CAPITAL ASSET PRICING MODEL (CAPM) COST OF COMMON EQUITY ESTIMATES FOR WATER PEER GROUP, INCLUDING AMERICAN WATER, BASED ON 20-YEAR US TREASURY

(1)	(2)	(3)	(4)
20-Year			CAPM
Risk		Market	Cost of
Free		Risk	Common
Rate	Beta	Premium	Equity
3.82%	0.81	6.00%	8.70%
3.82%	0.66	6.00%	7.77%
3.82%	0.68	6.00%	7.89%
3.82%	0.81	6.00%	8.65%
3.82%	0.73	6.00%	8.20%
3.82%	0.76	6.00%	8.36%
	0.741		8.26%
	20-Year Risk Free Rate 3.82% 3.82% 3.82% 3.82% 3.82%	20-Year Risk Free Rate Beta 3.82% 0.66 3.82% 0.68 3.82% 0.81 3.82% 0.73 3.82% 0.76	20-Year Market Risk Market Free Risk Rate Beta Premium 3.82% 0.66 6.00% 3.82% 0.68 6.00% 3.82% 0.81 6.00% 3.82% 0.73 6.00% 3.82% 0.76 6.00%

Column 1 = Average of last 3 Months of 20-Year Treasuries obtained from the St. Louis Federal Reserve website at https://fred.stlouisfed.org/series/GS20

Column 2 = Beta is a measure of the movement and relative risk of an individual stock to the market as a whole. I used a template provided by S&P Market Intelligence that calculates raw betas based on the Value Linen approach. This approach measures the covariance of the company's weekly returns with that of the S&P 500 divided by the variance of the S&P 500 returns over an historical 5 year period. This raw beta is then adjusted by the Blume formula, which is the following: Adjusted Beta = 0.35 + 0.67 * Unadjusted Beta

Column 3 = The market risk premium selected is based on consideration of historical achieved earned return spreads and risk premiums market risk premiums typical of those recommended by various authoritative sources.

Column 4 = (Column 1 + (Column 2 * Column 3)).