No			Annual Report
	Aqua Pennsylvania, Inc.	PA	No	Distribution System Improvement Charge (DSIC)	Capital Recovery	Annual Report; tariff
	Aqua Texas, Inc.	TX	No			Annual Report
	Aqua Virginia, Inc.	VA	No			Annual Report
MSEX	Middlesex Water Company					
	Middlesex Water Company (NJ)	NJ	No			Annual Report; tariff
	Southern Shores Water Company (DE)	DE	No			Annual Report
	Tidewater Utilities, Inc. (DE)	DE	No	Distribution System Improvement Charge (DSIC)	Capital Recovery	Annual Report; tariff
	Pinelands Water Company (NJ)	NJ	No			Annual Report; tariff
	Twin Lakes Utilities, Inc. (PA)	PA	No			Annual Report; tariff
SJW	SJW Group					
	San Jose Water Company (CA)	CA	No			
	SJWTX, Inc.	TX	No			
	The Connecticut Water Company	CT	Yes	Water Revenue Adjustment (WRA); Water Infrastructure and Conservation Adjustment (WICA)	Full Decoupling (Actual to Target Revenues); Capital Recovery	Annual Report; tariff
	The Heritage Village Water Company	CT	Yes	Water Revenue Adjustment (WRA); Water Infrastructure and Conservation Adjustment (WICA)	Full Decoupling (Actual to Target Revenues); Capital Recovery	Annual Report; tariff
	The Avon Water Company	CT	No			
	The Maine Water Company	ME	No	Water Infrastructure Charge (WISC)	Capital Recovery	Annual Report; tariff
YORW	York Water Company	PA	No	Distribution System Improvement Charge (DSIC)	Capital Recovery	

Aquarion Water Company of New Hampshire, Inc.
Derivation of the Flotation Cost Adjustment to the Cost of Common Equity

Equity Issuances and Flotation Costs of the Parent Since Aquarion Acquisition

		[Column 1]	[Column 2]	[Column 3]	[Column 4]	[Column 5]	[Column 6]	[Column 7]	[Column 8]	[Column 9]	[Column 10]
<u>Date</u>	<u>Transaction (1)</u>	<u>Shares Issued</u>	<u>Market Price per Share</u>	<u>Offering Price per Share</u>	<u>Market Pressure (2)</u>	<u>Total Offering Expense per Share</u>	<u>Net Proceeds per Share (3)</u>	<u>Gross Equity Issue before Costs (4)</u>	<u>Total Net Proceeds (5)</u>	<u>Total Flotation Costs (6)</u>	<u>Flotation Cost Percentage (7)</u>
05/30/19	Equity Offering	17,940,000	\$ 73.1700	\$ 71.4800	\$ 1.6900	\$ 0.0343	\$ 71.4457	\$ 1,312,669,800	\$ 1,281,736,200	\$ 30,933,600	2.36%
06/11/20	Equity Offering	6,900,000	\$ 86.2600	\$ 84.9100	\$ 1.3500	\$ 0.0870	\$ 84.8230	\$ 595,194,000	\$ 585,279,000	\$ 9,915,000	1.67%
								<u>\$ 1,907,863,800</u>	<u>\$ 1,867,015,200</u>	<u>\$ 40,848,600</u>	<u>2.14%</u>

Flotation Cost Adjustment

	<u>Average Dividend Yield</u>	<u>Average Projected EPS Growth Rate</u>	<u>Adjusted Dividend Yield</u>	<u>Average DCF Cost Rate Unadjusted for Flotation (8)</u>	<u>DCF Cost Rate Adjusted for Flotation (9)</u>	<u>Flotation Cost Adjustment (10)</u>
Proxy Group of Seven Water Companies	<u>1.82 %</u>	<u>7.31 %</u>	<u>1.89 %</u>	<u>9.20 %</u>	<u>9.24 %</u>	<u>0.04 %</u>

See page 2 of this Attachment for notes.

Aquarion Water Company of New Hampshire, Inc.
Notes to Accompany the
Derivation of the Flotation Cost Adjustment to the Cost of Common Equity

- (1) Company-provided.
- (2) Column 2 – Column 3.
- (3) Column 2 – the sum of Columns 4 and 5.
- (4) Column 1 * Column 2.
- (5) Column1 * Column 6.
- (6) Column 1 * the sum of Columns 4 and 5.
- (7) (Column 7 – Column 8)/ Column 7.
- (8) Using the average growth rate and average dividend yield on page 1 of Attachment DWD-3.
- (9) Adjustment for flotation costs based on adjusting the average DCF constant growth cost rate in accordance with the following:

$$K = \frac{D(1 + 0.5g)}{P(1 - F)} + g,$$

where g is the growth factor and F is the percentage of flotation costs.

- (10) Flotation cost adjustment of 0.04% equals the difference between the flotation adjusted average DCF cost rate of 9.24% and the unadjusted average DCF cost rate of 9.20% of the Utility Proxy Group.

Source of Information:

Company SEC filings