

Pennichuck Water Works, Inc.
 Rate Stabilization Fund Calculations
 Revised 1/24/2020 per Staff Tech DR's
 Resubmitted 2/7/2020 per Staff 3-1
 Adjusted per Staff 4-1 on 2/21/2020
 Revised 4/1/2020 to reflect Staff DR 4's
 Revised 4/9/2020 to reflect Staff Tech 4's
 4.016 TIC
 Revised 5/20/2020 to reflect tech session and correction of
 MOER expenses
 Revised 8/26/2020 for Final Bond Sale

DLW Exhibit 1

PWWS Proforma 5 Year Average 2018 Test Year with MOES						
Pro forma Revenue Requirement ¹ -		\$ 35,815,774	applies against Material Operating Expenses			
Operating Expense Contingency -		9.50%	Projected Rate Increase			
		11.83%				
		Material Operating Expense Revenue Requirement (MOER) ¹	Operating Expense Revenue Requirement (NOER) ¹	1.0 Debt Service Revenue Requirement (1.0 DSRR) ¹	0.1 Debt Service Revenue Requirement (0.1 DSRR)	
Revenue Requirement ¹ -	\$	20,741,272	\$ 555,346	\$ 6,176,477	\$ 617,648	
Percentage of Revenues -		21.58%	1.55%	6.17%	1.72%	
1 Year coverage -	\$	148,602	\$ 1,016,147	\$ 118,752	\$ 237,504	
2 Year coverage -	\$	297,204	\$ 2,032,294	\$ 237,504	\$ 475,008	
3 Year coverage -	\$	445,806	\$ 3,048,441	\$ 356,256	\$ 712,512	
Calculated Rate Stabilization Fund by Revenue Category for 1 year ^{1,3,4,5} -	\$	140,000	\$ 1,120,000	\$ 130,000	\$ 260,000	\$ 1,410,000
Calculated Rate Stabilization Fund by Revenue Category for 2 year ^{1,3,4,5} -	\$	330,000	\$ 2,940,000	\$ 360,000	\$ 720,000	\$ 3,530,000
Calculated Rate Stabilization Fund by Revenue Category for 3 year ^{1,3,4,5} -	\$	490,000	\$ 5,480,000	\$ 690,000	\$ 1,380,000	\$ 6,360,000
Requested Rate Stabilization Fund Levels ⁶ -	\$	680,000	\$ 2,850,000	\$ 390,000	\$ 780,000	\$ 3,920,000
		Based on largest variance from five year ave of	3.40%			

Total RSF Funds Available	Available RSF Funds
Required	on 12/31/2019
\$	\$ (964,545)

As a "one time" borrowed amount to refill the RSF funds awaiting implementation of the MOES

Revenue Type	2013 PWWS Billed Revenue	2014 PWWS Billed Revenue	2015 PWWS Billed Revenue	2017 PWWS Billed Revenue	2018 PWWS Billed Revenue
Total Volumetric Charges, includes Unbilled water sales, Unbilled/and Billed Recoupment and abatement	\$ 15,093,982	\$ 15,340,557	\$ 16,357,423	\$ 15,457,194	\$ 17,516,995
Total Meter Charge (fixed) includes fixed portion of special contracts	\$ 8,162,854	\$ 8,243,996	\$ 8,429,316	\$ 8,766,739	\$ 9,437,919
WICADQPAC revenues	\$ -	\$ 109,737	\$ 367,548	\$ 705,661	\$ 802,159
Total Private Fire Protection Charges (fixed)	\$ 1,027,245	\$ 1,039,276	\$ 1,058,281	\$ 1,089,205	\$ 1,210,960
Total Municipal Fire Protection Charges (fixed)	\$ 3,047,037	\$ 3,060,346	\$ 3,075,100	\$ 3,116,640	\$ 3,442,774
Total Billed Revenue	\$ 27,331,118	\$ 27,793,862	\$ 29,287,668	\$ 29,135,439	\$ 31,970,800
% of Revenues that are variable	55.2%	55.4%	56.0%	54.4%	55.4%
% of Revenues that are fixed	44.8%	44.6%	44.0%	45.6%	44.6%

Calculation of MOER RSF Increases Over 2019	
Revenue Shortfall	Revenue Shortfall
2020	\$ 819,269
2021	\$ 1,257,026
2022	\$ 1,913,917
Totals	\$ 3,990,212

Maximum percentage of revenues that were variable during the previous 5 years - 56.56%

Expense Type	2013 PWWS Actual Variable Expenses	2014 PWWS Actual Variable Expenses	2015 PWWS Actual Variable Expenses	2017 PWWS Actual Variable Expenses	2018 PWWS Actual Variable Expenses
Purchased Water	\$ 415,331	\$ 393,000	\$ 462,177	\$ 437,664	\$ 472,407
Electric	\$ 873,619	\$ 898,211	\$ 1,164,461	\$ 1,053,878	\$ 1,152,305
Chemicals	\$ 659,914	\$ 696,460	\$ 668,519	\$ 705,438	\$ 908,983
Sludge Disposal	\$ 246,601	\$ 303,027	\$ 316,654	\$ 385,873	\$ 378,140
Total Variable Costs	\$ 2,195,465	\$ 2,290,697	\$ 2,612,111	\$ 2,642,853	\$ 2,911,834
Variable Expenses as a Percent of Total Revenues	8.0%	8.2%	8.9%	9.1%	9.1%

Expense Type	2013 PWWS Actual Operating Expenses ⁷	2014 PWWS Actual Operating Expenses ⁸	2015 PWWS Actual Operating Expenses ⁹	2017 PWWS Actual Operating Expenses ¹⁰	2018 PWWS Actual Operating Expenses ¹¹
Production Expenses	\$ 3,866,154	\$ 4,099,167	\$ 4,515,441	\$ 4,571,844	\$ 5,074,509
T&D Expenses	\$ 1,347,952	\$ 1,868,516	\$ 1,806,477	\$ 2,148,076	\$ 2,848,339
Engineering Expenses	\$ 833,292	\$ 954,081	\$ 1,055,546	\$ 1,169,319	\$ 1,287,747
Customer Acct & Collection Expenses	\$ 436,393	\$ 442,289	\$ 463,937	\$ 447,889	\$ 489,789
Admin and General Expenses	\$ 6,677,427	\$ 6,000,562	\$ 6,364,880	\$ 7,303,584	\$ 7,580,371
Inter Div Mgt Fee Expense	\$ (2,254,305)	\$ (2,270,498)	\$ (2,378,932)	\$ (3,321,124)	\$ (3,288,063)
Amortization Expense ¹²	\$ 48,059	\$ 140,811	\$ 167,776	\$ 145,441	\$ 134,666
Property Tax Expense	\$ 4,123,297	\$ 4,468,936	\$ 4,617,857	\$ 5,210,697	\$ 4,438,775
Payroll Tax Expense	\$ -	\$ -	\$ -	\$ -	\$ 698,087
Cash Tax Expense ¹³	\$ 99,000	\$ 100,000	\$ 101,000	\$ 103,000	\$ 103,249
Total Material Operating Expense	\$ 15,377,269	\$ 15,813,864	\$ 16,776,082	\$ 17,796,766	\$ 19,367,469
Percent increase in operating expenses over the prior year	2.84%	6.08%	3.05%	8.81%	8.81%
Ave. increase per year (inclusive of compounding)				25.95%	4.72%

2013 Actual CCF's sold by PWWS	2014 Actual CCF's sold by PWWS	2015 Actual CCF's sold by PWWS	2017 Actual CCF's sold by PWWS	2018 Actual CCF's sold by PWWS
Annual Metered Sales (CCF)	4,948,775	4,988,184	5,349,169	5,056,592
Percentage Variance between Current and High Consumption Year	-8.09%	-7.24%	0.00%	-5.79%
Average Consumption (CCF) over the past five years (including 2014 with 2013)	5,116,997			-2.04%
Variance between current and 5 Yr Ave Consumption	-3.40%	-2.58%	4.34%	-1.19%
				2.39%

Largest percentage reduction in volumetric sales at PWWS of 3.40% over the past five years from the five year average of volumetric sales excluding 2016, including 2013
 Results in a Revenue loss of based on 5 year average sales less 2016, including 2013 \$ 636,621 based on current permanent rate of \$ 3.66 per CCF
 Results in an Operating Expense reduction of \$ 98,981 based on 2018 variable operating expenses
 Results in an Operating Income reduction of \$ 537,640

Notes:
 1. Based on Debt Service Multiplier of 1.10 per Sch A of 1604.06 schedules
 2. Revenue requirements per Sch A Perm-Modified of 1604.06 schedules
 3. Requested Rate Stabilization Fund for Operating Expense and P & I Coverage each have a contingency of 10% safety factor
 4. PWWS share of the \$5,000,000 RSF for distribution to the RSF, MOERSF and the P&I RSF is 78.33% based on % of PWWS revenues (2012 Case) to % of all three regulated utilities revenues (2012 Case) or \$ 3,920,000
 5. Calculation of RSF Percentage based on Revenue requirements from DW13-126, 13-128 and 13-130

	PWW Revenue Requirement	PEU Revenue Requirement	PAC Revenue Requirement	Total Utility Revenue Requirement
	\$ 27,689,214	\$ 6,913,261	\$ 745,180	\$ 35,347,651
	per DW13-130 Settlement Agreement	per DW13-126 Settlement Agreement	per DW13-128 Settlement Agreement	

6. For Calculation of Operating Expense Requirement see Exhibit 1.1
 7. Inclusive of pro forma to Hudson and Pennichuck East Usage due to the PWWS PEU interconnect - See 1604.06 Schedule 1C
 8. Request rate stabilization fund levels based on multiple years of coverage for the MOER and 1.0 DSRR RSF, and to re-establish all RSF funds to their implest levels as determined and approved under DW 16-806.
 9. WICADQPAC revenues are divided between variable and fixed revenues based on the ratio between those revenues without the WICADQPAC Revenues per year as follows

Year	Fixed	Variable
2013	44.6%	55.2%
2014	44.6%	55.4%
2015	43.4%	56.6%
2017	45.6%	54.4%
2018	44.6%	55.4%

10. Actual year audited expenses, including non material operating expenses
 11. Amortization expense for 2013, 2014, 2015 and 2017 as provided by NHPUC Staff
 12. Cash tax expenses is estimated for 2013, 2014, 2015 and 2017

MOERRS Balance Analysis - Increased operating expenses only			
Audited	12/31/2017 MOERRS RSF Balance	\$	2,620,152
Audited	2018 MOERRS Revenues	\$	16,699,145
Audited	2018 MOERRS Expenses	\$	18,759,594
Audited	12/31/2018 MOERRS RSF Balance	\$	599,703
Based on unaudited PWWS 2019 Year End Revenues	2019 MOERRS Revenues	\$	16,360,684
Based on unaudited PWWS 2019 Year End Expenses	2019 MOERRS Expenses	\$	20,293,262
Based on unaudited PWWS 2019 Year End Revenues and Expenses	12/31/2019 MOERRS RSF Balance	\$	(3,372,875)
Amount Subject to Current Rate Case Order	Replenish MOERRS RSF	\$	2,850,000
Based on current Rate Case filing schedules with full year of approved MOERRS per Cell F13 above per 1604.04 Sch. A. This \$5 amount is less the MOERRS and multiplied by the proposed MOERRS Contingency Factor plus 75% of property taxes associated with taxable 2019 Capex	2020 MOERRS Revenues	\$	21,052,287
MOERRS requested in DW19-084 plus operating expense increase of 3% in 2020 plus increase in 2020 property taxes associated with 2019 OCP's	2020 Material Operating Expenses	\$	20,494,081
	12/31/2020 MOERRS RSF Balance	\$	3,406,206
Based on current Rate Case filing MOERRS per Cell F13 above. This \$5 amount plus 25% of property taxes associated with taxable 2019 assets plus 75% of property taxes associated with taxable 2019 and 2020 Capex	2021 MOERRS Revenues	\$	21,332,446
MOERRS requested in DW19-084 plus operating expense increases of 3% per year for 2020 and 2021 plus property taxes on 2019 and 2020 OCP's	2021 Material Operating Expenses	\$	21,335,416
	12/31/2021 MOERRS RSF Balance	\$	3,403,236
Based on current Rate Case filing MOERRS per Cell F13 above. This \$5 amount plus 25% of property taxes associated with taxable 2019 and 2020 assets plus 75% of property taxes associated with taxable 2019, 2020 and 2021 Capex	2022 MOERRS Revenues	\$	21,602,875
MOERRS requested in DW19-084 plus operating expense increases of 3% per year for 2020, 2021 and 2022 plus property taxes on 2019, 2020 and 2021 OCP's	2022 Material Operating Expenses	\$	22,236,898
	12/31/2022 MOERRS RSF Balance	\$	2,769,212
Based on 2022 MOE times allowed MOERRS factor plus 5 months of 2022 property taxes related 2021 OCP's	2023 MOERRS Revenues	\$	24,598,183
MOERRS requested in DW22-xx plus operating expense increase of 3% in 2023 plus increase in 2023 property taxes associated with 2022 OCP's	2023 Material Operating Expenses	\$	23,735,712
	12/31/2023 MOERRS RSF Balance	\$	4,181,694

Pennichuck Water Works, Inc.
Accounts Excluded From MOERR
DW 19-084
 Revised per Staff DR 2-37

(1)

Test Year

2018 Totals

921002	SENIOR MANAGEMENT VEHICLES	165.33	-	154.01	199.91	1,462.15	563.18	136.13	202.31	-	259.43	231.32	-	3,373.77	3,373.77
921003	SENIOR MGMT - FUEL PURCHASED	268.27	290.78	581.48	292.31	-	29.40	460.43	518.38	478.78	401.56	412.62	352.66	4,086.67	4,086.67
921004	SENIOR MGMT-VEH REGISTRATION	-	-	-	-	-	-	-	-	990.60	-	-	-	990.60	990.60
923000	OUTSIDE SERVICES	26,089.44	52,203.05	18,573.97	35,287.99	39,854.29	44,858.22	23,959.26	20,603.55	22,444.81	47,134.61	24,067.78	30,282.72	385,359.69	385,359.69
926001	OFFICER'S LIFE INSURANCE	386.19	386.19	386.19	386.19	386.19	386.19	386.19	386.19	2,055.19	386.19	386.19	386.19	6,303.28	6,303.28
926500	MISC EMPLOYEE BENEFITS	4,364.64	1,732.33	1,830.57	1,310.04	365.44	2,627.19	720.54	(7,570.39)	1,452.24	1,883.76	2,924.33	(2,881.77)	8,758.92	8,758.92
926501	MISC EMPLOYEE BENEFITS-WELLNESS	-	-	630.70	(1,105.00)	6,715.00	(1,056.52)	(282.08)	(2,770.73)	853.41	(1,109.16)	10.00	1,485.76	3,371.38	3,371.38
926502	MISC EMPLOYEE BENEFITS-ACTIVITIES	-	-	-	-	-	-	-	948.43	354.49	3,102.63	2,500.00	4,768.88	11,674.43	11,674.43
926505	EMPLOYEE RELATIONS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
926600	TUITION REIMBURSEMENTS	6,510.00	-	2,972.84	-	4,088.37	976.85	3,801.00	-	99.70	5,642.87	1,476.90	6,677.77	32,246.30	32,246.30
926610	TRAINING EDUCATIONAL SEMINARS	1,180.00	1,305.00	-	4,016.34	708.00	2,754.50	2,383.98	280.00	11,188.41	19,877.43	606.45	6,667.33	50,967.44	50,967.44
930100	MEETINGS & CONVENTIONS	915.00	5,299.70	5,343.92	5,644.97	526.53	273.33	908.96	33.33	13,381.78	659.00	1,496.66	841.61	35,324.79	35,324.79
930101	MEMBERSHIPS	3,833.91	3,698.91	139.98	4,262.29	3,829.66	3,857.62	2,463.42	3,159.92	2,524.71	2,042.72	3,308.76	2,467.63	35,589.53	35,589.53
930200	PUBLIC RELATIONS	-	429.65	913.96	2,681.64	5,989.22	13,011.91	887.53	535.24	-	443.57	372.60	359.64	25,624.96	25,624.96
930300	MEALS	390.09	610.33	398.83	282.21	411.20	147.01	291.72	396.51	122.94	742.99	382.58	26.93	4,203.34	4,203.34
930410	CHARITABLE CONTRIBUTIONS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
														Total of Non RSF backed O&M Expenses -	607,875.10
														Adjustment to NOERR expenses per Staff DR's 2-12, 2-30 and 3-5 -	52,529.00
														Proforma 2018 NOERR expenses -	555,346.10

Pennichuck Water Works, Inc.
Rate Impact on Average Single Family Residential Customer
Permanent Increase @ 3.67 TIC
Revised 1/24/2020 per Staff Tech DR2's
Revised 4/1/2020 per Staff Tech DR4's
Revised 4/9/2020 per Staff Tech DR4's
Revised 5/20/2020 per Settlement
Revised 8/26/2020 per final bond sale

Customer Impact

	<u>DW16-806 Rate Model</u>	
Overall Revenue Requirement/Increase (1)	\$	35,399,062
Current Water Revenues with CBFRR, excluding 2017, 2018 QCPAC (2)	\$	31,649,316
Overall Revenue % Increase⁸		11.85%
	<u>Base Rates (4):</u>	
	<u>Proposed Rates (3)</u>	
Monthly 5/8 inch Meter Customer Charge	\$	22.58
Monthly Volumetric Charge based on Usage (5)(6)	\$	28.44
Total Average Single Family Residential Monthly Bill	\$	51.02
Current Monthly QCPAC Surcharge (7)	\$	2.07
Total Average Single Family Residential Monthly Bill w/QCPAC Surcharge	\$	53.09

Customer Impact from New Rates:

Increase to the Total Average Single Family Residential Base Monthly Bill	\$	4.66	over tariffed Step rates granted in DW16-806
Increase to the Total Average Single Family Residential Monthly Bill	\$	2.59	over tariffed Step rates granted in DW16-806 with 2018 and 2019 QCPAC added to tariffed Step rates granted in DW16-806

Notes:

- (1) Overall Revenue Requirement using DW16-806 Rate methodology. Rate is inclusive of 2018 and 2019 QCPAC surcharges (reflective of Capital expenditures made in 2017 and 2018).
- (2) The Base rates reflect the current tariffed rates granted in DW16-806. The base rates do not include the impact of the QCPAC surcharge for 2017 and 2018. The Base rates are as detailed on Schedule 1C.
- (3) Per Schedule 9 of the 1604.08 schedules the effective rate increase for a volumetric charge for the residential GM customer is 10.17%
- (3) Per Schedule 9 of the 1604.08 schedules the effective rate increase for a Fixed charge for the residential GM customer is 7.81%
- (4) Base rates based on tariffed charges granted in DW16-806
- (5) Volumetric Charge per CCF granted in DW16-806 \$ 3.66
- (6) Average Single Family Residential Monthly Usage (CCF) 7.77
- (7) Based on the QCPAC granted in DW18-022 for used and useful 2017 Capex and for the QCPAC being sought in DW19-029 for used and useful 2018 Capex. The cumulative impact of these two QCPACs is projected to be 4.06%

Pennichuck Water Works, Inc.
Schedule A - Modified per DW16-806
Computation of Revenue Deficiency
For The Twelve Months Ended December 31, 2018

Revised 12/21/2019, Per Staff DR 2's
Revised 1/24/2020, Per Staff Tech 2 DR's
Resubmitted 2/7/2020 per Staff 3-1
4.01 TIC
Revised 3/10/2020 per Staff Tech 3 DR's
Revised 4/1/2020 per Staff Tech DR4's
Revised 4/9/2020 per Staff Tech DR4's
Revised 5/20/2020 per Settlement Tech Session
Revised 8/26/2020 for Final Bond Sale

Schedule A

	12 Months Ending 12/31/18	PRO FORMA Adjustments to 2018 Test Year	PRO FORMA 12 Months Ending 12/31/18	Perm Rate PRO FORMA Adjustments based on FIVE YEAR AVE	Perm Rate Based on Five Year Ave
City Bond Fixed Revenue Requirement (CBFRR)	\$ 7,859,513 (1)	\$ (130,481) (5)	\$ 7,729,032	\$ -	\$ 7,729,032
Operating Expense Revenue Requirement (OERR)	\$ 21,650,451 (2)	\$ (2,175,724) (6)	\$ 19,474,727	\$ 22,420 (8)	\$ 19,497,147
Operating Expense Contingency, exclusive of Non material operating expenses			9.50%		9.50%
Operating Expense Contingency	\$ -	\$ -	\$ 1,792,351	\$ 22,420	\$ 1,799,471
Debt Service Revenue Requirement (DSRR 1.0)	\$ 6,337,838 (3)	\$ 664,793 (7)	\$ 7,002,631	\$ (826,154)	\$ 6,176,477
Principal and Interest Coverage Requirement	10%	10%	10%	10%	10%
0.1 Debt Service Revenue Requirement (0.1 DSRR)	\$ 633,784 (4)	\$ 66,479	\$ 700,263	\$ (82,615)	\$ 617,648
Required Total Revenue Requirement	\$ 36,481,586	\$ (1,574,933)	\$ 36,699,003	\$ (60,196) (9)	\$ 35,819,774
Total Other Revenues	\$ 419,872	\$ 841 (13)	\$ 420,712	\$ -	\$ 420,712
Revenues required from Customer Classes	\$ 36,061,714	\$ (1,574,092)	\$ 36,278,291		\$ 35,399,062
Total Current Revenues	\$ 32,390,671	\$ 815,868 (14)	\$ 33,206,539	\$ 111,587 (9)	\$ 33,318,125
Total Other Revenues	\$ 419,872	\$ 841 (13)	\$ 420,712	\$ -	\$ 420,712
Current Water Revenues excluding CBFRR, Other Revenues and QCPAC	\$ 23,749,129	\$ (84,591) (15)	\$ 23,664,538	\$ 125,265 (16)	\$ 23,789,803
Add back: City Bond Fixed Revenue Requirement	\$ 7,859,513	\$ -	\$ 7,859,513	\$ -	\$ 7,859,513
Current Water Revenues with CBFRR, less QCPAC and Other Revenues	\$ 31,608,641	\$ (84,591)	\$ 31,524,050		\$ 31,649,316
Proposed Percent Customer Class Revenue Increase (10)(11)	14.09%		15.08%		11.85%
Principal and Interest Coverage Requirement -	1.10				

Notes:

- (1) The 12/31/2018 CBFRR reflects the actual revenues booked to this account during 2018 based on the percentage of overall revenues booked in 2018 per DW16-806
- (2) The 12/31/18 OERR reflects the actual revenues booked to this account (sum of Material and Non Material Operating Expense Revenues) during 2018 based on the percentage of overall revenues booked in 2018 to DW16-806
- (3) The 12/31/2018 DSRR 1.0 reflects the actual revenues booked to this account during 2018 based on the percentage of overall revenues booked in 2018 per DW16-806
- (4) The 12/31/2018 DSRR 0.1 reflects the actual revenues booked to this account during 2018 based on the percentage of overall revenues booked in 2018 per DW16-806
- (5) Per 1604.06 Schedule 1, Attach A, Page 2
- (6) Per 1604.06 Schedule 1
- (7) Per 1604.08 Schedule 5
- (8) Per 1604.06 Schedule 1
- (9) Adjustments to proformed current year revenues and operating expenses based on 5 year average and for TY ending meter count impact on fixed meter charges per Schedule 1C
- (10) Rate increase is inclusive of the cumulative QCPAC increases granted in DW18-022 for 2017 Capex and sought in DW19-029 for 2018 Capex of 4.06%
- (11) Customer Class Revenues are those derived from G-M volumetric and Fixed meter charges, Special Contract Volumetric and Fixed meter charges. Revenue increase does not apply to Fixed Special contract charges or to other revenues.
- (12) Reflects the savings in Principal and Interest expense projected to occur as a result of Pennichuck's proposed refinancing the existing BYN Melon-2014A, BYN Mellon-2105A, BYN Mellon-2015B Bonds and AULI note in addition to issuing new debt to refill the Rate Stabilization Funds from the current levels to the levels approved in DW16-806. Pennichuck hopes to issue the new and refunding bonds before the end of the summer of 2020.
The P&I savings of the refinancing and new money @ a TIC of 4.01% are: \$ 826,154

Pennichuck Water Works, Inc.
Overall Rate of Return
For the Twelve Months Ended December 31, 2018

Rate of Return - Sch 1A

<u>Capital Component</u>	<u>Amount</u>	<u>Ratio</u>	<u>Rate</u>	<u>Average Cost Rate</u>
Long-term Debt	\$ 84,913,202	99.46%	4.50% (2)	4.47%
Short-term Debt	\$ -	0.00%	0.00%	0.00%
Preferred Stock	\$ -	0.00%	0.00%	0.00%
Common Equity	\$ 459,068	0.54%	6.11% (1)	0.03%
Overall Rate of Return	<u>\$ 85,372,270</u>	<u>100.00%</u>		<u>4.51%</u>

Notes:

- (1) The return on equity based on Order 25,292 in DW 11-026 is as follows:
- | | |
|-------------------------------------|--------------|
| Average 2018 30 year Treasury bonds | 3.11% |
| Plus 3.0% | 3.00% |
| Total | <u>6.11%</u> |
- (2) Per Order 25,230 in DW 10-091, the interest rate as reflected on Schedules 5 is calculated on debt net of debt issuance costs

Pennichuck Water Works, Inc.
Operating Income Statement
For The Twelve Months Ended December 31, 2018
Revised 12/21/2019, Per Staff DR 2's
Revised 1/24/2020, Per Staff Tech 2 DR's
Revised 4/1/2020 per Staff Tech DR4's

Schedule 1

	Account Number	Twelve Months 12/31/18	PRO FORMA Adjustments to Test Year	PRO FORMA 12 Months 12/31/18	Perm Rate Adjustments based on FIVE YEAR AVE	Perm Rate Based on Five Year Ave	Twelve Months 12/31/17	Twelve Months 12/31/16	Twelve Months 12/31/15
Water Sales, less QCPAC Revenues		\$ 31,608,641	\$ (84,591) (1)	\$ 31,524,050	\$ 125,265 (13)	\$ 31,649,316	\$ 29,135,439	\$ 30,546,757	29,287,668
QCPAC Revenues		\$ 362,158	\$ 899,618 (2)	\$ 1,261,776	\$ (13,679) (14)	\$ 1,248,097			
Total Water Sales		\$ 31,970,799	\$ 815,027	\$ 32,785,826	\$ 111,587	\$ 32,897,413			
Water Sales for Resale	466	3,321	-	3,321		3,321	3,213	5,319	11,151
Other Operating Revenue	471 to 474	416,551	841 (3)	417,391		417,391	445,396	370,484	221,722
Total Revenues		32,390,671	815,868	33,206,539	111,587	33,318,125	29,584,048	30,922,560	29,520,541
Operating Expenses									
Production Expenses	601 to 652 & 926.7 660 to 678 & 921,	5,074,509	209,258 (4)	5,283,767	22,420 (15)	5,306,187	4,571,844	4,705,567	4,515,441
Transmission & Distribution Expenses	926,950	2,848,339	73,109 (5)	2,921,448	-	2,921,448	2,168,076	1,802,912	1,858,477
Engineering Expense	660 to 662	1,287,747	11,317 (6)	1,299,064	-	1,299,064	1,169,360	1,169,785	1,065,646
Customer Acct & Collection Exp	902 to 904	489,789	9,700 (7)	499,489	-	499,489	447,889	458,503	463,937
Administrative & General Expense	920 to 950	7,580,371	320,301 (8)	7,900,671	-	7,900,671	7,040,895	6,609,929	6,106,621
Inter Div Management Fee	930	(3,288,063)	(57,302) (9)	(3,345,365)	-	(3,345,365)	(3,058,435)	(2,768,716)	(2,120,673)
Amortization Expense	407	134,666	11,054 (10)	145,720	-	145,720	145,442	(207,365)	(185,384)
Property Taxes	408.1	4,438,775	(470,179) (11)	3,968,596	-	3,968,596	4,553,766	4,225,534	4,022,844
Payroll Taxes	408.1	698,087	-	698,087	-	698,087	656,931	620,299	595,013
Income Tax	409 to 410	2,386,231	(2,282,982) (12)	103,249	-	103,249	1,365,761	2,875,917	2,253,953
Total Operating Expenses		21,650,451	(2,175,724)	19,474,727	22,420	19,497,147	19,061,528	19,492,364	18,575,874

Notes:

- (1) Adjust for sales to PEU instead of to Hudson per schedule 1C, adjust for revenue credit disallowed in DW18-076, reduction of overcollected CBFRR per Sch 1, Attach A, Pg 2
- (2) adjust QCPAC revenues Schedule 1, Attachment A, Page 1
- (3) adjust other operating revenue to to include impact on jobbing revenues of 2019 union wage increase per Schedule 1, Attachment A, Page 1
- (4) adjust for pro forma Production expenses per Schedule 1, Attachment B
- (5) adjust for pro forma T&D expenses per Schedule 1, Attachment C
- (6) adjust for pro forma engineering personnel and salary expenses per Schedule 1, Attachment D
- (7) adjust for pro forma for Customer Account and Collection expenses per Schedule 1, Attachment E
- (8) adjust for pro forma Administration and General expenses per Schedule 1 Attachment F, page 1
- (9) adjust Management Fee allocation to subsidiaries per Schedule 1 Attachment G
- (10) adjust for pro forma amortization expenses per Schedule 1, Attachment I
- (11) adjust for pro forma Property Tax expenses per Schedule 1, Attachment H
- (12) adjust for pro forma Income Tax expense per Schedule 1, Attachment J
- (13) adjust revenue to 5 Year Ave and for TY ending meter count impact on fixed meter charges per Schedule 1C
- (14) adjust QCPAC revenue to 5 Year Ave per Schedule 1C
- (15) adjust Production Expenses to 5 Year Ave per Schedule 1, Attachment B

Pennichuck Water Works, Inc.
 Operating & Maintenance Expenses
 Reconciliation Filing to Annual Report
 For The Twelve Months Ended December 31, 2018

Schedule 1
 Exhibit 1

Revised 2/10/2020 per Staff 3-12

	Account Number	Per Filing	Account 926.7	Account 921	Account 926.0	Account 950	Engineering	Inter Div Mgt Fee	Per 2018 Annual Report
Production Expenses	601 to 652 & 926.7	\$ 5,074,509	(243,900)						\$ 4,830,610
Transmission & Distribution Expenses	660 to 678 & 921, 926,950	2,848,339		(112,628)	(377,708)	(126,129)	1,287,747		3,519,620
Engineering Expense	660 to 662	1,287,747					(1,287,747)		-
Customer Acct & Collection Exp	902 to 904	489,789							489,789
Administrative & General Expense	920 to 950	7,580,371	243,900	112,628	377,708	126,129		(3,224,773)	5,215,963
Inter Div Management Fee	930	(3,224,773)						3,224,773	-
Total Operating Expense		\$ 14,055,982	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,055,982

Note:

The test year operating and maintenance expenses in the rate filing are presented based on the function area responsible for the associated expenses.
 The annual report is presented based on type of expense per the NHPUC Chart of Accounts. The above schedule reconciles the different presentations.

Account Description

- 926.0 & 926.7 - Union Labor Boot & Clothing Allowance, Holiday & Vacation Pay
- 921 - Office Expenses at the Will Street Facility
- 950 - Garage and Meter Shop Maintenance Expense at the Will Street Facility

Pennichuck Water Works Inc
PRO FORMA Adjustment Income or Expense
Total Revenues
For The Twelve Months Ended December 31, 2018
 Revised 1/24/2020 per Staff

Schedule 1
 Attachment A
 Page 1

I Water Sales

A. Water Sales, less QCPAC Revenues

Adjust for difference in sales revenues created by transition from selling water indirectly to Pennichuck East through Hudson and directly to Pennichuck East:

2018 Pro Forma Test Year Volumetric Sales to Hudson per Sch 1C -	\$	(402,853)
2019 Pro Forma Test Year to Pennichuck East (Fixed Fee, Meter Charge, Volumetric) per Sch 1C -	\$	<u>306,642</u>
Pro Forma change to revenues for direct sales to Pennichuck East -	\$	<u>(96,211)</u>

Therefore: \$ (96,211)

B. Water Sales, less QCPAC Revenues

During 2018 the Company issued credits to certain customers in good faith associated with small non metered fire protection service. The Commission in Order 26,200 issued in response to DW 18-076 stated that the credits issued to customers were to be disallowed from the Company's revenue requirement in its next rate case in the amount of \$ 11,620

Therefore: \$ 11,620

C. QCPAC Revenues

During 2018 only a part year of the QCPAC revenues granted in DW18-022 was collected. This proforma reflects the collection of a full year of QCPAC revenues granted in DW18-022 and those requested in DW19-029 based on 2018 Sales detailed in Schedule 1C

QCPAC revenues granted in DW18-022	\$	525,222	based on 1.69% and 2018 sales for full year
QCPAC revenues sought in DW19-029	\$	<u>736,554</u>	based on 2.37% and 2018 sales for full year
QCPAC revenues required in Permanent rate increase sought	\$	1,261,776	
QCPAC revenues booked in 2018 TY	\$	<u>362,158</u>	
Proforma to 2018 TY QCPAC revenues	\$	<u>899,618</u>	

Therefore: \$ 899,618

II Other Operating Revenues

A. Per Schedule 1B, The following pro forma adjustment reflects the inclusion of jobbing revenues net of expenses adjusted 2019 Union increase of for 3.0% as follows: (Per F-2 Annual Report) inclusive of the 25% make up in revenues due to wage increases as follows

		2018		2019
Jobbing Labor Expense	\$	68,669	\$	70,729
Labor Direct Overhead @ 63.24%	\$	<u>43,426</u>	\$	<u>44,729</u>
Total Labor and Direct Overhead	\$	<u>112,095</u>	\$	<u>115,458</u>
Impact of 25% mark up to Revenues	\$	28,024	\$	28,865
Proforma increase to Jobbing Labor Exp.	\$	841		

Therefore: \$ 841

TOTAL OTHER OPERATING REVENUES PRO FORMA: \$ 841

Pennichuck Water Works Inc
PRO FORMA Adjustments to Revenue Requirement
Calculation of PWW's share of City Bond Fixed Revenue Requirement

Schedule 1
 Attachment A
 Page 2

Total City Bond	\$	150,570,000	
Bond Interest Rate		4.09%	
Bond Period		30 yrs.	
Total City Bond	\$	150,570,000	
Less Rate Stabilization fund		\$5,000,000	
Amount of City Bond to be prorated between Utilities CBFRR	\$	<u>145,570,000</u>	
PWW Share of CBFRR		88.12%	
PWW Prorate share		<u>\$128,282,230</u>	
Add back PWW Pro Rata Share of Rate Stabilization Reserve	\$	3,920,000	
Total PWW Pro Rata Share for CBFRR/MARA	\$	<u>132,202,230</u>	
Bond Interest Rate		4.09%	
Bond Period		30 yrs.	
PWW CBFRR requirement	\$	<u>7,729,032</u>	
PWW CBFRR Revenues collected in 2018	\$	<u>7,859,513</u>	
Proforma Revenue adjustment to Test Year Revenues	\$	<u>(130,481)</u>	

Pro Rata Calculation as follows:⁽¹⁾

PW & Southwood Equity (12/31/2011) ⁽²⁾	\$	56,442,675	88.12%
PEU Equity (12/31/2011)	\$	6,540,063	10.21%
PAC Equity (12/31/2011)	\$	1,066,353	1.66%
	\$	<u>64,049,091</u>	<u>100.00%</u>

Calculation of RSF Percentage based on Revenue requirements from DW13-126, 13-128 and 13-130

RSF amount funded by City Bond -	\$	5,000,000	
PWW Revenue Requirement -		\$27,689,214	per DW13-130 Settlement Agreement
PEU Revenue Requirement -		\$6,913,261	per DW13-126 Settlement Agreement
PAC Revenue Requirement -		\$745,186	per DW13-128 Settlement Agreement
PWW Share of RSF as a percentage -		78.33%	
PWW Share of RSF in \$\$ -	\$	3,920,000	

6. Distribution of RSF funds to Revenue Requirement RSF's⁽³⁾

CBFRR RSF	\$	680,000
MOERR RSF	\$	2,850,000
1.0 DSRR RSF	\$	390,000

(1) Calculations are from DW11-026

(2) Consists of Equity as of 12/31/2011 as follows:

PWW	\$	54,395,626
Southwood	\$	2,047,049
Total	\$	<u>56,442,675</u>

(3) PWW RSF fund levels as established in DW16-806

Pennichuck Water Works, Inc.
PRO FORMA Adjustments To Rate Base
RSF Balance Calculations
 For the Twelve Months Ended December, 2018
 Revised 1/24/2020 per Staff Tech 2DR's, exclusive of Staff tech 2-23
 Revised 5/11/2020 per Staff Tech DR5's
 Revised 4/9/2020 per Staff Tech DR4's

Schedule 1
 Attachment A
 Page 3

I DEFERRED DEBIT/CREDIT to/from RSF ACCOUNTS

A.	12/31/2017 RSF			12/31/2018 RSF			12/31/2019 RSF		Balances per DW16-806
	Balances	2018 Revenues	2018 Expenses	Balances	2019 Revenues	2019 Expenses	Balances		
City Bond Fixed Revenue Requirement	\$ 2,030,436	\$ 7,859,513 (1)	\$ 8,809,032 (6)	\$ 1,080,917	\$ 7,663,838	\$ 7,729,032	\$ 1,015,724	\$ 680,000	
Material Operating Expense Revenue Requirement	\$ 2,620,152	\$ 16,699,145 (2)	\$ 18,759,594 (7) (8)	\$ 559,703	\$ 16,445,594	\$ 19,801,593	\$ (2,796,295)	\$ 2,850,000	
1.0 Debt Service Revenue Requirement	\$ 302,519	\$ 6,576,055 (4)	\$ 6,337,838 (9)	\$ 540,736	\$ 6,897,543	\$ 6,622,252	\$ 816,027	\$ 390,000	
Totals	\$ 4,953,107	\$ 31,134,712	\$ 33,906,463	\$ 2,181,356			\$ (964,545)	\$ 3,920,000	
		2018	2019						
Combined RSF Shortfall -	\$ 1,738,644	\$ 964,545		2019 Combined RSF shortfall based on current rate making					
Amortize Deferred Debit over 3 years -	\$ 579,548			and target RSF balances based on DW19-084 MOES concept					

2018 REVENUES BY REVENUE REQUIREMENT

	2018 Revenues	2019 Revenues
City Bond Fixed Revenue Requirement -	\$ 7,859,513	\$ 7,663,838
Material Operating Expenses Revenue Requirement -	\$ 16,699,145	\$ 16,445,594
Non Material Operating Expense Requirement -	\$ 598,245	\$ 583,350
1.0 Debt Service Revenue Requirement -	\$ 6,576,055	\$ 6,897,543
0.1 Debt Service Revenue Requirement -	\$ 657,714	\$ 690,069
Total 2018 Revenues -	\$ 32,390,671	\$ 32,280,395

Notes:

- | | | | |
|--|---------------|--|--|
| (1) CBFRR Revenues as a percentage of water sales (exclusive of QCPAC) per DW16-806 | 24.54% | CBFRR Revenues as a percentage of QCPAC | 0.0% |
| (2) MOERR Revenues as a percentage of water sales (exclusive of QCPAC) per DW16-806 | 51.87% | MOERR Revenues as a percentage of QCPAC | 23.3% |
| (3) NOERR Revenues as a percentage of water sales (exclusive of QCPAC) per DW16-806 | 1.87% | NOERR Revenues as a percentage of QCPAC | 0.0% |
| (4) 1.0 DSRR Revenues as a percentage of water sales (exclusive of QCPAC) per DW16-806 | 19.74% | 1.0 DSRR Revenues as a percentage of QCPAC | 69.7% |
| (5) 0.1 DSRR Revenues as a percentage of water sales (exclusive of QCPAC) per DW16-806 | 1.97% | 0.1 DSRR Revenues as a percentage of QCPAC | 7.0% |
| (6) Includes transfer of RSF funds from PWW to PEU per DW17-128 in the amount of - | \$ 1,080,000 | | |
| (7) Total Operating Expenses less Non material operating expenses of | \$ 607,875 | per Schedule 1 Attach K. | Non material operating expenses as defined in DW16-806 |
| (8) Income Taxes proformed out of Material Operating Expenses. | | | |
| (9) 2018 Principal and Interest Payments per 1604.08 Schedule 5 | | | |
| (10) 2019 QCPAC Revenues | \$ 1,049,281 | | |
| (11) 2019 Non QCPAC Revenues | \$ 31,231,114 | | |
| (12) 2019 Revenues and Expenses are based on preliminary year end. These are unaudited revenues/expenses and are used for illustrative purposes. | | | |

Pennichuck Water Works Inc
PRO FORMA Adjustment Income or Expense
Production Account
For the Twelve Months Ended December 31, 2018
Revised 12/21/2019 per Staff DR2-10, 2-39

Schedule 1
Attachment B

Test Year Proformas	Proformas based on 5 Year Ave.
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I Union Salaries

A. In 2017, the Company signed a three year contract with the United Steelworkers Union which called for a 3.0% increase 1/1/2019.
To calculate the pro forma adjustments for production union payroll, the payroll data was extracted from the work order detail report for the year 2018 per Schedule 1B

Therefore:

Annualize impact of wage increase granted on 01/01/2019	\$ 25,544
	\$ 25,544

Total Production Union Salaries Pro Forma:

\$ 25,544

II Non-union Salaries

A. During the test year and subsequent year, the Company experienced hirings, terminations and salary increases for production non-union personnel per Schedule 1B. The impact of the changes on base salaries are summarized below:

Department	Base Salaries		Proforma
	2019	2018 (1)	
Production	\$ 764,146	\$ 733,537	\$ 30,609

(1) Base Salaries exclude overtime, taxable fringe and other compensation items. Base Salary info can be found on Sch 1 Attach C, Pg 3
Production Non Union Salary Expense is shared with the affiliates via the Management Fee per Sch 1 Attach G

Total Production Non-Union Salaried Pro Forma:

\$ 30,609

III Operating and Maintenance Expenses:

A. Effective during 2019 the rates for water purchased from the Manchester Water Works, Derry Water Works, Milford Water Department and the Merrimack Village District are projecting increases on both volumetric and meter charges. The calculation of the pro forma adjustment is as follows:

Provider	2018 Purchased Water Expense (1)	Percent increase in rates in 2019	Proforma Increase
TOTAL DERRY WATER -	\$ 186,632	\$0.15/ CCF	\$ 7,781
TOTAL MANCHESTER WATER WORKS -	\$ 126,435	3.00%	\$ 3,793
TOTAL MERRIMACK VILLAGE DISTRICT -	\$ 118,120	28.90%	\$ 34,137
TOTAL MILFORD WATER -	\$ 38,798	0.00%	\$ -
			\$ 45,711

Therefore:

\$ 45,711

(1) Derry increased its volumetric rate from \$1.987 in 2018 to \$2.137 per CCF in 2019.
Derry did not increase the expense of the fixed portion of their water bill in 2019
PWW purchased 51874 CCF's in 2018.

Adjustment to Purchased water expense associated with 5 Year Average Flows

Provider	Proformed 2018 Purchased Water Expense	% Change	Proforma Increase
TOTAL DERRY WATER -	\$ 194,413	-3.24%	\$ (6,291)
TOTAL MANCHESTER WATER WORKS -	\$ 130,226	-3.24%	\$ (4,214)
TOTAL MERRIMACK VILLAGE DISTRICT -	\$ 152,257	-3.24%	\$ (4,926)
TOTAL MILFORD WATER -	\$ 38,798	-3.24%	\$ (1,255)
			\$ (16,686)

Therefore:

\$ (16,686)

B. During 2018, the Company negotiated a new electricity supply charge rate (per kilowatt hour) effective April 1, 2018 for G and GV Accounts through November 30, 2019

The calculation of the pro forma adjustment is as follows:

	2018 KWH between 1/1/18 and 3/31/18	2018 KWH between 1/1/18 and 3/31/18	2019 KWH Rate between 4/1/18 and 11/30/2019	Change in Rate	Proforma Change in Electric Supply Costs
WTP, Timberline, Mast Rd KWH	1,172,238	\$ 0.07403	\$ 0.07000	\$ (0.00403)	\$ (4,724)
ALL OTHER KWH	627,242	\$ 0.07403	\$ 0.08360	\$ 0.00957	\$ 6,003
					\$ 1,279

Therefore:

\$ 1,279

	2018 KWH	% Change	Change in KWH	2019 KWH Rate between 4/1/18 and 11/30/2019	Proforma Change in Electric Supply Costs
WTP, Timberline, Mast Rd KWH	6,189,424	1.48%	91,834	\$ 0.07000	\$ 6,428
ALL OTHER KWH	2,470,063	7.91%	195,279	\$ 0.08360	\$ 16,325
					\$ 22,754

Therefore:

\$ 22,754

D. Effective January 1, 2019 the cost for chemicals at the water treatment plant changed:
 The calculation of the pro form adjustment is as follows:

Chemical	2018 Unit Cost	2019 Unit Cost	Change in Chemical cost from 2018 to 2019	Percentage Change in Price (2018 to 2019)	2018 WTP Chemical Costs	Proforma Change in WTP Chemical Costs based Unit Price Change
50% Caustic Soda pH adjust	\$ 0.3362	\$ 0.3600	\$ 0.0238	7.08%	\$ 408,037	\$ 28,885
Ferric Chloride	\$ 0.2600	\$ 0.3100	\$ 0.0500	19.23%	\$ 338,015	\$ 65,003
Polymer	\$ 1.5600	\$ 1.8200	\$ 0.2600	16.67%	\$ 11,812	\$ 1,969
Sodium Hypochlorite	\$ 0.5888	\$ 0.6700	\$ 0.0812	13.79%	\$ 43,512	\$ 6,001
Zinc Ortho-phosphate	\$ 0.5500	\$ 0.5700	\$ 0.0200	3.64%	\$ 47,751	\$ 1,736
TKPP	\$ 1.1800	\$ 1.3000	\$ 0.1200	10.17%	\$ 24,794	\$ 2,521
Total Proformed Change in WTP Chemical Costs -					\$	106,115

Therefore:

\$ 106,115

E. Adjustment to chemical costs associated with 5 Year Average Flows

	2018 WTP and CWS Proforma Chemical Costs	Percentage Change in WTP/CWS Pumpage (5 Yr Ave to 2018)	Proformed Change in WTP Chemical Costs based on 5 Yr Ave
Total 2018 WTP Chemical Costs	\$ 980,035	1.48%	\$ 14,541
Total 2018 CWS Chemical Costs	\$ 22,911	7.91%	\$ 1,811

Therefore:

\$ 16,352

TOTAL PRODUCTION EXPENSE PRO FORMA: \$ 209,258 \$ 22,420

Pennichuck Water Works Inc
PRO FORMA Adjustment Income or Expense
Distribution Account
For the Twelve Months Ended December 31, 2018
Revised 12/21/2019 per Staff DR2-28
Revised 3/10/2020 per Staff Tech 3 DR's

Schedule 1
Attachment C

I Union Contract

- A.** In 2017, the Company signed a three year contract with the United Steelworkers Union which called for a 3.0% increase 1/1/2019.
To calculate the pro forma adjustments for production union payroll, the payroll data was extracted from the work order detail report for the year 2019 per Schedule 1B.

Therefore:

Annualize impact of wage increase granted on 01/01/2019	\$	50,519	
	\$	<u>50,519</u>	
Total Distribution Union Salaries Pro Forma:	\$		50,519

II Salary

- A.** During the test year and subsequent year, the Company experienced hirings, terminations and salary increases for production non-union personnel per Schedule 1B. The impact of the changes on base salaries are summarized below:

Department	Base Salaries		Proforma
	2019	2018 (1)	
Distribution	\$ 434,249	\$ 386,401	\$ 47,848

- (1) Base Salaries exclude overtime, taxable fringe and other compensation items. Base Salary info can be found on Sch1 Attach C Pg 1A
Distribution Non Union Salary Expense is shared with the affiliates via the Management Fee per Sch 1 Attach G

Total Distribution Non-Union Salaries Pro Forma:	\$		47,848
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III Operating Expenses

- A.** Per Staff DR 2-28 it was determined that an expense associated with the purchase of motor oil that occurred in 2018 should have been reclassified as a 2019 prepaid asset.

Rate case filed expense	\$	2,358
Reclass to 2019 Prepaid expense	\$	<u>1,769</u>
Actual 2018 TY Expense	\$	589

Therefore	\$	(1,769)
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- B.** Per Staff Tech Session DR 5)a. Truck repair and wireless RTU expenses incurred in 2018 that were expensed in the amount of \$ 23,489 should have been amortized over a three year time frame.

Therefore	\$	(23,489)
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TOTAL DISTRIBUTION EXPENSE PRO FORMA:	\$	<u>73,109</u>
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Pennichuck Water Works Inc
PRO FORMA Adjustment Income or Expense
Engineering Account
For the Twelve Months Ended December 31, 2018

Schedule 1
Attachment D

I Engineering Salaried

A. During the test year and subsequent year, the Company experienced hirings, terminations and salary increases for engineering non-union personnel. The impact of the changes on base salaries are summarized below:

Department	Base Salaries		Proforma
	2019	2018 (1)	
Engineering	\$ 1,042,468	\$ 1,031,151	\$ 11,317

(1) Base Salaries exclude overtime, taxable fringe and other compensation items. Base Salary info can be found on Sch 1 Attach F Pg 3
 Engineering Salary Expense is shared with the affiliates via the Management Fee per Sch1, Attach G

Therefore:	\$ 11,317
Total Engineering Salaries Pro Forma:	<u>\$ 11,317</u>

Pennichuck Water Works Inc
PRO FORMA Adjustment Income or Expense
Customer Account and Collection Expense
For the Twelve Months Ended December 31, 2018

Schedule 1
Attachment E

I Customer Account and Collection

A. In 2019 the cost of bill and notice processing increased in accordance with the Company's contract with Curtis1000. These cost increases were partially offset by a decrease in postage. The following pro forma adjustment reflects the impact on costs as follows:

Activity	Quantity	2019 Rate (1)	2018 Rate	Rate Change	Pro Forma
Bill Processing	445,002	\$ 0.072	\$ 0.072	\$ -	\$ -
Notice Processing	26,664	\$ 0.072	\$ 0.072	\$ -	\$ -
Total Bill Processing Increase					<u>\$ -</u>
Bill Postage	445,002	\$ 0.410	\$ 0.390	\$ 0.020	\$ 8,900
Notice Postage	26,664	\$ 0.500	\$ 0.470	\$ 0.030	\$ 800
Total Postage Savings					<u>\$ 9,700</u>
				Total increase -	<u><u>\$ 9,700</u></u>

Therefore: **\$ 9,700**

Total Customer Account and Collection Pro Forma: **\$ 9,700**

Notes:

(1) Pennichuck will be seeking proposals for Bill and Notice Processing during the summer of 2019. The 2019 rate will be adjusted to the numbers received from that proposal process as they will be known and measurable within 12 months of the end of the test year.

Pennichuck Water Works Inc
PRO FORMA Adjustment Income or Expense
Administrative and General Account

Schedule 1
 Attachment F
 Page 1

For the Twelve Months Ended December 31, 2018

Revised 12/21/2019 per Staff DR's 2-12, 2-29, DR2-30, 2-41, 2-50

Revised 1/24/2020 per Staff Tech DR2-9, DR2-12

Revised 3/10/2020 per Staff Tech 3 DR's

I Salary¹

During the test year and subsequent year, the Company experienced hirings, terminations and salary increases for administrative and general non-union personnel per Schedule 1, Attachment F, Page 2 as follows:
 The impact of the changes on base salaries are summarized below by department:

2019 Estimated Expense	\$	2,886,020	
2018 Actual Expense	\$	2,663,541	
Additional expense	\$	222,479	
Therefore:			\$ 222,479

I Benefit Allocation¹

To reflect the benefits costs associated with the increase in payroll, summarized on Schedule 1B.

	Non-Union	Union	Total	
Payroll Pro Forma	\$ 312,253	\$ 76,064	\$ 388,317	
Benefits Pro Forma	48.73%	63.24%		
Benefits \$ Pro Forma	\$ 152,161	\$ 48,103	\$ 200,264	
Therefore:				\$ 200,264

II Regulatory Commission Expense

In 2018, the Company recorded regulatory commission expense based on quarterly assessments. Based on the latest assessment, the Company expects to incur higher levels in 2019 as follows:

2018 Regulatory Expense	\$	105,678	
Estimated Annualized 2019 NHPUC Fiscal Yr Assessment	\$	118,338	
Additional Projected 2019 Expense	\$	12,660	
Therefore:			\$ 12,660

III Pension Expense¹

In 2019, the Company is expecting an increase in pension expenses and health retirement plans based on actuarial valuation. The pro forma adjustment to reflect the increased costs is as follows:

	Pension	Health Retirement	Total Pro Forma	
2019 Estimated Expense	\$ 1,325,040	\$ 262,140		
2018 Actual Expense	\$ 1,286,314	\$ 298,204		
Additional Expense	\$ 38,726	\$ (36,064)		
Therefore:				\$ 2,662

IV Insurance

In 2019, the Company is expecting an increase in insurance expenses. The pro forma adjustment to reflect the increased costs is as follows:

2019 Estimated Insurance Expense	\$	491,625	
2018 Actual Insurance Expense	\$	487,967	
Additional Insurance Expense	\$	3,658	
Therefore:			\$ 3,658

V Group Health Insurance

In 2019, the Company is expecting an increase in Group Health care costs reflective of the full time employees added during 2018 and 2019 per Sch1, Attach F, Pg 3.

2019 Actual Group Health Insurance Expense	\$	1,749,800	
2018 Actual Group Health Insurance Expense	\$	1,738,184	
	\$	11,616	
Therefore:			\$ 11,616

VI Group Dental Insurance

In 2019, the Company is expecting an increase in Group

Dental Insurance costs reflective of the full time employees added during 2018 and 2019 as well as a change in the the Company prioum.

2019 Actual Dental Insurance Expense	\$ 215,790
2018 Actual Dental Insurance Expense	\$ 185,489
	<u>\$ 30,301</u>

Therefore:

\$ 30,301

VII Computer Maintenance Expenses¹

a) In 2019, the Company will experience increased computer maintenance costs in the area of new software support annual fees. The pro forma adjustment to reflect the increased costs is as reflected in Sch 1, Attach F, Pg 4. Incremental Annual Costs associated with increases in software fees and new software

	<u>\$ 36,326</u>
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Therefore:

\$ 36,326

b) In 2019 the Company paid Oracle a one time payment to cover a change in the number of users that was not adjusted a number of years earlier when the software ware changed. This fee was expenses in 2018 in total when it should have been treated as a deferred debit and amortized over a period of 9 years.

	<u>\$ 100,955</u>
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Therefore:

\$ (100,955)

c) Per Staff Tech Session DR 5.b) the Company expensed \$ 16,268 of costs associated with the purchase of 5 IPAD Pros and associated custom programming. It was agreed that these expenses should be amortized over a 3 year time frame.

Therefore:

\$ (16,268)

VIII Under the current lease at Manchester Street, lease payments increased in 2019 when compared to 2018 expenses. The following pro forma adjustment annualizes the current lease payments:

2019 Annualized Fee at current rate	\$ 330,629
2018 Lease Expense	\$ 326,351
Increase in Lease Expense	<u>\$ 4,278</u>

Therefore:

\$ 4,278

IX Outside Services Expense

a) Per Staff DR 2-29 certain expenses associated with Microtech Staffing Group were booked to Pennichuck Water Works, Outside servcies should have been booked to Pennichuck East, Outside Services. This entry corrects that miss posted expense of

	<u>\$ 22,807</u>
--	------------------

Therefore:

\$ (22,807)

b) Per staff 2-30 an outside expense associated with servcies provided between 2/1/2017 and 6/30/2017 was posted to the Company's 2018 Outside Services expenses. The expense for those services, in the amount of should not have been booked as a 2018 expense.

	<u>\$ 5,520</u>
--	-----------------

Therefore:

\$ (5,520)

c) Per Staff DR 2-50 the Staff identified certain expenses that should booked below the line. Per the Company's response to this data request The Company agreed with Staff that of the identified expenses should be booked below the line.

	<u>\$ 13,918</u>
--	------------------

Therefore:

\$ (13,918)

d) Per Staff DR 2-50 the Staff identified certain expenses were non-recurring and should be disallowed as part of the Company's revenue requirement. The Company agreed with Staff that of the identified expenses should not be recognized as an expense for purposes of establishing the Company's revenue requirement.

	<u>\$ 4,508</u>
--	-----------------

Therefore:

\$ (4,508)

e) Per Staff DR 2-50 the Staff identified certain expenses were non-recurring and should be disallowed as part of the Company's revenue requirement. The Company agreed with Staff that of the identified expenses should not be recognized as an expense for purposes of establishing the Company's revenue requirement.

	<u>\$ 23,102</u>
--	------------------

Therefore:

\$ (23,102)

f) Per Staff DR Tech Session DR 5.b, c) and d)) the following Outside Services should have been amortized over a 3 year time frame instead of being totally expensed in the test year.			
b. DW 18-076 and 2018 CIAC Tariff amendment in the amount of	\$	6,517	
c. Reduction in expenses associated with subsidiary share of the 2018 OCA tax complaint	\$	6,380	
d. Reduction in expenses associated with the Company's share of OCA Tax Reform of OCA Tax reform should have been amortized over a 3 year time frame	\$	3,968	
Therefore:			\$ (16,865)
TOTAL ADMINISTRATIVE & GENERAL PRO FORMA:			<u>\$ 320,301</u>

1. Changes in Salary, Benefit, Pension, Early Retirement, Computer Maintenance and Outside Services expense are shared with the affiliate Companies through the management fee allocation per Sch 1 Attach G

Pennichuck Water Works Inc
PRO FORMA Adjustment Income or Expense
Administrative and General Account
For the Twelve Months Ended December 31, 2018
 Revised 12/21/2019 per Staff 2-13

Schedule 1
Attachment F
Page 2

A. During the test year and subsequent year, the Company experienced hirings, terminations and salary increases for administrative and general non-union personnel per Schedule 1, Attachment F, Page 3. The impact of the changes on base salaries are summarized below by department:

Department	Base Salaries		
	2019	2018 (1)	Proforma
OFFICERS SALARIES & WAGES	\$ 494,583	\$ 473,677	\$ 20,906
SALARIES & WAGES: ACCOUNTING	\$ 713,284	\$ 648,562	\$ 64,722
WAGES: REVENUE & CUSTOMER OPER	\$ 1,004,636	\$ 904,630	\$ 100,006
SALARIES & WAGES - ADMIN	\$ 185,408	\$ 170,766	\$ 14,642
SALARIES & WAGES: IS	\$ 488,109	\$ 465,906	\$ 22,204
Total Base Salaries	<u>\$ 2,886,020</u>	<u>\$ 2,663,541</u>	<u>\$ 222,479</u>

(1) Base Salaries exclude overtime, taxable fringe and other compensation items. Base Salary info can be found on Sch 1 Attach F Pg 3

Therefore: **\$ 222,479**

Total Administrative Salaries Pro Forma: **\$ 222,479**

Job Title	Date current position was created	Date of Separation	Annualized Salary between 1/1/18 and 3/31/18	Annualized Salary between 4/1/18 and 3/31/19	2018 Base Salary ¹	Annual Salary as of 4/1/2019	Comments	2019 Non Union Salary Proformas from 2018 Base Salaries	Percent increase 2019 Non Union Salary Proformas from Annualized Salary between 4/1/18 and 3/31/19 by Dept.
Officers:		None	\$ 68,515	\$ 70,631	\$ 70,102	\$ 76,148	Hours increasing from 36/wk in 2018 to 37.5/wk in 2019 (a 4.2% increase in weekly hours needed for the job)		7.8%
		None	\$ 198,500	\$ 205,448	\$ 205,711	\$ 211,817			3.1%
		None	\$ 195,898	\$ 201,187	\$ 199,865	\$ 206,619			2.7%
		Department Total -	\$ 477,265	\$ 473,677	\$ 473,677	\$ 494,583		\$ 20,906	
Administration:		None	\$ 119,391	\$ 123,092	\$ 122,167	\$ 126,908			3.1%
		None	\$ 47,008	\$ 49,130	\$ 48,599	\$ 58,500	Promotion to HR Generalist from Sr HR Administrator, including change in job description and responsibilities in 2019 vs. 2018		19.1%
		Department Total -	\$ 172,222	\$ 170,766	\$ 170,766	\$ 185,408		\$ 14,642	
Information Systems:		None	\$ 92,217	\$ 86,700	\$ 88,079	\$ 91,631	This was an existing job where incumbent was replaced with new employee in March 2018, and salary of new employee hired was 6% higher than incumbent, due to market rates at that time. Rate increase from 2018 to 2019 for new employee was only 1.7%		5.7%
		None	\$ 137,517	\$ 141,643	\$ 140,611	\$ 145,892			3.0%
		None	\$ 106,244	\$ 109,431	\$ 108,635	\$ 112,386			2.7%
		None	\$ 48,610	\$ 49,823	\$ 49,520	\$ 53,269	Employee had a mid-year market adjustment as of August 1, 2018, which resulted in an 6% adjustment at that time. The increase from 2018 year end rate to 2019 rate is 3.4%.		6.9%
		None	\$ 77,376	\$ 79,622	\$ 79,061	\$ 84,931	The position was required to be reclassified to an exempt position from an hourly position in 2019. The 2018 annualized salary is at employee's base rate only, exclusive of OT. 4/1/19 salary is inclusive of the market rate for the position, including an adjustment equal to an average of OT compensation that was (and is) required of the role.		6.7%
		Department Total -	\$ 467,220	\$ 465,906	\$ 465,906	\$ 488,109		\$ 22,204	
Accounting:		None	\$ 52,270	\$ 53,997	\$ 53,565	\$ 53,997			0.0%
		None	\$ 44,242	\$ 45,698	\$ 45,334	\$ 47,757	Promotion from Accounting Administrator to Senior Accounting Administrator, including change in job description and responsibilities in 2019 vs. 2018		4.5%
		None	\$ -	\$ 73,000	\$ 54,750	\$ 75,263	Refill of position vacated in late 2017		3.1%
		None	\$ 41,683	\$ 42,588	\$ 42,362	\$ 44,096			3.5%
		None	\$ -	\$ 26,520	\$ 19,890	\$ 42,120	New position in 2019		
		6/1/2019	\$ -	\$ 8,880	\$ 6,630	\$ -	Accounting Coop position replaced by Accounting Admin - Fixed Assets		
		None	\$ 119,166	\$ 122,860	\$ 121,936	\$ 126,546			3.0%
		None	\$ 57,530	\$ 61,089	\$ 60,199	\$ 63,410			3.8%
		None	\$ 43,680	\$ 45,032	\$ 44,694	\$ 46,426			3.1%
		None	\$ 80,000	\$ 82,480	\$ 81,860	\$ 90,002	Promotion to Accounting Manager from Accounting Supervisor, including change in job description and responsibilities in 2019 vs. 2018		9.1%
		None	\$ 114,341	\$ 118,343	\$ 117,342	\$ 123,668	Change in job description and responsibilities in 2019 vs. 2018. 2019 is year of assumption of Treasurer responsibilities for the Corporation and subsidiaries, with full assumption of the title forthcoming in early 2020.		4.5%
		Department Total -	\$ 680,445	\$ 648,562	\$ 648,562	\$ 713,284		\$ 64,722	
Revenue & Customer Ops:		None	\$ -	\$ 36,504	\$ 15,210	\$ 37,773			3.5%
		2/28/2018	\$ 5,966	\$ -	\$ 3,977	\$ -	Same position with different employees, position not filled for entire 2018 test year		
		None	\$ 38,750	\$ 37,027	\$ 37,458	\$ 41,600	Position changed incumbents in 2019		12.3%
		None	\$ -	\$ 41,475	\$ 31,106	\$ 42,931	New position in 2018		3.5%
		None	\$ 39,957	\$ 41,943	\$ 41,447	\$ 45,460			8.4%
		None	\$ 55,000	\$ 55,000	\$ 55,000	\$ 56,870			3.4%
		None	\$ 33,556	\$ 35,131	\$ 34,737	\$ 36,192			3.0%
		None	\$ 47,008	\$ 48,651	\$ 48,240	\$ 50,461			3.7%
		10/22/2018	\$ -	\$ 17,680	\$ 13,260	\$ -	Same position with different employees		
		None	\$ 34,882	\$ 35,568	\$ 35,396	\$ 36,608			2.9%
		None	\$ -	\$ 34,320	\$ 25,740	\$ 35,256	Refilled position that had been vacant since 2017		2.7%
		None	\$ 34,154	\$ 36,546	\$ 35,948	\$ 38,522			5.4%
		None	\$ 73,000	\$ 73,000	\$ 73,000	\$ 74,989			2.7%
		8/10/2018	\$ -	\$ 6,500	\$ 4,875	\$ -	Summer only in 2018		
		2/14/2019	\$ -	\$ 15,279	\$ 11,460	\$ 16,640	Same position as intern above but 8 months in 2019		8.9%
		None	\$ 53,498	\$ 56,306	\$ 55,694	\$ 59,181	Change in position responsibilities in late 2018		5.1%
		None	\$ -	\$ 36,504	\$ 27,378	\$ 37,856	New position in 2019. Replaces 2018 PT position		3.7%
		None	\$ 47,320	\$ 48,693	\$ 48,350	\$ 50,107			2.9%
		None	\$ -	\$ 39,520	\$ 13,173	\$ 40,872	Refilled position that had been vacant since 2017. Same position different incumbents in 2018.		3.4%
		9/17/2018	\$ -	\$ 2,282	\$ -	\$ -			
		None	\$ -	\$ 20,540	\$ 15,405	\$ 42,432	Same position with different incumbents in 2018		
		8/12/2018	\$ 38,542	\$ 13,298	\$ 19,609	\$ -			
		None	\$ -	\$ 16,731	\$ 12,548	\$ 38,147			
		9/10/2018	\$ 40,914	\$ 42,141	\$ 31,299	\$ -	Same position with different incumbents in 2019		
		None	\$ 106,739	\$ 109,941	\$ 109,140	\$ 113,239			3.0%
		None	\$ 60,923	\$ 62,878	\$ 62,390	\$ 64,771			3.0%
		None	\$ 41,413	\$ 43,368	\$ 42,879	\$ 44,720			3.1%
		Department Total -	\$ 1,000,826	\$ 994,630	\$ 994,630	\$ 1,004,636		\$ 100,006	
Engineering:		None	\$ 132,733	\$ 136,980	\$ 135,919	\$ 141,227			3.1%
		None	\$ 52,000	\$ 53,726	\$ 53,295	\$ 55,453			3.2%
		None	\$ 89,244	\$ 92,591	\$ 91,755	\$ 95,642			3.3%
		None	\$ 89,917	\$ 93,514	\$ 92,615	\$ 96,787			3.5%
		None	\$ 69,077	\$ 71,074	\$ 70,574	\$ 72,987			2.7%
		None	\$ 79,269	\$ 81,494	\$ 80,938	\$ 83,533			2.5%
		None	\$ 74,568	\$ 76,960	\$ 76,362	\$ 79,123			2.8%
		None	\$ 57,179	\$ 58,947	\$ 58,505	\$ 60,715			3.0%
		None	\$ 57,013	\$ 58,718	\$ 58,292	\$ 60,549			3.1%
		6/1/2019	\$ 107,548	\$ 110,237	\$ 109,565	\$ -	Position to be retired in early 2020, with Construction Services Manager and the Principal Distribution Engineer assuming and sharing those duties going forward.		
		None	\$ -	\$ 5,814	\$ 4,360	\$ 46,509	New position in 2019 replacing Summer intern in 2018		
		None	\$ 70,000	\$ 72,450	\$ 71,837	\$ 74,986			3.5%
		every summer	\$ -	\$ 9,360	\$ 7,020	\$ 9,360			0.0%

Redacted

		every summer	\$ -	\$ 9,360	\$ 7,020	\$ 9,360	0.0%
		None	\$ 83,405	\$ 87,990	\$ 86,844	\$ 90,718	3.1%
		None	\$ -	\$ 63,000	\$ 26,250	\$ 65,520	4.0%
							New position added in 2019 in anticipation of retirement of Engineering Services Mgr.
		Department Total -	\$ 1,082,217	\$ 1,031,151	\$ 1,042,468	\$ 11,317	
Water Supply:		None	\$ 75,878	\$ 77,854	\$ 77,360	\$ 79,872	2.6%
		None	\$ 135,600	\$ 142,439	\$ 140,730	\$ 146,855	3.1%
		5/7/2019	\$ 88,000	\$ 91,001	\$ 90,250	\$ 94,632	4.0%
							Existing incumbent leaving in May 2019. Will be replaced immediately. Market rates for this role anticipated to be equal to current compensation level of exiting employee.
		None	\$ 79,976	\$ 82,056	\$ 81,536	\$ 84,198	2.6%
		None	\$ -	\$ 58,240	\$ 19,413	\$ 60,050	
							Replaced promoted Water Quality Analyst
		5/29/2018	\$ 73,778	\$ 75,982	\$ 37,440	\$ -	
		None	\$ -	\$ 61,500	\$ 46,125	\$ 84,542	
							Water Quality Analyst Promoted to Lab/Water Quality Mgr.
		None	\$ 57,949	\$ 59,738	\$ 59,200	\$ 61,589	3.1%
		7/6/2018	\$ 93,987	\$ 93,987	\$ 54,826	\$ -	
							Incumbant retired in 2018
		every summer	\$ -	\$ 9,360	\$ 7,020	\$ 8,320	
		None	\$ -	\$ -	\$ -	\$ 17,680	
							New Position for 2019
		None	\$ 44,741	\$ 52,459	\$ 50,530	\$ 54,350	3.6%
		3/31/2018	\$ 66,394	\$ -	\$ 16,598	\$ -	
		None	\$ 66,394	\$ 69,891	\$ 52,418	\$ 72,057	
							Change in job description and responsibilities in 2019 vs. 2018. Same employee
		Department Total -	\$ 874,507	\$ 733,537	\$ 764,146	\$ 30,609	
Distribution:		None	\$ 78,939	\$ 82,930	\$ 81,932	\$ 87,208	
		None	\$ 58,633	\$ 60,685	\$ 60,172	\$ 62,809	3.5%
		None	\$ -	\$ 100,000	\$ 75,000	\$ 103,000	3.0%
							Refilled position that had been vacant since 2017
		None	\$ 69,555	\$ 69,555	\$ 73,907	\$ 81,600	17.3%
							Promoted from Construction/Maintenance Coordinator to Construction/Maintenance Supervisor, including change in job description and responsibilities in 2019 vs. 2018
		None	\$ 47,861	\$ 49,617	\$ 49,178	\$ 51,563	3.9%
		None	\$ 45,136	\$ 46,571	\$ 46,212	\$ 48,069	3.2%
		Department Total -	\$ 409,357	\$ 386,401	\$ 434,249	\$ 47,848	
		Company Non Union Salary Totals -	\$ 5,170,060	\$ 4,814,629	\$ 5,126,883	\$ 312,253	

1. Base year 2018 salary does not include benefits or fringes

Pennichuck Water Works
 Admin and General Expense
 Computer Maintainance PRO FORMA
 For the Twelve Months Ended December 31, 2018

2015 Information Systems Operational Budget	2018	2019 Projected Expense	2019 Annualized Expense	PRO FORMA Expense	Description
APC UPS/RTM	\$ 919	\$ 919	\$ 919	\$ -	-
ATL - SampleMaster - LIMS	\$ 17,418	\$ 17,418	\$ 17,418	\$ -	-
Atrium - SCADA Network Maintenance	\$ 2,447	\$ 2,447	\$ 2,447	\$ -	-
B&S Locksmiths	\$ 17,730	\$ 17,730	\$ 17,730	\$ -	-
BNA - Fixed Assets	\$ 1,800	\$ 1,800	\$ 1,800	\$ -	-
C2C Archine One (Now owned by Barracuda)	\$ 1,823	\$ 3,750	\$ 3,750	\$ -	1,927 New product/old software decommissioned
All Cisco hardware and software	\$ 20,777	\$ 21,700	\$ 21,700	\$ -	923 Standard support annual increase
Clicksoft with Mobility	\$ 30,993	\$ 30,993	\$ 30,993	\$ -	-
Clicksoft SLR	\$ 2,500	\$ 2,555	\$ 2,555	\$ -	55 Standard support annual increase
Comcast	\$ 1,980	\$ 696	\$ 2,088	\$ -	108 Standard support annual increase
Celeaner	\$ 4,626	\$ 4,626	\$ 4,626	\$ -	-
City of Nashua - Pictrometry	\$ 2,000	\$ 2,000	\$ 2,000	\$ -	-
City of Nashua - ESRI	\$ 25,000	\$ 25,000	\$ 25,000	\$ -	-
City of Nashua - ESRI GeoEvent	\$ 3,000	\$ 3,000	\$ 3,000	\$ -	-
Edge - upgrade to 15 CAL / 15 NUL	\$ 7,121	\$ 7,121	\$ 7,121	\$ -	-
Edge - 5 CAL / 5 NUL	\$ 2,211	\$ 2,211	\$ 2,211	\$ -	-
Egnty	\$ 960	\$ 960	\$ 960	\$ -	-
Equalogics - PS6110	\$ 2,058	\$ 1,152	\$ 1,152	\$ -	(906) Changed Supopr Vendors
Exact Software	\$ 8,003	\$ 8,003	\$ 8,003	\$ -	-
GE Intelligents Platforms - Automatec	\$ 9,469	\$ 9,576	\$ 9,576	\$ -	107 Standard support annual increase
HACH WIMS	\$ 3,575	\$ 3,725	\$ 3,725	\$ -	150 Standard support annual increase
DoForms	\$ 1,600	\$ 1,600	\$ 1,600	\$ -	-
Geo-Nexus Sync	\$ 7,800	\$ 7,800	\$ 7,800	\$ -	-
Geo-Nexus Mobile Server	\$ 5,000	\$ 5,000	\$ 5,000	\$ -	-
Geo-Nexus Map Server	\$ 5,000	\$ 5,000	\$ 5,000	\$ -	-
Geo-Nexus Mobile Client	\$ 5,000	\$ 5,000	\$ 5,000	\$ -	-
Itemage Support- Falcon	\$ 13,051	\$ 13,488	\$ 13,488	\$ -	437 Standard support annual increase
Item Age - Incremental Increase for 1-10 user license	\$ 1,944	\$ 2,344	\$ 2,344	\$ -	400 Standard support annual increase
Opex Falcon	\$ 22,907	\$ 23,674	\$ 23,674	\$ -	767 Standard support annual increase
Horizon Solutions - Rockwell Automation Support	\$ 805	\$ 805	\$ 805	\$ -	-
Innovyze	\$ 12,300	\$ 12,300	\$ 12,300	\$ -	-
MalWareBytes	\$ 4,908	\$ 4,908	\$ 4,908	\$ -	-
Meraki Wireless Controller	\$ 627	\$ 627	\$ 627	\$ -	-
Microdesk(AutoCAD)	\$ 4,785	\$ 4,785	\$ 4,785	\$ -	-
MiSan Expansion	\$ 1,736	\$ 1,736	\$ 1,736	\$ -	-
Munis	\$ 61,750	\$ 62,984	\$ 62,152	\$ -	402 Standard support annual increase
Munis - osdba	\$ 12,928	\$ 12,882	\$ 13,592	\$ -	664 Standard support annual increase
Minus - GUI Support	\$ 2,700	\$ 2,700	\$ 2,700	\$ -	-
Munis Content Manager	\$ 3,300	\$ 3,300	\$ 3,300	\$ -	-
Munis - Additional Environment	\$ 3,000	\$ 3,000	\$ 3,000	\$ -	-
Netwrix	\$ 3,249	\$ 3,249	\$ 3,249	\$ -	-
Nitro	\$ 1,300	\$ 1,300	\$ 1,300	\$ -	-
MBA Team	\$ 1,200	\$ 1,200	\$ 1,200	\$ -	-
O365	\$ 8,066	\$ 30,000	\$ 27,264	\$ -	12 months full product, over only Exchange
Oracle	\$ 18,501	\$ 30,801	\$ 30,801	\$ -	19,198 in 2018 for limited users.
Quest	\$ 1,738	\$ 966	\$ 966	\$ -	12,300 License Audit readjustment
Real Asset Management	\$ 4,850	\$ 5,065	\$ 5,065	\$ -	(772) Product use reduction
SMS Maintenance Services (Curvature)	\$ 2,700	\$ 900	\$ 900	\$ -	215 Standard support annual increase
Shavlik	\$ 4,416	\$ 2,528	\$ 2,528	\$ -	(1,800) Removed hardware from existing contract
Sophos Reflections	\$ 2,250	\$ 2,250	\$ 2,250	\$ -	(1,888)
Sophos Firewall	\$ 4,472	\$ 4,472	\$ 4,472	\$ -	-
Sophos End Point Solutions	\$ 4,908	\$ 4,908	\$ 4,908	\$ -	-
Sophos Central EndPoint Intercept X	\$ 3,859	\$ 3,859	\$ 3,859	\$ -	-
Spophos Central Endpoint Advanced (Formally Cloud Enpoint)	\$ 4,012	\$ 4,012	\$ 4,012	\$ -	-
Spophos Central Mobile (formally Central Mobile Controll Standard)	\$ 2,100	\$ 2,100	\$ 2,100	\$ -	-
Sophos Central Server Protection (AKA: Cloud Server) 45 servers	\$ 4,245	\$ 4,245	\$ 4,245	\$ -	-
SpectorSoft/Veriato	\$ 225	\$ 225	\$ 225	\$ -	-
Cisco ASA5508x	\$ 386	\$ 386	\$ 386	\$ -	-
Synergen/Oracle - Work Orders - CSI 2171536	\$ 38,495	\$ 40,035	\$ 40,035	\$ -	1,540 Standard support annual increase
Synergen/Oracle - Work Orders - CSI 3182292 - Service Contract 4927799	\$ 1,152	\$ 1,219	\$ 1,219	\$ -	67 Standard support annual increase
LanSweeper	\$ 595	\$ 960	\$ 960	\$ -	365 Annual license increase
LanSweeper Helpdesk Agent Licenses	\$ 720	\$ 720	\$ 720	\$ -	-
Trans-Micro	\$ 500	\$ 500	\$ 500	\$ -	-
Trimble - TerraSync	\$ 14,400	\$ 14,400	\$ 14,400	\$ -	-
Trimble - 1 User License	\$ 1,200	\$ 1,200	\$ 1,200	\$ -	-
Trimble - Operations - 2 units	\$ 4,800	\$ 4,800	\$ 4,800	\$ -	-
Toshiba Page Smart	\$ 6,606	\$ 6,606	\$ 4,444	\$ -	Printing reduction due to changes in business
Unitrends	\$ 2,700	\$ 2,700	\$ 2,700	\$ -	(2,162) practices
Unitrends	\$ 2,932	\$ 2,932	\$ 2,932	\$ -	-
Unitrends Cloud Backup	\$ 2,820	\$ 5,639	\$ 7,049	\$ -	4,229 Additional hardware support
Win911 - Spencer	\$ 1,485	\$ 1,485	\$ 1,485	\$ -	-
Neptune Radio Read Equipment	\$ 18,078	\$ 18,078	\$ 18,078	\$ -	-
WinCo/ID Technology	\$ 498	\$ 498	\$ 498	\$ -	-
WinCo/ID Technology	\$ 498	\$ 498	\$ 498	\$ -	-
Vertikol6	\$ 4,670	\$ 4,670	\$ 4,670	\$ -	-
Vmware - vSphere 5 Enterprise	\$ 5,752	\$ 5,752	\$ 5,752	\$ -	-
Vmware - Site Recovery Manager	\$ 3,720	\$ 3,720	\$ 3,720	\$ -	-
Vmware - vCenter	\$ 1,499	\$ 1,499	\$ 1,499	\$ -	-
Totals -	\$ 523,148	\$ 561,692	\$ 559,474	\$ 36,326	

Pennichuck Water Works Inc
PRO FORMA Adjustment Income or Expense
Management Fee Account
For the Twelve Months Ended December 31, 2018
 Revised 12/21/2019 per Staff 2-14 and 2-25
 Revised 1/24/2020 per Staff Tech DR 2-4
 Revised 3/10/2020 per Staff Tech 3 DR's

Schedule 1
 Attachment G

I Management Fee Allocated to Affiliates (Rule 1601.01, Section 26)

A Schedule 1B reflects the payroll pro forma adjustment. Per the management fee (1604.01 Section 26) the allocation to affiliates, including benefits, is as follows:

Non Union O&M Payroll Pro Forma	\$	312,253
Benefits Pro Forma	\$	152,161
Total Pro Forma	\$	464,415
% Allocated to Allocated to Affiliates	26.66%	\$ 123,822

Therefore: \$ (123,822)

B. Under the current lease at Manchester Street, lease payments increased in 2019 when compared to 2018 expenses. The following pro forma adjustment annualizes the current lease payments:

2019 Annualized Fee at current rate	\$	330,629
2018 Lease Expense	\$	326,351
Increase in Lease Expense	\$	4,278
% Allocated to Allocated to Affiliates	26.66%	\$ 1,140
% Allocated to Allocated to PWW	73.34%	\$ 3,137

Therefore: \$ (1,140)

C. In 2019, the Company is expecting an increase in pension expenses and health retirement plans based on actuarial valuation. The pro forma adjustment to reflect the increased costs is as follows:

	Health		Total Pro Forma
	Pension	Retirement	
2019 Estimated Expense	\$ 1,325,040	\$ 262,140	
2018 Actual Expense	\$ 1,286,314	\$ 298,204	
Additional Expense	\$ 38,726	\$ (36,064)	
% Allocated to Allocated to Affiliates	26.66%	\$ 10,325	\$ (9,615)
			\$ 710

Therefore: \$ (710)

D. In 2019, the Company is expecting an increase in insurance expenses. The pro forma adjustment to reflect the decreased costs is as follows:

2019 Estimated Insurance Expense	\$	491,625
2018 Actual Insurance Expense	\$	487,967
Additional Insurance Expense	\$	3,658
% Allocated to Affiliates	26.66%	\$ 975

Therefore: \$ (975)

E. In 2019, the Company is expecting an increase in Group Health Care expenses as follows:

2019 Estimated Group Health Insurance Expense	\$	1,749,800
Additional Health Care Expense	\$	1,738,184
	\$	11,616
% Allocated to Affiliates	26.66%	\$ 3,097

Therefore: \$ (3,097)

F. In 2019, the Company is expecting an increase in Group Dental Insurance expenses as follows:

2019 Estimated Group Health Insurance Expense	\$	215,790
Additional Health Care Expense	\$	185,489
	\$	30,301
% Allocated to Affiliates	26.66%	\$ 8,079

Therefore: \$ (8,079)

G. In 2019, the Company will experience increased computer maintenance costs in:

a) the area of new software support annual fees. The pro forma adjustment to reflect the increased Incremental Annual Costs associated with increases in software fees and new software is as reflected in Sch 1, Attach F, Page 4

	\$	36,326
	\$	9,685

Therefore: \$ (9,685)

b) In 2019 the Company paid Oracle a one time payment to cover a change in the number of users that was not adjusted a number of years earlier when the software were changed. This fee was expenses in 2018 in total when it should have been treated as a deferred debit and amortized over a period of 9 years.

	\$	(100,955)
	\$	(26,917)

Therefore: \$ 26,917

H. In 2018 the Company used a ROI of 6.04% to calculate the allocation of commonly used PWW assets to each of Penn Corps subsidiaries. The Company should have used a ROI of 4.82% based on that being the ROI found in DW16-806

PWW Cost Allocation to Penn Corp Subs with a return on commonly used Assets based on 6.04% to subsidiaries	\$	3,508,814
PWW Cost Allocation to Penn Corp Subs with a return on commonly used Assets based on 4.82% to subsidiaries	\$	3,445,524
Over allocation of PWW ROI on Common Assets to Subsidiaries	\$	63,290

Therefore: \$ 63,290

TOTAL MANAGEMENT FEE PRO FORMA: \$ (57,302)

Pennichuck Water Works Inc
PRO FORMA Adjustment Income or Expense
Property and Other Taxes Account
For the Twelve Months Ended December 31, 2018
 Revised 3/10/2020 per Staff Tech 3 DR's

Schedule 1
Attachment H

I PROPERTY TAXES (Sch 1A, Pages 1-5)

A. To reflect a pro forma property tax adjustment for the net change in property taxes for all of the communities and the State of New Hampshire. Schedule 1A reflects the tax rate, taxes paid in the test year, the pro forma adjustments for increases in property taxes based on the tax year for each community, and the consolidated property tax adjustment.

Therefore: \$ (3,811)

B. In 2018, the Company's taxable utility property increased. Schedule 1A, Attachment A reflects those plant additions by the various communities. The property tax for these additions is not included in the test year and are summarized on the schedule Sch 1A Attach A

Therefore \$ 202,862

C In 2018, the Company's taxable utility property decreased. Schedule 1A, Attachment B reflects those plant dispositions by the various communities. The property tax for these dispositions is not included in the test year and are summarized on the schedule Sch 1A Attach B

Therefore \$ (89,890)

D. This proforma adjustment trues up the Company's actual 2019 Property taxes to its 2019 Proforma tax increases per JL Tech Session 3, DR 3

Therefore \$ (579,340)

TOTAL PROPERTY AND OTHER TAXES PRO FORMA: \$ (470,179)

Pennichuck Water Works Inc
PRO FORMA Adjustment Income or Expense
Amortization Account
For the Twelve Months Ended December 31, 2018
 Revised 12/21/2019 per Staff DR2-16
 Revised 1/24/2020 per Staff Tech 2-5 and 2-9
 Revised 3/10/2020 per Tech Session Staff DR's

Schedule 1
Attachment I

I AMORTIZATION

A. In 2018, the Company completed amortizing certain deferred assets.
 An adjustment is made to remove the related amortization expense from the test year.
 (See Schedule 2, Attachment B, page 1)
Therefore: \$ (5,645)

B. In 2019, certain accounts will be fully amortized. The following pro forma adjustment reflects the 2019 amortization:
 (Schedule 2 Attach B Support)

	<u>Amortization Expense</u>	<u>12/31/18 Asset Balance</u>	<u>Pro Forma Adjustment</u>		
Upper Merrimack River Watershead Study	\$ 6,594	\$ 6,067	\$ 6,594		
Therefore:		Total	\$ 6,594	\$	(6,594)
Mast Road Railroad Crossing: Merrimack	\$ 884	\$ 442	\$ 884		
Therefore:		Total	\$ 884	\$	(884)
Facilities Study - Nashua/Merrimack	\$ 797	\$ 481	\$ 797		
Therefore:		Total	\$ 797	\$	(797)

C. Amortization of RSF Shortfall of three years

	RSF Shortfall based on Sch 1, Attach A, Pg 3	\$ 964,545		
Amortize	0% of the RSF shortfall as a deferred debit over 3 Years	\$ -		
Therefore:			\$	-

D. In 2019 the Company paid Oracle a one time payment to cover a change in the number of users that was not adjusted a number of years earlier when the software were changed. This fee was expenses in 2018 in total when it should have been treated as a deferred debit and amortized over a period of 9 years

	\$ 74,038	(1)		
Therefore:			\$	8,226

E. In 2019 the Company incurred truck repairs and the purchase of a wireless RTU in the amount of \$ 23,489 It was agreed with Staff that those expenses should have been amortized over 3 years as opposed to being expensed in one year.

	3		
Therefore:		\$	7,830

F. Per Staff Tech Session DR 5)b.,c. and d. certain G&A expenses totaling \$ 16,268 should have been amortized over a year time frame instead of being fully expensed in the test year.

	3		
Therefore:		\$	5,423

G. Per Staff Tech Session DR 5)b.,c. and d. certain G&A expenses totaling \$ 10,485 should have been amortized over a year time frame instead of being fully expensed in the test year.

	3		
Therefore:		\$	3,495

TOTAL AMORTIZATION EXPENSE PRO FORMA: \$ 11,054

Pennichuck Water Works Inc
PRO FORMA Adjustment Income or Expense
Income Taxes Account
For the Twelve Months Ended December 31, 2018

Schedule 1
Attachment J

I INCOME TAX EXPENSE

A. To reflect the pro forma adjustment to book basis income taxes versus actual tax payments made to Federal and State Governments in 2018

Pennichuck Water Works Book Basis 2018 Federal and State Income Taxes				
	2018 Actual Tax		Proforma	
	2018 Book Basis (1)	Payments (2)		
PROV/FED INC TAX/CURRENT	\$ 1,283,298	\$ -	\$	(1,283,298)
PROVS FOR NH BUS PRFTS TAX CUR	\$ 603,951	\$ -	\$	(603,951)
PROV/FED INC TAX/DEFERRED	\$ 341,760	\$ -	\$	(341,760)
PROV NH INCOME TAX DEFERRED	\$ 154,816	\$ -	\$	(154,816)
NH BUSINESS ENTERPRISE TAX	\$ 35,442	\$ 103,249	\$	67,807
INVESTMENT TAX CREDITS	\$ (33,036)	\$ -	\$	33,036
TOTALS	\$ 2,386,231	\$ 103,249	\$	(2,282,982)

Notes:

- (1) Taxes based on 2018 Profit and Loss Statement which reflects taxes calculated on PWW's book basis pretax income at the Federal and State statutory income tax basis
- (2) Cash payments made by to the Federal and State Governments based on 2018 Corporate Tax Returns based in PWW's share of PCP BET tax of 74.85% of the actual 2018 tax payment in the amount of \$ 137,941

Pennichuck Water Works Inc
Non Material Operating Expenses as defined in DW16-806
For the Twelve Months Ended December 31, 2018
Revised 1/24/2020 per Staff Tech DR2-10

Schedule 1
Attachment K

	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	2018 Totals
SENIOR MANAGEMENT VEHICLES	165.33	-	154.01	199.91	1,462.15	563.18	136.13	202.31	-	259.43	231.32	-	3,373.77
SENIOR MGMT - FUEL PURCHASED	268.27	290.78	581.48	292.31	-	29.40	460.43	518.38	478.78	401.56	412.62	352.66	4,086.67
SENIOR MGMT-VEH REGISTRATION	-	-	-	-	-	-	-	-	990.60	-	-	-	990.60
OUTSIDE SERVICES	26,089.44	52,203.05	18,573.97	35,287.99	39,854.29	44,858.22	23,959.26	20,603.55	22,444.81	47,134.61	24,067.78	30,282.72	385,359.69
OFFICER'S LIFE INSURANCE	386.19	386.19	386.19	386.19	386.19	386.19	386.19	386.19	2,055.19	386.19	386.19	386.19	6,303.28
MISC EMPLOYEE BENEFITS	4,364.64	1,732.33	1,830.57	1,310.04	365.44	2,627.19	720.54	(7,570.39)	1,452.24	1,883.76	2,924.33	(2,881.77)	8,758.92
MISC EMPLOYEE BENEFITS-WELLNESS	-	-	630.70	(1,105.00)	6,715.00	(1,056.52)	(282.08)	(2,770.73)	853.41	(1,109.16)	10.00	1,485.76	3,371.38
MISC EMPLOYEE BENEFITS-ACTIVITIES	-	-	-	-	-	-	-	948.43	354.49	3,102.63	2,500.00	4,768.88	11,674.43
EMPLOYEE RELATIONS	-	-	-	-	-	-	-	-	-	-	-	-	-
TUITION REIMBURSEMENTS	6,510.00	-	2,972.84	-	4,088.37	976.85	3,801.00	-	99.70	5,642.87	1,476.90	6,677.77	32,246.30
TRAINING EDUCATIONAL SEMINARS	1,180.00	1,305.00	-	4,016.34	708.00	2,754.50	2,383.98	280.00	11,188.41	19,877.43	606.45	6,667.33	50,967.44
MEETINGS & CONVENTIONS	915.00	5,299.70	5,343.92	5,644.97	526.53	273.33	908.96	33.33	13,381.78	659.00	1,496.66	841.61	35,324.79
MEMBERSHIPS	3,833.91	3,698.91	139.98	4,262.29	3,829.66	3,857.62	2,463.42	3,159.92	2,524.71	2,042.72	3,308.76	2,467.63	35,589.53
PUBLIC RELATIONS	-	429.65	913.96	2,681.64	5,989.22	13,011.91	887.53	535.24	-	443.57	372.60	359.64	25,624.96
MEALS	390.09	610.33	398.83	282.21	411.20	147.01	291.72	396.51	122.94	742.99	382.58	26.93	4,203.34
CHARITABLE CONTRIBUTIONS	-	-	-	-	-	-	-	-	-	-	-	-	-
Total of Non RSF backed O&M Expenses	44,102.87	65,955.94	31,926.45	53,258.89	64,336.05	68,428.88	36,117.08	16,722.74	55,947.06	81,467.60	38,176.19	51,435.35	607,875.10

Town	2018 Tax Rate (04/01/17 - 03/31/18)	2018 Tax Year Valuation	2019 Tax Rate (04/01/18 - 03/31/19)	2019 Tax Year Valuation	Total PWW Bill For 2018 TY	Total Expense For 2019	TY PRO FORMA Property Tax	Dec-19	Jun-18	Dec-18	Jun-17	Dec-17
43,138	\$ 25.79	\$ 217,400	\$ 21.21	\$ 255,000	\$ 5,409	\$ 5,409	\$ -		2,803.37	2,605.18	2,725.11	2,881.64
46,629	\$ 23.22	\$ 41,400	\$ 19.15	\$ 39,400	\$ 755	\$ 755	\$ -		480.65	273.86	466.37	494.94
46,687	\$ 23.22	\$ 106,464,900	\$ 19.15	\$ 117,550,800	\$ 2,191,247	\$ 2,251,098	\$ 59,850	1,236,057.49	955,189.92	1,199,327.10	1,272,787.88	1,272,787.88
47,421	\$ 25.79	\$ 58,200	\$ 21.21	\$ 58,200	\$ 1,234	\$ 1,234	\$ 0		750.49	483.93	729.54	771.44
47,521	\$ 23.22	\$ 1,021,300	\$ 19.15	\$ 1,238,000	\$ 23,708	\$ 23,708	\$ -		11,857.29	11,850.41	11,504.94	12,209.65
47,522	\$ 23.22	\$ 325,500	\$ 19.15	\$ 325,500	\$ 6,233	\$ 6,233	\$ (0)		3,779.06	2,454.27	3,666.76	3,891.35
47,630	\$ 23.22	\$ 459,500	\$ 19.15	\$ 459,500	\$ 8,799	\$ 8,799	\$ (0)		5,334.80	3,464.63	5,176.27	5,493.32
47,631	\$ 23.22	\$ 86,100	\$ 21.21	\$ 79,700	\$ 1,690	\$ 1,690	\$ (0)		1,110.26	580.18	1,079.26	1,141.26
47,632	\$ 23.22	\$ 415,800	\$ 19.15	\$ 415,800	\$ 7,963	\$ 7,963	\$ -		4,827.44	3,135.13	4,683.99	4,970.89
47,835	\$ 23.22	\$ 48,500	\$ 19.15	\$ 16,000	\$ 306	\$ 306	\$ -		563.09	(256.69)	546.35	579.82
47,855	\$ 23.22	\$ 581,200	\$ 19.15	\$ 428,100	\$ 8,198	\$ 8,198	\$ (0)		68,048.53	(59,850.41)	66,026.42	70,070.64
49,868	\$ 25.79	\$ 86,200	\$ 21.21	\$ 110,000	\$ 2,333	\$ 2,333	\$ -		1,111.55	1,221.55	1,080.52	1,142.58
50,439	\$ 23.22	\$ 1,092,600	\$ -	\$ -	\$ -	\$ -	\$ -		12,685.09	(12,685.09)	12,308.14	13,062.03
51,721	\$ 23.22	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ -		5.81	(5.81)	5.63	5.98
51,773	\$ 25.79	\$ 1,600,000	\$ 21.21	\$ 7,314,500	\$ 155,141	\$ 155,141	\$ (0)		20,632.00	134,508.55	20,056.00	21,208.00
51,777	\$ 23.22	\$ 2,607,600	\$ 19.15	\$ 410,500	\$ 7,861	\$ 7,861	\$ (0)		30,274.24	(22,413.16)	29,374.61	31,173.86
51,824	\$ 23.22	\$ 113,200	\$ 19.15	\$ 83,000	\$ 1,589	\$ 1,589	\$ -		1,314.25	275.20	1,275.20	1,353.30
		\$ 116,626,800		\$ 129,433,300	\$ 2,435,000	\$ 2,435,091	\$ 0		1,418,063.97	1,017,026.29	1,376,336.55	1,461,359.81
NEWMARKET												
R7-14W	\$24.36	\$ 24	\$ 26.78	\$ 240,200	\$ 6,433	\$ 6,433	\$ (0)		3,293.00	3,140.00	3,289.00	3,293.00
		\$ 24		\$ 240,200	\$ 6,433	\$ 6,433	\$ (0)		3,293.00	3,140.00	3,289.00	3,293.00
PLAISTOW												
99-40	\$21.79	\$ 790,000	\$ 22.33	\$ 790,000	\$ 17,641	\$ 17,641	\$ (0)		8,607.00	9,034.00	8,011.00	9,203.00
		\$ 790,000		\$ 790,000	\$ 17,641	\$ 17,641	\$ (0)					
SALEM												
009 05899 001	\$18.56	\$ 356,000	\$ 19.30	\$ 356,000	\$ 6,871	\$ 6,871	\$ (0)		3,304.00	3,567.00	3,212.00	3,395.00
		\$ 356,000		\$ 356,000	\$ 6,871	\$ 6,871	\$ (0)					
STATE OF NH	\$6.60				\$ 991,292	\$ 991,292	\$ -		495,646.00	495,646.00	516,560.50	516,560.50
					\$ 4,165,122	\$ 4,161,310	\$ (3,811)					

Notes:

Pennichuck Water Works, Inc.
 Taxable Assets for Asset Additions (1)
 For the Twelve Months Ended December 31, 2018

Schedule 1A
 Attachment A

Asset Description	Project Description	Asset Value as of 12/31/2018	Community	Taxable	Tax Rate (2)	Proforma Property Tax Bills (3)
AMHERST						
Amherst Water System Expansion - PFOA Contamination	Meters and Radios	\$16,646	Amherst	Yes	\$ 31.59	\$ 526
Amherst Proforma Property Taxes -						\$ 526
BEDFORD						
Interconnection of BWC (Bedford) to PWW	Interconnection of BWC (Bedford) to PWW	\$258,923	Bedford	Yes	\$ 24.76	\$ 6,411
Bedford Water System Expansion - PFOA Contamination	Meters and Radios	\$10,947	Bedford	Yes	\$ 24.76	\$ 271
Bedford Proforma Property Taxes -						\$ 6,682
MERRIMACK						
Replace Forman Truck	Existing Truck has been a safety and maintenance problem	\$92,018	Merrimack	No	\$ 28.92	\$ -
Service Truck replacement (#76)	Replace 2008 Pick up with 156,000+ miles	\$61,905	Merrimack	No	\$ 28.92	\$ -
1 Service Truck - New	Service Truck for 1 new ops employees	\$62,215	Merrimack	No	\$ 28.92	\$ -
Replacement of Meter Supervisor Truck (#14)	Replace 7 year old pick up with 167,000+ miles with small SUV	\$25,563	Merrimack	No	\$ 28.92	\$ -
Trimble units for Meter Reading (6 units)	Replace CE meter reading equipment	\$56,829	Merrimack	No	\$ 28.92	\$ -
Pipe Saws (5)	Ongoing small equipment replacement - run rate	\$5,900	Merrimack	No	\$ 28.92	\$ -
Add Air Conditioning to Mechanics Bay	Security Project	\$62,641	Merrimack	Yes	\$ 28.92	\$ 1,812
Four trench boxes	Replace 22 year old trench boxes	\$22,456	Merrimack	No	\$ 28.92	\$ -
Utility Van	Replace Vehicle #72 2011 Ford E-2500 Van - High milage & maintenance costs	\$32,052	Merrimack	No	\$ 28.92	\$ -
Utility Van	Replace Vehicle #27 2011 Ford E-2500 Van - High Milage & maintenance costs	\$32,897	Merrimack	No	\$ 28.92	\$ -
Utility Van	Replace Vehicle #26 2011 Ford E-2500 Van - high milage & maintenance costs	\$32,097	Merrimack	No	\$ 28.92	\$ -
Road Plates (2)	8x8 and 8x10 1" Steel Road Plates	\$5,380	Merrimack	No	\$ 28.92	\$ -
Replace Jeep with Pickup	Replace 2006 Jeep with 152,407 miles with Pickup	\$22,969	Merrimack	No	\$ 28.92	\$ -
Replace Ranger Pickup	Replace 2005 Ranger Pickup with 186,885 miles	\$34,054	Merrimack	No	\$ 28.92	\$ -
Mast Road Replacement (PEU-PWW) Interconnection	PWW share of PWW-PEU Interconnection budget	\$33,925	Merrimack	Yes	\$ 28.92	\$ 981
Website Upgrades	Improved Customer Service Experience	\$4,500	Merrimack	No	\$ 28.92	\$ -
Windows Server Licensing Renewal	Purchase Windows server for virtual servers	\$22,925	Merrimack	No	\$ 28.92	\$ -
Storage Upgrade	Replace non-supported hardware and increase speed	\$45,197	Merrimack	No	\$ 28.92	\$ -
ClickMobile Move to iPads	Move to a more functional device	\$249,378	Merrimack	No	\$ 28.92	\$ -
Miscellaneous Hardware	Purchase network switch for core routing @ Manchester Street	\$4,203	Merrimack	No	\$ 28.92	\$ -
Miscellaneous Hardware	Castle/Ware Laptops	\$4,642	Merrimack	No	\$ 28.92	\$ -
Miscellaneous Hardware	Replacement Printer - Engineering	\$2,249	Merrimack	No	\$ 28.92	\$ -
LIMS upgrade	Allow for Electronic Data Collection in the Field	\$939	Merrimack	No	\$ 28.92	\$ -
Laptops for L.G. & D.W.	Laptops for L.G. & D.W.	\$5,442	Merrimack	No	\$ 28.92	\$ -
Additional Computers	Additional Computers	\$6,798	Merrimack	No	\$ 28.92	\$ -
Replace 43 desk top computers at Main office	Computers are 7 years old and running on unsupported Windows 7 platform	\$49,614	Merrimack	No	\$ 28.92	\$ -
Office 365 Exchange Migration	Office 365 Exchange Migration	\$7,737	Merrimack	No	\$ 28.92	\$ -
New Virtual Server	New Virtual Server	\$16,321	Merrimack	Yes	\$ 28.92	\$ 472
Unitrends RC823S	Backup and Disaster Recovery Device	\$27,998	Merrimack	No	\$ 28.92	\$ -
TIG Welder	TIG Welder	\$2,955	Merrimack	No	\$ 28.92	\$ -
Utility Truck Replacement	Replacement of #47 with Truck #315	\$62,215	Merrimack	No	\$ 28.92	\$ -
Additional Trench Boxes	Additional Trench Boxes	\$22,241	Merrimack	No	\$ 28.92	\$ -
#353-Service Truck Replacement (#47)	#353-Service Truck Replacement (#47)	\$1,103	Merrimack	No	\$ 28.92	\$ -
Merrimack Proforma Property Taxes -						\$ 3,265
NASHUA						
Gillis St	Residual paving from prior year main replacement	\$61,887	Nashua	Yes	\$ 27.81	\$ 1,721
Orange St (Concord St to Lock St)	Residual paving from prior year main replacement	\$98,236	Nashua	Yes	\$ 27.81	\$ 2,732
Buchanan St	Residual paving from prior year main replacement	\$33,530	Nashua	Yes	\$ 27.81	\$ 927
Lincoln Ave	Residual paving from prior year main replacement	\$69,988	Nashua	Yes	\$ 27.81	\$ 1,946
Nutt St	Residual paving from prior year main replacement	\$29,134	Nashua	Yes	\$ 27.81	\$ 810
Cirele Ave	Residual paving from prior year main replacement	\$9,136	Nashua	Yes	\$ 27.81	\$ 254
Pratt St	Residual paving from prior year main replacement	\$46,218	Nashua	Yes	\$ 27.81	\$ 1,285
Zellwood Ave	Residual paving from prior year main replacement	\$26,077	Nashua	Yes	\$ 27.81	\$ 725
Fifield St	Residual paving from prior year main replacement	\$59,273	Nashua	Yes	\$ 27.81	\$ 1,648
Fowell Ave	Residual paving from prior year main replacement	\$57,369	Nashua	Yes	\$ 27.81	\$ 1,595
Lawndale Ave	Residual paving from prior year main replacement	\$8,193	Nashua	Yes	\$ 27.81	\$ 228
Mulvanity St - Emergency Replacement	Residual paving from prior year main replacement	\$20,101	Nashua	Yes	\$ 27.81	\$ 559
Proctor Street Emergency Replacement	Residual paving from prior year main replacement	\$10,896	Nashua	Yes	\$ 27.81	\$ 303
Ritter Street	Replace 500LF of 6" CI with 12" DIPCL	\$168,793	Nashua	Yes	\$ 27.81	\$ 4,694
Woodward Street	Replace 300 LF of 6" CI with 12" DIPCL	\$145,417	Nashua	Yes	\$ 27.81	\$ 4,044
Factory Street	Replace 625 LF of 8" CI and 350 LF of 12" CI with 950 LF of 16" DIPCL	\$607,926	Nashua	Yes	\$ 27.81	\$ 16,906
Pennichuck Street	Replace 100 LF of 12" CI with 12" DIPCL	\$78,146	Nashua	Yes	\$ 27.81	\$ 2,173
Early Street	Replace 385 LF of 6" CI with 8" DIPCL	\$161,622	Nashua	Yes	\$ 27.81	\$ 4,495
Fossa Avenue	Replace 310 LF of 6" CI and 2" PVC with 310 LF of 6" and 4" DIPCL	\$114,888	Nashua	Yes	\$ 27.81	\$ 3,195
Russell Avenue	Replace 775 LF of 8" and 275 LF of " CI with 775 LF of 8" and 225 LF of 4" DIPCL	\$256,860	Nashua	Yes	\$ 27.81	\$ 7,143
Taylor Street (Main St to Lynn)	Replace 2084 LF of 6" CI with 8" DIPCL	\$651,468	Nashua	Yes	\$ 27.81	\$ 18,117
Burnett Street	Replace 535 LF of 6" CI with 12" DIPCL	\$203,647	Nashua	Yes	\$ 27.81	\$ 5,663
Field Street	Replace 325 LF of 6" CI with 6" DIPCL	\$67,483	Nashua	Yes	\$ 27.81	\$ 1,877
Fernwood Street	Replace 450 LF of 6" CI with 6" DIPCL	\$113,579	Nashua	Yes	\$ 27.81	\$ 3,159
Revere Street	Replace 760 LF of 6" CI with 8" DIPCL	\$183,064	Nashua	Yes	\$ 27.81	\$ 5,091
Stevens Street	Replace 760 LF of 8" CI and 160 LF of 6" CI with 760 LF of 8" and 160 LF of 4" DIPCL	\$264,358	Nashua	Yes	\$ 27.81	\$ 7,352
Evergreen Street	Replace 310 LF of 1.5" and 1.25" CI with 4" DIPCL	\$71,695	Nashua	Yes	\$ 27.81	\$ 1,994
Morton Street	Replace 290 LF of 1.5" CI with 550 LF of 4" DIPCL	\$104,035	Nashua	Yes	\$ 27.81	\$ 2,893
Park Avenue	Replace 300 LF of 8" CI and 160 LF of 2" CI with 300 LF of 8" and 160 LF of 4 in DIPCL	\$180,796	Nashua	Yes	\$ 27.81	\$ 5,028
Kinsley Street	Replace 275 LF of 12" CI and 1020 LF of 6" CI with 12" DIPCL	\$693,827	Nashua	Yes	\$ 27.81	\$ 19,295
Marshall Street	Replace 1074 LF of 8" CI with 1074 LF of 8" DIPCL	\$355,362	Nashua	Yes	\$ 27.81	\$ 9,883
Ferralls Court	Replace 116 LF of 1.25" steel pipe with 4" PVC	\$78,552	Nashua	Yes	\$ 27.81	\$ 2,185
Lovewell Street	Replace 400 LF of 1.25" steel pipe with 8" DIPCL	\$139,417	Nashua	Yes	\$ 27.81	\$ 3,877
Shakespeare High Pressure System	Expand HP system to address pressure issues to 4 streets	\$211,941	Nashua	Yes	\$ 27.81	\$ 5,894
Cheshire Street	Replace 394 LF of 8" AC with 394 LF of 12" DIPCL	\$183,707	Nashua	Yes	\$ 27.81	\$ 5,109
Replace 2 Submersible Jet Pumps	Replace two submersible jet pumps in the headworks at the WTP	\$14,707	Nashua	Yes	\$ 27.81	\$ 409
Misc. Structural Improvements	WTP - Replace FWPS oil Tank Leak Monitor	\$3,331	Nashua	Yes	\$ 27.81	\$ 93
Replacement of 18" Backwash Acuator	The replacement of the electric valve actuator for the 18" backwash water control valve	\$4,456	Nashua	Yes	\$ 27.81	\$ 124
Miscellaneous SCADA/Electrical	WTP - Replace High Lift #4, Soft Starter Mechanism	\$5,265	Nashua	Yes	\$ 27.81	\$ 146
Miscellaneous SCADA/Electrical	WTP - Replace Turbidimeter Controller - Filters 1A/1B	\$3,246	Nashua	Yes	\$ 27.81	\$ 90
Miscellaneous SCADA/Electrical	Install CMI units on 4 meters at this location	\$3,572	Nashua	Yes	\$ 27.81	\$ 99
Miscellaneous SCADA/Electrical	Replacement of the variable frequency drive unit for pump #2 at this location	\$9,765	Nashua	Yes	\$ 27.81	\$ 272
WTP Structural/HVAC	The rebuilding of the heating/AC roof top unit for WTP Finished Water Pump Station	\$6,094	Nashua	Yes	\$ 27.81	\$ 169
Purchase new lab equipment	Replace Combined Filter Effluent Chlorine Analyzer	\$3,575	Nashua	Yes	\$ 27.81	\$ -
Purchase new vehicle #212	Vehicle needed for new Community Water System Operator	\$41,478	Nashua	Yes	\$ 27.81	\$ -
Replace Vehicle	Replacement of vehicle #62	\$42,374	Nashua	Yes	\$ 27.81	\$ -
Replace Vehicle	Replacement of vehicle #38	\$27,581	Nashua	Yes	\$ 27.81	\$ -
Purchase replacement Aeration system compressor	Harris Pond raw water aeration system, replace 1 of 2	\$16,889	Nashua	Yes	\$ 27.81	\$ 470
Purchase new lab equipment	Purchase bench top Zeta potential analyzer	\$38,375	Nashua	Yes	\$ 27.81	\$ 1,067
Purchase and install 2-raw water streaming currrent monitors	Replacement of two older units, 1 currently not operational	\$10,695	Nashua	Yes	\$ 27.81	\$ 297
WTP - Replace Filter to Waste Valve Actuator	Replace valve actuator that controls flow of water from filters during waste/backwash phase	\$6,276	Nashua	Yes	\$ 27.81	\$ 175
Berkshire St	Water Main Replacement	\$5,239	Nashua	Yes	\$ 27.81	\$ 146
2017 Phase 2 Install Overhead Crane and Door-WTP Process Area	2018 Phase 2 Install Overhead Crane and Door-WTP Process Area Design	\$12,412	Nashua	Yes	\$ 27.81	\$ 345
Replace VFD	Replace VFD, Booster #2, Orchard Ave Station	\$1,719	Nashua	Yes	\$ 27.81	\$ 48
W. Allds St. Water Main Replacement - Main Street Nashua Inters	W. Allds St. Water Main Replacement - Main Street Nashua Intersections	\$27,969	Nashua	Yes	\$ 27.81	\$ 778

W Allds Street Phase II (Main to end) Int with Main Street Nashua	W Allds Street Phase II (Main to end) Int with Main Street Nashua Inters	\$6,531	Nashua	Yes	\$ 27.81	\$ 182
Overhead Crane and Door	WTP Process Area Installation	\$19,761	Nashua	Yes	\$ 27.81	\$ 550
SCADA System Upgrade	WTP - 2018 replace all SCADA computers and upgrade system	\$20,642	Nashua	Yes	\$ 27.81	\$ 574
Nashua Proforma Property Taxes -						\$ 160,834
PLAISTOW						
Sweet Hill Well #3	Sweet Hill Well #3 (2018 Carryover)	\$2,408	Plaistow	Yes	\$ 28.93	\$ 70
Plaistow Proforma Property Taxes -						\$ 70
VARIOUS						
Single Family New Services	Single Family, Owner Build, New Homes	\$40,850	Various	Yes	\$ 28.40	\$ 1,160
Renewed Services	Replacement of failed services	\$47,818	Various	Yes	\$ 28.40	\$ 1,358
Hydrants	Replacement of non functional hydrants (Run rate) (8 YTD)	\$35,560	Various	Yes	\$ 28.40	\$ 1,010
Valve Replacements	Replacement of Failed Gate Valves	\$14,412	Various	Yes	\$ 28.40	\$ 409
Replace failed meter reading radios	Replace out of warrantee failed radio meter readers	\$46,153	Various	Yes	\$ 28.40	\$ 1,311
New Meters for Lead Meter exchanges (PWW-CORE & CWS) 5/	Replace High lead brass meter with new no lead brass meter (2071 YTD)	\$326,902	Various	Yes	\$ 28.40	\$ 9,284
Asset Management	Asset Management	\$386,820	Various	Yes	\$ 28.40	\$ 10,986
Investment in developer installed services at 1xannual revenue	Per tariff (224)	\$141,179	Various	Yes	\$ 28.40	\$ 4,009
Booster/Well/Chem Feed pump replacements	Booster/Well/Chem Feed pump replacements (13 YTD)	\$50,899	Various	Yes	\$ 28.40	\$ 1,446
Additional iPads for Meter Techs	Configuration and deployment of 6 devices	\$4,680	Various	Yes	\$ 28.40	\$ 133
VPN Update	VPN appliance to better support our mobile workforce	\$3,366	Various	No	\$ 28.40	\$-
GIS/GeoSync/Work	GIS/GeoSync/Work	\$13,360	Various	Yes	\$ 28.40	\$ 379
Various Proforma Property Taxes -						\$ 31,485
Total Proforma Property Taxes for 2018 Additions -						\$ 202,862

Notes:

- (1) Asset Additions placed into service during 2018. List of Assets presented are the same as assets presented in 2019 QCPAC filing, DW19-029
- (2) Tax rate is the sum of the local community rate plus the Statewide Utility tax rate of

Amherst Tax Rate as of 12/31/2018	\$6.60	per \$1000
Bedford Tax Rate as of 12/31/2018	\$24.99	per \$1000
Merrimack Tax Rate as of 12/31/2018	\$18.16	per \$1000
Nashua Tax Rate as of 12/31/2018	\$22.32	per \$1000
Plaistow Tax Rate as of 12/31/2018	\$21.21	per \$1000
"Various" Community Average Tax Rate as of 12/31/2018	\$22.33	per \$1000
	\$21.80	per \$1000
- (3) Proforma Tax Bills will be trued up in December of 2019 based on actual tax bills received from each Community

Pennichuck Water Works, Inc.
 Taxable Assets for Asset Dispositions
 For the Twelve Months Ended December 31, 2018

Schedule 1A
 Attachment B

Asset ID	Description	Placed In Service	Disposal Date	Book Cost	Tax rate	Property Tax
Town or Department: Amherst						
Asset Type: ELECTRIC PUMPING EQUIPMENT						
Asset GL Acct #: 311200-2000-001						
20000-002619	Troubleshoot & Repair Bon Terrain Parco	3/1/1994	6/30/2018	\$ 714.96	31.59	\$ 22.59
20000-002660	WELL PUMP MOTOR STARTER-REPLACED-BON TER	5/26/1994	6/30/2018	\$ 566.22	31.59	\$ 17.89
20000-002665	TIME METERS-STANDISH WAY-BOOSTER STA-BON	6/16/1994	6/30/2018	\$ 125.44	31.59	\$ 3.96
20000-002666	WELL PUMP MOTOR-BON TERRAIN-SERVICED	6/20/1994	6/30/2018	\$ 153.00	31.59	\$ 4.83
20000-002684	60HP MOTOR - BON TERRAIN-EMERGENCY REPAI	7/1/1994	6/30/2018	\$ 1,125.00	31.59	\$ 35.54
20000-003092	NEW WELL PUMP INSTALLED IN-AVD STATION	8/26/1996	6/30/2018	\$ 567.95	31.59	\$ 17.94
20000-004503	LMI-METERING PUMP-SOUHEGAN WOODS	1/1/2000	6/30/2018	\$ 885.75	31.59	\$ 27.98
20000-005619	Bon Terrain: Amherst - LMI Pump	5/1/2004	6/30/2018	\$ 1,386.00	31.59	\$ 43.78
20000-005869.1	Bon Terrain: Amherst - Series G Metering	6/1/2005	6/30/2018	\$ 471.90	31.59	\$ 14.91
20000-05869.21	Bon Terrain: Amherst - LMI Chemical Feed	6/1/2005	6/30/2018	\$ 1,959.34	31.59	\$ 61.90
20000-05869.22	Bon Terrain: Amherst - Series G Metering	6/1/2005	6/30/2018	\$ 391.33	31.59	\$ 12.36
20000-05869.23	Bon Terrain: Amherst - Series G Metering	6/1/2005	6/30/2018	\$ 411.33	31.59	\$ 12.99
Subtotal: 311200-2000-001				\$ 8,758.22		\$ 276.67
Asset Type: OTHER POWER PUMPING EQUIPMENT						
Asset GL Acct #: 311600-2000-001						
20000-002661	AUTOMATIC HYDRAULIC CONTROL-VALVE-BON TE	5/24/1994	6/30/2018	\$ 5,450.00	31.59	\$ 172.17
20000-005052.1	PLC UPS PROTECTION--BON TERRAIN	4/1/2002	6/30/2018	\$ 431.56	31.59	\$ 13.63
20000-005052.2	PLC UPS PROTECTION-- AVD	4/1/2002	12/31/2018	\$ 431.57	31.59	\$ 13.63
Subtotal: 311600-2000-001				\$ 6,313.13		\$ 199.43
Asset Type: PURIFICATION SYSTEM EQUIPMENT						
Asset GL Acct #: 320000-2000-001						
20000-002452.1	LMI Model A141-152S - AVD	8/31/1993	12/31/2018	\$ 374.36	31.59	\$ 11.83
20000-002452.2	18 x 33 Solution Crock - AVD	8/31/1993	12/31/2018	\$ 25.54	31.59	\$ 0.81
20000-002452.3	115 Volt Mixer - AVD	8/31/1993	12/31/2018	\$ 176.40	31.59	\$ 5.57
20000-002473	LMI Model A141-15S2 - AVD	9/30/1993	12/31/2018	\$ 403.76	31.59	\$ 12.75
20000-002483	LMI Chemical Feed Pump A141-152S - AVD	12/1/1993	12/31/2018	\$ 405.42	31.59	\$ 12.81
20000-002902	Bon Terrain: Amherst - Corrosion Control	12/31/1995	12/31/2018	\$ 15,570.29	31.59	\$ 491.87
20000-003016	Bon Terrain: Amherst - Corrosion Control	2/29/1996	12/31/2018	\$ 1,092.69	31.59	\$ 34.52
20000-003021	PH/ORP ANALYZER & PH-CONTROLLER/PROBE -B	3/1/1996	12/31/2018	\$ 1,033.21	31.59	\$ 32.64
20000-004099	CHEMICAL PUMP PACING-BON TERRAIN	12/1/1998	12/31/2018	\$ 1,853.75	31.59	\$ 58.56
20000-004100	CHEMICAL PUMP PACING-AVD	12/1/1998	12/31/2018	\$ 524.29	31.59	\$ 16.56
20000-004327	INSTALL C-5/IRON-MANGANESE-SOUHEGAN WOOD	7/1/1999	12/31/2018	\$ 537.04	31.59	\$ 16.97
20000-004389	PH ELECTRODE MODEL#P60C-6-1-BON TERRAIN	11/1/1999	12/31/2018	\$ 442.88	31.59	\$ 13.99
20000-004791	LOT WATER ANALYSIS-BON TERRAIN	8/1/2001	12/31/2018	\$ 1,995.00	31.59	\$ 63.02
20000-005503	AVD: Amherst - 120V CL2 Analyzer	12/1/2003	12/31/2018	\$ 5,412.61	31.59	\$ 170.98
Subtotal: 320000-2000-001				\$ 29,847.24		\$ 942.87
Asset Type: OTHER PRODUCTION EQUIPMENT						
Asset GL Acct #: 320100-2000-001						
20000-002454	FEED PUMP/MIXER/BATCH TANK-CORROSION CON	8/31/1993	12/31/2018	\$ 1,404.83	31.59	\$ 44.38
Subtotal: 320100-2000-001				\$ 1,404.83		\$ 44.38
Asset Type: SERVICES						
Asset GL Acct #: 333100-2000-001						
20000-2433.358	Mack Hill Road (#3): Amherst - 1 CT Serv	1/1/1993	12/31/2018	\$ 596.85	31.59	\$ 18.85
Subtotal: 333100-2000-001				\$ 596.85		\$ 18.85
Asset Type: METERS						
Asset GL Acct #: 334000-2000-001						
20000-005440.2	1 Meters: Bartlett Commons: Amherst - (1	8/1/2003	10/31/2018	\$ 164.65	31.59	\$ 5.20
20000-005744	5/8 Meters: Bon Terrain: Amherst - (1) N	12/1/2004	10/31/2018	\$ 278.33	31.59	\$ 8.79
20000-005777.1	5/8 METERS: SOUHEGAN WOODS 1 RENEWED"	3/1/2005	9/30/2018	\$ 118.21	31.59	\$ 3.73
20000-02435.51	5/8 Meters: Bon Terrain: Amherst - (1) n	1/1/1993	8/31/2018	\$ 95.80	31.59	\$ 3.03
20000-02435.52	5/8 Meters: Bon Terrain: Amherst - (5)	1/1/1993	8/31/2018	\$ 479.00	31.59	\$ 15.13
20000-02435.98	5/8 Meters: Bon Terrain: Amherst - (1) n	1/1/1993	8/31/2018	\$ 95.82	31.59	\$ 3.03
20000-02435.99	5/8 METERS: Bon Terrain: Amherst - (1) n	1/1/1993	8/31/2018	\$ 95.82	31.59	\$ 3.03
20000-5223.2.2	5/8 METERS: AVD 1 RENEWED	3/1/2003	12/31/2018	\$ 88.77	31.59	\$ 2.80
20000-5369.3.2	5/8 Meters: Bon Terrain: Amherst - (5)"	12/1/2003	10/31/2018	\$ 336.60	31.59	\$ 10.63
Subtotal: 334000-2000-001				\$ 1,753.00		\$ 55.38
Subtotal: Amherst				\$ 48,673.27		\$ 1,537.59
Town or Department: Bedford						
Asset Type: SOURCE OF SUPPLY STRUCTURES						
Asset GL Acct #: 304100-2000-001						
20800-000457	Bedford Water Company - Chain Link Fence	12/1/2004	12/31/2018	\$ 5,417.50	24.76	\$ 134.14
Subtotal: 304100-2000-001				\$ 5,417.50		\$ 134.14
Asset Type: POWER & PUMPING STRUCTURES						
Asset GL Acct #: 304200-2000-001						
20800-000002	Bedford Water Company: Bedford - Pump Ho	1/1/1991	12/31/2018	\$ 4,000.00	24.76	\$ 99.04
20800-000102	Bedford Water Company: Bedford - Pump Ho	8/31/1991	12/31/2018	\$ 3,902.44	24.76	\$ 96.62
20800-000250	Bedford Water Company: Bedford - Install	6/30/1994	12/31/2018	\$ 881.46	24.76	\$ 21.82
Subtotal: 304200-2000-001				\$ 8,783.90		\$ 217.49
Asset Type: BOOSTER STATIONS						
Asset GL Acct #: 304550-2000-001						
20800-000306	Bedford Water Company: Bedford - Ripiped	12/31/1996	12/31/2018	\$ 11,531.41	24.76	\$ 285.52
20800-000311	Bedford Water Company: Bedford - Control	2/28/1997	12/31/2018	\$ 540.85	24.76	\$ 13.39
Subtotal: 304550-2000-001				\$ 12,072.26		\$ 298.91
Asset Type: WELLS & SPRINGS						
Asset GL Acct #: 307100-2000-001						
20800-000001.1	Bedford Water Company: Bedford - (2) Gra	1/1/1991	12/31/2018	\$ 3,881.00	24.76	\$ 96.09
20800-000001.2	Bedford Water Company: Bedford - (2) SHP	1/1/1991	12/31/2018	\$ 4,000.00	24.76	\$ 99.04
20800-000001.3	Bedford Water Company: Bedford - (1) 3/4	1/1/1991	12/31/2018	\$ 1,550.00	24.76	\$ 38.38
20800-000101	Bedford Water Company: Bedford - Upgrade	9/30/1991	12/31/2018	\$ 998.51	24.76	\$ 24.72
20800-000201	Bedford Water Company: Bedford - New Wel	9/30/1993	12/31/2018	\$ 20,671.26	24.76	\$ 511.82

Town or Department: Amherst

20800-000253	Bedford Water Company: Bedford - 21' Wal	7/31/1995	12/31/2018	\$ 2,798.58	24.76	\$ 69.29
20800-000301	NEW WELL - BEDFORD WATER CO-SEBBINS POND	9/30/1996	12/31/2018	\$ 29,049.31	24.76	\$ 719.26
20800-000314	Bedford Water: Bedford - Roof Replacemen	8/31/1997	12/31/2018	\$ 874.53	24.76	\$ 21.65
Subtotal: 307100-2000-001				\$ 63,823.19		\$ 1,580.26

Asset Type: POWER GENERATION EQUIPMENT

Asset GL Acct #: 310000-2000-001						
20000-009019	Bedford Water Company: Bedford - Generat	12/1/2009	12/31/2018	\$ 3,275.00	24.76	\$ 81.09
20000-009020	Bedford Water Company: Bedford - Generat	12/1/2009	12/31/2018	\$ 489.35	24.76	\$ 12.12
20000-009021	Bedford Water Company: Bedford - Generat	12/1/2009	12/31/2018	\$ 268.95	24.76	\$ 6.66
20000-009022	Bedford Water Company: Bedford - Generat	12/1/2009	12/31/2018	\$ 968.75	24.76	\$ 23.99
20000-009023	Bedford Water Company: Bedford - Generat	12/1/2009	12/31/2018	\$ 3,600.60	24.76	\$ 89.15
20000-009024	Bedford Water Company: Bedford - Generat	12/1/2009	12/31/2018	\$ 1,331.65	24.76	\$ 32.97
20000-013927	Bedford Water Generator - generators bol	12/1/2012	12/31/2018	\$ 6,113.32	24.76	\$ 151.37
20000-013950	Bedford Water Company Generator - genera	12/1/2012	12/31/2018	\$ 1,333.33	24.76	\$ 33.01
20000-014072	Bedford Water Generator	1/1/2013	12/31/2018	\$ 720.00	24.76	\$ 17.83
20000-014108	Bedford Water Generator	1/1/2013	12/31/2018	\$ 2,841.81	24.76	\$ 70.36
Subtotal: 310000-2000-001				\$ 20,942.76		\$ 518.54

Asset Type: ELECTRIC PUMPING EQUIPMENT

Asset GL Acct #: 311200-2000-001						
20000-002676	REPAIRED CONTROL PANEL-BOOSTER STATION-P	7/31/1994	12/31/2018	\$ 3,679.67	24.76	\$ 91.11
20000-003144	SCADA PHASE III - POWDER HILL-	12/31/1996	12/31/2018	\$ 10,605.00	24.76	\$ 262.58
20000-004502	EMERGENCY REPAIR -WELL #1-POWDER HILL	1/1/2000	6/30/2018	\$ 2,069.20	24.76	\$ 51.23
20000-007482	BEDFORD WATER COMPANY WELL #4 PUMP REPLA	6/1/2007	12/31/2018	\$ 2,749.05	24.76	\$ 68.07
20800-000103.1	Bedford Water Company: Bedford - Booster	9/1/1991	12/31/2018	\$ 4,366.52	24.76	\$ 108.12
20800-000103.2	Bedford Water Company: Bedford - Air Co	9/1/1991	12/31/2018	\$ 1,020.95	24.76	\$ 25.28
20800-000251	Bedford Water Company: Bedford - Install	6/30/1994	12/31/2018	\$ 247.81	24.76	\$ 6.14
20800-000252	Bedford Water Company: Bedford - Emergen	7/1/1994	12/31/2018	\$ 1,178.42	24.76	\$ 29.18
20800-000254	Bedford Water Company: Bedford - Control	12/30/1995	12/31/2018	\$ 488.38	24.76	\$ 12.09
20800-000312	Bedford Water Company: Bedford - Raised	3/18/1997	12/31/2018	\$ 750.00	24.76	\$ 18.57
20800-000313	Bedford Water Company: Bedford - Pump Re	5/31/1997	12/31/2018	\$ 1,653.74	24.76	\$ 40.95
20800-000450	Bedford Water Company: Bedford - Well #1	4/1/2002	12/31/2018	\$ 6,982.74	24.76	\$ 172.89
Subtotal: 311200-2000-001				\$ 35,791.48		\$ 886.20

Asset Type: ELECTRIC PUMPING - PUMPS

Asset GL Acct #: 311210-2000-001						
20000-007924	POWDER HILL BOOSTER #1 REBUILD	5/1/2008	3/31/2018	\$ 1,795.50	24.76	\$ 44.46
20000-012399	Bedford Water - Pump #2 - Replace Booste	12/1/2011	12/31/2018	\$ 4,609.80	24.76	\$ 114.14
20000-012400	Bedford Water - Pump #2 - Replace Booste	12/1/2011	12/31/2018	\$ 121.37	24.76	\$ 3.01
20000-012766	Bedford Water - Pump #2 - misc. parts	1/1/2012	12/31/2018	\$ 611.19	24.76	\$ 15.13
20000-019269	Bedford Water Company - Rebuild Booster	6/1/2016	12/31/2018	\$ 3,054.90	24.76	\$ 75.64
Subtotal: 311210-2000-001				\$ 10,192.76		\$ 252.37

Asset Type: OTHER POWER PUMPING EQUIPMENT

Asset GL Acct #: 311600-2000-001						
20000-005049	PLC UPS PROTECTION--POWDER HILL	4/1/2002	12/31/2018	\$ 287.71	24.76	\$ 7.12
20800-000105	Bedford Water Company: Bedford - Control	12/31/1991	12/31/2018	\$ 12,520.66	24.76	\$ 310.01
Subtotal: 311600-2000-001				\$ 12,808.37		\$ 317.14

Asset Type: PURIFICATION SYSTEM EQUIPMENT

Asset GL Acct #: 320000-2000-001						
20000-007105	GW CHLORINE MONITOR - BEDFORD WATER CO	10/1/2006	12/31/2018	\$ 2,961.94	24.76	\$ 73.34
20800-000202	Bedford Water Company: Bedford - Corrosi	9/30/1993	12/31/2018	\$ 1,563.55	24.76	\$ 38.71
20800-000316	Bedford Water Company: Bedford - Chemica	12/1/1998	12/31/2018	\$ 2,340.59	24.76	\$ 57.95
20800-000320	Bedford Water Company: Bedford - Chemica	7/1/1999	12/31/2018	\$ 3,401.88	24.76	\$ 84.23
Subtotal: 320000-2000-001				\$ 10,267.96		\$ 254.23

Asset Type: OTHER PRODUCTION EQUIPMENT

Asset GL Acct #: 320100-2000-001						
20800-000003.1	Bedford Water Company: Bedford - (2) 10,	1/1/1991	12/31/2018	\$ 10,000.00	24.76	\$ 247.60
20800-000106.1	Bedford Water Company: Bedford - 3000 Ga	12/31/1991	12/31/2018	\$ 9,022.52	24.76	\$ 223.40
20800-000106.2	Bedford Water Company: Bedford - Upgrade	12/31/1991	12/31/2018	\$ 8,231.61	24.76	\$ 203.81
Subtotal: 320100-2000-001				\$ 27,254.13		\$ 674.81

Asset Type: DISTRIBUTION MAINS

Asset GL Acct #: 331200-2000-001						
20800-000104	Bedford Water Company: Bedford - Dischar	9/30/1991	12/31/2018	\$ 312.52	24.76	\$ 7.74
20800-000303.1	Back River Road: Bedford - 301' of 2 PVC	9/30/1996	12/31/2018	\$ 3,142.42	24.76	\$ 77.81
20800-000303.2	Back River Road: Bedford - 421' of 4 PVC	9/30/1996	12/31/2018	\$ 4,395.91	24.76	\$ 108.84
20800-000303.3	Back River Road: Bedford - 1,135' of 8 P	9/30/1996	12/31/2018	\$ 11,846.73	24.76	\$ 293.33
Subtotal: 331200-2000-001				\$ 19,697.58		\$ 487.71

Asset Type: METERS

Asset GL Acct #: 334000-2000-001						
20000-004559.2-001	5/8 Meters: Bedford (31)	12/1/2000	10/31/2018	\$ 4,568.63	24.76	\$ 113.12
20000-005425.2	1.5 Meters: Powder Hill: Bedford - (1) N	7/1/2003	10/31/2018	\$ 312.44	24.76	\$ 7.74
20000-005796.3	5/8 Meters: Cabot Preserve: Bedford - (4	5/1/2005	10/31/2018	\$ 731.60	24.76	\$ 18.11
20000-005938	5/8 METERS: POWDER HILL. 4 NEW"	8/1/2005	8/31/2018	\$ 694.74	24.76	\$ 17.20
20000-05352.2	5/8 METERS: LITTLE POND. 1 - RENEWED	3/1/2003	12/31/2018	\$ 118.01	24.76	\$ 2.92
20000-4707.5.2	5/8 METERS: GREENFIELD FARMS (2)"	8/1/2001	8/31/2018	\$ 282.02	24.76	\$ 6.98
20000-5021.1.6	5/8 Meters: Cabot Preserve: Bedford - (1	3/1/2002	9/30/2018	\$ 181.23	24.76	\$ 4.49
20000-5219.2.2	5/8 METERS: CABOT PRESERVE 1 - NEW"	3/1/2003	8/31/2018	\$ 105.31	24.76	\$ 2.61
20000-5219.2.3	5/8 METERS: CABOT PRESERVE 1 - NEW"	3/1/2003	12/31/2018	\$ 105.31	24.76	\$ 2.61
20000-5219.2.4	5/8 METERS: CABOT PRESERVE 1 - NEW"	3/1/2003	12/31/2018	\$ 105.30	24.76	\$ 2.61
20000-5556.3.7	5/8 Meters: Little Pond: Bedford - (1) N	4/1/2004	12/31/2018	\$ 148.35	24.76	\$ 3.67
20000-5796.1.2	5/8 Meters: Cabot Preserve: Bedford - (1	3/1/2005	8/31/2018	\$ 131.17	24.76	\$ 3.25
20000-5796.1.3	5/8 Meters: Cabot Preserve: Bedford - (1	3/1/2005	8/31/2018	\$ 131.17	24.76	\$ 3.25
20000-5796.1.4	5/8 Meters: Cabot Preserve: Bedford - (1	3/1/2005	9/30/2018	\$ 131.17	24.76	\$ 3.25
20800-000401.1	5/8 Meters: Bedford Water Company: Bedfo	3/1/2001	12/31/2018	\$ 275.09	24.76	\$ 6.81
50000-012019	5/8 METERS:GREENFIELD-FARMS (5)"	12/1/2001	8/31/2018	\$ 1,061.80	24.76	\$ 26.29
Subtotal: 334000-2000-001				\$ 9,083.34		\$ 224.90

Asset Type: OTHER TRANS & DIST EQUIPMENT

Asset GL Acct #: 339000-2000-001						
20800-000315	Bedford Water Company: bedford - Samplin	10/31/1997	12/31/2018	\$ 1,488.61	24.76	\$ 36.86
Subtotal: 339000-2000-001				\$ 1,488.61		\$ 36.86

Town or Department: Amherst

Asset Type: COMMUNICATION EQUIPMENT

Asset GL Acct #: 346000-2000-001

20000-008652	Bedford Water - Convert Communications t	9/1/2009	12/31/2018	\$ 684.62	24.76	\$ 16.95
20800-000452	Bedford Water Company: Bedford - Surge P	12/1/2002	12/31/2018	\$ 331.70	24.76	\$ 8.21
Subtotal: 346000-2000-001				\$ 1,016.32		\$ 25.16
Subtotal: Bedford				\$ 238,640.16		\$ 5,390.19

Town or Department: Community Systems

Asset Type: METERS

Asset GL Acct #: 334000-2000-001

20000-005127	6 Meters: Tyngsboro - (1) New"	8/1/2002	10/31/2018	\$ 572.00	-	\$ -
20000-008819	5/8 Metes: Comm Sys 2 new"	11/1/2009	10/31/2018	\$ 337.96	-	\$ -
20000-012277	5/8 Meters: Comm Sys 6 renewed"	10/1/2011	9/30/2018	\$ 851.43	-	\$ -
20000-012342	5/8 Meters: Comm Sys 3 new	11/1/2011	12/31/2018	\$ 458.09	-	\$ -
20000-012345	5/8 Meters: Comm Sys 3 renewed	11/1/2011	12/31/2018	\$ 537.14	-	\$ -
20000-012826	5/8 Meters: Comm Sys 1 new"	2/1/2012	9/30/2018	\$ 163.15	-	\$ -
20000-012899	5/8 Meter: Comm Sys 1 new"	3/1/2012	10/31/2018	\$ 306.82	-	\$ -
20000-013617	5/8 New Meter: Community Systems	10/1/2012	12/31/2018	\$ 551.83	-	\$ -
20000-014064	1 1/2 New Meter Exchanges: Community Sys	1/1/2013	10/31/2018	\$ 1,596.06	-	\$ -
20000-014158	1 New Meter: Community Systems"	2/1/2013	10/31/2018	\$ 278.19	-	\$ -
20000-014173	3/4 New Meter Exchanges: Community Syste	3/1/2013	8/31/2018	\$ 232.26	-	\$ -
20000-014273	3/4 New Meter Exchanges: Community Syste	4/1/2013	10/31/2018	\$ 152.86	-	\$ -
20000-014274	1 New Meter Exchanges: Community Systems	4/1/2013	12/31/2018	\$ 219.38	-	\$ -
20000-014321	3/4 New Meter Exchanges: Community Syste	5/1/2013	8/31/2018	\$ 153.17	-	\$ -
20000-014768	5/8 New Meter: Community Systems"	9/1/2013	10/31/2018	\$ 790.25	-	\$ -
20000-017207	5/8 New Meter Exchanges: Community Syste	10/1/2014	10/31/2018	\$ 82.98	-	\$ -
20000-017622.2	5/8 New Meter: Community Systems (1)	2/1/2015	8/31/2018	\$ 208.69	-	\$ -
20000-017622.3	5/8 New Meter: Community Systems (1)	2/1/2015	9/30/2018	\$ 208.70	-	\$ -
20000-017898	5/8 New Meter: Community Systems (1)	6/1/2015	10/31/2018	\$ 168.24	-	\$ -
20000-017898-001	5/8 New Meter: Community Systems (1)	6/1/2015	12/31/2018	\$ 168.25	-	\$ -
Subtotal: 334000-2000-001				\$ 8,037.45		\$ -

Asset Type: RADIOS FOR METERING EQUIPMENT

Asset GL Acct #: 334100-2000-001

20000-011997	Neptune Radio Replacements: Comm Sys, 2	7/1/2011	9/30/2018	\$ 209.63	-	\$ -
20000-012349	Neptune Radio Replacements: Comm Sys, 3	11/1/2011	8/31/2018	\$ 318.45	-	\$ -
20000-012980	Neptune Radio Replacements: Comm Sys, 1	4/1/2012	8/31/2018	\$ 108.04	-	\$ -
20000-013092	Pww Neptune Radio Replacements: Communit	6/1/2012	9/30/2018	\$ 204.26	-	\$ -
20000-014067-001	Neptune Radio Replacements: (1) CommSys	1/1/2013	3/31/2018	\$ 103.83	-	\$ -
20000-014067-002	Neptune Radio Replacements: (1) CommSys	1/1/2013	9/30/2018	\$ 103.83	-	\$ -
20000-014778-001	Neptune Radio Replacements: Community Sy	9/1/2013	12/31/2018	\$ 101.03	-	\$ -
20000-015528	Neptune Radio Replacements: Community Sy	1/1/2014	9/30/2018	\$ 111.00	-	\$ -
Subtotal: 334100-2000-001				\$ 1,260.07		\$ -
Subtotal: Community Systems				\$ 9,297.52		\$ -

Town or Department: Core

Asset Type: METERS

Asset GL Acct #: 334000-2000-001

20000-008645	1 Meters: Core 1 renewed"	9/1/2009	8/31/2018	\$ 240.20	-	\$ -
20000-011714	1 Meters: Core 1 new	4/1/2011	12/31/2018	\$ 258.06	-	\$ -
20000-012418-001	5/8 Meters: Core (5) renewed	12/1/2011	8/31/2018	\$ 723.84	-	\$ -
20000-012978	1 Meters: Core 1 new"	4/1/2012	10/31/2018	\$ 381.16	-	\$ -
20000-012979	1 1/2 Meters: Core 1 new"	4/1/2012	8/31/2018	\$ 455.54	-	\$ -
20000-014062-001	5/8 New Meter: Core" (1)	1/1/2013	8/31/2018	\$ 161.28	-	\$ -
20000-014326	2 New Meter Exchanges: Core"	5/1/2013	10/31/2018	\$ 1,806.21	-	\$ -
20000-014507-001	3/4 Meters: Meter Reconciliation Munis t	5/1/2013	12/31/2018	\$ -	-	\$ -
20000-014508-001	1 Meters: Meter Reconciliation Munis to	5/1/2013	12/31/2018	\$ -	-	\$ -
20000-017396	1 1/2 New Meter: Core"	12/1/2014	10/31/2018	\$ 641.89	-	\$ -
20000-017623	1 New Meter: Core"	2/1/2015	10/31/2018	\$ 277.36	-	\$ -
20000-017687	1 New Meter: Core	3/1/2015	12/31/2018	\$ 277.36	-	\$ -
Subtotal: 334000-2000-001				\$ 5,222.90		\$ -

Asset Type: RADIOS FOR METERING EQUIPMENT

Asset GL Acct #: 334100-2000-001

20000-017625.3	Neptune Radio Replacements: Core	2/1/2015	8/31/2018	\$ 126.54	-	\$ -
Subtotal: 334100-2000-001				\$ 126.54		\$ -
Subtotal: Core				\$ 5,349.44		\$ -

Town or Department: Derry

Asset Type: POWER & PUMPING STRUCTURES

Asset GL Acct #: 304200-2000-001

20600-000605	Glenn Ridge: Derry - Propane Gas Unit	12/31/1993	12/31/2018	\$ 1,965.88	32.63	\$ 64.15
20600-000650	Glenn Ridge: Derry - Reshingle Roof	10/14/1994	12/31/2018	\$ 300.00	32.63	\$ 9.79
20600-000651	PROPANE GAS UNIT - ADDL-CHG. 1993	12/31/1994	12/31/2018	\$ 63.25	32.63	\$ 2.06
21000-000300	Maple Haven: Derry - 3/4HP Air Compresso	9/30/1996	12/31/2018	\$ 474.00	32.63	\$ 15.47
Subtotal: 304200-2000-001				\$ 2,803.13		\$ 91.47

Asset Type: BOOSTER STATIONS

Asset GL Acct #: 304550-2000-001

20600-000602	BOOSTER STATION #2-	8/31/1993	12/31/2018	\$ 728.10	32.63	\$ 23.76
Subtotal: 304550-2000-001				\$ 728.10		\$ 23.76

Asset Type: WELLS & SPRINGS

Asset GL Acct #: 307100-2000-001

20500-000502	Redfield Estates: Derry - (6) Wells - 2	11/30/1992	6/30/2018	\$ 1,165.00	32.63	\$ 38.01
20500-000801	Redfield Estates: Derry - Steel Door	3/28/1996	6/30/2018	\$ 249.00	32.63	\$ 8.12
20500-000818	Redfield Estates (Lower): Roof Repair	10/31/1997	6/30/2018	\$ 876.92	32.63	\$ 28.61
20600-000205	1 HEATER/DAYTON MODEL 340J-1 MAIN CONTRO	9/30/1989	12/31/2018	\$ 4,100.00	32.63	\$ 133.78
Subtotal: 307100-2000-001				\$ 6,390.92		\$ 208.54

Asset Type: WELL PUMPS & PIPING

Asset GL Acct #: 307210-2000-001

20000-008846	WELL #7 WIRE REPLACEMENT: REDFIELD	11/1/2009	6/30/2018	\$ 26,139.44	32.63	\$ 852.93
20000-009589	Hubbard Hill Well Pump #2 Replacement -	7/1/2010	6/30/2018	\$ 992.59	32.63	\$ 32.39
20000-009590	Hubbard Hill Well Pump #2 Replacement -	7/1/2010	6/30/2018	\$ 1,250.54	32.63	\$ 40.81
20000-009591	Hubbard Hill Well Pump #2 Replacement -	7/1/2010	6/30/2018	\$ 44.36	32.63	\$ 1.45
20000-009592	Hubbard Hill Well Pump #2 Replacement -	7/1/2010	6/30/2018	\$ 955.39	32.63	\$ 31.17
Subtotal: 307210-2000-001				\$ 29,382.32		\$ 958.75

Town or Department: Amherst

Asset GL Acct #	Description	Acq Date	Term	Cost	Depreciation	Value
20000-014943	Spollett Drive (#15): Derry - 1" PVC	10/1/2013	6/30/2018	\$ 2,413.54	32.63	\$ 78.75
20600-00601.41	Eastman Drive (#2): Derry - 3/4 PVC Serv	8/31/1993	6/30/2018	\$ 171.56	32.63	\$ 5.60
20600-00601.44	Eastman Drive (#6): Derry - 3/4 PVC Serv	8/31/1993	9/30/2018	\$ 171.56	32.63	\$ 5.60
Subtotal: 333200-2000-001				\$ 2,756.66		\$ 89.95

Asset Type: METERS

Asset GL Acct #	Description	Acq Date	Term	Cost	Depreciation	Value
20500-001003.2	5/8 Meters: Drew Woods: Derry - (4) Rene	9/1/2002	10/31/2018	\$ 403.84	32.63	\$ 13.18
20500-001036.1	5/8 Meters: Drew Woods: Derry - (2) Rene	9/1/2004	8/31/2018	\$ 327.96	32.63	\$ 10.70
21000-000400	5/8 Meters: Maple Haven: Derry - (2)"	8/1/2001	3/31/2018	\$ 251.63	32.63	\$ 8.21
21000-000451	5/8 Meters: Maple Haven: Derry - (3) Ren	9/1/2002	8/31/2018	\$ 302.88	32.63	\$ 9.88
21000-00453.26-001	5/8 Meters: Maple Haven: Derry - (8)	3/1/2003	8/31/2018	\$ 742.86	32.63	\$ 24.24
Subtotal: 334000-2000-001				\$ 2,029.17		\$ 66.21

Asset Type: COMMUNICATION EQUIPMENT

Asset GL Acct #	Description	Acq Date	Term	Cost	Depreciation	Value
20200-000701	Scada Phase III - Richardson Estates	12/31/1997	12/31/2018	\$ 8,743.34	32.63	\$ 285.30
20200-000803	Richardson: Derry - Surge Protectors (2)	12/1/2002	12/31/2018	\$ 331.70	32.63	\$ 10.82
20300-000651	SCADA PHASE III-	12/31/1997	12/31/2018	\$ 8,743.34	32.63	\$ 285.30
20300-000672	SCADA PHASE III-	3/31/1998	12/31/2018	\$ 1,837.91	32.63	\$ 59.97
20500-000812	Drew Woods: Derry - SCADA Phase III	12/31/1997	12/31/2018	\$ 47,924.86	32.63	\$ 1,563.79
20500-000827	SCADA PHASE III-	3/31/1998	12/31/2018	\$ 2,222.00	32.63	\$ 72.50
20600-000702	Glenn Ridge: Derry - SCADA Phase III	12/31/1997	12/31/2018	\$ 8,743.34	32.63	\$ 285.30
21000-000320	Maple Haven: Derry - SCADA Phase III	12/31/1997	12/31/2018	\$ 9,984.98	32.63	\$ 325.81
21000-000330	Maple Haven: Derry - SCADA Phase III	2/28/1998	12/31/2018	\$ 2,223.81	32.63	\$ 72.56
Subtotal: 346000-2000-001				\$ 90,755.28		\$ 2,961.34
Subtotal: Derry				\$ 365,360.85		\$ 11,921.72

Town or Department: Epping

Asset Type: ELECTRIC PUMPING EQUIPMENT

Asset GL Acct #	Description	Acq Date	Term	Cost	Depreciation	Value
21100-000005	Glenwoodlands: Epping - (1) 5 HP Jockey	11/1/1995	12/31/2018	\$ 2,000.00	30.02	\$ 60.04
21100-000006	Glenwoodlands: Epping - (2) 5HP Well Pum	11/1/1995	12/31/2018	\$ 6,000.00	30.02	\$ 180.12
21100-00004.2	Glenwoodlands: Epping - (1) 5 HP Booster	11/1/1995	12/31/2018	\$ 3,000.00	30.02	\$ 90.06
21100-000103	Glenwoodlands: Epping - SCADA Phase III	12/31/1996	12/31/2018	\$ 9,450.00	30.02	\$ 283.69
21100-000111	Glenwoodlands: Epping - SCADA Phase III	12/31/1997	12/31/2018	\$ 2,853.86	30.02	\$ 85.67
Subtotal: 311200-2000-001				\$ 23,303.86		\$ 699.58

Asset Type: METERS

Asset GL Acct #	Description	Acq Date	Term	Cost	Depreciation	Value
21100-000254.2	5/8 Meters: Glenwoodlands: Epping - (1)	2/1/2003	3/31/2018	\$ 108.41	30.02	\$ 3.25
Subtotal: 334000-2000-001				\$ 108.41		\$ 3.25
Subtotal: Epping				\$ 23,412.27		\$ 702.84

Town or Department: Hollis

Asset Type: METERS

Asset GL Acct #	Description	Acq Date	Term	Cost	Depreciation	Value
20000-5222.2.2	5/8 METERS: HOLLIS 1 NEW	3/1/2003	12/31/2018	\$ 90.05	26.13	\$ 2.35
Subtotal: 334000-2000-001				\$ 90.05		\$ 2.35
Subtotal: Hollis				\$ 90.05		\$ 2.35

Town or Department: Merrimack

Asset Type: GENERAL & MISCELLANEOUS STRUCTURES

Asset GL Acct #	Description	Acq Date	Term	Cost	Depreciation	Value
20000-000562	2050' POWER LINE TO HARRIS DAM-	7/1/1971	12/31/2018	\$ 261.90	28.92	\$ 7.57
20000-002227.2	Bowers Dam: Merrimack - Reinstall 16' Ga	6/30/1991	12/31/2018	\$ 1,123.00	28.92	\$ 32.48
Subtotal: 304700-2000-001				\$ 1,384.90		\$ 40.05

Asset Type: METERS

Asset GL Acct #	Description	Acq Date	Term	Cost	Depreciation	Value
20000-005706	3 METERS: MERRIMACK 2-RENEWED"	10/1/2004	10/31/2018	\$ 1,681.47	28.92	\$ 48.63
20000-006037	1 METERS: MERRIMACK 1 NEW"	10/1/2005	8/31/2018	\$ 213.22	28.92	\$ 6.17
20000-006297	1 METERS: MERRIMACK 1 RENEWED	4/1/2006	12/31/2018	\$ 244.05	28.92	\$ 7.06
Subtotal: 334000-2000-001				\$ 2,138.74		\$ 61.85

Asset Type: DUMP TRUCK

Asset GL Acct #	Description	Acq Date	Term	Cost	Depreciation	Value
20000-004811	2002 Peterbilt 330 Dump Truck - Vehicle	10/1/2001	6/30/2018	\$ 64,644.30	28.92	\$ 1,869.51
20000-5751.21	2002 Peterbilt 330 Dump Truck - Clean &	12/1/2004	6/30/2018	\$ 160.00	28.92	\$ 4.63
Subtotal: DUMP TRUCK				\$ 64,804.30		\$ 1,874.14

Asset Type: NON-UNION VEHICLES

Asset GL Acct #	Description	Acq Date	Term	Cost	Depreciation	Value
20000-005851	2005 Ford Ranger Pickup - Vehicle #37	5/1/2005	6/30/2018	\$ 21,022.68	28.92	\$ 607.98
20000-006274	2006 Jeep Grand Cherokee - PWSC PRESIDEN	3/1/2006	6/30/2018	\$ 30,112.95	28.92	\$ 870.87
20000-007741	2008 Ford Edge - Vehicle #100	12/1/2007	6/30/2018	\$ 35,098.00	28.92	\$ 1,015.03
20000-007975	2008 Ford Ranger - Vehicle #30	6/1/2008	1/31/2018	\$ 22,617.30	28.92	\$ 654.09
20000-008313.1	2008 Chevy Colorado - Vehicle #32(CIAC)	2/1/2009	8/31/2018	\$ 1,120.87	28.92	\$ 32.42
20000-008313.2	2008 Chevy Colorado - Vehicle #32	2/1/2009	8/31/2018	\$ 21,030.13	28.92	\$ 608.19
Subtotal: NON-UNION VEHICLES				\$ 131,001.93		\$ 3,788.58
Subtotal: 341000-2000-001				\$ 195,806.23		\$ 5,662.72

Asset Type: BACKHOE

Asset GL Acct #	Description	Acq Date	Term	Cost	Depreciation	Value
20000-006300	TAKEUCHI TB135 EXCAVATOR (Project: Purch	4/1/2006	9/30/2018	\$ 53,717.33	28.92	\$ 1,553.51
Subtotal: 345000-2000-001				\$ 53,717.33		\$ 1,553.51

Asset Type: COMPUTER EQUIPMENT

Asset GL Acct #	Description	Acq Date	Term	Cost	Depreciation	Value
20000-002879	Hewlett Packard Laserjet IV Plus Printer	6/30/1995	12/31/2018	\$ 1,612.00	28.92	\$ 46.62
20000-003098	MACOLA - NEW ACCOUNTING SYSTEM	10/31/1996	6/30/2018	\$ 28,715.76	28.92	\$ 830.46
20000-003114	LASER JETS PRINTER- Accounting	9/30/1996	12/31/2018	\$ 1,392.50	28.92	\$ 40.27
20000-003298	ENGINEERING HARD/SOFTWARE-UPGRADES	12/31/1997	6/30/2018	\$ 9,251.69	28.92	\$ 267.56
20000-004632	HUB REPLACEMENT- IS Time	7/1/2000	6/30/2018	\$ 154.26	28.92	\$ 4.46
20000-004633	TIME COLLECTION/SALARY- IS Time	7/1/2000	6/30/2018	\$ 2,811.85	28.92	\$ 81.32
20000-005012	WaterCAD - 1000 Pipes - 2 Users	2/1/2002	6/30/2018	\$ 3,475.00	28.92	\$ 100.50
20000-005429	OLP BRIGHTSTOR ARCSERV-V9 SERVER (On Jup	7/1/2003	6/30/2018	\$ 996.10	28.92	\$ 28.81
20000-005635	VISUAL BASIC PROGRAM FOR GATES	5/1/2004	12/31/2018	\$ 1,480.00	28.92	\$ 42.80

Town or Department: Amherst

20000-005691.1	BNA - Conversion from Macola - IS Overhe	12/1/2004	6/30/2018	\$ 179.76	28.92	\$ 5.20
20000-005692.1	BNA - Conversion from Macola - IS Overhe	9/1/2004	6/30/2018	\$ 2,088.88	28.92	\$ 60.41
20000-005692.2	BNA - Conversion from Macola - Dell	9/1/2004	6/30/2018	\$ 134.95	28.92	\$ 3.90
20000-005754	Active Directory/Exchange 2003 Upgrade	12/1/2004	12/31/2018	\$ 20,093.52	28.92	\$ 581.10
20000-005830	BNA - Conversion from Macola - Data Conv	3/1/2005	6/30/2018	\$ 7,500.00	28.92	\$ 216.90
20000-005854	CISCO GIGABYTE NETWORK SWITCH	5/1/2005	12/31/2018	\$ 5,472.50	28.92	\$ 158.26
20000-005905	NB HP JETDIRECT 620N PRINTER	7/1/2005	12/31/2018	\$ 344.94	28.92	\$ 9.98
20000-005908	WS-C3550-24PWRs HARDWARE EXPANSION	7/1/2005	6/30/2018	\$ 2,970.75	28.92	\$ 85.91
20000-005972	NEW SERVERS	9/1/2005	6/30/2018	\$ 9,160.82	28.92	\$ 264.93
20000-006267	WEB MONITORING REPLACEMENT	3/1/2006	6/30/2018	\$ 5,294.53	28.92	\$ 153.12
20000-007060	WEB MONITORING REPLACEMENT	10/1/2006	6/30/2018	\$ (114.72)	28.92	\$ (3.32)
20000-007823	COLOR LASER FOR ADMIN	2/1/2008	6/30/2018	\$ 1,198.25	28.92	\$ 34.65
20000-007998	BESR BACKUP DEVICE	7/1/2008	6/30/2018	\$ 845.46	28.92	\$ 24.45
20000-008526	EMAIL ARCHIVE	6/1/2009	12/31/2018	\$ 6,147.09	28.92	\$ 177.77
20000-008527	EXCHANGE SERVER UPGRADE/REPLACEMENT	6/1/2009	12/31/2018	\$ 29,753.30	28.92	\$ 860.47
20000-008528	POSTCARD PRINTED - OKI Monochrome LED Pr	6/1/2009	6/30/2018	\$ 548.92	28.92	\$ 15.87
20000-008742	Headsets (12) for Customer Service	10/1/2009	6/30/2018	\$ 2,246.88	28.92	\$ 64.98
20000-009228	Cisco Catalyst 3750V2-48PS Layer 3 Switc	4/1/2010	6/30/2018	\$ 10,194.00	28.92	\$ 294.81
20000-009229	Cisco Catalyst 3750E 48 Port Multi-Layer	4/1/2010	6/30/2018	\$ 24,594.00	28.92	\$ 711.26
20000-009231	Vantecore Professional Project Services	4/1/2010	6/30/2018	\$ 1,250.00	28.92	\$ 36.15
20000-009726	Virtualization - Equallogics SAS Storage	8/1/2010	9/30/2018	\$ 39,798.00	28.92	\$ 1,150.96
20000-009727	Virtualization - Equallogics SAS Storage	8/1/2010	9/30/2018	\$ 16,750.00	28.92	\$ 484.41
20000-009728	Virtualization - Vantecore Professional	8/1/2010	9/30/2018	\$ 18,348.00	28.92	\$ 530.62
20000-009779	Network Switch Replacements - Phase II C	8/1/2010	9/30/2018	\$ 20,700.00	28.92	\$ 598.64
20000-009780	Network Switch Replacements - Phase II C	8/1/2010	9/30/2018	\$ 240.00	28.92	\$ 6.94
20000-009781	Network Switch Replacements - Phase II C	8/1/2010	9/30/2018	\$ 1,248.00	28.92	\$ 36.09
20000-009782	Network Switch Replacements - Phase II C	8/1/2010	9/30/2018	\$ 1,800.00	28.92	\$ 52.06
20000-009783	Network Switch Replacements - Phase II V	8/1/2010	9/30/2018	\$ 1,056.00	28.92	\$ 30.54
20000-010600	Network Switch Replacements - Build, Con	11/1/2010	9/30/2018	\$ 264.00	28.92	\$ 7.63
20000-010672	Virtualization - Build, Configure, Conve	12/1/2010	6/30/2018	\$ 1,320.00	28.92	\$ 38.17
20000-010677	Virtualization - Cisco Twinax Cable 10GB	12/1/2010	6/30/2018	\$ 312.00	28.92	\$ 9.02
20000-010678	Virtualization - Cisco QLOGIC QLE 8152-C	12/1/2010	6/30/2018	\$ 1,412.30	28.92	\$ 40.84
20000-010679	Virtualization - Cisco 650W Power Supply	12/1/2010	6/30/2018	\$ 299.60	28.92	\$ 8.66
20000-010680	Virtualization - Cisco Cable Bracket (1)	12/1/2010	6/30/2018	\$ 74.90	28.92	\$ 2.17
20000-010681	Virtualization - Intel 4-Port GbE NIC Ca	12/1/2010	6/30/2018	\$ 534.47	28.92	\$ 15.46
20000-010682	Virtualization - Cisco 500 GB Internal H	12/1/2010	6/30/2018	\$ 800.36	28.92	\$ 23.15
20000-010683	Virtualization - Cisco RAID Controller (12/1/2010	6/30/2018	\$ 175.48	28.92	\$ 5.07
20000-010684	Virtualization - Cisco 4GB DDR3 SDRAM Me	12/1/2010	6/30/2018	\$ 1,606.64	28.92	\$ 46.46
20000-010685	Virtualization - Cisco CPU Heatsink for	12/1/2010	6/30/2018	\$ 52.97	28.92	\$ 1.53
20000-010686	Virtualization - Cisco Xeon E5620 2.40 G	12/1/2010	6/30/2018	\$ 601.34	28.92	\$ 17.39
20000-010687	Virtualization - Cisco UCS C200 M2 Serve	12/1/2010	6/30/2018	\$ 2,234.70	28.92	\$ 64.63
20000-010842	iPrism Web Filter Replacement	12/1/2010	6/30/2018	\$ 1,250.00	28.92	\$ 36.15
20000-011891	E-Mail Server Upgrade (5 Drives) - (1)	6/1/2011	9/30/2018	\$ 349.86	28.92	\$ 10.12
20000-011892	E-Mail Server Upgrade (5 Drives) - (1)	6/1/2011	9/30/2018	\$ 349.86	28.92	\$ 10.12
20000-011893	E-Mail Server Upgrade (5 Drives) - (1)	6/1/2011	9/30/2018	\$ 349.86	28.92	\$ 10.12
20000-011894	E-Mail Server Upgrade (5 Drives) - (1)	6/1/2011	9/30/2018	\$ 349.86	28.92	\$ 10.12
20000-011895	E-Mail Server Upgrade (5 Drives) - (1)	6/1/2011	9/30/2018	\$ 349.85	28.92	\$ 10.12
20000-012844	Backup System Upgrade - ARCserve backup	2/1/2012	12/31/2018	\$ 753.74	28.92	\$ 21.80
20000-012846	Backup System Upgrade - ARCserve backup	2/1/2012	12/31/2018	\$ 1,543.62	28.92	\$ 44.64
20000-012847	Backup System Upgrade - ARCserve backup	2/1/2012	12/31/2018	\$ 3,028.53	28.92	\$ 87.59
20000-012848	Backup System Upgrade - ARCserve backup	2/1/2012	12/31/2018	\$ 291.22	28.92	\$ 8.42
20000-017342	Panasonic Toughpad FZ-G1 & Infocase X-St	11/1/2014	12/31/2018	\$ 2,398.18	28.92	\$ 69.36
20000-017343	Panasonic Toughbook ser# 3KTYA37921	11/1/2014	12/31/2018	\$ 2,799.00	28.92	\$ 80.95
20000-017345	Panasonic Toughbook ser# 3KTYA38015	11/1/2014	12/31/2018	\$ 2,799.00	28.92	\$ 80.95
20000-017346	Panasonic Toughbook ser# 3KTYA38019	11/1/2014	12/31/2018	\$ 2,799.00	28.92	\$ 80.95
20000-017347	Panasonic Toughbook ser# 3KTYA38023	11/1/2014	12/31/2018	\$ 2,799.00	28.92	\$ 80.95
20000-017348	Panasonic Toughbook ser# 3KTYA38035	11/1/2014	12/31/2018	\$ 2,799.00	28.92	\$ 80.95
20000-017350	Panasonic Toughbook ser# 3KTYA38044	11/1/2014	12/31/2018	\$ 2,799.00	28.92	\$ 80.95
20000-017351	Panasonic Toughbook ser# 3KTYA38048	11/1/2014	12/31/2018	\$ 2,799.00	28.92	\$ 80.95
20000-017352	Panasonic Toughbook ser# 3KTYA38100	11/1/2014	12/31/2018	\$ 2,799.00	28.92	\$ 80.95
20000-017353	Panasonic Toughbook ser# 3KTYA38125	11/1/2014	12/31/2018	\$ 2,799.00	28.92	\$ 80.95
20000-017354	Panasonic Toughbook ser# 3KTYA38219	11/1/2014	12/31/2018	\$ 2,799.00	28.92	\$ 80.95
20000-017355	Panasonic Toughbook ser# 3KTYA38229	11/1/2014	12/31/2018	\$ 2,799.00	28.92	\$ 80.95
20000-017356	Panasonic Toughpad FZ-G1 & Infocase X-St	11/1/2014	12/31/2018	\$ 2,398.18	28.92	\$ 69.36
20000-017717-001	Toughbook Adapters (5)	3/1/2015	12/31/2018	\$ 374.93	28.92	\$ 10.84
20000-019257.6	iPad Air 2 64G: IMEI Number 352068070765	6/1/2016	6/30/2018	\$ 449.72	28.92	\$ 13.01
20000-04525.12	AMR Replacement - IS Time	12/1/2000	6/30/2018	\$ 1,102.87	28.92	\$ 31.90
20000-05691.1	BNA - Conversion from Macola - Data Conv	9/1/2004	6/30/2018	\$ 17,150.00	28.92	\$ 495.98
20000-05691.2	BNA - Conversion from Macola - IS Overhe	9/1/2004	6/30/2018	\$ 983.86	28.92	\$ 28.45
20000-05692.31	BNA Fixed Assets Server Base Product plu	9/1/2004	6/30/2018	\$ 9,835.00	28.92	\$ 284.43
20000-05692.32	BNA Fixed Assets Report Writer - (3) Lic	9/1/2004	6/30/2018	\$ 1,325.00	28.92	\$ 38.32
PWW003050	PDF Converter Pro Software	9/1/2006	9/30/2018	\$ 1,183.90	28.92	\$ 34.24
PWW003052	Laptop Computer for Engineering Departme	9/1/2006	6/30/2018	\$ 6,577.61	28.92	\$ 190.22
Subtotal: COMPUTER EQUIPMENT				\$ 372,606.40		\$ 10,775.78
Asset Type: COMPUTER SOFTWARE						
<small>Asset GL Acct #: 347110-2000-001</small>						
20000-004080	PC VIRUS BLUE"SOFTWARE"	10/1/1998	6/30/2018	\$ 1,567.66	28.92	\$ 45.34
20000-005844	COMPUTER ASSOCIATE eTRUST ANTIVIRUS	4/1/2005	6/30/2018	\$ 1,329.12	28.92	\$ 38.44
20000-006232	SOFTWARE SUPPORT FOR HF NET CHK PRO USER	2/1/2006	6/30/2018	\$ 2,511.60	28.92	\$ 72.64
20000-006374	NUMARA SOFTWARE	6/1/2006	6/30/2018	\$ 1,721.00	28.92	\$ 49.77
20000-007769	NETWORK PC SOFTWARE FOR SECURITY	12/1/2007	6/30/2018	\$ 7,214.39	28.92	\$ 208.64
20000-008956	OPS32 Upgrade - IS Overhead	12/1/2009	6/30/2018	\$ 5,538.36	28.92	\$ 160.17
20000-008957	OPS32 Upgrade - Upgrade OPS32/EZ to WM S	12/1/2009	6/30/2018	\$ 300.00	28.92	\$ 8.68
20000-008958	OPS32 Upgrade - Programming	12/1/2009	6/30/2018	\$ 309.95	28.92	\$ 8.96
20000-008959.1	OPS32 Upgrade - (8) USB Communications C	12/1/2009	6/30/2018	\$ 120.00	28.92	\$ 3.47
20000-008959.2	OPS32 Upgrade - (8) Single Slot Cradle K	12/1/2009	6/30/2018	\$ 1,082.00	28.92	\$ 31.29
20000-008959.4	OPS32 Upgrade - (8) MC55 Mobile Computer	12/1/2009	6/30/2018	\$ 10,142.16	28.92	\$ 293.31
20000-009723	Virtualization - Veeam Back Up & Replica	8/1/2010	9/30/2018	\$ 1,951.08	28.92	\$ 56.43
20000-009731	MS SQL 2008 License	8/1/2010	9/30/2018	\$ 1,655.91	28.92	\$ 47.89
20000-009930	VPN Data Access - Adaptive Security Appl	9/1/2010	9/30/2018	\$ 2,097.00	28.92	\$ 60.65
20000-009931	VPN Data Access - VPN License	9/1/2010	9/30/2018	\$ 1,857.00	28.92	\$ 53.70
20000-009932	VPN Data Access - Vantecore Professional	9/1/2010	9/30/2018	\$ 780.00	28.92	\$ 22.56
20000-010575	BESR - Saturn - (1) Copy of Symantec	11/1/2010	6/30/2018	\$ 799.98	28.92	\$ 23.14
20000-010601	VPN Data Access - IS Overhead	11/1/2010	9/30/2018	\$ 112.85	28.92	\$ 3.26
20000-010673	Virtualization - Windows Server 2008 R2	12/1/2010	9/30/2018	\$ 4,810.00	28.92	\$ 139.11
20000-010674	Virtualization - Veeam Back Up & Replica	12/1/2010	6/30/2018	\$ 1,171.04	28.92	\$ 33.87
20000-010675	Virtualization - VMware vCenter Site Rec	12/1/2010	9/30/2018	\$ 3,441.66	28.92	\$ 99.53
20000-010676	Virtualization - VMware vSphere Advanced	12/1/2010	9/30/2018	\$ 4,415.16	28.92	\$ 127.69

Town or Department: Amherst

20000-010879	Sophos Antivirus Software	12/1/2010	12/31/2018	\$ 4,125.00	28.92	\$ 119.30
20000-015258	3 Additional Licenses for BNA	11/2/2013	6/30/2018	\$ 6,894.00	28.92	\$ 199.37
Subtotal: COMPUTER EQUIPMENT				\$ 65,946.92		\$ 1,907.18
Subtotal: 34710-2000-001				\$ 438,553.32		\$ 12,682.96
Subtotal: Merrimack				\$ 691,600.52		\$ 20,001.09

Town or Department: Milford

Asset Type: OTHER PRODUCTION EQUIPMENT

Asset GL Acct #: 320100-2000-001						
20700-000103	Ashley Commons: Milford - 15,000 Gallon	8/31/1990	12/31/2018	\$ 3,491.00	35.83	\$ 125.08
Subtotal: 320100-2000-001				\$ 3,491.00		\$ 125.08

Asset Type: METERS

Asset GL Acct #: 334000-2000-001						
20000-005558.5	5/8 METERS: BADGER HILL 1 RENEWED"	8/1/2004	8/31/2018	\$ 114.75	35.83	\$ 4.11
20000-005558.6	5/8 METERS: BADGER HILL 1 NEW"	12/1/2004	8/31/2018	\$ 154.07	35.83	\$ 5.52
20000-006224	5/8 METERS: BADGER HILL 1 RENEWED"	2/1/2006	9/30/2018	\$ 143.42	35.83	\$ 5.14
20000-006360	5/8 METERS: FEDERAL HILL 3 - NEW"	6/1/2006	10/31/2018	\$ 407.74	35.83	\$ 14.61
20000-47811.2	5/8 Meters: Badger Hill: Milford (1)"	8/1/2001	8/31/2018	\$ 109.90	35.83	\$ 3.94
20000-5335.1.7	5/8 Meters: Badger Hill: Milford - (1)	3/1/2003	12/31/2018	\$ 140.00	35.83	\$ 5.02
PWW003129	5/8 METERS: FEDERAL HILL 1 NEW"	9/1/2006	8/31/2018	\$ 226.95	35.83	\$ 8.13
Subtotal: 334000-2000-001				\$ 1,296.83		\$ 46.47
Subtotal: Milford				\$ 4,787.83		\$ 171.55

Town or Department: Nashua

Asset Type: SOURCE OF SUPPLY STRUCTURES

Asset GL Acct #: 304100-2000-001						
20000-007479	D&M STATION FURNACE REPLACEMENT	6/1/2007	12/31/2018	\$ 2,052.00	27.81	\$ 57.07
Subtotal: 304100-2000-001				\$ 2,052.00		\$ 57.07

Asset Type: POWER & PUMPING STRUCTURES

Asset GL Acct #: 304200-2000-001						
20000-000483	SUSPENDED CEILING & LIGHTS FOR-D&M AND S	7/1/1970	12/31/2018	\$ 2,601.47	27.81	\$ 72.35
20000-000489	SNOW STATION ROOF REPAIR-	7/1/1984	12/31/2018	\$ 4,100.00	27.81	\$ 114.02
20000-004606.4	Air Compressors - Preventive Maintenanc	6/1/2000	12/31/2018	\$ 477.39	27.81	\$ 13.28
Subtotal: 304200-2000-001				\$ 7,178.86		\$ 199.64

Asset Type: POWER & PUMPING STRUCTURES

Asset GL Acct #: 304201-2000-001						
20000-002924	WIRE GENERATOR BLOCK HEATER IN-BOAT HOUS	12/31/1995	12/31/2018	\$ 243.69	27.81	\$ 6.78
20000-003332	BOILER REPLACEMENT-SNOW STATION	12/31/1997	12/31/2018	\$ 4,273.50	27.81	\$ 118.85
Subtotal: 304201-2000-001				\$ 4,517.19	55.62	\$ 125.62

Asset Type: BOOSTER STATIONS

Asset GL Acct #: 304550-2000-001						
20000-002887.1	Replaced Contact & Overload Heater -Timb	7/31/1995	12/31/2018	\$ 375.18	27.81	\$ 10.43
20000-003013	CHECK VALVE REPLACEMENTS-TIMBERLINE BOOS	2/29/1996	12/31/2018	\$ 2,207.92	27.81	\$ 61.40
20000-0577.2.2	Timberline Drive: Nashua - Booster Stati	1/1/1985	12/31/2018	\$ 141.20	27.81	\$ 3.93
Subtotal: 304550-2000-001				\$ 2,724.30		\$ 75.76

Asset Type: GENERAL & MISCELLANEOUS STRUCTURES

Asset GL Acct #: 304700-2000-001						
20000-000522	PUMPING STATION OUTDOOR LIGHTS-NON-TAXAB	7/1/1973	12/31/2018	\$ 2,036.94	27.81	\$ 56.65
Subtotal: 304700-2000-001				\$ 2,036.94		\$ 56.65

Asset Type: ELECTRIC PUMPING EQUIPMENT

Asset GL Acct #: 311200-2000-001						
20000-000592	PUMPING EQUIPMENT/ TIMBERLINE-BOOSTER	7/1/1986	6/30/2018	\$ 151,045.25	27.81	\$ 4,200.57
20000-000593	SNOW STATION PUMP.	7/1/1987	6/30/2018	\$ 7,605.18	27.81	\$ 211.50
20000-001026	D & M STATION UPGRADE-	8/1/1988	6/30/2018	\$ 1,738.51	27.81	\$ 48.35
20000-002499	EMERGENCY REPAIR-NEW BOOSTER-PUMP - KESS	12/31/1993	6/30/2018	\$ 6,409.39	27.81	\$ 178.25
20000-002659	PARTS TO REBUILD SKY MEADOW-BOOSTER PUMP	5/9/1994	6/30/2018	\$ 498.00	27.81	\$ 13.85
20000-002848	Timberline Booster Station: Nashua - (2)	5/31/1995	6/30/2018	\$ 8,103.19	27.81	\$ 225.35
20000-002925	ELECTRICAL COMPONENTS REPLACED-FOR START	12/29/1995	12/31/2018	\$ 746.86	27.81	\$ 20.77
20000-003200	15HP INDUSTRIAL MOTOR-	1/30/1997	12/31/2018	\$ 511.00	27.81	\$ 14.21
20000-003223	SCADA PHASE III-	12/31/1997	12/31/2018	\$ 3,551.78	27.81	\$ 98.78
20000-003334	TIMBERLINE ELECTRICAL UPGRADE-	12/31/1997	6/30/2018	\$ 18,887.40	27.81	\$ 525.26
20000-004001	TIMBERLINE ELECTRICAL UPGRADE-	4/1/1998	6/30/2018	\$ 2,076.07	27.81	\$ 57.74
20000-004098	SUMP PUMP WTP-	12/1/1998	6/30/2018	\$ 156.50	27.81	\$ 4.35
20000-004374	SOFTWARE/SUPPORT PLCS-IN THE FIELD	10/1/1999	6/30/2018	\$ 1,100.00	27.81	\$ 30.59
20000-005384	Timberline: Nashua - 300 HP Pump Rebuild	5/1/2003	6/30/2018	\$ 7,260.00	27.81	\$ 201.90
20000-005384.1	Timberline: Nashua - 300 HP Pump Repairs	6/1/2003	6/30/2018	\$ 286.32	27.81	\$ 7.96
20000-005602.1	PULSATOR TURBIDIMETERS	5/1/2004	6/30/2018	\$ 660.98	27.81	\$ 18.38
20000-005602.2	PULSATOR TURBIDIMETERS	6/1/2004	6/30/2018	\$ 98.00	27.81	\$ 2.73
20000-007928.1	Headworks - Jet Pumps - Contract #4	5/1/2008	6/30/2018	\$ 59,400.00	27.81	\$ 1,651.91
20000-007928.2	Headworks - Install Jet Pumps - Contract	5/1/2008	6/30/2018	\$ 2,000.00	27.81	\$ 55.62
Subtotal: 311200-2000-001				\$ 272,134.43		\$ 7,568.06

Asset Type: HYDRAULIC PUMPING EQUIPMENT

Asset GL Acct #: 311400-2000-001						
20000-000606	REPLACE 48 VALVE ON PENSTOCK-"	7/1/1968	6/30/2018	\$ 6,348.46	27.81	\$ 176.55
20000-000608	BY-PASS AROUND 48 VALVE ON-PENSTOCK"	7/1/1964	6/30/2018	\$ 971.94	27.81	\$ 27.03
Subtotal: 311400-2000-001				\$ 7,320.40		\$ 203.58

Asset Type: NATURAL GAS PUMPING EQUIPMENT

Asset GL Acct #: 311500-2000-001						
20000-000616	500 HP CATERPILLAR DIESEL ENGINE, WORTH	1/1/1966	6/30/2018	\$ 46,625.66	27.81	\$ 1,296.66
20000-000616.1	500 HP CATERPILLAR DIESEL-ENGINE, WORTH	1/1/1980	6/30/2018	\$ 1,135.00	27.81	\$ 31.56
20000-002063	Snow Station: WTP - Rebuild CAT Pumping	12/31/1989	6/30/2018	\$ 45,884.27	27.81	\$ 1,276.04
Subtotal: 311500-2000-001				\$ 93,644.93		\$ 2,604.27

Asset Type: OTHER POWER PUMPING EQUIPMENT

Asset GL Acct #: 311600-2000-001						
20000-001022.5	1/4 & 300 CBM Gage	2/24/1988	6/30/2018	\$ 185.00	27.81	\$ 5.14
20000-005182	Hazardous Gas Detector for WTP	12/1/2002	6/30/2018	\$ 2,001.18	27.81	\$ 55.65
Subtotal: 311600-2000-001				\$ 2,186.18		\$ 60.80

Asset Type: PURIFICATION SYSTEM EQUIPMENT

Town or Department: Amherst

2000-723.3.113	Taylor Street: Nashua - 24' Of 6" CI	1/1/1971	12/31/2018	\$ 30.46	27.81	\$ 0.85
2000-723.3.141	Faxon Street: Nashua - 38' of 6" CI	1/1/1971	6/30/2018	\$ 48.22	27.81	\$ 1.34
2000-723.3.144	Pratt Street: Nashua - 305' Of 6" CI	1/1/1971	6/30/2018	\$ 387.05	27.81	\$ 10.76
2000-723.3.194	Taylor Street: Nashua - 398' Of 6" CI	1/1/1971	12/31/2018	\$ 505.06	27.81	\$ 14.05
2000-723.3.234	Buchanan Street: Nashua - 173' of 6" CI	1/1/1971	6/30/2018	\$ 219.54	27.81	\$ 6.11
2000-723.3.254	Russell Avenue: Nashua - 186' Of 6 CI"	1/1/1971	9/30/2018	\$ 236.03	27.81	\$ 6.56
2000-723.3.274	Lincoln Avenue: Nashua - 192' of 6" CI	1/1/1971	6/30/2018	\$ 243.65	27.81	\$ 6.78
2000-723.3.291	Buchanan Street: Nashua - 237' of 6" CI	1/1/1971	6/30/2018	\$ 300.75	27.81	\$ 8.36
2000-723.3.332	Fowell Avenue: Nashua - 540' Of 6" CI	1/1/1971	6/30/2018	\$ 685.26	27.81	\$ 19.06
2000-723.3.381	Revere Street: Nashua - 144' of 6" CI	1/1/1971	9/30/2018	\$ 182.74	27.81	\$ 5.08
2000-723.3.393	Field Street: Nashua - 306' Of 6" CI	1/1/1971	9/30/2018	\$ 388.31	27.81	\$ 10.80
2000-723.3.412	Taylor Street: Nashua - 250' of 6" CI	1/1/1971	12/31/2018	\$ 317.25	27.81	\$ 8.82
2000-723.3.431	Fernwood Street: Nashua - 144' of 6" CI	1/1/1971	9/30/2018	\$ 182.74	27.81	\$ 5.08
2000-723.3.432	Fowell Avenue: Nashua - 252' Of 6" CI	1/1/1971	6/30/2018	\$ 319.79	27.81	\$ 8.89
2000-723.3.434	Revere Street: Nashua - 401' of 6" CI	1/1/1971	9/30/2018	\$ 508.87	27.81	\$ 14.15
2000-723.3.441	Revere Street: Nashua - 84' Of 6" CI	1/1/1971	9/30/2018	\$ 106.60	27.81	\$ 2.96
2000-723.3.462	Fernwood Street: Nashua - Field St South	1/1/1971	9/30/2018	\$ 156.09	27.81	\$ 4.34
2000-723.3.463	Field Street: Nashua - 71' Of 6" CI	1/1/1971	9/30/2018	\$ 90.10	27.81	\$ 2.51
2000-723.3.464	Fowell Avenue: Nashua - 105' Of 6" CI	1/1/1971	6/30/2018	\$ 133.25	27.81	\$ 3.71
2000-723.3.511	Burnett Street: Nashua - 45' N. Of E. Du	1/1/1971	9/30/2018	\$ 611.66	27.81	\$ 17.01
2000-723.3.524-001	Rice Street: Nashua - Burnett St Westerl	1/1/1971	9/30/2018	\$ 25.38	27.81	\$ 0.71
2000-723.3.582	Stevens Street: Nashua - 94' Of 6" CI	1/1/1971	9/30/2018	\$ 119.29	27.81	\$ 3.32
2000-723.3.594	Fossa Avenue: Nashua - 282' of 6" CI	1/1/1971	9/30/2018	\$ 357.86	27.81	\$ 9.95
2000-723.3.612	Stevens Street: Nashua - 48' Of 6" CI	1/1/1971	9/30/2018	\$ 60.91	27.81	\$ 1.69
2000-723.3.661	Stevens Street: Nashua - 24' Of 6" CI	1/1/1971	9/30/2018	\$ 30.46	27.81	\$ 0.85
2000-723.3.662	Stevens Street: Nashua - 250' Of 6" CI	1/1/1971	9/30/2018	\$ 317.25	27.81	\$ 8.82
2000-723.3.811	Revere Street: Nashua - 85' Of 6" CI	1/1/1971	9/30/2018	\$ 107.87	27.81	\$ 3.00
2000-723.3.824-001	Taylor Street: Nashua - 13' Of 6" CI	1/1/1971	12/31/2018	\$ 16.97	27.81	\$ 0.47
2000-723.3.871	Pratt Street: Nashua - 71' Of 6" CI	1/1/1971	6/30/2018	\$ 90.10	27.81	\$ 2.51
2000-723.3.872-001	Revere Street: Nashua - 85' Of 6" CI	1/1/1971	9/30/2018	\$ 57.11	27.81	\$ 1.59
2000-723.3.881	Stevens Street: Nashua - 161' Of 6" CI	1/1/1971	9/30/2018	\$ 204.31	27.81	\$ 5.68
2000-723.3.963	Fernwood Street: Nashua - 95' S Of S. Li	1/1/1971	9/30/2018	\$ 233.50	27.81	\$ 6.49
Subtotal: 331200-2000-001				\$ 33,576.44	\$ 933.76	

Asset Type: DISTRIBUTION MAINS - GATES

Asset GL Acct #: 331250-2000-001						
20000-002122.1	Mulvanity Street: Nashua - 2" Gate Valve	12/1/1990	6/30/2018	\$ 776.60	27.81	\$ 21.60
Subtotal: 331250-2000-001				\$ 776.60	\$ 21.60	

Asset Type: SERVICES - PAVING

Asset GL Acct #: 333004-2000-001						
20000-013257	Lund Rd. (#115), Nashua - Services - Pav	8/1/2012	12/31/2018	\$ 614.70	27.81	\$ 17.09
2000-5333.2.92	Pine Street (#236): Nashua - Paving for	11/1/2003	9/30/2018	\$ 681.50	27.81	\$ 18.95
Subtotal: 333004-2000-001				\$ 1,296.20	\$ 36.05	

Asset Type: SERVICES

Asset GL Acct #: 333100-2000-001						
20000-000731.9-006	1" CT Services	1/1/1986	9/30/2018	\$ 199.10	27.81	\$ 5.54
20000-002873.1	Conant Road (#104): Nashua - 3/4 CT Serv	9/30/1995	12/31/2018	\$ 579.19	27.81	\$ 16.11
20000-0741.222	Arlington Street (#22): Nashua - 1 CT Se	7/1/1930	6/30/2018	\$ 54.60	27.81	\$ 1.52
20000-0745.868	West Allds Street (#1-3): Nashua - 1 CL..	7/1/1935	6/30/2018	\$ 17.58	27.81	\$ 0.49
20000-735.1.83	Pioneer Drive (#72): Nashua - 3/4 CT Ser	1/1/1979	12/31/2018	\$ 224.39	27.81	\$ 6.24
2000-731.2.223-022	Progress Ave (#13): Nashua - 1" CT	1/1/1979	12/31/2018	\$ 69.40	27.81	\$ 1.93
2000-731.2.223-023	Cushing Avenue (#40): Nashua - 1" CT	1/1/1979	12/31/2018	\$ 45.82	27.81	\$ 1.27
2000-731.2.223-024	Concord St (#124): Nashua - 1" CT	1/1/1979	12/31/2018	\$ 45.82	27.81	\$ 1.27
2000-732.2.222-147	Century Road (#10): Nashua - 3/4" CT	1/1/1979	12/31/2018	\$ 71.99	27.81	\$ 2.00
2000-732.7.848	Pine Hill Road (#82): Nashua - 3/4 CT Se	1/1/1984	12/31/2018	\$ 346.14	27.81	\$ 9.63
2000-8240.521	Coburn Woods (#69): Nashua - 3/4 CT Serv	12/1/2008	9/30/2018	\$ 413.95	27.81	\$ 11.51
Subtotal: 333100-2000-001				\$ 2,067.98	\$ 57.51	

Asset Type: RENEWED SERVICES

Asset GL Acct #: 333200-2000-001						
20000-013083	Lund Road (#115): Nashua - 1 Renewed Se	6/1/2012	12/31/2018	\$ 4,726.40	27.81	\$ 131.44
20000-5331.6.8	Pine Street (#236): Nashua - 1 CT Renewe	10/1/2003	9/30/2018	\$ 1,104.99	27.81	\$ 30.73
Subtotal: 333200-2000-001				\$ 5,831.39	\$ 162.17	

Asset Type: PWW METERS

Asset GL Acct #: 334000-2000-001						
200-0000002	5/8" New Meter: Southwest High Pressure	1/1/2017	8/31/2018	\$ 265.93	27.81	\$ 7.40
20000-000750.8-002	5/8 Meters: Nashua - (2)	1/1/1986	3/1/2018	\$ 159.93	27.81	\$ 4.45
20000-001031.5-001	5/8 Meters: Nashua - (45)	7/1/1988	8/31/2018	\$ 3,028.00	27.81	\$ 84.21
20000-001031.5-002	5/8 Meters: Nashua - (42)	7/1/1988	8/31/2018	\$ 2,826.13	27.81	\$ 78.59
20000-001031.5-003	5/8 Meters: Nashua - (24)	7/1/1988	9/30/2018	\$ 1,614.93	27.81	\$ 44.91
20000-001031.5-004	5/8 Meters: Nashua - (12)	7/1/1988	10/31/2018	\$ 807.46	27.81	\$ 22.46
20000-001031.5-005	5/8 Meters: Nashua - 6	7/1/1988	12/31/2018	\$ 403.73	27.81	\$ 11.23
20000-001031.7-002	5/8 Meters: Nashua - 3	7/1/1988	3/31/2018	\$ 201.87	27.81	\$ 5.61
200-0001979	5/8" New Meter: High Pine Pressure Syste	1/1/2018	8/31/2018	\$ 238.47	27.81	\$ 6.63
20000-002024.6-001	5/8 Meters: Nashua - (128)	12/31/1989	8/31/2018	\$ 12,510.72	27.81	\$ 347.92
20000-002024.7-001	5/8 Meters: Nashua - (83)	12/31/1989	8/31/2018	\$ 8,112.42	27.81	\$ 225.61
20000-002024.7-002	5/8 Meters: Nashua - (28)	12/31/1989	9/30/2018	\$ 2,736.72	27.81	\$ 76.11
20000-002024.7-003	5/8 Meters: Nashua - 8	12/31/1989	12/31/2018	\$ 781.92	27.81	\$ 21.75
20000-002024.9-001	5/8 Meters: Nashua - (10)	12/31/1989	3/31/2018	\$ 977.20	27.81	\$ 27.18
20000-002106.7-001	5/8 Meters: Nashua - (141)	12/31/1990	8/31/2018	\$ 13,803.72	27.81	\$ 383.88
20000-002106.8-001	5/8 Meters: Nashua - (107)	12/31/1990	8/31/2018	\$ 10,475.16	27.81	\$ 291.31
20000-002106.8-002	5/8 Meters: Nashua - (66)	12/31/1990	9/30/2018	\$ 6,461.31	27.81	\$ 179.69
20000-002106.9-001	5/8 Meters: Nashua - 132	12/31/1990	12/31/2018	\$ 12,777.44	27.81	\$ 355.34
200-00002142	5/8" New Meter: High Pine Pressure Syste	2/1/2018	8/31/2018	\$ 159.66	27.81	\$ 4.44
20000-002202.6	5/8 Meters: Nashua - (38)	12/31/1991	8/31/2018	\$ 3,754.87	27.81	\$ 104.42
20000-002202.6-001	5/8 Meters: Nashua - (50)	12/31/1991	8/31/2018	\$ 4,940.61	27.81	\$ 137.40
20000-002202.7-001	5/8 Meters: Nashua - (29)	12/31/1991	8/31/2018	\$ 2,865.56	27.81	\$ 79.69
20000-002202.8-002	5/8 Meters: Nashua - (61)	12/31/1991	9/30/2018	\$ 6,027.55	27.81	\$ 167.63
20000-002202.8-003	5/8 Meters: Nashua - (23)	12/31/1991	10/31/2018	\$ 2,272.68	27.81	\$ 63.20
20000-002203.5	3/4 Meters: Nashua - (2)	12/31/1991	9/30/2018	\$ 250.42	27.81	\$ 6.96
20000-002203.5-001	3/4 Meters: Nashua - (1)	12/31/1991	8/31/2018	\$ 125.21	27.81	\$ 3.48
20000-002203.9	3/4 Meters: Nashua - (5)"	12/31/1991	9/30/2018	\$ 626.17	27.81	\$ 17.41
20000-002313.5	1.5 Meters: Nashua - (4) Renewed"	12/31/1992	8/31/2018	\$ 1,283.28	27.81	\$ 35.69
20000-002315.4-001	3/4 Meters: Nashua - (2)	12/31/1992	8/31/2018	\$ 250.76	27.81	\$ 6.97
20000-002315.4-002	3/4 Meters: Nashua - (3)	12/31/1992	9/30/2018	\$ 376.14	27.81	\$ 10.46

DW 19-084 PWW Rate Case
Revenue Requirement and Rates Compliance Filing
Attachment 2a

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20000-002315.4-003	3/4 Meters: Nashua - (4)	12/31/1992	12/31/2018	\$ 501.52	27.81	\$ 13.95
20000-002315.6-001	3/4 Meters: Nashua - (7)	12/31/1992	10/31/2018	\$ 877.66	27.81	\$ 24.41
20000-002316.6	5/8 Meters: Nashua - 8	12/31/1992	12/31/2018	\$ 728.09	27.81	\$ 20.25
20000-002316.6-001	5/8 Meters: Nashua - 33	12/31/1992	8/31/2018	\$ 3,003.37	27.81	\$ 83.52
20000-002316.6-003	5/8 Meters: Nashua - 7	12/31/1992	8/31/2018	\$ 637.08	27.81	\$ 17.72
20000-002316.6-004	5/8 Meters: Nashua - (9)	12/31/1992	8/31/2018	\$ 819.10	27.81	\$ 22.78
20000-002316.6-005	5/8 Meters: Nashua - (22)	12/31/1992	10/31/2018	\$ 2,002.25	27.81	\$ 55.68
20000-002838.5	5/8 Meters: Nashua - (17)	12/31/1995	8/31/2018	\$ 2,113.03	27.81	\$ 58.76
20000-002838.5-002	5/8 Meters: Nashua - (3)	12/31/1995	3/31/2018	\$ 372.89	27.81	\$ 10.37
20000-002838.5-003	5/8 Meters: Nashua - 9	12/31/1995	8/31/2018	\$ 1,118.66	27.81	\$ 31.11
20000-002838.5-004	5/8 Meters: Nashua - (8)	12/31/1995	8/31/2018	\$ 994.36	27.81	\$ 27.65
20000-003306	6 Meters: Nashua - (1) New"	9/30/1997	8/31/2018	\$ 2,398.75	27.81	\$ 66.71
20000-004570.8-001	5/8 METERS- (4)	12/1/2000	8/31/2018	\$ 518.37	27.81	\$ 14.42
20000-004570.8-002	5/8 METERS (24)	12/1/2000	9/30/2018	\$ 3,110.23	27.81	\$ 86.50
20000-004703.4-001	1.5 Meters: Nashua - (1) New	5/1/2001	9/30/2018	\$ 411.06	27.81	\$ 11.43
20000-005016.6	1 METERS: NASHUA 1 - RENEWED"	9/1/2002	10/31/2018	\$ 173.70	27.81	\$ 4.83
20000-005549-001	3/4 Meters: Nashua - (2) Renew	1/1/2004	8/31/2018	\$ 315.11	27.81	\$ 8.76
20000-005771	3/4 METERS: NASHUA - 1 RENEWED"	1/1/2005	10/31/2018	\$ 152.55	27.81	\$ 4.24
20000-006078.2	3 Meters: Nashua - (1) Renewed no UME"	11/1/2005	10/31/2018	\$ 382.54	27.81	\$ 10.64
20000-006196	1 Meters: Nashua - (4) Renewed"	1/1/2006	10/31/2018	\$ 879.02	27.81	\$ 24.45
20000-006197	1.5 Meters: Nashua - (1) Renewed"	1/1/2006	10/31/2018	\$ 380.62	27.81	\$ 10.59
20000-006317	2 METERS: NASHUA 3 NEW"	5/1/2006	10/31/2018	\$ 1,415.96	27.81	\$ 39.38
20000-007314	1 METERS: NASHUA 1 NEW"	1/1/2007	10/31/2018	\$ 387.54	27.81	\$ 10.78
20000-007331	1 METERS: CORE 1 NEW"	2/1/2007	10/31/2018	\$ 276.04	27.81	\$ 7.68
2000-000750.6-001	5/8 Meters: Nashua - (3)	1/1/1985	8/31/2018	\$ 239.11	27.81	\$ 6.65
2000-000750.6-002	5/8 Meters: Nashua - (5)	1/1/1985	8/31/2018	\$ 398.52	27.81	\$ 11.08
2000-000750.6-003	5/8 Meters: Nashua - (1)	1/1/1985	8/31/2018	\$ 79.70	27.81	\$ 2.22
2000-000750.6-004	5/8 Meters: Nashua - (3)	1/1/1985	9/30/2018	\$ 239.11	27.81	\$ 6.65
2000-000750.6-005	5/8 Meters: Nashua - (1)	1/1/1985	10/31/2018	\$ 79.70	27.81	\$ 2.22
2000-000750.6-006	5/8 Meters: Nashua - (2)	1/1/1985	12/31/2018	\$ 159.41	27.81	\$ 4.43
2000-000750.6-007	5/8 Meters: Nashua - (58)	1/1/1985	12/31/2018	\$ 4,622.83	27.81	\$ 128.56
2000-000750.7	5/8 Meters: Nashua - (155)	1/1/1985	12/31/2018	\$ 12,354.10	27.81	\$ 343.57
2000-000750.8	5/8 Meters: Nashua - (155)	1/1/1985	12/31/2018	\$ 12,354.10	27.81	\$ 343.57
20000-00751.77	3/4 Meters: Nashua - (2)"	7/1/1977	8/31/2018	\$ 150.92	27.81	\$ 4.20
20000-00751.78	3/4 Meters: Nashua - (2)"	7/1/1977	8/31/2018	\$ 150.92	27.81	\$ 4.20
20000-00751.79	3/4 Meters: Nashua - (1)"	7/1/1977	8/31/2018	\$ 75.47	27.81	\$ 2.10
20000-007782-001	5/8 METERS: CORE & COMM SYS (1) NEW	1/1/2008	9/30/2018	\$ 161.02	27.81	\$ 4.48
20000-007885	1 METERS: COMM SYS 1 NEW	4/1/2008	12/31/2018	\$ 268.86	27.81	\$ 7.48
20000-008191-001	5/8 METER: CORE & COMM SYS 1 NEW	11/1/2008	10/31/2018	\$ 117.83	27.81	\$ 3.28
20000-008224-001	5/8 METERS: CORE & COMM SYS (2) RENEWED	12/1/2008	8/31/2018	\$ 223.34	27.81	\$ 6.21
20000-02024.22-001	5/8 Meters: Nashua - (17)	12/31/1989	10/31/2018	\$ 1,636.96	27.81	\$ 45.52
20000-02106.59	5/8 Meters: Nashua - (10)	12/31/1990	12/31/2018	\$ 962.33	27.81	\$ 26.76
20000-02106.59-001	5/8 Meters: Nashua - 12	12/31/1990	3/31/2018	\$ 1,154.80	27.81	\$ 32.11
20000-02108.27	1.5 Meters: Nashua - (3) Renewed"	12/31/1990	10/31/2018	\$ 881.28	27.81	\$ 24.51
20000-02202.42-001	5/8 Meters: Nashua - (42)	12/31/1991	10/31/2018	\$ 3,902.85	27.81	\$ 108.54
20000-02202.95	5/8 Meters: Nashua - (12) no Chambers"	12/31/1991	10/31/2018	\$ 1,034.04	27.81	\$ 28.76
20000-02202.98	5/8 Meters: Nashua - (11) no Chambers"	12/31/1991	10/31/2018	\$ 947.88	27.81	\$ 26.36
20000-02202.99	5/8 Meters: Nashua - (9) no Chambers"	12/31/1991	10/31/2018	\$ 775.53	27.81	\$ 21.57
20000-02202.99-001	5/8 Meters: Nashua - (2) no Chambers"	12/31/1991	3/31/2018	\$ 172.34	27.81	\$ 4.79
20000-02315.56	3/4 Meters: Nashua - (1) no Chamber"	12/31/1992	8/31/2018	\$ 106.25	27.81	\$ 2.95
20000-02315.57	3/4 Meters: Nashua - (1) no Chamber"	12/31/1992	8/31/2018	\$ 106.25	27.81	\$ 2.95
20000-02316.42	5/8 METERS (10)	12/31/1992	9/30/2018	\$ 866.21	27.81	\$ 24.09
20000-02316.42-001	5/8 METERS (79)	12/31/1992	9/30/2018	\$ 6,843.09	27.81	\$ 190.31
20000-02316.82	5/8 Meters: Nashua - (89) no Chambers"	12/31/1992	9/30/2018	\$ 6,826.41	27.81	\$ 189.84
20000-02316.92	5/8 Meters: Nashua - (97) no Chambers"	12/31/1992	9/30/2018	\$ 6,629.28	27.81	\$ 184.36
20000-02316.92-001	5/8 Meters: Nashua - (1) no Chambers"	12/31/1992	3/31/2018	\$ 68.34	27.81	\$ 1.90
20000-02629.65	5/8 METERS: 7"	12/31/1994	8/31/2018	\$ 733.33	27.81	\$ 20.39
20000-02629.66	5/8 METERS: 7"	12/31/1994	8/31/2018	\$ 733.33	27.81	\$ 20.39
20000-02629.67	5/8 METERS: 7"	12/31/1994	8/31/2018	\$ 733.33	27.81	\$ 20.39
20000-02629.68	5/8 METERS: 7"	12/31/1994	8/31/2018	\$ 733.33	27.81	\$ 20.39
20000-02629.79	5/8 Meters: Nashua - (4) no Chambers	12/31/1994	8/31/2018	\$ 397.84	27.81	\$ 11.06
20000-02629.79-001	5/8 Meters: Nashua - (4) no Chambers	12/31/1994	8/31/2018	\$ 397.84	27.81	\$ 11.06
20000-02629.82	5/8 Meters: Nashua - (7) no Chambers"	12/31/1994	8/31/2018	\$ 696.15	27.81	\$ 19.36
20000-02629.83	5/8 Meters: Nashua - (7) no Chambers"	12/31/1994	8/31/2018	\$ 696.15	27.81	\$ 19.36
20000-02629.84	5/8 Meters: Nashua - (7) no Chambers"	12/31/1994	8/31/2018	\$ 696.15	27.81	\$ 19.36
20000-02629.89	5/8 Meters: Nashua - (6) no Chambers	12/31/1994	8/31/2018	\$ 596.70	27.81	\$ 16.59
20000-02629.89-001	5/8 Meters: Nashua - (2)	12/31/1994	8/31/2018	\$ 198.90	27.81	\$ 5.53
2000004251.322	5/8 Meters: Nashua - (2)"	12/1/1999	8/31/2018	\$ 278.94	27.81	\$ 7.76
2000004251.324	5/8 Meters: Nashua - (2)"	12/1/1999	8/31/2018	\$ 278.94	27.81	\$ 7.76
20000-04570.94-001	5/8 METERS- (3)	12/1/2000	8/31/2018	\$ 388.78	27.81	\$ 10.81
20000-04570.95	5/8 METERS- 1	12/1/2000	12/31/2018	\$ 129.59	27.81	\$ 3.60
20000-04570.95-001	5/8 METERS- (5)	12/1/2000	3/31/2018	\$ 647.97	27.81	\$ 18.02
20000-04570.96-001	5/8 METERS- 5	12/1/2000	8/31/2018	\$ 647.97	27.81	\$ 18.02
20000-04570.97	5/8 METERS- 6"	12/1/2000	8/31/2018	\$ 777.56	27.81	\$ 21.62
20000-04704.22	3/4 METERS: NASHUA 1 - RENEWED"	1/1/2001	10/31/2018	\$ 72.43	27.81	\$ 2.01
20000-05772.3	1 Meters: Nashua - (1) Renewed	6/1/2005	12/31/2018	\$ 132.41	27.81	\$ 3.68
20000-05772.2	1 Meters: Nashua - (2) Renewed"	1/1/2005	10/31/2018	\$ 739.94	27.81	\$ 20.58
20000-2106.459	5/8 METERS: 3"	12/31/1990	10/31/2018	\$ 290.01	27.81	\$ 8.07
20000-2106.5	5/8 Meters: Nashua - (2)"	12/31/1990	10/31/2018	\$ 227.09	27.81	\$ 6.32
20000-2106.522	5/8 Meters: Nashua - (22) no Chambers"	12/31/1990	10/31/2018	\$ 1,788.42	27.81	\$ 49.74
20000-2107.228	3/4 Meters: Nashua - (2) Renewed"	12/31/1990	8/31/2018	\$ 248.46	27.81	\$ 6.91
20000-2107.229	3/4 Meters: Nashua - (2) Renewed"	12/31/1990	8/31/2018	\$ 248.46	27.81	\$ 6.91
2000-02109.223	1 Meters: Nashua - (1)	9/30/1990	10/31/2018	\$ 151.68	27.81	\$ 4.22
20000-2202.22	5/8 Meters: Nashua - (28)	12/31/1991	12/31/2018	\$ 2,319.39	27.81	\$ 64.50
20000-2412.422	5/8 METERS: 8"	12/31/1993	8/31/2018	\$ 845.28	27.81	\$ 23.51
20000-2412.423	5/8 METERS: 8"	12/31/1993	8/31/2018	\$ 845.28	27.81	\$ 23.51
20000-2412.424	5/8 METERS: 8"	12/31/1993	8/31/2018	\$ 845.28	27.81	\$ 23.51
20000-2412.425	5/8 METERS: 8"	12/31/1993	8/31/2018	\$ 845.28	27.81	\$ 23.51
20000-2412.428-001	5/8 METERS (5)	12/31/1993	9/30/2018	\$ 528.31	27.81	\$ 14.69
20000-2413.222-001	3/4 Meters: Nashua - (1) Renewed	12/31/1993	8/31/2018	\$ 139.19	27.81	\$ 3.87
20000-2413.222-002	3/4 Meters: Nashua - (3) Renewed	12/31/1993	8/31/2018	\$ 417.56	27.81	\$ 11.61
20000-2413.222-003	3/4 Meters: Nashua - (3) Renewed	12/31/1993	9/30/2018	\$ 417.56	27.81	\$ 11.61
20000-2413.222-004	3/4 Meters: Nashua - (1) Renewed	12/31/1993	10/31/2018	\$ 139.19	27.81	\$ 3.87
20000-2413.222-005	3/4 Meters: Nashua - 1 Renewed	12/31/1993	12/31/2018	\$ 139.19	27.81	\$ 3.87
20000-2413.222-006	3/4 Meters: Nashua - (3) Renewed	12/31/1993	12/31/2018	\$ 417.56	27.81	\$ 11.61
20000-2629.523-002	5/8 Meters: Nashua - (1) no Chambers"	12/31/1994	3/31/2018	\$ 99.43	27.81	\$ 2.77
20000-2629.523-003	5/8 Meters: Nashua - (3) no Chambers	12/31/1994	8/31/2018	\$ 298.29	27.81	\$ 8.30
20000-2629.524	5/8 Meters: Nashua - (7) no Chambers"	12/31/1994	8/31/2018	\$ 696.01	27.81	\$ 19.36

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20000-2629.525	5/8 Meters: Nashua - (7) no Chambers"	12/31/1994	8/31/2018	\$ 696.01	27.81	\$ 19.36
20000-2629.526	5/8 Meters: Nashua - (7) no Chambers"	12/31/1994	8/31/2018	\$ 696.01	27.81	\$ 19.36
20000-2629.527	5/8 Meters: Nashua - (7) no Chambers"	12/31/1994	8/31/2018	\$ 696.01	27.81	\$ 19.36
20000-2629.529	5/8 Meters: Nashua - (8) no Chambers"	12/31/1994	8/31/2018	\$ 795.58	27.81	\$ 22.13
2000-03241.222-003	2" Meters: Nashua (1)	12/31/1997	8/31/2018	\$ 520.77	27.81	\$ 14.48
2000-03241.222-004	2" Meters: Nashua (1)	12/31/1997	8/31/2018	\$ 520.77	27.81	\$ 14.48
2000-03241.222-005	2" Meters: Nashua (5)	12/31/1997	10/31/2018	\$ 2,603.83	27.81	\$ 72.41
2000-04571.222-003	3/4 Meters: Nashua - 1	12/1/2000	3/31/2018	\$ 156.63	27.81	\$ 4.36
20000-5226.6.5	1 Meters: Nashua - (2)"	6/1/2003	10/31/2018	\$ 493.68	27.81	\$ 13.73
2000-05229.4.6	5/8 Meters: Nashua - (2)"	4/1/2003	9/30/2018	\$ 200.35	27.81	\$ 5.57
2000-05229.4.7	5/8 Meters: Nashua - (2)"	4/1/2003	9/30/2018	\$ 200.35	27.81	\$ 5.57
2000-750.3-001	5/8 Meters: Nashua - (3)	1/1/1987	3/1/2018	\$ 237.46	27.81	\$ 6.60
2000-750.3-002	5/8 Meters: Nashua - (24)	1/1/1987	8/31/2018	\$ 1,899.67	27.81	\$ 52.83
2000-750.3-003	5/8 Meters: Nashua - (5)	1/1/1987	10/31/2018	\$ 395.77	27.81	\$ 11.01
2000-750.53	5/8 Meters: Nashua - (18)"	1/1/1987	8/31/2018	\$ 1,424.70	27.81	\$ 39.62
2000-750.54	5/8 Meters: Nashua - (3)	1/1/1987	12/31/2018	\$ 237.95	27.81	\$ 6.62
2000-750.54-001	5/8 Meters: Nashua - (1)	1/1/1987	8/31/2018	\$ 79.32	27.81	\$ 2.21
2000-750.54-002	5/8 Meters: Nashua - (14)	1/1/1987	9/30/2018	\$ 1,110.43	27.81	\$ 30.88
2000-750.671	5/8 Meters: Nashua - (2)	1/1/1987	12/31/2018	\$ 158.30	27.81	\$ 4.40
Subtotal: 334000-2000-001				\$ 225,452.34		\$ 6,269.83

Asset Type: PWW RADIOS FOR METERING EQUIPMENT

Asset GL Acct #: 334100-2000-001

200-00000014	Neptune Radios: Northwest High Pressure	1/1/2017	8/31/2018	\$ 108.97	27.81	\$ 3.03
200-00000015	Neptune Radios: Fifield High Pressure Sy	1/1/2017	9/30/2018	\$ 150.88	27.81	\$ 4.20
2000-0001963	Neptune Radios: Fifield Tank 31 Bennett	1/1/2018	10/31/2018	\$ 93.89	27.81	\$ 2.61
20000-018764	Neptune Radios: Southwest High Pressure	2/1/2016	8/31/2018	\$ 107.45	27.81	\$ 2.99
Subtotal: 334100-2000-001				\$ 461.19		\$ 12.83

Asset Type: HYDRANTS

Asset GL Acct #: 335000-2000-001

20000-0760.232-001	Hydrants	1/1/1979	9/30/2018	\$ 1,645.64	27.81	\$ 45.77
20000-0760.232-002	Hydrants	1/1/1979	9/30/2018	\$ 1,034.71	27.81	\$ 28.78
20000-0760.232-003	Hydrants	1/1/1979	12/31/2018	\$ 423.74	27.81	\$ 11.78
20000-0760.232-004	Hydrants	1/1/1979	12/31/2018	\$ 1,158.28	27.81	\$ 32.21
Subtotal: 335000-2000-001				\$ 4,262.37		\$ 118.54

Asset Type: OFFICE FURNITURE & EQUIPMENT

Asset GL Acct #: 340100-2000-001

20000-004316	SCADA RACKS-	6/1/1999	12/31/2018	\$ 86.16	27.81	\$ 2.40
20000-004518	FIRESAFE/MEDIA COOLER-	1/1/2000	12/31/2018	\$ 1,560.00	27.81	\$ 43.38
20000-004823	2 SHREDDERS-	12/1/2001	12/31/2018	\$ 1,580.00	27.81	\$ 43.94
20000-005138	OFFICE FURNITURE FOR-MELISSA TOLAND - OP	9/1/2002	12/31/2018	\$ 2,724.70	27.81	\$ 75.77
2000-5561.3.24	Safco Printer Stand - WTP (Becky McEnroe)	6/1/2004	12/31/2018	\$ 58.65	27.81	\$ 1.63
Subtotal: 340100-2000-001				\$ 6,009.51		\$ 167.12

Asset Type: DUMP TRUCK

Asset GL Acct #: 341100-2000-001

340100-2000-001						
200-00001334	#363 - Heavy Dump Truck Replacement (#86	12/1/2017	12/31/2018	\$ 517.20	27.81	\$ 14.38
200-00003175	#363 Heavy Dump Truck (correction)	1/1/2018	12/31/2018	\$ (24.44)	27.81	\$ (0.68)
Subtotal: DUMP TRUCK				\$ 492.76		\$ 13.70

Asset Type: FOREMAN TRUCK

Asset GL Acct #: 341000-2000-001

20000-013226	2012 International Terrastar #48-11' Rea	7/1/2012	8/31/2018	\$ 2,447.53	27.81	\$ 68.07
20000-013228	2012 International Terrastar #48-11' Rea	7/1/2012	8/31/2018	\$ 1,674.60	27.81	\$ 46.57
20000-013231	2012 International Terrastar #48-11' Rea	7/1/2012	8/31/2018	\$ 21.25	27.81	\$ 0.59
20000-013234	2012 International Terrastar #48 - Forem	7/1/2012	8/31/2018	\$ 700.00	27.81	\$ 19.47
20000-013236	2012 International Terrastar #48 - Fore	7/1/2012	8/31/2018	\$ 784.50	27.81	\$ 21.82
20000-013237	2012 International Terrastar #48-11' Rea	7/1/2012	8/31/2018	\$ 38,751.98	27.81	\$ 1,077.69
20000-013239	2012 International Terrastar #48-11' Rea	7/1/2012	8/31/2018	\$ 15.30	27.81	\$ 0.43
20000-013277	2012 International Terrastar #48-11' Rea	8/1/2012	8/31/2018	\$ 47,331.00	27.81	\$ 1,316.28
20000-013941	2012 International Terrastar #48-11' Rea	12/1/2012	8/31/2018	\$ 261.29	27.81	\$ 7.27
Subtotal: FOREMAN TRUCK				\$ 91,987.45		\$ 2,558.17

Asset Type: NON-UNION VEHICLES

Asset GL Acct #: 341000-2000-001

20000-005646	2004 Chevy Silverado 1500 - Vehicle #65	6/1/2004	6/30/2018	\$ 18,937.04	27.81	\$ 526.64
20000-005646.2	2004 Chevy Colorado Pickup - Vehicle #67	6/1/2004	6/30/2018	\$ 18,687.04	27.81	\$ 519.69
20000-011698	2011 Chevy Silverado 1500 (bedliner) - A	4/1/2011	12/31/2018	\$ 495.00	27.81	\$ 13.77
20000-011700	2011 Chevy Silverado 1500 (tool box)- As	4/1/2011	12/31/2018	\$ 379.52	27.81	\$ 10.55
20000-011706	2011 Chevy Silverado 1500 (re-install ra	4/1/2011	12/31/2018	\$ 328.50	27.81	\$ 9.14
20000-011707	2011 Chevy Silverado 1500 (lettering) -	4/1/2011	12/31/2018	\$ 245.00	27.81	\$ 6.81
20000-011708	2011 Chevy Silverado 1500 (remote start)	4/1/2011	12/31/2018	\$ 202.50	27.81	\$ 5.63
20000-011731	2011 Chevy Silverado 1500 - Asst. Dist.	4/1/2011	12/31/2018	\$ 25,213.25	27.81	\$ 701.18
20000-011818	2011 Chevy Silverado 1500 - Asst. Dist.	5/1/2011	12/31/2018	\$ 650.00	27.81	\$ 18.08
20000-05646.00	2004 Chevy Silverado 1500 - Vehicle #65	7/1/2004	6/30/2018	\$ 281.19	27.81	\$ 7.82
20000-05646.01	2004 Chevy Silverado 1500 - Vehicle #65	8/1/2004	6/30/2018	\$ 1,370.51	27.81	\$ 38.11
20000-05646.02	2004 Chevy Silverado 1500 - Vehicle #65	11/1/2004	6/30/2018	\$ 177.81	27.81	\$ 4.94
20000-05646.21	2004 Chevy Colorado - Vehicle #67	7/1/2004	6/30/2018	\$ 281.19	27.81	\$ 7.82
20000-05646.22	2004 Chevy Colorado Pickup - Vehicle #67	8/1/2004	6/30/2018	\$ 1,370.51	27.81	\$ 38.11
20000-05646.23	2004 Chevy Colorado Pickup - Vehicle #67	11/1/2004	6/30/2018	\$ 177.81	27.81	\$ 4.94
20000-5751.51	2004 Chevy Silverado Pickup - Lettered -	12/1/2004	6/30/2018	\$ 235.00	27.81	\$ 6.54
20000-5751.53	2004 Chevy Colorado Pickup - Lettered -	12/1/2004	6/30/2018	\$ 235.00	27.81	\$ 6.54
Subtotal: NON-UNION VEHICLES				\$ 69,266.87		\$ 1,926.31

Asset Type: TRANSPORTATION EQUIPMENT

Asset GL Acct #: 341000-2000-001

20000-5751.71	1996 Ingersol Rand Compressor - Cleaned	12/1/2004	6/30/2018	\$ 115.00	27.81	\$ 3.20
Subtotal: TRANSPORTATION EQUIPMENT				\$ 115.00		\$ 3.20

Asset Type: UNION VEHICLES

Asset GL Acct #: 341000-2000-001

20000-006270	2006 Chevy Express Van - Vehicle #93	3/1/2006	6/30/2018	\$ 24,505.95	27.81	\$ 681.51
20000-007003	2006 Ford F-350 - Vehicle #202	8/1/2006	6/30/2018	\$ 67,662.84	27.81	\$ 1,881.70
20000-008038	2008 Chevy Silverado - Vehicle #38	8/1/2008	12/31/2018	\$ 20,559.10	27.81	\$ 571.75
20000-008602	2009 Ford E-350 Cargo Van - Vehicle #70	8/1/2009	6/30/2018	\$ 26,416.49	27.81	\$ 734.64
20000-009543	2010 Chevy Silverado 2500 - Replacement	7/1/2010	12/31/2018	\$ 51.97	27.81	\$ 1.45
20000-009544	2010 Chevy Silverado 2500 - Replacement	7/1/2010	12/31/2018	\$ 38,040.16	27.81	\$ 1,057.90
Subtotal: UNION VEHICLES				\$ 177,236.51		\$ 4,928.95
Subtotal: 341000-2000-001				\$ 339,098.59		\$ 9,430.33

Town or Department: Amherst

Asset Type: COMMUNICATION EQUIPMENT

Asset GL Acct #: 346000-2000-001

20000-003235	SCADA PHASE III-	12/31/1997	12/31/2018	\$ 21,537.95	27.81	\$ 598.97
20000-003394	WTP: Nashua - Scada Phase III	3/31/1998	12/31/2018	\$ 3,181.40	27.81	\$ 88.47
20000-004276	SCADA PHASE III-COMM SYS	5/1/1999	12/31/2018	\$ 7,087.11	27.81	\$ 197.09
20000-004681	SCADA PHASE III-	12/1/2000	12/31/2018	\$ 23,904.14	27.81	\$ 664.77
20000-004710	SCADA PHASE III-	1/1/2001	12/31/2018	\$ 6,534.00	27.81	\$ 181.71
50000-011200	SCADA AT PINE HILL GARDEN-PUMP STATION	12/31/1996	12/31/2018	\$ 15,000.00	27.81	\$ 417.15
50000-011202	SCADA COMMUNCAITON EQUIPMENT-SKY MEADOW	6/1/1998	12/31/2018	\$ 15,000.00	27.81	\$ 417.15
50000-011204	SCADA AT ORCHARD AVE.-BOOSTER STATION UP	12/31/1997	12/31/2018	\$ 15,000.00	27.81	\$ 417.15
50000-011205	SCADA AT MAIN DUNSTABLE RD-BOOSTER STATI	12/31/1997	12/31/2018	\$ 15,000.00	27.81	\$ 417.15
Subtotal: 346000-2000-001				\$ 122,244.60		\$ 3,399.62

Asset Type: COMPUTER EQUIPMENT

Asset GL Acct #: 347110-2000-001

20000-004075	SCADA PC REPLACEMENTS-	12/1/1998	12/31/2018	\$ 26,389.60	27.81	\$ 733.89
20000-004094	COMMUNITY WATER SYSTEMS SCADA-PC	12/1/1998	12/31/2018	\$ 12,141.11	27.81	\$ 337.64
20000-004302	ENGINEERING PRINTER-	5/1/1999	9/30/2018	\$ 3,006.91	27.81	\$ 83.62
20000-004355	SCADA PC REPLACEMENTS-	8/1/1999	12/31/2018	\$ 2,431.30	27.81	\$ 67.61
20000-005119	HP Scanjet 7490C Flatbed Scanner for the	8/1/2002	9/30/2018	\$ 760.23	27.81	\$ 21.14
20000-005806.1	SCADA Historical Trending Upgrade - Hist	3/1/2005	12/31/2018	\$ 3,207.85	27.81	\$ 89.21
20000-005806.2	SCADA Historical Trending Upgrade - iHis	3/1/2005	12/31/2018	\$ 357.84	27.81	\$ 9.95
20000-005806.3	SCADA Historical Trending Upgrade - Glob	3/1/2005	12/31/2018	\$ 917.84	27.81	\$ 25.53
20000-007835	CISCO Catalyst - Alliance Core - Contrac	2/1/2008	9/30/2018	\$ 5,705.00	27.81	\$ 158.66
50000-000357	SOFTWARE/HARDWARE - SCADA-	10/31/1994	12/31/2018	\$ 130,732.86	27.81	\$ 3,635.68
PWW003100	PRINTER FOR WTP	9/1/2006	9/30/2018	\$ 24.39	27.81	\$ 0.68
Subtotal: 347110-2000-001				\$ 185,674.93		\$ 5,163.62
Subtotal: Nashua				\$ 1,760,643.63		\$ 48,963.50

Town or Department: Newmarket

Asset Type: ELECTRIC PUMPING EQUIPMENT

Asset GL Acct #: 311200-2000-001

50000-011209	PUMPS AT BOOSTER STATION-UPGRADE-GREAT B	11/1/1999	6/30/2018	\$ 8,780.76	33.38	\$ 293.10
Subtotal: 311200-2000-001				\$ 8,780.76		\$ 293.10

Asset Type: OTHER POWER PUMPING EQUIPMENT

Asset GL Acct #: 311600-2000-001

20000-005050	PLC UPS PROTECTION--GREAT BAY	4/1/2002	12/31/2018	\$ 287.71	33.38	\$ 9.60
Subtotal: 311600-2000-001				\$ 287.71		\$ 9.60

Asset Type: METERS

Asset GL Acct #: 334000-2000-001

20000-004755.0	5/8 METERS: GREAT BAY (1)	5/1/2001	12/31/2018	\$ 124.90	33.38	\$ 4.17
20000-005651	5/8 METERS: GREAT BAY 2-RENEWED"	7/1/2004	9/30/2018	\$ 329.36	33.38	\$ 10.99
20000-005651.1	5/8 METERS: GREAT BAY 1 RENEWED"	7/1/2004	9/30/2018	\$ 329.36	33.38	\$ 10.99
Subtotal: 334000-2000-001				\$ 783.62		\$ 26.16
Subtotal: Newmarket				\$ 9,852.09		\$ 328.86

Town or Department: Pennichuck Water

Asset Type: METERS

Asset GL Acct #: 334000-2000-001

20000-007368-003	5/8 Meters (1)	3/1/2007	9/30/2018	\$ 227.87	-	\$ -
20000-007447	3/4 Meters: Community Systems - (1) New"	5/1/2007	8/31/2018	\$ 201.13	-	\$ -
20000-007732-001	5/8 Meters: Core - (1) Renewed	12/1/2007	8/31/2018	\$ 142.01	-	\$ -
20000-007810	1.5 Meters: Core - (1) New"	2/1/2008	8/31/2018	\$ 413.03	-	\$ -
20000-007839	1.5 Meters: Core - (1) New"	3/1/2008	10/31/2018	\$ 370.92	-	\$ -
20000-010862-001	5/8 Meters: Core - (3) New	12/1/2010	8/31/2018	\$ 377.30	-	\$ -
20000-010864	5/8 Meters: Community Systems - (1) New"	12/1/2010	10/31/2018	\$ 148.66	-	\$ -
20000-011505.5	5/8 Meters: Core - (1) New no Chamber	3/1/2011	12/31/2018	\$ 111.45	-	\$ -
20000-011740	5/8 Metes: Comm Sys 1 renewed	4/1/2011	12/31/2018	\$ 71.13	-	\$ -
20000-011770	5/8 Meters: Comm Sys 3 renewed"	5/1/2011	10/31/2018	\$ 234.00	-	\$ -
Subtotal: 334000-2000-001				\$ 2,297.50		\$ -

Asset Type: RADIOS FOR METERING EQUIPMENT

Asset GL Acct #: 334100-2000-001

20000-007634.2-002	Neptune Radio Installs - Core - 14 Nept	10/1/2007	9/30/2018	\$ 1,543.36	-	\$ -
20000-007634.2-003	Neptune Radio Installs - Core - 6 Nept	10/1/2007	12/31/2018	\$ 661.44	-	\$ -
20000-007899-001	Neptune Radio Installs - Core - 29	5/1/2008	12/31/2018	\$ 2,703.07	-	\$ -
20000-007979.3-001	Neptune Radio Installs - Core - (41) Nept	6/1/2008	8/31/2018	\$ 4,451.78	-	\$ -
20000-007979.3-002	Neptune Radio Installs - Core (45) Nept	6/1/2008	9/30/2018	\$ 4,886.10	-	\$ -
20000-007979.3-003	Neptune Radio Installs - Core (10) Nept	6/1/2008	10/31/2018	\$ 1,085.80	-	\$ -
20000-008037-001	Neptune Radio Installs - Core - 42 Nept	8/1/2008	3/31/2018	\$ 3,074.95	-	\$ -
20000-008283.3	Neptune Radio Installs - Core - 8 Neptun	1/1/2009	8/31/2018	\$ 628.09	-	\$ -
20000-008283.4	Neptune Radio Installs - Core - 8 Neptun	1/1/2009	8/31/2018	\$ 628.09	-	\$ -
20000-008283.6	Neptune Radio Installs - Core - 6 Neptun	1/1/2009	8/31/2018	\$ 471.06	-	\$ -
20000-008283.7-001	Neptune Radio Installs - Core - 4 Neptun	1/1/2009	10/31/2018	\$ 314.04	-	\$ -
20000-008311-001	Neptune Radio Installs Core 19 Neptunes	2/1/2009	9/30/2018	\$ 1,455.94	-	\$ -
20000-008311-002	Neptune Radio Installs Core 11 Neptunes	2/1/2009	12/31/2018	\$ 842.91	-	\$ -
20000-008587-001	Neptune Radio Installs - Core - 10 Nep	8/1/2009	3/31/2018	\$ 840.89	-	\$ -
20000-009310.2	Neptune Radio Installs: Core - (1)	5/1/2010	8/31/2018	\$ 69.10	-	\$ -
20000-011506.3	Neptune Radio Installs: Community System	3/1/2011	3/31/2018	\$ 93.10	-	\$ -
20000-07634.91	Neptune Radio Installs - Core - 11 Neptu	10/1/2007	8/31/2018	\$ 551.31	-	\$ -
20000-07634.92-001	Neptune Radio Installs - Core - 3	10/1/2007	10/31/2018	\$ 330.79	-	\$ -
20000-07634.96	Neptune Radio Installs - Core - (2)	10/1/2007	8/31/2018	\$ 220.52	-	\$ -
20000-07634.96-001	Neptune Radio Installs - Core - 7	10/1/2007	3/31/2018	\$ 771.83	-	\$ -
Subtotal: 334100-2000-001				\$ 25,624.17		\$ -
Subtotal: Pennichuck Water				\$ 27,921.67		\$ -

Town or Department: Plaistow

Asset Type: BOOSTER STATIONS

Asset GL Acct #: 304550-2000-001

20400-000600	Twin Ridge: Plaistow - Repairs to 5 HP F	1/1/1996	12/31/2018	\$ 643.21	28.93	\$ 18.61
Subtotal: 304550-2000-001				\$ 643.21		\$ 18.61

Asset Type: ELECTRIC PUMPING EQUIPMENT

Asset GL Acct #: 311200-2000-001

Town or Department: Amherst							
20400-000604	Twin Ridge: Plaistow - Scada Phase III	12/31/1996	12/31/2018	\$ 9,450.00	28.93	\$ 273.39	
20400-000620	Twin Ridge: Plaistow - Scada Phase III	12/31/1997	12/31/2018	\$ 3,900.74	28.93	\$ 112.85	
Subtotal: 311200-2000-001				\$ 13,350.74		\$ 386.24	
Asset Type: OTHER POWER PUMPING EQUIPMENT							
Asset GL Acct #: 311600-2000-001							
20400-000851	Twin Ridge: Plaistow - PLC UPS Protection	4/1/2002	12/31/2018	\$ 287.71	28.93	\$ 8.32	
Subtotal: 311600-2000-001				\$ 287.71		\$ 8.32	
Asset Type: PURIFICATION SYSTEM EQUIPMENT							
Asset GL Acct #: 320000-2000-001							
20000-004265	CHLORINATION SYSTEM-SWEET HILL	4/1/1999	12/31/2018	\$ 669.63	28.93	\$ 19.37	
20400-000501	Twin Ridge: Plaistow - (1) Pump	8/23/1994	12/31/2018	\$ 347.35	28.93	\$ 10.05	
20400-000503	Twin Ridge: Plaistow - Install Meter Man	5/1/1995	12/31/2018	\$ 898.46	28.93	\$ 25.99	
Subtotal: 320000-2000-001				\$ 1,915.44		\$ 55.41	
Asset Type: METERS							
Asset GL Acct #: 334000-2000-001							
20400-000862	5/8 Meters: Twin Ridge - Plaistow - (1)	4/1/2004	12/31/2018	\$ 173.89	28.93	\$ 5.03	
Subtotal: 334000-2000-001				\$ 173.89		\$ 5.03	
Subtotal: Plaistow				\$ 16,370.99		\$ 473.61	
Town or Department: Salem							
Asset Type: OTHER POWER PUMPING EQUIPMENT							
Asset GL Acct #: 311600-2000-001							
20000-005051	PLC UPS PROTECTION --AUTUMN WOODS	4/1/2002	12/31/2018	\$ 287.71	28.21	\$ 8.12	
Subtotal: 311600-2000-001				\$ 287.71		\$ 8.12	
Asset Type: METERS							
Asset GL Acct #: 334000-2000-001							
20000-004706	5/8 METERS - AUTUMN WOODS-2"	8/1/2001	9/30/2018	\$ 323.56	28.21	\$ 9.13	
20000-05354.22	5/8 METERS: AUTUMN WOODS 2 - NEW"	3/1/2003	8/31/2018	\$ 217.46	28.21	\$ 6.13	
Subtotal: 334000-2000-001				\$ 541.02		\$ 15.26	
Asset Type: COMMUNICATION EQUIPMENT							
Asset GL Acct #: 346000-2000-001							
20000-004299	SCADA PHASE III-AUTUMN WOODS	5/1/1999	12/31/2018	\$ 2,272.41	28.21	\$ 64.10	
50000-011212	SCADA at Autumn Woods	12/1/1998	12/31/2018	\$ 10,950.00	28.21	\$ 308.90	
Subtotal: 346000-2000-001				\$ 13,222.41		\$ 373.00	
Subtotal: Salem				\$ 14,051.14		\$ 396.38	
Grand Total:				Total Book Cost of Disposed Assets - \$ 3,216,051.43			
				Projected reduced property taxed due to Disposed Assets - \$89,889.68			

Pennichuck Water Works, Inc.
Payroll Summary
PRO FORMA Adjustments
For the Twelve Months Ended December 31, 2018

Schedule 1B

	Twelve Months Ending 12/31/18	Union Pro Forma Jan 1, 2019 Wage Increase (1)	Non Union Pro Forma Salary and Personnel Changes (2)	Total Proforma for Payroll	Total Proformed Twelve Months 12/31/18
Operations & Maintenance					
Production Salaried	\$ 867,351	\$ -	\$ 30,609	\$ 30,609	\$ 897,960
Production Union	851,481	25,544	-	25,544	877,025
Distribution/Meter Salaried	453,240	-	47,848	47,848	501,088
Engineering Salaried	1,167,250	-	11,317	11,317	1,178,567
Distribution/Meter Union	1,683,970	50,519	-	50,519	1,734,489
Admin & General Salaried	2,949,490	-	222,479	222,479	3,171,970
O&M Salaries & Wages	7,972,782	76,064	312,253	388,317	8,361,099
Construction					
Recurring	161,580	4,847	-	4,847	166,427
Capitalized	123,603	3,708	-	3,708	127,311
		-			
Other Accounts:					
Jobbing - PWW	68,669	2,060	-	2,060	70,729
Total	\$ 8,326,634	\$ 86,679	\$ 312,253	\$ 398,933	\$ 8,725,566

Notes:

- (1) 2019 Union Contract Wage Increase - 3.00%
- (2) The Company is reflecting the salary and personnel changes for 12 months to reflect the Company's full costs on a going forward basis per Sch 1 Attach F Pg 3.

PENNICHUCK WATER WORKS, INC.
Salaried Payroll
For The Twelve Months Ended
December 31, 2018

Schedule 1B Support

		Salaried Payroll for
		<u>12/31/2018</u>
920100	OFFICERS SALARIES & WAGES	478,627
660200	SALARIES & WAGES - ENGINEERING	1,167,250
920000	SALARIES & WAGES - ADMIN	182,736
920001	WAGES: REVENUE & CUSTOMER OPER	982,502
920002	SALARIES & WAGES: ACCOUNTING	697,182
920003	SALARIES & WAGES: IS	471,658
920004	SALRIES & WAGES: PWS	136,785
610200	SUPERINTENDENCE - WTP	250,409
610300	OFFICE SALARIES & WAGES: WTP	401,127
642100	PURIFICATION LABOR	215,815
660000	SUPERINTENDENCE: OPERATIONS	257,463
660300	OFFICE SALARIES & WAGES: OPS	195,777
		<u>5,437,331</u>

PENNICHUCK WATER WORKS, INC.
 Union Payroll
 For The Twelve Months Ended
 December 31, 2018

Schedule 1B Support Union

2018 Workorder Costs													
	PWW Capital	070 WTP Maintenance	080 OPS Maintenance	Fleet	PWW Jobbing	PWS Maintenance	PWS Jobbing	PAC Capital	PAC Maintenance	PEU Capital	PEU Maintenance	Total	
Labor	94,001.67	851,481.03	1,603,866.82	80,103.52	68,669.00	490,658.74	70,233.04	5,424.14	85,660.30	24,176.92	673,948.20	4,048,223.38	
Contractor Clearing	70,178.05	1,555.50	-	177,964.98	17,490.17	-	691,016.44	1,270.00	-	97,940.73	-	1,057,415.87	
Inventory: Pipes & Fittings	26,249.80	-	74,681.59	-	22,270.11	221.09	10,116.15	3,508.17	3,549.10	3,680.91	16,614.62	160,891.54	
Inventory: Meters	260,723.39	0.01	3,139.60	-	-	940.81	10,346.12	1,349.42	202.59	67,509.96	3,785.93	347,997.83	
Inventory: Misc T&D	26.15	-	-	-	-	-	-	-	-	-	6.49	32.64	
Inventory: Chemicals	-	905,869.42	-	-	-	-	18,082.81	-	140.57	-	57,605.01	981,697.81	
Inventory: Fleet	-	-	3.27	1,854.12	-	-	-	-	-	-	-	1,857.39	
Inventory: Backup Gen Fuel	-	-	-	-	-	-	-	-	-	-	-	-	
Misc T&D Supplies	-	-	-	-	-	-	-	-	-	-	-	-	
Truck	31,799.50	82,558.75	267,683.00	1,956.00	21,513.75	159,836.75	18,084.75	1,855.00	10,055.00	7,243.50	196,490.00	799,076.00	
Backhoe	4,759.50	755.25	22,700.25	-	8,768.50	114.00	2,237.25	660.25	1,382.25	1,577.00	10,920.25	53,874.50	
Compressor	57.00	-	9,789.75	-	171.00	-	85.50	-	-	456.00	741.00	11,300.25	
Inspection Fees	-	-	-	-	121,189.00	-	-	-	-	-	-	121,189.00	
Overhead	10,288.64	-	-	-	51,896.47	-	-	332.04	-	3,192.65	-	65,709.80	
Labor Overhead	63,110.97	568,619.03	1,071,062.26	53,493.13	69,020.85	320,115.13	47,000.32	3,651.36	48,169.99	16,198.37	452,043.27	2,712,484.68	
Misc General Equipment	-	-	-	-	-	-	-	-	-	-	-	-	
Total Costs	561,194.67	2,410,838.99	3,052,926.54	315,371.75	380,988.85	971,886.52	867,202.38	18,050.38	149,159.80	221,976.04	1,412,154.77	10,361,750.69	
Total Costs w/o OH & CWIP	480,727.98	2,409,283.49	3,052,926.54	137,406.77	311,602.21	971,886.52	176,185.94	16,448.34	149,159.80	120,842.66	1,412,154.77	9,238,625.02	
% of Total	5.42%	23.27%	29.46%	3.04%	3.68%	9.38%	8.37%	0.17%	1.44%	2.14%	13.63%	100.00%	
% of Total w/o OH & CWIP	5.20%	26.08%	33.05%	1.49%	3.37%	10.52%	1.91%	0.18%	1.61%	1.31%	15.29%	100.00%	
Ovhd Allocable to Work Orders													
2,754,181	149,167	640,807	811,476	83,827	101,268	258,330	230,505	4,798	39,647	59,002	375,355	2,754,182	
Totals by Company:													
PWW	149,167	640,807	811,476	83,827	101,268							1,786,545	64.9%
PEU										59,002	375,355	434,357	15.8%
PAC								4,798	39,647			44,445	1.6%
PWS						258,330	230,505					488,835	17.7%
Total Overhead	149,167	640,807	811,476	83,827	101,268	258,330	230,505	4,798	39,647	59,002	375,355	2,754,182	100.0%
% Labor	0.02	0.21	0.40	0.02	0.02	0.12	0.02	0.00	0.02	0.01	0.17	1.00	
												1.00	
		Cap Labor	Labor Expense										
Total Union Labor per Synergen	4,209,803												
Total Labor per Schedule Spec Projects	4,048,223	161,580	4,048,223										
Union Labor Capitalized													
PWW Capital	94,002												
PAC Capital	5,424												
PEU Capital	24,177	123,603	(123,603)										
Totals													
Totals		285,183	3,924,621	4,209,803									

Pennichuck Water Works, Inc.
Pumpage and Sales Normalization to Five Year Average
For the Twelve Months Ended December 31, 2018
Revised 1/24/2020 per Staff Tach DR 2-16

Schedule 1C

Revenue Type	2018 Test Year Billed Revenues w/o QCPAC	2018 Test Year Billed Revenues QCPAC Only	2018 Test Year Billed Revenues Total Sales	2018 Test Year Revenue Pro forma reflecting PEU Special Contract w/o QCPAC ⁷	2018 Test Year Billed Revenues proformed for PEU Special Contract w/o QCPAC	2018 Revenue Proforma's based on 5 Year Average ⁹	Proposed Rate Case TY Revenues based on Five Yr Ave ⁴
Total CWS Volumetric Charges	\$ 1,205,965	\$ 9,472	\$ 1,215,437	\$ 457	\$ 1,206,422	\$ 24,409	\$ 1,230,831
Total Core Volumetric Charges	\$ 14,906,414	\$ 141,149	\$ 15,047,563	\$ 5,646	\$ 14,912,059	\$ 115,977	\$ 15,028,036
Anheuser-Busch Volumetric Charges	\$ 454,536	\$ 5,442	\$ 459,978	\$ 172	\$ 454,708	\$ (22,052)	\$ 432,656
Hudson Volumetric Charges ⁶	\$ 448,241	\$ 7,575	\$ 455,816	\$ (402,853)	\$ 45,388	\$ -	\$ 45,388
Milford Volumetric Charges	\$ 165,125	\$ 2,386	\$ 167,511	\$ 63	\$ 165,188	\$ (84,167)	\$ 81,021
Tyngsborough Water District (TWD) Volumetric Charges ³	\$ 336,714	\$ 3,720	\$ 340,434	\$ 128	\$ 336,842	\$ (25,159)	\$ 311,683
Pennichuck East Utility Volumetric Charges ⁴	\$ -	\$ -	\$ -	\$ 184,964	\$ 184,964	\$ -	\$ 184,964
Total Core Meter Charges (Fixed Fee)	\$ 8,131,419	\$ 114,731	\$ 8,246,150	\$ 3,081	\$ 8,134,499	\$ 106,423	\$ 8,240,922
Total CWS Meter Charges (Fixed Fee)	\$ 751,515	\$ 10,714	\$ 762,229	\$ 285	\$ 751,799	\$ 9,836	\$ 761,635
Total Core Public Fire Protection (Fixed Fee)	\$ 3,209,950	\$ 45,709	\$ 3,255,659	\$ 1,216	\$ 3,211,166	\$ -	\$ 3,211,166
Total CWS Private Fire Protection (Fixed Fee)	\$ 232,824	\$ 3,315	\$ 236,139	\$ 88	\$ 232,912	\$ -	\$ 232,912
Total Core Private Fire Protection (Fixed Fee)	\$ 1,196,391	\$ 17,066	\$ 1,213,457	\$ 453	\$ 1,196,845	\$ -	\$ 1,196,845
Total CWS Private Fire Protection (Fixed Fee)	\$ 14,568	\$ 208	\$ 14,776	\$ 6	\$ 14,574	\$ -	\$ 14,574
Anheuser-Busch Meter Charge (Fixed Fee)	\$ 240,56	\$ 271	\$ 24,327	\$ 9	\$ 24,066	\$ -	\$ 24,066
TWD Meter Charge (Fixed Fee)	\$ 508	\$ 400	\$ 908	\$ 0	\$ 508	\$ -	\$ 508
Anheuser-Busch Contract (Fixed Fee)	\$ 371,430	\$ -	\$ 371,430	\$ -	\$ 371,430	\$ -	\$ 371,430
Hudson Contract (Fixed Fee)	\$ 32,800	\$ -	\$ 32,800	\$ -	\$ 32,800	\$ -	\$ 32,800
Milford Contract (Fixed Fee)	\$ 81,000	\$ -	\$ 81,000	\$ -	\$ 81,000	\$ -	\$ 81,000
Pennichuck East Utility Meter Charge (Fixed Fee) ⁸	\$ -	\$ -	\$ -	\$ 465	\$ 465	\$ -	\$ 465
Pennichuck East Utility (Fixed Fee) ⁵	\$ -	\$ -	\$ -	\$ 121,213	\$ 121,213	\$ -	\$ 121,213
Unbilled Water sales, Billed and Unbilled Recoupment and Abatements	\$ 45,185	\$ -	\$ 45,185	\$ 17	\$ 45,202	\$ -	\$ 45,202
Total Billed Revenue	\$ 31,608,641	\$ 362,159	\$ 31,970,800	\$ (84,590)	\$ 31,524,051	\$ 125,263	\$ 31,649,316

	PWW Volumetric Sales and Pumpage in CCP's					2018 Volumetric Sales & Pumpage Proforma's (CCF) ²	Proformed Five Year Average 2018 Volumetric Sales & Pumpage	Actual Five Year Average Volumetric Sales & Pumpage (exclusive of 2016, including 2013)	Proformed 2018 Volumetric Sales & Pumpage as a Percentage of 2018
	2013	2014	2015	2017	2018				
Annual G-M Sales - PWW CWS (CCF)	324,822	322,530	380,880	323,149	329,519	6,669	336,178	336,178	2.02%
Annual G-M Sales - PWW Core (CCF)	4,090,408	4,113,299	4,245,167	4,001,124	4,072,800	31,688	4,104,578	4,104,578	0.78%
Anheuser-Busch Metered Sales (CCF)	396,800	374,300	413,186	423,889	428,000	(20,765)	407,235	407,235	-4.85%
Hudson Metered Sales (CCF) ⁶	112,380	152,420	225,630	144,370	192,825	(173,300)	19,525	19,525	-89.87%
Pennichuck East Meters Sales (CCF) ⁸	-	-	-	-	-	-	146,390	146,390	-
Milford Metered Sales (CCF)	23,795	23,905	32,067	24,300	71,700	(36,547)	35,153	35,153	-50.97%
Tyngsborough Water District (TWD) Metered Sales (CCF) ³	570	1,730	52,239	139,760	147,340	(10,967)	136,373	136,373	-7.44%
Total PWW metered Sales (CCF)	4,948,775	4,988,184	5,349,169	5,056,592	5,242,254	(56,831)	5,185,433	5,185,433	-1.08%
Pumpage - WTP (CCF)	5,735,134	5,585,080	6,099,024	5,759,666	5,689,211	84,412	5,773,623	5,773,623	1.48%
Pumpage - CWS (CCF)	122,750	125,009	144,356	127,733	118,479	9,367	127,845	127,845	7.91%
Purchased Water - CWS (CCF)	189,642	232,925	281,125	229,166	243,044	(7,864)	235,180	235,180	-3.24%
Total PWW Pumpage and Purchased Water (CCF)	6,047,526	5,943,914	6,524,504	6,116,565	6,050,734	85,914	6,136,649	6,136,649	1.42%
% Unaccounted for in Core	19.4%	16.5%	18.5%	17.8%	13.0%				
% Unaccounted for in CWS	-4.0%	10.1%	10.5%	9.5%	8.9%				

Data:

	Jan - May 2018 Rate w/o QCPAC	Jun-Dec 2018 w/QCPAC
2018 PWW G-M Volumetric Rates	\$ 3.6600	\$ 3.72
2018 Anheuser-Busch Volumetric Rates	\$ 1.0620	\$ 1.0799
2018 Hudson Volumetric Rate	\$ 2.3246	\$ 2.3639
2018 Milford Volumetric Rate	\$ 2.3030	\$ 2.3419
2018 Pennichuck East Rate	\$ 1.2635	\$ 1.2849
2018 TWD Volumetric Rate	\$ 2.2941	\$ 2.3329

QCPAC % June through December 2018 - 1.69%

- Notes
- Revenues proformed to 5 year average consumption for volumetric charges only.
 - Proformed revenues are based on average sales for 2014-2018, exclusive of 2016 as 2016 was an extreme year that would skew the five year average.
 - Tyngsborough volumetric sales are based on the CCF's used in a year inclusive of the 334.2 CCF per day minimum or 122,020 per year
 - Base Revenues without QCPAC Surcharge
 - Pennichuck East required to purchase from PWW 146,000 CCF from PWW in 2019 per contract.
 - Hudson will purchase 146,000 CCF less from PWW in 2019 as PWW will be selling directly to PEU rather than through Hudson Total Revenue Pro forma \$ 11,620
 - Increase TV revenues proportionally for disallowed credit from DW18-076, Order 26,200 in the amount of
- Total Test Year Revenues without Special Contract fixed fees - \$ 30,668,875
8. Monthly Meter Fixed Meter Charge for Pennichuck East Special Contract is \$ 38.75 per month
9. Adjust Fixed Meter Charges to TY ending meter count and sizes per COSS schedule in the amount of \$ 116,259 additional revenues

Pennichuck Water Works, Inc.
Balance Sheet
Assests and Deferred Charges
For the Twelve Months Ended December 31, 2018

Schedule 2

Account Number	12/31/2018	13 Month Test Year Average	12/31/2017	12/31/2016	
<u>PLANT ASSETS</u>					
Plant in Service	301 to 348	222,037,770	215,175,415	213,825,177	199,392,255
Work in process	105	1,754,568	1,729,828	835,329	9,352,386
Utility Plant		223,792,339	216,905,243	214,660,506	208,744,642
Accumulated depreciation	108	57,983,171	57,945,359	56,044,656	52,074,803
Net Plant		165,809,168	158,959,883	158,615,851	156,669,838
Acquistion Adjustment, net	114 & 115	(291,639)	(305,152)	(318,665)	(345,690)
Net Utility Plant		165,517,529	158,654,732	158,297,186	156,324,148
<u>CURRENT ASSETS</u>					
Cash	131	5,556,262	5,324,092	8,247,823	14,103,830
Accounts receivable-billed, net	141 & 143	2,787,249	2,637,043	2,257,487	2,102,481
Accounts receivable-unbilled, net	173	1,715,764	2,123,549	1,730,112	1,428,413
Accounts receivable-other	142	(19,612)	(19,608)	(22,637)	(26,906)
Materials & Supplies	151	600,610	608,309	594,043	652,999
Prepaid expenses	162	550,224	597,565	534,595	466,968
Prepaid property taxes	163 & 236	736,613	407,681	902,883	898,749
Prepaid income taxes	162.3	-	-	-	-
Intercompany advances	233	25,627,959	19,694,834	16,665,708	17,004,422
		37,555,070	31,373,466	30,910,014	36,630,957
<u>OTHER ASSETS</u>					
Debt issuance expenses	181	4,075,101	4,082,172	3,971,109	4,268,243
Other & Def Charges	180,182,183,184 & 186	76,394,167	77,298,216	78,481,316	79,479,073
		80,469,268	81,380,388	82,452,425	83,747,315
TOTAL ASSETS		\$ 283,541,867	\$ 271,408,585	\$ 271,659,625	\$ 276,715,489

Pennichuck Water Works, Inc.
Balance Sheet
Equity and Liabilities
For the Twelve Months Ended December 31, 2018

Schedule 2A

	Account Number	12/31/2018	13 Month Test Year Average	12/31/2017	12/31/2016
STOCKHOLDERS' EQUITY					
Common stock	201	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Paid in capital	211	111,870,969	113,165,458	117,480,418	119,364,233
Retained earnings	215 & 438	459,068	654,689	489,929	2,705,407
		<u>112,360,037</u>	<u>113,850,146</u>	<u>118,000,347</u>	<u>122,099,640</u>
LONG TERM DEBT					
Bonds, notes and mortgages	221	82,014,856	80,881,552	79,396,066	80,274,543
Current portion of long term debt	221	8,472,009	4,331,275	2,670,828	2,481,990
Intercompany advances	223	-	-	-	-
		<u>90,486,865</u>	<u>85,212,827</u>	<u>82,066,894</u>	<u>82,756,532</u>
CURRENT LIABILITIES					
Accounts payable	231	4,130,980	1,130,538	761,033	2,274,592
Accrued taxes	236	9,972	208,052	124,938	5,070
Accrued interest	237	1,623,876	897,133	1,607,516	1,678,308
Other accrued expenses	241	1,625,610	1,108,487	659,223	2,954,577
Customer deposits & other	235	139,880	230,157	125,761	145,472
		<u>7,530,318</u>	<u>3,574,368</u>	<u>3,278,471</u>	<u>7,058,019</u>
OTHER LIABILITIES AND DEFERRED CREDITS					
Deferred income taxes	282	23,592,116	22,101,057	21,971,134	20,648,213
Unamortized ITC	255	470,598	487,116	503,634	536,670
Deferred Tax liability & Other	253 & 283	1,172,554	1,215,018	1,253,054	1,321,501
Customer advances	252	84,000	84,000	84,000	84,000
CIAC, net	271 & 272	31,657,629	29,053,768.09	28,699,312	27,540,808.10
Accrued Pension liability	241	10,021,153	9,709,247	9,791,662	9,009,643
Unamortized Premium on Debt	251	2,965,973	2,989,012	2,964,076	3,081,999
Other Deferred Credits		3,200,623	3,132,025	3,047,040	2,578,465
		<u>73,164,646</u>	<u>68,771,244</u>	<u>68,313,912</u>	<u>64,801,299</u>
TOTAL EQUITY AND LIABILITIES		<u>\$ 283,541,867</u>	<u>\$ 271,408,585</u>	<u>\$ 271,659,625</u>	<u>\$ 276,715,489</u>

Pennichuck Water Works, Inc.
Accumulated Depreciation
For the Twelve Months Ended December 31, 2018

Schedule 2
Attachment A

<u>Account Classification</u>	<u>Asset Account Number</u>	<u>12/31/2018</u>	<u>12/31/2017</u>
Structures	301	\$ 17,871,022	\$ 16,620,692
Pumping and Distribution Equipment	304 to 310	11,040,768	9,976,011
Transmission and Distribution Mains	311 to 320	24,748,668	23,306,628
Services	331	6,265,157	5,902,510
Meters	333	2,744,466	2,435,946
Hydrants	334	1,858,054	1,754,028
Intangible Plant	335	210,232	200,401
Other Equipment	339 to 348	<u>8,367,908</u>	<u>7,071,093</u>
TOTAL		<u>\$ 73,106,276</u>	<u>\$ 67,267,308</u>
Accumulated Depreciation - Loss		\$ (6,142,905)	\$ (5,859,921)
Accumulated Depreciation - Cost of Removal		\$ (5,449,811)	\$ (4,713,182)
Theoretical Depreciation Reserve		\$ (3,531,600)	\$ (3,531,600)
GRAND TOTAL		<u>\$ 57,981,959</u>	<u>\$ 53,162,606</u>

Notes:

Pennichuck Water Works, Inc. **Schedule 2B**
Material and Supplies
For the Twelve Months Ended December 31, 2018

	12/31/2018	13 Month Average	12/31/2017	12/31/2016
INVENTORY: PIPES & FITTINGS	342,266	336,813	331,914	365,764
INVENTORY: NEW METERS	86,957	134,931	132,867	145,431
INVENTORY: MISC T & D	1,467	2,207	2,275	8,041
INVENTORY: WIP SPARE PARTS	-	-	-	-
INVENTORY: WIP CHEMICALS	146,076	102,570	93,632	103,865
INVENTORY: FLEET/VEHICLES	2,736	3,241	3,312	2,801
INVENTORY:BACKUP GENERAT FUEL	20,553	20,553	20,553	20,553
INV: CUSTOMER HANDBOOK/FOLDER	-	-	-	-
INV: CUSTOMER BROCHURE/INSERTS	-	68	881	2,091
INVENTORY: BILLING & ACCTING	555	7,927	8,607	4,453
	600,610	608,309	594,043	652,999

Pennichuck Water Works, Inc.
 Materials and Supply (Inventory)
 For The Thirteen Months Ended December 31, 2018

Schedule 2B Support

ACCOUNT #	DESCRIPTION	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Average	Dec-16
151100	INVENTORY: PIPES & FITTINGS	331,914	334,879	331,709	331,620	327,172	345,380	339,400	336,645	339,315	337,433	339,438	341,397	342,266	336,813	365,764
151101	INVENTORY: NEW METERS	132,867	127,768	131,550	152,449	136,546	149,573	130,938	157,452	148,594	137,666	132,374	129,363	86,957	134,931	145,431
151150	INVENTORY: MISC T & D	2,275	2,275	2,275	2,275	2,275	2,275	2,275	2,275	2,275	2,249	2,249	2,249	1,467	2,207	8,041
151200	INVENTORY: WTP SPARE PARTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
151201	INVENTORY: WTP CHEMICALS	93,632	128,195	115,324	121,368	117,664	86,205	64,474	91,139	84,017	77,287	93,242	114,784	146,076	102,570	103,865
151250	INVENTORY: FLEET/VEHICLES	3,312	3,017	2,931	2,937	2,317	2,272	3,159	3,421	4,063	4,080	3,824	4,066	2,736	3,241	2,801
151300	INVENTORY:BACKUP GENERAT FUE	20,553	20,553	20,553	20,553	20,553	20,553	20,553	20,553	20,553	20,553	20,553	20,553	20,553	20,553	20,553
151600	INV: CUSTOMER HANDBOOK/FOLDI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
151615	INV: CUSTOMER BROCHURE/INSERT	881	-	-	-	-	-	-	-	-	-	-	-	-	68	2,091
151625	INVENTORY: CUST CONSERVATION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
151650	INVENTORY: BILLING & ACCTING	8,607	9,372	12,979	12,001	16,407	12,640	10,418	7,800	5,409	2,414	293	4,156	555	7,927	4,453
151700	INVENTORY: POCKET FOLDERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
151725	INVENTORY:EDUCATIONAL SUPPLII	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
151730	INVENTORY: CCR'S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		594,043	626,059	617,321	643,202	622,935	618,899	571,218	619,285	604,228	581,682	591,973	616,568	600,610	608,309	652,999

Pennichuck Water Works Inc
Net Book Value [Amortization]
For the Twelve Months Ended December 31, 2018
2018 Deferred Assets
GAAP

Asset ID	ASSET BALANCES				AMORTIZATION						Years	Months	Full Year Amort	Pro Forma Adjustment (1)	Adjusted Book Value	
	Beginning	Additions	Deletions	Ending	Beg. Balance	Amort. Exp	Oth. Additions	Deletions	End. Balance	Net Book Value						
<i>N/A - no 2018 deferred asset additions</i>																
Grand Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
<u>Notes:</u>																
(1) The adjustment reflects the additional amortization expense to provide for a full year amortization in the test year																
<u>Retirements:</u>																
<i>Asset GL Act #: 186150-2000-001</i>	Life Yr Mo: 12 yr 0 mo															
75	Bond Defeasance Premium	\$120,707.49	0.00	0.00	\$120,707.49	114,865.79	5,841.70	0.00	0.00	\$120,707.49	0.00					5,841.70
75.1	Bond Defeasance Premium	\$4,740.00	0.00	0.00	\$4,740.00	4,507.36	232.64	0.00	0.00	\$4,740.00	0.00					232.64
75.2	Bond Defeasance Premium	\$1,942.00	0.00	0.00	\$1,942.00	1,846.03	95.97	0.00	0.00	\$1,942.00	0.00					95.97
75.3	Bond Defeasance Premium	-\$9,750.00	0.00	0.00	-\$9,750.00	-9,224.42	-525.58	0.00	0.00	-\$9,750.00	0.00					-525.58
Subtotal: 186150-2000-001		117,639.49	0.00	0.00	117,639.49	111,994.76	5,644.73	0.00	0.00	117,639.49	0.00					5,644.73
Total Retirements		117,639.49	-	-	117,639.49	111,994.76	5,644.73	-	-	117,639.49	-					5,644.73

Notes:
 (1) The adjustment reflects the additional amortization expense to provide for a full year amortization in the test year

Pennichuck Water Works, Inc.
Contributions In Aid of Construction
For the Twelve Months Ended December, 2014-2018

Schedule 2C

	2014	2015	2016	2017	2018	
271200	CONTRIBUTIONS IN AID OF CONST	28,825,721	29,285,884	30,715,987	32,563,039	36,257,056
271201	CIAC: BON TERRAIN	959,061	959,061	959,061	959,061	959,061
271202	CIAC: TAYLOR FALLS BOOSTER STA	150,000	150,000	150,000	150,000	150,000
271205	CIAC: TOWN OF AMHERST	43,000	43,000	43,000	43,000	43,000
271210	CIAC: MAST ROAD	8,500	8,500	8,500	8,500	8,500
271220	CIAC: LITTLE POND MAINS	148,435	148,435	148,435	148,435	148,435
271225	CIAC: PWDRHILL/DUNLAP WDS TANK	55,080	55,080	55,080	55,080	55,080
271230	CIAC: URBAN RUNOFF	62,600	62,600	62,600	62,600	62,600
271240	CIAC-NEW SERVICES:ENGLISH WOOD	7,611	7,611	7,611	7,611	7,611
271250	CIAC: SAFE WATER DRINKING ACT	55,366	55,366	55,366	55,366	55,366
271260	CIAC: AUTUMN WOODS BOOSTER STA	82,592	82,592	82,592	82,592	82,592
271270	CIAC: CHERRY LANE WELL	35,000	35,000	35,000	35,000	35,000
271275	CIAC: MANCHESTER INTERCONNECT	422,612	422,612	422,612	422,612	422,612
271310	CIAC - MAPLEWOOD	217,829	233,827	245,194	249,825	252,351
271320	CIAC - LAUREL WOODS	242,349	242,349	242,349	242,349	242,349
271400	CONTR IN AID OF CONST-DEV INST	2,348,456	2,348,456	2,348,456	2,348,456	2,348,456
271550	CIAC: AUTUMN WOODS	189,755	189,755	189,755	189,755	189,755
	TOTAL CIAC	33,853,965	34,330,126	35,771,596	37,623,279	41,319,822
272101	RESERVE FOR AMORT OF CIAC:PWW	(6,961,512)	(7,582,575)	(8,230,788)	(8,923,966)	(9,662,193)
	TOTAL RESERVE FOR AMORT OF CIAC	(6,961,512)	(7,582,575)	(8,230,788)	(8,923,966)	(9,662,193)
	TOTAL OF CIAC & RESERVE FOR CIAC	26,892,453	26,747,551	27,540,808	28,699,312	31,657,629

Pennichuck Water Works, Inc.
Computation of Thirteen Month Average Balance
For The Thirteen Months Ended December 31, 2018

Schedule 3B
By Account Name

Description	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Average
Plant in Service	213,506,513	213,614,191	213,681,449	213,776,982	214,120,211	214,569,338	213,758,510	214,057,918	214,771,728	214,896,999	215,184,467	215,628,980	221,746,131	214,870,263
Accum Deprec	70,149,358	70,606,012	71,081,113	71,547,397	72,024,084	72,501,909	72,061,043	72,536,021	72,861,768	73,073,107	73,518,760	73,999,866	73,107,487	72,235,994
Accum Deprec: Loss	4,713,182	4,717,674	4,722,103	4,725,435	4,731,805	4,735,822	4,744,353	4,747,764	4,816,365	4,872,260	4,884,927	4,912,635	5,449,811	4,828,780
Accum Deprec: COR	5,859,921	5,862,023	5,859,669	5,858,817	5,858,817	5,858,817	5,939,461	5,934,160	5,942,314	5,986,624	5,997,614	5,992,176	6,142,905	5,930,255
Theoretical Reserve	3,531,600	3,531,600	3,531,600	3,531,600	3,531,600	3,531,600	3,531,600	3,531,600	3,531,600	3,531,600	3,531,600	3,531,600	3,531,600	3,531,600
Acquisition Adjustment	844,905	844,905	844,905	844,905	844,905	844,905	844,905	844,905	844,905	844,905	844,905	844,905	844,905	844,905
Accum Amort Acq Adj	526,241	528,493	530,745	532,997	535,249	537,501	539,753	542,006	544,258	546,510	548,762	551,014	553,266	539,753
CIAC	37,707,279	37,771,982	37,806,126	37,866,382	37,931,118	38,247,669	38,281,138	38,340,386	38,379,768	38,410,553	38,587,998	38,718,054	41,403,822	38,419,406
Reserve of CIAC Amort	8,923,966	8,982,930	9,041,957	9,101,044	9,160,219	9,219,751	9,279,326	9,339,015	9,397,662	9,457,116	9,517,556	9,578,554	9,662,193	9,281,638
Rate Stabilization Fund	4,953,107	4,343,658	3,829,607	3,293,002	2,716,937	1,853,099	2,130,910	3,167,473	3,554,777	3,109,301	2,914,369	2,214,731	959,110	3,003,083
O&M Allowance	1,649,694	1,600,369	1,431,032	1,450,853	1,572,254	1,646,542	1,952,886	2,121,789	1,982,188	1,912,140	1,735,434	1,682,309	1,615,791	1,719,483
Materials & Supplies	594,043	626,059	617,321	643,202	622,935	618,899	571,218	619,285	604,228	581,682	591,973	616,568	600,610	608,309
Prepaid expenses	540,286	634,433	587,373	565,298	360,001	586,790	556,113	637,643	709,044	707,246	700,484	722,564	571,846	606,086
Prepaid Property Taxes	787,664	537,352	171,821	(258,281)	(387,055)	(763,960)	887,660	505,680	123,700	-	(381,980)	809,963	736,613	213,014
Prepaid Income Taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other & Def Charges	78,481,316	78,288,550	78,099,870	77,901,637	77,702,062	77,508,295	77,270,663	77,061,154	76,852,310	76,642,700	76,434,592	76,239,494	76,394,167	77,298,216
Less: Clearing Account	(5,692)	(921)	(2,341)	(3,531)	(4,589)	(5,475)	(6,054)	(7,125)	(9,074)	(11,802)	(14,962)	(17,593)	(21,623)	(8,522)
Cust Advance	84,000	84,000	84,000	84,000	84,000	84,000	84,000	84,000	84,000	84,000	84,000	84,000	84,000	84,000
Customer deposits & other	125,761	119,473	109,710	128,568	125,735	121,137	164,852	501,002	466,460	408,928	332,292	248,250	139,880	230,157
Deferred Income Tax	15,067,574	15,067,574	15,067,574	15,067,574	15,067,574	15,067,574	15,067,574	15,067,574	15,067,574	15,067,574	15,067,574	15,067,574	16,676,188	15,191,313
Deferred Tax Liability	246,109	246,109	246,109	246,109	246,109	246,109	246,109	246,109	246,109	246,109	246,109	246,109	246,109	246,109
Unamortized ITC	503,634	500,881	498,128	495,375	492,622	489,869	487,116	484,363	481,610	478,857	476,104	473,351	470,598	487,116
Deferred Rental Credits	22,963	21,059	19,154	17,250	38,826	36,864	34,903	32,942	30,980	29,019	27,057	25,096	23,134	27,634
	199,321,641	198,006,259	196,350,070	194,828,559	193,674,652	192,267,932	193,896,866	194,135,310	194,376,074	193,612,925	192,489,960	192,790,975	194,989,544	194,672,368
MARA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARA	68,447,327	68,297,769	68,144,941	67,992,113	67,839,286	67,686,458	67,533,629	67,380,801	67,227,973	67,075,145	66,922,317	66,769,489	66,616,661	67,533,378
Total MARA	68,447,327	68,297,769	68,144,941	67,992,113	67,839,286	67,686,458	67,533,629	67,380,801	67,227,973	67,075,145	66,922,317	66,769,489	66,616,661	67,533,378
Ashley Commons	(149,686)	(148,745)	(147,803)	(146,862)	(145,921)	(144,979)	(144,038)	(143,096)	(142,155)	(141,213)	(140,272)	(139,331)	(138,389)	(144,038)
French Hill	(470,502)	(467,782)	(465,062)	(462,343)	(459,623)	(456,903)	(454,184)	(451,464)	(448,744)	(446,025)	(443,305)	(440,585)	(437,866)	(454,184)
Armory - South Nashua	(104,811)	(104,184)	(103,556)	(102,929)	(102,301)	(101,673)	(101,046)	(100,418)	(99,790)	(99,163)	(98,535)	(97,908)	(97,280)	(101,046)
Glenn Ridge	(35,879)	(35,674)	(35,469)	(35,264)	(35,059)	(34,854)	(34,649)	(34,444)	(34,239)	(34,034)	(33,829)	(33,624)	(33,418)	(34,649)
Amherst Street	-	-	-	-	-	-	-	(279,220)	(277,660)	(276,880)	(276,100)	(275,320)	(274,540)	-
Total Forgivable Debt	(760,878)	(756,384)	(751,891)	(747,397)	(742,903)	(738,409)	(733,916)	(1,008,642)	(1,002,588)	(997,315)	(992,041)	(986,767)	(981,494)	(733,917)

Pennichuck Water Works, Inc.
Computation of Thirteen Month Average Balance
For The Thirteen Months Ended December 31, 2018

Schedule 3C

Description	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Average
Unfunded FAS 106 Costs:														
EARLY RETIREE LIABILITY-HEALTH	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POST-65 HEALTH LIABILITY	(3,659,506)	(3,673,978)	(3,688,449)	(3,702,921)	(3,717,393)	(3,731,864)	(3,746,336)	(3,760,808)	(3,775,035)	(3,789,019)	(3,803,003)	(3,816,986)	(3,734,935)	(3,738,479)
VEBA TRUST - UNION	447,158	447,158	447,158	447,158	447,158	447,158	447,158	447,158	447,158	447,158	447,158	447,158	398,374	443,405
VEBA TRUST - NON-UNION	165,309	165,309	165,309	165,309	165,309	165,309	165,309	165,309	165,309	165,309	165,309	165,309	135,939	163,049
Unfunded FAS 106 Costs:	(3,047,040)	(3,061,511)	(3,075,983)	(3,090,455)	(3,104,926)	(3,119,398)	(3,133,870)	(3,148,341)	(3,162,569)	(3,176,553)	(3,190,536)	(3,204,520)	(3,200,623)	(3,132,025)
Unfunded FAS 158 Costs:														
DEFERRED ASSET: PENSION	7,592,279	7,562,201	7,532,123	7,502,046	7,471,968	7,441,890	7,411,812	7,381,734	7,351,656	7,321,579	7,291,501	7,261,423	7,632,256	7,442,651
DEFERRED ASSET:POST 65 HEALTH	651,107	648,641	646,176	643,710	641,244	638,778	636,313	633,847	631,381	628,915	626,450	623,984	564,588	631,933
DEF ASSET:EARLY RETIRE HEALTH	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DEFERRED ASSET - SERP	734,261	734,261	734,261	732,963	732,963	732,963	731,665	731,665	731,665	730,353	730,353	743,546	762,069	735,614
ACCRUED LIAB PENSION-SHORT TRM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ACCURED LIABILITY: PENSION	(9,791,662)	(9,637,815)	(9,719,969)	(9,802,122)	(9,606,275)	(9,688,428)	(9,770,582)	(9,656,935)	(9,739,088)	(9,671,241)	(9,516,395)	(9,598,548)	(10,021,153)	(9,709,247)
EARLY RETIREE LIAB-HEALTH - ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POST-65 HEALTH LIABILITY - ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ACC LIAB: SUP EXEC RETIRE PLAN	(492,223)	(485,513)	(478,804)	(465,137)	(456,564)	(451,283)	(456,717)	(449,759)	(442,801)	(447,416)	(440,458)	(433,500)	(423,920)	(455,700)
Unfunded FAS 158 Costs:	(1,306,238)	(1,178,226)	(1,286,213)	(1,388,541)	(1,216,665)	(1,326,081)	(1,447,510)	(1,359,449)	(1,467,188)	(1,437,810)	(1,308,549)	(1,403,095)	(1,486,160)	(1,354,748)

Pennichuck Water Works, Inc.
Overall Rate of Return
For the Twelve Months Ended December 31, 2018

Schedule 1

<u>Capital Component</u>	<u>Amount</u>	<u>Component Ratio</u>	<u>Component Cost Rate</u>		<u>Average Cost Rate</u>
Long-term Debt	\$ 84,913,202	99.46%	4.50%	(2)	4.47%
Short-term Debt	-	0.00%	0.00%		0.00%
Preferred Stock	-	0.00%	0.00%		0.00%
Common Equity	<u>459,068</u>	<u>0.54%</u>	6.11%	(1)	<u>0.03%</u>
Overall Rate of Return	<u>\$ 85,372,270</u>	<u>100.00%</u>			<u>4.51%</u>

Notes:

- (1) The return on equity based on Order 25,292 in DW 11-026 is as follows:
- | | |
|-------------------------------------|---------------------|
| Average 2018 30 year Treasury bonds | 3.11% |
| Plus 3.0% | 3.00% |
| Total | <u>6.11%</u> |
- (2) Per Order 25,230 in DW 10-091, the interest rate as reflected on Schedules 5 is calculated on debt net of debt issuance costs

Pennichuck Water Works, Inc.
Historical Capital Structure
For the Twelve Months Ended December 31, 2018 **Schedule 3**

	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>
Long-term Debt	82,066,894	82,756,532	83,770,656	98,146,709	50,575,169
Common Equity:					
Common Stock	30,000	30,000	30,000	30,000	30,000
Paid In Capital (proformed) (1)	158,041	249,777	1,917,183	3,033,628	(255,206)
Comprehensive Income	-	-	-	-	-
Retained Earnings	489,929	2,705,407	1,782,661	2,139,009	1,535,203
Total Common Equity	<u>677,970</u>	<u>2,985,185</u>	<u>3,729,845</u>	<u>5,202,637</u>	<u>1,309,998</u>
Short-term Debt	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capital	<u>\$ 82,744,864</u>	<u>\$ 85,741,717</u>	<u>\$ 87,500,501</u>	<u>\$ 103,349,346</u>	<u>\$ 51,885,167</u>
Long-term Debt	99.2%	96.5%	95.7%	95.0%	97.5%
Total Common Equity	<u>0.8%</u>	<u>3.5%</u>	<u>4.3%</u>	<u>5.0%</u>	<u>2.5%</u>
Total Capital	<u>100%</u>	<u>100%</u>	<u>100%</u>	<u>100%</u>	<u>100%</u>

Proforma Adjustment to Paid In Capital

(1) To eliminate the Nashua acquisition amounts:

MARA	68,447,327	70,239,405	72,000,524	73,735,918	75,450,818
Equity as of 1/25/12	9,863,910	9,863,910	9,863,910	9,863,910	9,863,910
Paid in Capital as of 1/25/12	39,011,140	39,011,140	39,011,140	39,011,140	39,011,140
Proforma Adjustment	<u>117,322,377</u>	<u>119,114,455</u>	<u>120,875,574</u>	<u>122,610,968</u>	<u>124,325,868</u>
Paid In Capital Unadjusted	117,480,418	119,364,233	122,792,758	125,644,596	124,070,662
Paid In Capital proformed	<u>158,041</u>	<u>249,777</u>	<u>1,917,183</u>	<u>3,033,628</u>	<u>(255,206)</u>

Pennichuck Water Works, Inc.
Historical Capitalization Ratios
For the Twelve Months Ended December 31, 2018

Schedule 4

	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>
Long-term Debt	99%	97%	96%	95%	97%
Total Common Equity	1%	3%	4%	5%	3%
Total Capital	100%	100%	100%	100%	100%

Pennichuck Water Works, Inc.
 Weighted Average Cost of Long-Term Debt
 For the Twelve Months Ended December 31, 2018
 Revised 1/24/2020 per Staff Tech DR 2-
 Schedule 5 - Revised Per Staff DR 2-44, 2-45, 2-46, 2-52
 Schedule 5 - Revised Per Staff Tech 3-6

Holder	Term	Maturity	Rate	Outstanding Balance as of 12/31/2018	New Debt added in 2019	Unamort Debt Issue Costs	Unamort Premium	Outstanding Debt Funded	Annual Interest (1)	Annual Amort Issue Costs	Annual Amort Prem Costs	All In Annual Cost	Funded Effective Rate	Effective Rate	Coupon Rate	2018 TY Principal Pmts.	2018 TY Interest Pmts	Annual Amort Issue Costs Not Financed	Total 2018 TY Principal, Interest and Annual Amort		2018 Principal Pmt Pro Forma	2018 Interest Pmt Pro Forma	Pro Forma 2018 Princ and Interest
																			Issue Costs Payments	Issue Costs Payments			
AULI (American United Life Insurance)	25	03/01/21	7.40%	3,200,000	-	-	-	3,200,000	236,800	-	-	236,800	7.40%	7.400%	7.400%	\$ 400,000	\$ 241,733	-	\$ 641,733	\$ -	\$ -	\$ -	\$ 641,733
BNY Mellon-2014 A Series Bonds	30	01/01/45	4.13%	38,905,000	-	902,860	-	39,685,158	1,606,690	39,176	64,731	1,710,597	4.31%	4.397%	4.130%	\$ 1,075,000	\$ 1,760,319	-	\$ 2,835,319	\$ -	\$ -	\$ -	\$ 2,835,319
BNY Mellon-2014 B Series Bonds	30	01/01/45	4.82%	5,030,000	-	113,874	-	4,916,126	242,690	-	32,366	275,055	5.59%	5.468%	4.825%	\$ 100,000	\$ 228,488	-	\$ 328,488	\$ -	\$ -	\$ -	\$ 328,488
BNY Mellon-2015 A Series Bonds	30	01/01/46	4.62%	19,490,000	-	462,318	944,729	19,972,410	899,640	17,439	34,990	952,070	4.77%	4.883%	4.616%	\$ 565,000	\$ 917,988	-	\$ 1,482,988	\$ -	\$ -	\$ -	\$ 1,482,988
BNY Mellon-2015 B Series Bonds	30	01/01/31	3.56%	1,840,000	-	40,550	218,408	2,017,859	65,578	3,450	18,201	87,228	4.32%	4.741%	3.564%	\$ 105,000	\$ 94,500	-	\$ 199,500	\$ -	\$ -	\$ -	\$ 199,500
BNY Mellon-2018 A Series Bonds	30	01/01/48	4.90%	4,460,000	-	261,721	119,819	4,318,098	218,471	8,944	4,096	231,512	5.36%	5.191%	4.898%	\$ -	\$ 98,323	\$ -	\$ 98,323	\$ -	\$ -	\$ 103,891	\$ 202,214
BNY Mellon-2018 B Series Bonds	30	01/01/28	4.90%	1,075,000	-	63,083	-	1,011,917	52,658	2,156	-	54,814	5.42%	5.099%	4.898%	\$ -	\$ -	-	\$ -	\$ 85,000	\$ -	\$ 21,821	\$ 106,821
BNY Mellon-2019 A Series Bonds	(3)	30	01/01/49	4.22%	-	8,080,000	-	-	-	-	-	-	-	-	-	\$ -	\$ -	-	\$ -	\$ 91,667	\$ -	\$ 348,383	\$ 440,050
BNY Mellon-2019 B Series Bonds	30	01/01/20	4.22%	-	170,000	-	-	-	-	-	-	-	-	-	-	\$ -	\$ -	-	\$ -	\$ -	\$ 56,667	\$ 958	\$ 57,625
SRF Loan - Hubbard Hill	20	04/01/22	3.80%	72,312	-	-	-	72,312	2,748	-	-	2,748	3.80%	3.800%	3.800%	\$ 22,250	\$ 3,206	-	\$ 25,456	\$ -	\$ -	\$ -	\$ 25,456
SRF Loan Contract #4 (water treatment plant)	20	10/01/29	3.49%	1,916,605	-	-	-	1,916,605	66,851	-	-	66,851	3.49%	3.488%	3.488%	\$ 144,459	\$ 69,595	\$ -	\$ 214,054	\$ -	\$ -	\$ -	\$ 214,054
ARRA Loan - Ashley Commons	(2)	20	05/01/31	2.95%	325,583	-	-	325,583	9,611	-	-	9,611	2.95%	2.952%	2.952%	\$ 7,988	\$ 9,922	\$ -	\$ 17,910	\$ -	\$ -	\$ -	\$ 17,910
ARRA Loan - French Hill	(2)	20	07/01/32	2.86%	1,001,421	-	-	1,001,421	28,681	-	-	28,681	2.86%	2.864%	2.864%	\$ 20,261	\$ 29,508	\$ -	\$ 49,769	\$ -	\$ -	\$ -	\$ 49,769
ARRA Loan - Amory (S. Nashua Booster Station)	(2)	20	12/01/31	2.86%	224,762	-	-	224,762	6,437	-	-	6,437	2.86%	2.864%	2.864%	\$ 4,984	\$ 6,633	\$ -	\$ 11,617	\$ -	\$ -	\$ -	\$ 11,617
ARRA Loan - Glen Ridge	(2)	20	09/01/32	2.86%	76,168	-	-	76,168	2,181	-	-	2,181	2.86%	2.864%	2.864%	\$ 1,494	\$ 2,243	\$ -	\$ 3,737	\$ -	\$ -	\$ -	\$ 3,737
SRF Loan - Drew Woods	20	06/01/32	2.95%	617,773	-	-	-	617,773	18,237	-	-	18,237	2.95%	2.952%	2.952%	\$ 36,989	\$ 18,851	\$ -	\$ 55,820	\$ -	\$ -	\$ -	\$ 55,820
SRF Loan - Nashua Core	20	07/01/36	2.46%	1,978,000	-	-	-	1,978,000	48,738	-	-	48,738	2.46%	2.464%	2.464%	\$ 89,323	\$ 49,935	\$ -	\$ 139,258	\$ -	\$ -	\$ -	\$ 139,258
SRF Loan - Timberline Booster Station	20	07/01/36	2.62%	297,546	-	-	-	297,546	7,784	-	-	7,784	2.62%	2.616%	2.616%	\$ 13,237	\$ 7,972	\$ -	\$ 21,209	\$ -	\$ -	\$ -	\$ 21,209
SRF Loan - Raw Water Transmission Main	20	11/01/36	3.17%	3,019,510	-	-	-	3,019,510	95,658	-	-	95,658	3.17%	3.168%	3.168%	\$ 107,304	\$ 60,499	\$ -	\$ 167,803	\$ -	\$ -	\$ -	\$ 167,803
SRF Loan - Amherst Street - 2016	30	05/01/47	2.42%	1,383,522	-	-	-	1,383,522	33,537	-	-	33,537	2.42%	2.424%	2.424%	\$ 11,019	\$ 33,837	\$ -	\$ 44,855	\$ -	\$ -	\$ -	\$ 44,855
				84,913,202	8,250,000	1,844,406	2,965,973	86,034,770	3,642,990	71,165	154,384	3,868,539	4.50%	4.56%		0%	2,704,308	3,633,530	-	6,337,838	279,089	385,704	7,002,631

(1) The annual interest expense is calculated based on the outstanding balance at year end multiplied by the stated interest rate. The calculated interest expense will differ from interest expense recorded in the test year due to loan repayments made during the year. Additionally, SRF/ARRA interest rates are given a provisional interest rate of 1% until the final rate has been determined and this condition may create differences between calculated and booked interest rates.

(2) Principal payment shown is net of debt principal forgiveness

(3) Portion of Annual Principal and interest payments for debt associated with plant placed in service between 1/1/2018 and 12/31/2018 based on a 30 year bond with an actual total all in interest rate of 4.222191% Average Coupon rate as the all-in TIC (Total Interest Cost) for the \$ 8,229,377 Principal PMT (\$141,368) Interest PMT (\$347,460)

(4) Based on Staff Tech 3-6a principal payments will be adjusted ##### and interest payments will be adjusted (\$89,349) to coincide with 2019 debt service payments.

Annual Report of Pennichuck Water Works, Inc.

Year Ended December 31, 2018

F-35 LONG TERM DEBT (Accounts 221, 222, 223, and 224)

1. Report by balance sheet accounts particulars concerning long-term debt included in Accounts 221, Bonds; 222, Reacquired Bonds; 223, Advances from Associated Companies; and 224, Other Long-Term Debt.
2. For bonds assumed by the respondent, column (a) should include name of the issuing company as well as the description of the bonds.
3. Advances from Associated Companies should be reported separately for advances on notes, and advances on open accounts. Demand notes shall be designated as such. Names of associated companies from which advances were received shall be shown in col. (a).
4. In an insert schedule give explanatory particulars for accounts 223, and 224 of net changes during the year. With respect to long-term advances show for each company (a) principal advanced during year, (b) interest added to principal amount, and (c) principal repaid during year. Give Commission authorization case numbers and dates.
5. If the respondent has pledged any of its long-term debt securities, give particulars in a footnote, including name of the pledge and purpose of the pledge.
6. If the respondent has any long-term debt securities which have been nominally issued and are nominally outstanding at end of year, describe such securities in a footnote.
7. If interest expense was incurred during the year on any obligations retired or reacquired before end of year, include such interest expense in column (f). Explain any difference between the total of column (f) and the total of Account 427, Interest on Long-term Debt, and Account 430, Interest on Debt to Associated Companies.
8. Give particulars concerning any long-term debt authorized by the commission but not yet issued.

Line No.	Class and Series of Obligation (a)	Date of Issue (b)	Date of Maturity (c)	Outstanding (d)	INTEREST FOR YEAR		HELD BY RESPONDENT			Commission Order
					Rate (e)	Amount (f)	Reacquired Bonds (Acct. 222) (g)	Sinking and Other Funds (h)	Redemption Price per \$100 End of Year (i)	
1	Bonds (Account 221)									
2										
3	Business Finance Authority	05/01/97	01/1/22	-	6.300%					22,559
4	Business Finance Authority	01/01/05	01/01/30	-	4.600%					24,395
5	Business Finance Authority	01/01/05	01/01/25	-	4.500%					24,395
6	Business Finance Authority	01/01/05	01/01/35	-	4.700%					24,395
7	Business Finance Authority	10/13/05	10/01/35	-	4.700%					24,510
8	American United Life	03/01/96	03/01/21	3,200,000	7.400%	241,733				22,004
9	Revolving Loan Fund	9/1/1999	05/01/22	72,312	3.800%	3,206				22,959
10	Revolving Loan Fund	12/15/2014	01/01/45	5,030,000	4.500%	226,351				25,734
11	Revolving Loan Fund	04/26/06	07/01/29	1,916,605	4.488%	69,595				24,548
12	Revolving Loan Fund	06/01/11	05/01/31	325,583	2.952%	9,922				24,957
13	Revolving Loan Fund	08/01/12	07/01/32	1,001,421	2.864%	29,508				24,957
14	Revolving Loan Fund	02/01/12	01/01/32	224,762	2.864%	6,633				24,984
15	Revolving Loan Fund	10/01/12	09/01/32	76,168	2.864%	2,243				24,957
16	Revolving Loan Fund	07/01/12	06/01/32	617,773	2.952%	18,831				25,114
17	Business Finance Authority	5/1/2008	10/01/35	-	5.000%					24,510
18	Business Finance Authority	5/1/2008	10/01/35	-	5.375%					24,510
19	Revolving Loan Fund	8/1/2014	TBD	-	2.464%					25,649
20	Revolving Loan Fund	9/1/2014	TBD	-						25,649
21	Revolving Loan Fund	9/1/2014	TBD	1,978,000	2.464%	49,935				25,649
22	Revolving Loan Fund	12/15/2014	01/01/45	38,905,000	various	1,739,719				25,734
23	Revolving Loan Fund	10/15/2015	01/01/46	19,490,000	various	907,088				25,808
24	Revolving Loan Fund	10/15/2015	01/01/46	1,840,000	various	92,000				25,808
25	Revolving Loan Fund		07/01/36	297,546	2.616%	7,927				25,774
26	Revolving Loan Fund		TBD	3,019,510	TBD	60,499				25,774
27	Revolving Loan Fund		6/1/2048	1,383,522	2.424%	33,837				25,887
28	Business Finance Authority			4,460,000		151,278				
29	Business Finance Authority			1,075,000		34,500				
30				-						
31	TOTALS			84,913,202.07		3,684,804	\$ -	\$ -		
32	Advances from Associated Companies (Account 223)									
33	Parent Company			-						
34										
35										
36	TOTALS			-		-	\$ -	\$ -		
37	Other Long Term Debt (Account 224)									
38	Interest on Customer Deposits (Account 235)			-		-				
39										
40										
41	TOTALS			-		-	\$ -	\$ -		

Pennichuck Water Works, Inc.
Weighted Average Cost of Long-Term Debt
Reconciliation Amortization Issue Cost vs. Annual Report
For the Twelve Months Ended December 31, 2018

Annual Report Sch F-25	\$	4,075,101
Amortization of Debt. Issuance Costs on Retired Debt.	\$	(2,112,968)
Amortization of FALOC Issuance Costs	\$	(47,078)
Issuance costs of 2018 DWGTF Debt not closed in 2018	\$	(3,158)
		<hr/>
Adjusted Annual Report Sch F-25	\$	1,911,897
Schedule 5 - Unamortized Debt Issuance Costs	\$	1,844,406
Difference		67,491

PENNICHUCK WATER WORKS INC
 UNAMORTIZED PREMIUM ON DEBT
 GL ACCOUNTS: 251001-2000-001 through 251004-2000-001
 YEAR ENDING 12/31/18

Description	Bond Issuance Amount	Date of Issuance/ Escrow	Amount in Escrow	Bond Premium Amount	Amort Life (in yrs)	Monthly Amort Amt	Unamortized Balance as of 12/31/17	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unamortized Balance as of Current Date	
<u>Timeline of Transactions and Combinations:</u>																					
Series 2014 A Bonds	41,885,000.00	12/15/2014	23,350,000.00	1,941,943.65	30	5,394.29	1,747,749.21	(5,394.29)	(5,394.29)	(5,394.29)	(5,394.29)	(5,394.29)	(5,394.29)	(5,394.29)	(5,394.29)	(5,394.29)	(5,394.29)	(5,394.29)	(5,394.29)	(5,394.29)	
Totals for Account 251001-2000-001	<u>41,885,000.00</u>		<u>23,350,000.00</u>	<u>1,941,943.65</u>			<u>1,747,749.21</u>	<u>(5,394.29)</u>	<u>(5,394.29)</u>	<u>(5,394.29)</u>	<u>(5,394.29)</u>	<u>(5,394.29)</u>	<u>(5,394.29)</u>	<u>(5,394.29)</u>	<u>(5,394.29)</u>	<u>(5,394.29)</u>	<u>(5,394.29)</u>	<u>(5,394.29)</u>	<u>(5,394.29)</u>	<u>1,683,017.73</u>	
GENERAL LEDGER BALANCE																			G/L Balance in Account as of Current Month End	<u>1,683,017.73</u>	
<hr/>																					
<u>Timeline of Transactions and Combinations:</u>																					
Series 2015 A Bonds	20,555,000.00	10/27/2015	16,178,434.48	1,049,698.45	30	2,915.83	979,718.53	(2,915.83)	(2,915.83)	(2,915.83)	(2,915.83)	(2,915.83)	(2,915.83)	(2,915.83)	(2,915.83)	(2,915.83)	(2,915.83)	(2,915.83)	(2,915.83)	(2,915.83)	
Totals for Account 251002-2000-001	<u>104,325,000.00</u>		<u>62,878,434.48</u>	<u>4,933,585.75</u>			<u>979,718.53</u>	<u>(2,915.83)</u>	<u>(2,915.83)</u>	<u>(2,915.83)</u>	<u>(2,915.83)</u>	<u>(2,915.83)</u>	<u>(2,915.83)</u>	<u>(2,915.83)</u>	<u>(2,915.83)</u>	<u>(2,915.83)</u>	<u>(2,915.83)</u>	<u>(2,915.83)</u>	<u>(2,915.83)</u>	<u>(2,915.83)</u>	<u>944,728.57</u>
GENERAL LEDGER BALANCE																			G/L Balance in Account as of Current Month End	<u>944,728.57</u>	
<hr/>																					
<u>Timeline of Transactions and Combinations:</u>																					
Series 2015 B Bonds	2,035,000.00	10/27/2015		273,010.00	15	1,516.72	236,608.72	(1,516.72)	(1,516.72)	(1,516.72)	(1,516.72)	(1,516.72)	(1,516.72)	(1,516.72)	(1,516.72)	(1,516.72)	(1,516.72)	(1,516.72)	(1,516.72)	(1,516.72)	
Totals for Account 251003-2000-001	<u>2,035,000.00</u>		<u>-</u>	<u>273,010.00</u>			<u>236,608.72</u>	<u>(1,516.72)</u>	<u>(1,516.72)</u>	<u>(1,516.72)</u>	<u>(1,516.72)</u>	<u>(1,516.72)</u>	<u>(1,516.72)</u>	<u>(1,516.72)</u>	<u>(1,516.72)</u>	<u>(1,516.72)</u>	<u>(1,516.72)</u>	<u>(1,516.72)</u>	<u>(1,516.72)</u>	<u>(1,516.72)</u>	<u>218,408.08</u>
GENERAL LEDGER BALANCE																			G/L Balance in Account as of Current Month End	<u>218,408.08</u>	
<hr/>																					
<u>Timeline of Transactions and Combinations:</u>																					
Series 2018 A Bonds	4,460,000.00	4/1/2018		122,891.40	30	341.37	-	-	-	-	(341.37)	(341.37)	(341.37)	(341.37)	(341.37)	(341.37)	(341.37)	(341.37)	(341.37)	(341.37)	
Totals for Account 251004-2000-001	<u>4,460,000.00</u>		<u>-</u>	<u>122,891.40</u>			<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>122,550.03</u>	<u>(341.37)</u>	<u>(341.37)</u>	<u>(341.37)</u>	<u>(341.37)</u>	<u>(341.37)</u>	<u>(341.37)</u>	<u>(341.37)</u>	<u>(341.37)</u>	<u>(341.37)</u>	<u>119,819.07</u>
GENERAL LEDGER BALANCE																			G/L Balance in Account as of Current Month End	<u>119,819.07</u>	

Pennichuck Water Works, Inc.
Cost of Short-Term Debt
For the Thirteen Months Ended December 31, 2018

Schedule 6

	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	13 Month Average
233300 INTERCO PAY/REC: PWW/PCP	16,652,753.75	16,473,835.81	17,115,050.21	11,310,160.28	17,175,556.18	17,074,206.42	16,145,512.62	13,818,126.82	13,478,295.84	13,929,169.72	15,526,021.39	16,497,721.43	25,615,004.29	16,216,263
233400 INTERCO PAY/REC: PWW/TSC	-	613.72	945.27	1,227.03	1,519.81	1,820.21	2,056.93	2,045.94	2,102.53	2,228.72	2,444.28	2,414.00	-	1,494
233500 INTERCO PAY/REC: PWW/PWS	-	327,654.15	617,210.57	922,492.82	1,185,206.91	1,605,945.59	1,896,507.82	2,072,295.35	2,268,105.18	2,525,752.04	2,761,592.43	2,999,999.61	-	1,475,597
233600 INTERCO PAY/REC: PWW/PAC	-	33,919.26	66,197.39	98,087.58	122,599.29	155,201.70	184,426.53	227,382.64	262,456.67	287,435.24	321,691.08	348,213.29	-	162,124
233650 INTERCO LOAN PWW/PAC: RSF	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,955
233700 INTERCO PAY/REC: PWW/PEU	-	361,057.60	691,960.26	1,042,659.99	1,417,247.41	1,794,596.36	2,115,680.64	2,517,663.77	2,880,355.22	3,244,156.53	3,657,930.13	4,019,915.70	-	1,826,402
Interco Net Receivable	16,665,708	17,210,035	18,504,318	13,387,582	19,915,084	20,644,725	20,357,139	18,650,469	18,904,270	20,001,697	22,282,634	23,881,219	25,627,959	19,694,834

Pennichuck Water Works, Inc.
Construction Work in Progress (CWIP)
For the Thirteen Months Ended December 31, 2018

**Schedule 6
 Supplemental**

	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	13 Month Average
105111 CWIP: LABOR CLEARING	(100,464.86)	(100,238.96)	(95,114.58)	(88,789.54)	(96,949.05)	(93,358.29)	(88,574.45)	3,045.88	(5,600.23)	(4,906.06)	(5,423.58)	(8,620.70)	(12,561.26)	(53,658)
105222 CWIP: CONTRACTOR CLEARING	935,794.24	1,026,759.83	1,136,567.09	1,235,693.91	1,201,210.64	1,280,857.86	1,479,455.67	1,678,074.34	1,901,035.12	2,196,308.01	3,101,420.01	3,753,541.41	1,261,382.55	1,706,777
105333 CWIP: WTP EVAL & CAPITAL PLAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-
105444 CWIP: OPERATIONS BUILDING	-	-	-	-	-	-	50,070.45	77,833.16	85,089.81	95,347.99	91,321.83	91,810.83	505,746.89	76,709.30
Total CWIP	835,329	926,521	1,041,453	1,146,904	1,104,262	1,187,500	1,440,952	1,758,953	1,980,525	2,286,750	3,187,318	3,836,732	1,754,568	1,729,828

Pennichuck Water Works, Inc. Schedule 8
Cost of Common Equity Capital
For the Twelve Months Ended December 31, 2018

Source: S&P

<u>Date</u>	<u>Rate</u>
1/1/2018	2.88
2/1/2018	3.13
3/1/2018	3.09
4/1/2018	3.07
5/1/2018	3.13
6/1/2018	3.05
7/1/2018	3.01
8/1/2018	3.04
9/1/2018	3.15
10/1/2018	3.34
11/1/2018	3.36
12/1/2018	3.10

30 year Treasury Rate Average 3.11

Plus 3.00

Cost of Equity 6.11% (1)

Notes:

(1) DW 13-330 Order 25,693
 The PUC recommended that future rate proceedings PWW's
 Return on Equity be equal to the average of the most recent 12-mo
 of 30 yr treasury bond interest rates plus 3.0%

Pennichuck Water Works, Inc.
Report of Proposed Rate Changes
For the Twelve Months Ended December 31, 2018
For the Twelve Months Ended December 31, 2018
Refinance TIC @ 4.01% and MOES @ 9.5%
5/20/2020, Revised 6/1/2020, Revised 9/10/2020

Pro Forma
Schedule 9
Permanent

DOCKET NO: 19-084 **DATE FILED:** _____
TARIFF NO.: 6 **or PAGE NOS.** 43-45 and 47 **EFF. DATE:** _____

Rate or Class of Service	Effect of Proposed Change	Average Number of Customers	Pro Forma Rates to Five Year Ave.	Proposed Perm Rates	Proposed Change	
					Amount	%
G-M Residential fixed	Increase	26,129	\$6,970,633	7,515,146	544,513	7.81%
All other G-M charges	Increase	1,824	\$18,335,993	20,199,908	1,863,915	10.17%
Private FP	Increase	911	1,211,418	2,080,449	869,031	71.74%
FP - Hydrants	Increase	5	3,444,078	3,794,180	350,102	10.17%
<u>Anheuser-Busch Contract</u>						
Contract Charges	No Increase	2	371,430	371,430	-	0.00%
Volumetric and Fixed Charges	Increase		456,721	503,149	46,427	10.17%
<u>Milford Contract</u>						
Contract Charges	No Increase	1	81,000	81,000	\$0	0.00%
Volumetric and Fixed Charges	Increase		81,021	89,257	8,236	10.17%
<u>Hudson Contract</u>						
Contract Charges	No Increase	1	32,800	32,800	\$0	0.00%
Volumetric and Fixed Charges	Increase		45,388	50,002	4,614	10.17%
<u>Tyngsborough Contract</u>						
Volumetric & Flat Charges	Increase	1	312,191	343,926	31,735	10.17%
<u>Pennichuck East Contract</u>						
Volumetric and Fixed Charges	Increase	1	306,642	337,815	31,173	10.17%
TOTALS		28,875	31,649,316	35,399,062	\$3,749,746	

Signed by: _____
Donald L. Ware
Title: Chief Operating Officer

Pennichuck Water Works, Inc.
Report of Proposed Rate Changes
For the Twelve Months Ended December 31, 2018
Refinance TIC @ 4.01% TIC and MOES @ 9.5%
5/20/2020, Revised 6/1/2020, Revised 9/10/2020

**Pro Forma
 Schedule 9
 Bingo-Perm**

UTILITY:

Pennichuck Water Works, Inc.

TARIFF NO.:

6 or PAGE NOS. 43-45 and 47

Rate or Class of Service	Estimated Annual Revenue w/o QCPAC Revenues				Proposed Change	
	Effect of Proposed Change *	Average Number of Customers	Pro Forma Rates to TY Five Year Ave.(1)	Proposed Rates	\$\$ Amount increase over TY Current Rates 5 Yr. Ave. Pro Form	%
G-M Residential Fixed Charges	Increase	26,129	\$6,970,633	7,515,146	544,513	7.81%
All other G-M charges	Increase	1,824	\$18,335,993	20,199,908	\$ 1,863,915	10.17%
Private FP	Increase	911	\$ 1,211,418	\$ 2,080,449	\$ 869,031	71.74%
FP - Hydrants	Increase	5	\$ 3,444,078	\$ 3,794,180	\$ 350,102	10.17%
<u>Anheuser Busch Contract</u>						
Contract Charges	No Increase	2	\$ 371,430	\$ 371,430	\$ -	0.00%
Volumetric and Meter Charges	Increase	-	\$ 456,721	\$ 503,149	\$ 46,427	10.17%
<u>Milford Contract</u>						
Contract Charges	No Increase	1	\$ 81,000	\$ 81,000	\$ -	0.00%
Volumetric Charges	Increase	-	\$ 81,021	\$ 89,257	\$ 8,236	10.17%
<u>Hudson Contract</u>						
Contract Charges	No Increase	1	\$ 32,800	\$ 32,800	\$ -	0.00%
Volumetric Charges	Increase	-	\$ 45,388	\$ 50,002	\$ 4,614	10.17%
<u>Tyngsborough Contract</u>						
Volumetric and Meter Charges	Increase	1	\$ 312,191	\$ 343,926	\$ 31,735	10.17%
<u>Pennichuck East Contract</u>						
Volumetric and Meter Charges	Increase	1	\$ 306,642	\$ 337,815	\$ 31,173	10.17%
TOTALS		28,875	\$ 31,649,316	\$ 35,399,062	\$ 3,749,746	11.85%

Signed by: _____
 Donald L. Ware
 Title: Chief Operating Officer

1. See Schedule 1604.06 Sch1C

Pennichuck Water Works, Inc.
 DW19-084
 Illustrative Typical Customer Monthly bill pre and post permanent and QCPAC implementation
 Staff Tech 5-1 (5-7-20); Supp Staff Tech 5-1 (Rev. 5-29-20)
 Revised 6/18/2020 for Settlement
 Revised for final rates approved with 4.01% TIC

Charge Description	Monthly Bill Charges															
	September	October	November	December	January	February	March	April	May	June	July	August	September	October		
5/8 inch Meter Customer Charge (1) -	\$ 22.58	\$ 24.88	\$ 24.88	\$ 24.88	\$ 24.88	\$ 24.88	\$ 24.88	\$ 24.88	\$ 24.88	\$ 24.88	\$ 24.88	\$ 24.88	\$ 24.88	\$ 24.88		
Volumetric Charge based on Usage (2) -	\$ 28.44	\$ 30.66	\$ 30.66	\$ 30.66	\$ 30.66	\$ 30.66	\$ 30.66	\$ 30.66	\$ 30.66	\$ 30.66	\$ 30.66	\$ 30.66	\$ 30.66	\$ 30.66		
QCPAC Surcharge (3) -	\$ 2.07	\$ -	\$ 2.16	\$ 2.16	\$ 2.16	\$ 2.16	\$ 2.16	\$ 2.16	\$ 2.16	\$ 2.16	\$ 2.16	\$ 2.16	\$ 2.16	\$ 2.16		
Rate Expense Recoupment (4) -	\$ -	\$ -	\$ -	\$ -	\$ 0.95	\$ 0.95	\$ 0.38	\$ 0.38	\$ 0.38	\$ 0.38	\$ 0.38	\$ 0.38	\$ 0.38	\$ 0.38		
Temporary to Permanent Rate Recoupment (5) -	\$ -	\$ -	\$ -	\$ -	\$ 0.95	\$ 0.95	\$ 0.95	\$ 0.95	\$ 0.95	\$ 0.95	\$ 0.95	\$ 0.95	\$ 0.95	\$ 0.95		
QCPAC Recoupment (6) -	\$ -	\$ -	\$ 3.24	\$ 3.24	\$ 3.24	\$ 3.24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Total Bill for month -	\$ 53.09	\$ 55.54	\$ 60.94	\$ 60.94	\$ 61.89	\$ 61.89	\$ 59.02	\$ 59.02	\$ 59.02	\$ 59.02	\$ 59.02	\$ 59.02	\$ 59.02	\$ 59.02		

Notes:

- (1) Current tariffed 5/8" meter charge - \$ 22.58
- (2) The Volumetric Charge is based on the following data:
 Average Monthly usage for Single Family Residence per month in 2018 - 7.77 CCF
 Current tariffed Rate per CCF - \$ 3.66
 Projected rate increase percentage to GM Residential volumetric charge - 10.17% based on attached Customer Impact tab from the set of 1600 schedules filed in response to Staff Tech 5 DR's
 Projected rate increase percentage to GM Residential 5/8" meter fixed charge - 7.81%
- (3) QCPAC Surcharge in effect (granted in DW19-029) - 4.06%
 QCPAC Surcharge requested in DW20-020 - 3.89% based on revenue requirement established in last set of 1600 schedules filed in response to Staff Tech 5 DR's
- (4) Projected rate case expense of - \$ 130,000 to be recouped over 12 months from 28,876 customer accounts
- (5) Temporary to Permanent Rate Recoupment based on increase of - 6.11% and recoupment amount earned between March 2020 and September 2020. This number is net of QCPAC recovered during this time frame
 recovered over 18 months, beginning in January 2021
- (6) QCPAC recoupment from DW20-020 will be recouped over 4 months after issuance of order and authorization of recoupment