

	DW16-806 Approved Step Revenue Requirements (11)		Requested QCPAC For 2017 Capital Additions pro formas		Requested QCPAC Surcharge for 2017 Capital Additions		Projected QCPAC For 2018 Capital Additions pro formas (7,8)		Projected QCPAC Surcharge for 2018 Capital Additions		QCPAC For 2019 Capital Additions pro formas (7,8)		QCPAC Surcharge for 2019 Capital Additions		QCPAC For 2020 Capital Additions pro formas (7,8)		QCPAC Surcharge for 2020 Capital Additions		QCPAC For 2021 Capital Additions pro formas (7,8)		QCPAC Surcharge for 2021 Capital Additions
City Bond Fixed Revenue Requirement (CBFRR)	\$7,729,032				\$7,729,032	\$	-	\$	7,729,032	\$	-	\$	7,729,032	\$	-	\$	7,729,032	\$	-	\$	7,729,032
Operating Expense Revenue Requirement	\$16,442,012	(1)(11)	\$122,079	(4)	\$16,564,090	\$	198,464	\$	16,762,554	\$	416,669	\$	17,179,222	\$	326,226	\$	17,505,448	\$	280,650	\$	17,786,098
Annual Principal and Interest Payments	\$6,218,648	(2)	\$365,418	(5)(10)	\$6,584,066	\$	\$566,225	\$	7,150,291	\$	\$891,274	\$	8,041,565	\$	\$857,436	\$	8,899,001	\$	\$818,624	\$	9,717,625
Principal and Interest Coverage Requirement	1.10	(3)			1.10				1.10				1.10				1.10				1.10
Principal and Interest Revenue Requirement	\$6,840,513				\$7,242,472	\$		\$	7,865,320	\$		\$	8,845,722	\$		\$	9,788,901	\$		\$	10,689,387
Proposed Revenue Requirement	\$31,011,556				\$31,535,594	\$		\$	32,356,906	\$		\$	33,753,976	\$		\$	35,023,381	\$		\$	36,204,517
Current Water Revenues excluding CBFRR	\$20,694,038				\$23,282,524	\$		\$	23,806,562	\$		\$	24,627,874	\$		\$	26,024,944	\$		\$	27,294,349
Add: City Bond Fixed Revenue Requirement	\$7,729,032				\$7,729,032	\$		\$	7,729,032	\$		\$	7,729,032	\$		\$	7,729,032	\$		\$	7,729,032
Current Water Revenues with CBFRR	\$28,423,070				\$31,011,556	\$		\$	31,535,594	\$		\$	32,356,906	\$		\$	33,753,976	\$		\$	35,023,381
Percent QCPAC Surcharge (9)					1.69%				2.60%				4.32%				3.76%				3.37%
Cumulative QCPAC Surcharge (13)									4.34%				8.84%				12.94%				16.75%
Cumulative QCPAC monthly increase in average single family residential bill					\$0.91	\$		\$	2.34	\$		\$	4.77	\$		\$	6.98	\$		\$	9.04
Average monthly single family residential bill with QCPAC					\$54.90	\$		\$	56.32	\$		\$	58.76	\$		\$	60.97	\$		\$	63.02

Notes:

- (1) Operating Expense Revenue requirement is the sum of the Total Operating Expenses, Property Tax Expense, Amortization Expense and Payroll Tax Expenses approved in DW16-806
- (2) Annual Principal and interest payments for PWW debt associated with all plant in service as approved in DW16-806
- (3) Principal and interest coverage of 1.10 is as approved in DW16-806
- (4) Reflects the net increase in property taxes associated with the plant placed in service between 1/1/2017 and 12/31/2017 that was not included in DW16-806.
- (5) Portion of Annual Principal and interest payments for debt associated with plant placed in service between 1/1/2017 and 12/31/2017 based on a 30 year bond with an actual total all in interest rate of 4.898453% that was not recovered in DW16-806
- (7) QCPAC operating expenses are based on the property taxes for plant added during the year
- (8) QCPAC Principal and Interest expenses are based on 30 year bond with interest rate of 5.5% for 2018 through 2021 Capital Expenditures unless funding is via an SRF/DWGTF financing.
- (9) QCPAC percent revenue surcharges based on increase in revenues from the previous year, inclusive of QCPAC surcharges.
- (10) Portion of QCPAC Principal and Interest associated with SRF loan of \$767,357 for 2017 work completed on Amherst Street project based on the fact that \$27,746.00 of P&I was recovered in DW16-806 leaving \$25,178.00 of remaining P&I on this SRF loan to be collected via the QCPAC surcharge. The remaining P&I is based on the amortization schedule for this loan provided by the NHDES and is the P&I payment due the State in 2018 after principal forgiveness.
- (11) Reduction in revenues associated with fixed contracts as follows: Hudson Annual Fixed Chg \$32,800 Milford Annaul Fixed Chg \$81,000.00 A-B Annual Fixed Chg \$371,430.48
- (12) QCPAC Principal and Interest expenses for DWGTF financing are based on a 30 year bond with interest rate of 3.38%
- (13) Cumulative surcharge percentage is based on total surcharge revenues collected divided by the step revenues granted in DW16-806

Impact on Single Family Residential Home:	
Monthly meter charge granted in DW16-806, inclusive of Step increase -	\$22.58
Average Single Family Consumption (CCF) -	8.58
Consumption Charge granted in DW16.806, inclusive of Step increase -	\$3.66
Ave. Single Family monthly bill with rates granted in DW16-806, inclusive of step -	\$53.98

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Funded in DW16-806 Step	Estimated Project Cost as of 1/18/2017	Estimated Project Cost as of 11/15/2017	Final Unaudited Project Costs as of 1/19/2018	Community	Taxable	Tax Rate (%)	QCPAC Eligible Annual Tax Expense	Explanation for Change/Addition/Deletion since 1/18/2017
Heavy Dump Truck Replacement (#12)	Heavy Dump Truck Replacement (#12)	1702309	DW14-130	25,734	11/7/2014	Yes	\$ 130,000	Paid 2014 Bond		Merrimack			\$ -	P&I and property taxes recovered in DW16-806 Step Increase
Replace Aging Services	9 Renewed Services with 2014 Bond Funds 23 Renewed Services with 2018 Bond Funds	Monthly 21, 22, 23	DW14-130	25,735	11/7/2014	Partial	\$ 80,000	Paid 2014 Bond		Nashua	Yes	\$ 29.82	\$ -	P&I and property taxes recovered in DW16-806 Step Increase
Replace Aging Hydrants	3 Hydrants replaced with 2014 Bond Funds 5 Hydrants replaced with 2018 Bond Funds	Monthly 31	DW14-130	26,101	2/2/2018	No	\$ 40,000	\$ 40,000	\$ 100,454	Nashua	Yes	\$ 29.82	\$ 2,996	P&I and property taxes to be recovered in 2018 QCPAC
Replace Aging Valves	3 Valve Replacements	Monthly 12, 13	DW14-130	25,735	11/7/2014	Partial	\$ 42,000	Paid 2014 Bond		Nashua	Yes	\$ 29.82	\$ -	P&I and property taxes recovered in DW16-806 Step Increase
New Services	2 New Services for Single Family Residential, owner build, per Tariff 5 New Services for Single Family Residential, owner build, per Tariff	Monthly 20	DW17-183	26,101	2/2/2018	No	\$ 50,000	\$ 11,000	\$ 18,643	Nashua	Yes	\$ 29.82	\$ 556	P&I and property taxes to be recovered in 2018 QCPAC
Replace Leaded Brass Meters with Lead free brass meters	410 New Meters for Lead Meter exchanges - 5/8"-6" 1,410 New Meters for Lead Meter exchanges - 5/8"-6" (NHEI) ACTUAL 332	Monthly 50	DW14-130	25,735	11/7/2014	Partial	\$ 832,000	Paid 2014 Bond		Nashua	Yes	\$ 29.82	\$ -	P&I and property taxes recovered in DW16-806 Step Increase
Replace Aging meter reading Radios	Replace 99 failed radios Replace 238 failed radios	Monthly 54	DW17-183	26,101	2/2/2018	No	\$ 28,000	\$ 247,266	\$ 267,950	Nashua	Yes	\$ 29.82	\$ 7,990	P&I and property taxes to be recovered in 2018 QCPAC
Ferromagnetic Pipe locators (3)	Ferromagnetic Pipe locators (3)		DW14-130	25,735	11/7/2014	Partial	\$ 10,500	\$ 22,729	\$ 22,802	Nashua	Yes	\$ 29.82	\$ -	P&I and property taxes recovered in DW16-806 Step Increase
Heavy Dump Truck Replacement (#86)	Heavy Dump Truck Replacement (#86)	1708349	DW17-183	26,101	2/2/2018	Remainder	\$ 100,000	\$ 10,500	\$ 102,176	Nashua	Yes	\$ 29.82	\$ 680	P&I and property taxes to be recovered in 2018 QCPAC
Service Truck replacement (#47)	Service Truck replacement (#47)	1715542	DW17-183	26,101	2/2/2018	No	\$ 60,000	\$ 10,500	\$ 47,889	Merrimack	No	\$ -	\$ -	None acquired
Replacement of Foreman truck	Replacement of Foreman truck						\$ 90,000	\$ 38,950	\$ -	Merrimack	No	\$ -	\$ -	Deferred until 2018
Replace Dump Truck Body	#312- Replace Dump Truck Body	1720997						\$ 75,000	\$ 15,740	Merrimack	No	\$ -	\$ -	Project added at end of year using existing truck chassis for new dump body.
Medium Duty Dump Truck Replacement (#71)	Medium Duty Dump Truck Replacement (#71)	1708350	DW17-183	26,101	2/2/2018	No	\$ 70,000	\$ 70,000	\$ 90,160	Merrimack	No	\$ -	\$ -	
Replace Truck #70	Replace Truck #70	1707209	DW17-183	26,101	2/2/2018	No	\$ -	\$ 32,034	\$ 32,034	Merrimack	No	\$ -	\$ -	Truck replaced when transmission failed rather than repair transmission on a 10 year old truck
Replace Truck #58	Replace 2006 Truck with 104,000 miles	1702097						\$ 6,242	\$ 6,242	Merrimack	No	\$ -	\$ -	
20 Ton Tag Trailer replacement	20 Ton Tag Trailer replacement						\$ 20,000	\$ -	\$ -					Deferred
Variable Message Signs - 2	Customer Notification	1702307	DW14-130	25,734	11/7/2014	Yes	\$ 30,000	Paid 2014 Bond						P&I and property taxes recovered in DW16-806 Step Increase
Replacement Radio Meter Reading Equipment (4)	Replace 10 year old radio meter reading handheld units		DW14-130	25,734	11/7/2014	Yes	\$ 25,000	Paid 2014 Bond						P&I and property taxes recovered in DW16-806 Step Increase
Pipe Saws (5)	Pipe Saws (5)	1800440	DW17-183	26,101	2/2/2018	No	\$ 20,000	\$ -	\$ 9,384	Merrimack	No	\$ -	\$ -	
Metal Detectors (6)	Metal Detectors (6)	1708348	DW17-183	26,101	2/2/2018	No	\$ 7,000	\$ 6,360	\$ 6,360	Merrimack	No	\$ -	\$ -	
Replacement Excavator	Replacement Excavator	1702312	DW17-183	26,101	2/2/2018	No	\$ 75,000	\$ 69,554	\$ 69,554	Merrimack	No	\$ -	\$ -	
Complete construction of 16 DW Highway	Final billing for the completion of work by contractor at 16 DW Highway	1701990	DW17-183	26,101	2/2/2018	No	\$ -	\$ 67,050	\$ 65,140	Merrimack	Yes	\$ 28.17	\$ 1,835	Billing from final work on 16 DW not carried over in original budget
MRX meter reading device	MRX meter reading device	1708487	DW17-183	26,101	2/2/2018	No	\$ -	\$ 8,190	\$ 8,190	Various	No	\$ -	\$ -	Existing 8 year old meter reading device failed
GPS Units	Trimble Devices	1713734						\$ 21,287	\$ 21,287	Merrimack	No	\$ -	\$ -	Devices purchased early to support field deployment of GIS.
Raw Water Transmission Main project	Finalization of 2016 project	1601365, 1701991	DW15-046	25,774	4/13/2015	Yes	\$ -	Paid for by SRF	\$ 176,829	Merrimack	Yes	\$ 28.17	\$ 4,981	Charges are for Internal engineering, OH, Union Labor, truck and AFDUC. These expenses are not eligible for SRF funding.
Nashua & Amherst Paving	Final paving associated with watermain projects					No	\$ 1,100,000					\$ -	\$ -	Budget Placeholder
Nashua & Amherst Paving	Park Street Water Main Replacement project paving	1701989	DW17-183	26,101	2/2/2018	No	\$ 4,908	\$ 4,908	\$ 4,908	Nashua	Yes	\$ 29.82	\$ 146	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Mulberry Street Water Main Replacement project paving	1701988	DW17-183	26,101	2/2/2018	No	\$ 6,840	\$ 6,840	\$ 6,840	Nashua	Yes	\$ 29.82	\$ 204	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Contribution to City of Nashua in lieu of final trench restoration - includes Rochette, Ash, and Marquis	1718685, 1718684	DW17-183	26,101	2/2/2018	No	\$ 120,000	\$ 20,040	\$ 20,040	Nashua	Yes	\$ 29.82	\$ 598	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Chestnut Street Phase I Water Main Replacement project paving	1703643	DW17-183	26,101	2/2/2018	No	\$ 65,780	\$ 131,689	\$ 131,689	Nashua	Yes	\$ 29.82	\$ 3,927	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Scripture Street Water Main Replacement project paving	1703642	DW17-183	26,101	2/2/2018	No	\$ 11,200	\$ 2,466	\$ 2,466	Nashua	Yes	\$ 29.82	\$ 74	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Gorman Street Water Main Replacement project paving	1718679	DW17-183	26,101	2/2/2018	No	\$ -	\$ 400	\$ 400	Nashua	Yes	\$ 29.82	\$ 12	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Water Street Water Main Replacement project paving						\$ 44,561							Paving deferred at City request
Nashua & Amherst Paving	Brook Street Water Main Replacement project paving	1700310	DW17-183	26,101	2/2/2018	No	\$ -	\$ 9,844	\$ 9,844	Nashua	Yes	\$ 29.82	\$ 294	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Ash Street Water Main Replacement project paving	1700315	DW17-183	26,101	2/2/2018	No	\$ -	\$ 22,678	\$ 22,678	Nashua	Yes	\$ 29.82	\$ 676	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Worcester Street Area Water Main Replacement project paving	1718680	DW17-183	26,101	2/2/2018	No	\$ -	\$ 3,020	\$ 3,020	Nashua	Yes	\$ 29.82	\$ 90	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Lovell Street Water Main Replacement project paving	1703644	DW17-183	26,101	2/2/2018	No	\$ -	\$ 82,060	\$ 82,060	Nashua	Yes	\$ 29.82	\$ 2,447	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Towells Street Water Main Replacement project paving	1703639	DW17-183	26,101	2/2/2018	No	\$ -	\$ 17,233	\$ 17,233	Nashua	Yes	\$ 29.82	\$ 514	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Howard Street Water Main Replacement project paving	1718682	DW17-183	26,101	2/2/2018	No	\$ -	\$ 2,800	\$ 2,800	Nashua	Yes	\$ 29.82	\$ 83	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Horts Water Main Replacement project paving	1718683	DW17-183	26,101	2/2/2018	No	\$ -	\$ 1,000	\$ 1,000	Nashua	Yes	\$ 29.82	\$ 30	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Shedds Ave. Water Main Replacement project paving	1718681	DW17-183	26,101	2/2/2018	No	\$ -	\$ 2,000	\$ 2,000	Nashua	Yes	\$ 29.82	\$ 60	Budgeted under Final Paving associated with water main replacement projects
Amherst Street Project	Amherst Street Area Water Main Replacement Project													
Amherst Street Project - Amherst Street water main replacement	Replace 3,150 LF of 6" Unlined CI Water main on Amherst Street	1601318, 1702928	DW16-236	25,887	42486	Partial		Paid for by SRF	\$ 923,785	Nashua				Charges are for Internal engineering, OH, Union Labor, truck and AFDUC. These expenses are not eligible for SRF funding.
Amherst Street Project - Berkshire Street water main replacement	Replace xxx LF of x"/x" Steel/Unlined CI Water main on Berkshire Street	1601320, 1702931	DW16-236	25,887	42486	Yes		Paid for by SRF	\$ 6,058	Nashua	No			SRF funding. \$767,357 in 2017 construction costs were financed with SRF loan funds. The principal and interest associated with this loan amount must be recovered as part of the 2018 QCPAC surcharge.
Amherst Street Project - Terrace Ave. water main replacement	Replace 280 LF of 2"/4" Steel/Unlined CI Water main on Terrace Ave.	1601321, 1702932	DW16-236	25,887	42486	Yes	\$ 75,000	\$ 1,763	\$ 1,763	Nashua				
Amherst Street Project - Bruce Street water main replacement	Replace 260 LF of 6" Unlined CI Water main on Bruce Street	1601319, 1702930	DW16-236	25,887	42486	Yes	\$ 75,000	\$ 4,183	\$ 4,183	Nashua				
Sweet Hill	New Supplemental Well required by NHDES	1503914, 1602428, 1701490	DW17-183	26,101	2/2/2018	No	\$ 70,000	\$ 70,000	\$ 163,831	Plaistow	Yes	\$ 28.39	\$ 4,651	Project began in 2015. Project required by NHDES to address shortage of supply.
Pennichuck Bog - Educational Program Accessway	Construct Nature Walk around Pennichuck Bog						\$ 38,000	\$ -	\$ -					Deferred
Gilman Street	Replace 8 & 6 in CI with 1225 LF of 8 inch CLDI						\$ 425,000	\$ -	\$ -					Deferred until 2018
Amherst Mack Hill & Dodge	Replace 1525 feet of 8 A/C with CLDI Transfer services from A/C to D/I Dodge Rd.						\$ 300,000	\$ -	\$ -					Deferred until future date in coordination with Town Storm Drain project
Milford Booster Station Replacement	Replace 25 Yr old below ground confined space booster station w/above ground station						\$ 550,000	\$ -	\$ -					Project deferred indefinitely.
Snow Station Upgrade - Add 3rd pump	Increase pumping capacity to meet existing demands and contractual obligations	1702918	DW17-183	26,101	2/2/2018	No	\$ 125,000	\$ 13,323	\$ 13,323	Nashua	Yes	\$ 29.82	\$ 397	Analysis showed that rebuilding one pump would provide initial capacity required.
City Sewer Projects - TBD	Aging infrastructure replacement in coordination with sewer replacement						\$ 400,000							
Warren Street	Replaced 300 LF of 4 inch CI with 8 in DIPCL	1702870	DW17-183	26,101	2/2/2018	No	\$ 60,000	\$ 121,151	\$ 121,151	Nashua	Yes	\$ 29.82	\$ 3,613	\$20,000 for final paving in 2018
Lowell Street	Replaced 425 LF of 6 inch CI with 6 in DIPCL	1702874	DW17-183	26,101	2/2/2018	No	\$ 60,000	\$ 99,065	\$ 99,065	Nashua	Yes	\$ 29.82	\$ 2,954	\$38,500 for final paving in slate for 2018 was completed in 2017.
Green Street	Replaced 330 LF of 4 inch CI with 8 in DIPCL	1702872	DW17-183	26,101	2/2/2018	No	\$ 27,000	\$ 27,720	\$ 27,720	Nashua	Yes	\$ 29.82	\$ 827	Including final paving
Beard Street	Replaced 350 LF of 8 inch CI with 8 inch DIPCL	1702873	DW17-183	26,101	2/2/2018	No	\$ 75,000	\$ 78,412	\$ 78,412	Nashua	Yes	\$ 29.82	\$ 2,338	Including paving
Lemon Street	Replaced 320 LF of 2 inch CI with 4 in PVC	1702875	DW17-183	26,101	2/2/2018	No	\$ 30,250	\$ 73,389	\$ 73,389	Nashua	Yes	\$ 29.82	\$ 2,188	\$17,000 for final paving in 2018
Proctor Street	Replaced 130 LF of 2 & 1.5 inch CI with 4 inch PVC	1707322	DW17-183	26,101	2/2/2018	No	\$ 51,000	\$ 63,829	\$ 63,829	Nashua	Yes	\$ 29.82	\$ 1,903	Excludes final paving
Gillis Street	Replaced 1,290 LF of 4 inch CI with 8 inch DIPCL	1617684, 1703641	DW17-183	26,101	2/2/2018	No	\$ -	\$ 71,987	\$ 71,987	Nashua	Yes	\$ 29.82	\$ 2,147	Project missed in Nov 2017 filing
Temple Street	Replaced 375 LF of 8 inch CI with 6 inch HDPE and 8 inch DIPCL	1600381, 1703640	DW17-183	26,101	2/2/2018	No	\$ 151,093	\$ 148,873	\$ 148,873	Nashua	Yes	\$ 29.82	\$ 4,430	Including final paving
Mulvanity Street	Replaced 280 LF of 2 inch CI with 4 inch PVC	1707323	DW17-183	26,101	2/2/2018	No	\$ 106,300	\$ 88,957	\$ 88,957	Nashua	Yes	\$ 29.82	\$ 2,653	Excludes final paving
24" watermain from Manchester Street to Tinker Road	Add 1800 LF of 24 inch CLDI on Manchester Street Easement to Tinker Road						\$ 500,000	\$ -	\$ -					Deferred until 2018
Water main looping	Close loop on 101A end of main to beyond Truell and loop onto Truell 1200 LF						\$ 300,000	\$ -	\$ -					Deferred until 2018
Water main looping	Old Nashua Rd. RR Crossing @ Route 101A	1703646	DW17-183	26,101	2/2/2018	No	\$ -	\$ 8,334	\$ 8,334	Amherst	Yes	\$ 30.30	\$ 253	
2017 Main Street Area Water Main Replacement - Phase I	Fowell - Zellwood - Pratt replace 1720 lf of 6 in CI with 8 in CLDI						\$ 400,000	\$ -	\$ -					Part of Project deferred until 2018
Buchanan Avenue	Replaced 540 LF of 6 inch CI with 8 inch DIPCL	1702843	DW17-183	26,101	2/2/2018	No	\$ 84,752	\$ 96,013	\$ 96,013	Nashua	Yes	\$ 29.82	\$ 2,863	Individual Streets Part of 2017 Main Street AreaWater Main Replacement Project
Circle Ave. - Main Replacement	Replaced 400 LF of 2 inch Steel with 4 inch PVC	1715613	DW17-183	26,101	2/2/2018	No	\$ -	\$ 21,195	\$ 21,195	Nashua	Yes	\$ 29.82	\$ 632	
Fowell Street	Replaced 900 LF of 6 inch CI with 175 LF of 4 inch and 725 LF of 8 inch DIPCL	1702844	DW17-183	26,101	2/2/2018	No	\$ -	\$ 192,179	\$ 192,179	Nashua	Yes	\$ 29.82	\$ 5,731	Individual Streets Part of 2017 Main Street AreaWater Main Replacement Project
Zellwood Avenue	Replaced 375 LF of 6 inch CI with 4 in PVC	1702845	DW17-183	26,101	2/2/2018	No	\$ 480,000	\$ 51,142	\$ 51,142	Nashua	Yes	\$ 29.82	\$ 1,525	Individual Streets Part of 2017 Main Street AreaWater Main Replacement Project
Pratt Street	Replaced 710 LF of 6 inch CI with 12 inch DIPCL	1702846	DW17-183	26,101	2/2/2018	No	\$ -	\$ 146,106	\$ 146,106	Nashua	Yes	\$ 29.82	\$ 4,357	Individual Streets Part of 2017 Main Street AreaWater Main Replacement Project
2017 Main Street Area Water Main Replacement - Phase II	Aging infrastructure replacement						\$ 320,000							
Lincoln Street	Replaced 790 LF of 6 inch CI with 8 in DIPCL	1702841	DW17-183	26,101	2/2/2018		\$ 152,407	\$ 168,144	\$ 168,144	Nashua	Yes	\$ 29.82	\$ 5,014	Individual Streets Part of 2017 Main Street AreaWater Main Replacement Project
Nutt Street	Replaced 100 LF of 1 inch and 500 LF of 4 inch CI with 100 LF of 4 inch and 500 LF of 8 inch DIPCL	1702842	DW17-183	26,101	2/2/2018		\$ 120,440	\$ 109,004	\$ 109,004	Nashua	Yes	\$ 29.82	\$ 3,251	Individual Streets Part of 2017 Main Street AreaWater Main Replacement Project
Kinsley Street	Replace unlined cast iron leads to side streets ahead of City paving						\$ 175,000	\$ -	\$ -					Project deferred to 2017
Factory Street	Replace 12 & 8 in CI with 640 LF of 16 in CLDI 640 lf						\$ 250,000	\$ -	\$ -					Project deferred to 2018
Route 101 Widening, Bedford	NHDOT Project													
Route 101 Widening, Bedford	Relocate water main on Route 101	1701891	DW17-183	26,101	2/2/2018	No	\$ 46,200	\$ 45,074	\$ 45,074	Bedford	Yes	\$ 23.19	\$ 1,066	NHDOT project that was added in Spring of

Route 101 Widenning, Bedford	Relocate Service to 3 Nashua Road	1702840	DW17-183	26,101	2/2/2018	No		\$	67,400	\$	116,205	Bedford	Yes	\$	23.19	\$	2,695	NHDOT project that was added in Spring of 2017. Parial reimbursement from NHDOT of \$26,010.89		
Route 122 @ Nathan Lord Lane Water Main Relocation	Water Main Relocation to accommodate Town of Amherst Storm Drain installation	1715666	DW17-183	26,101	2/2/2018	No		\$	-	\$	54,630		Amherst	Yes	\$	30.30	\$	1,805	Town of Amherst Storm Drain project added in Fall of 2017	
Howard St. Emergency Main Replacement -	Howard St. Emergency Main Replacement -	1600371, 1601379									\$	106,838	Nashua	Yes	\$	29.82	\$	3,186	Emergency project to replace failed 2" steel water main late in 2017.	
Trimble Devices - Used for field locating Assets via GIS program	Upgrade to Ipad device driven units	1703027	DW17-183	26,101	2/2/2018	No		\$	72,000	\$	68,623		Merrimack	No						
Engineering Replacement Vehicles (2)	Replace 2 Vehicles	1702831, 1702832	DW14-130	25,734	11/7/2014	Yes		\$	64,000	Pd 2014 Bonds	\$	-		Merrimack	No				P&I and property taxes recovered in DW16-806 Step Increase	
Complete PWW Core System Hydraulic Model	Distribution Model Phase 2					Deferred. No Bond sought. No QCPAC sought.		\$	25,000	\$	-								Project underway, will not be used and useful in 2017	
PWW-PEU Interconnection - DW Highway to River	DW Highway to Merrimack River Booster station					Deferred. No Bond sought. No QCPAC sought.		\$	311,500	\$	-								Deferred to 2018 due to timing of final NHDES permitting	
WTP - Conversion to LED Lighting	WTP - Conversion to LED Lighting					Deferred. No Bond sought. No QCPAC sought.		\$	80,000	\$	-								Deferred, staff time not available to complete in 2017	
Booster/Well/Chem Feed pump replacements	Booster/Well/Chem Feed pump replacements		DW14-130	25,735	11/7/2014	Partial				Pd 2014 Bonds			Derry	Yes	\$	33.23	\$	-	P&I and property taxes recovered in DW16-806 Step Increase	
Booster/Well/Chem Feed pump replacements	Booster/Well/Chem Feed pump replacements	Monthly 60, 61, 62, 63	DW17-183	26,101	2/2/2018	No		\$	60,000	\$	38,000	\$	41,386	Derry	Yes	\$	33.23	\$	1,375	
Booster/Well/Chem Feed pump replacements	Replace VFD onTwin Ridge Well	1701888	DW17-183	26,101	2/2/2018	No		\$	2,089	\$	2,089		Plaistow	Yes	\$	28.39	\$	59	Budgetted under Booster/Well/Chem Feed pump replacement	
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS					Deferred. No Bond sought. No QCPAC sought.		\$	15,000	\$	-								Budget place holder. No treatment system installs/replacement YTD	
Misc. Structural Improvements	Misc. Structural Improvements					Deferred. No Bond sought. No QCPAC sought.		\$	20,000	\$	-								Budget place holder. No structural improvements YTD	
Harris Dam Spillway Reconstruction	Complete Harris Dam Spillway Reconstruction	1701987								\$	6,018	Nashua	Yes	\$	29.82	\$	179			
Replace Vehicle #62	Replace 11 year old truck with 107,863 miles		DW17-183	26,101	2/2/2018	No		\$	60,000	\$	45,000								A new vehicle was purchased and this vehicle was retained and kept in service. #99 was retired.	
Replace Vehicle #49	Replace 7 year old truck with 104,875 miles	1800462	DW17-183	26,101	2/2/2018	No		\$	35,000	\$	35,000	\$	27,323	Nashua	No				Retired #49	
Replace vehicle #204	Replace 6 year old truck with 175,260 miles	1800481	DW17-183	26,101	2/2/2018	No		\$	60,000	\$	45,000	\$	42,678	Nashua	No				Change from beginning of budget year as to type of vehicle being replaced. #204 retired.	
Replace Vehicle #63	Replace 7 year old truck with 110,249 miles		DW17-183	26,101	2/2/2018	No		\$	35,000	\$	35,000								Retired #63	
Replace Vehicle #44	Replace 8 year old truck with over 130,000 miles	1800479								\$	42,678	Nashua	No						Retired #44	
New Vehicle #119	New Water Supply Vehicle, no replacement	1704173	DW17-183	26,101	2/2/2018	No		\$	-	\$	63,038		Nashua	No					No vehicle retired.	
Replace Vehicle #99	Replace 11 year old truck with over 140,000 miles	1800480	DW17-183	26,101	2/2/2018	No				\$	27,323	Nashua	No						Retired #99	
Replace Vehicle #46	Add untily body to vehicle vehicle #46	1703002	DW17-183	26,101	2/2/2018	No				\$	2,071	Nashua	No						No vehicle retired.	
Install overhead crane and door-WTP process area	Install overhead crane and door-WTP process area	1701887, 1719861	DW17-183	26,101	2/2/2018	No		\$	75,000	\$	75,000	\$	45,731	Nashua	Yes	\$	29.82	\$	1,364	Design cost for WTP crane and door. Door is used and useful.
Merrimack River Station pump/motor rebuild	Merrimack River Station pump/motor rebuild		DW17-183	26,101	2/2/2018	No		\$	75,000	\$	25,000								Project deferred until 2018	
Misc. equipment purchases	WTP misc. equipment purchases							\$	25,000	\$	-									
Misc. equipment purchases	Purchase New Electric Multi-Meter	1715547	DW17-183	26,101	2/2/2018	No			\$	1,500	\$	1,500	Nashua	No					Budgetted under WTP Misc equipmnet purchased	
THM precursor control at Bon Terrain Tank	Install mixer in Bon Terrain Tank	1703024	DW17-183	26,101	2/2/2018	No			\$	2,600	\$	2,600	Amherst	Yes	\$	30.30	\$	79	Budgetted under WTP Misc equipmnet purchased	
Replace VFD on Sludge Chopper Pump at WTP	Replace VFD on Sludge Chopper Pump at WTP	1707190	DW17-183	26,101	2/2/2018	No			\$	3,303	\$	3,303	Nashua	Yes	\$	29.82	\$	104	Budgetted under WTP Misc equipmnet purchased	
WTP - Replace 30" IP Discharge Meter	WTP - Replace 30" IP Discharge Meter	1701885	DW17-183	26,101	2/2/2018	No			\$	17,177	\$	17,177	Nashua	Yes	\$	29.82	\$	512	Budgetted under WTP Misc equipmnet purchased	
Purchase new lab equipment	Purchase new lab equipment					Deferred. No Bond sought. No QCPAC sought.		\$	15,000	\$	-									
Purchase new lab equipment	Hanna Titrator	1707187	DW17-183	26,101	2/2/2018	No			\$	5,900	\$	5,900	Nashua	No					Budgetted under Purchase new lab equipment	
WTP structural/HVAC	Replaced Compressor on A/C Unit FWPS	1708347	DW17-183	26,101	2/2/2018	No		\$	10,000	\$	5,568	\$	5,568	Nashua	Yes	\$	29.82	\$	166	
Misc. Security upgrades for remote facilities	Misc. Fencing/Security Projects					Deferred. No Bond sought. No QCPAC sought.		\$	25,000	\$	-								Budget place holder. No Misc. Fencing/Security Projects YTD	
Complete Fencing around WTP for Security	Perimeter fencing at WTP	1706963	DW17-183	26,101	2/2/2018	No		\$	80,000	\$	5,588	\$	5,588	Nashua	Yes	\$	29.82	\$	167	Main Gate opening mechanism replaced. Fencing deferred
Replace Clarifier (2)Vacuum Blowers and Actuators	Replace Clarifier (2)Vacuum Blowers and Actuators					Deferred. No Bond sought. No QCPAC sought.		\$	25,000	\$	-								Deferred	
Misc. SCADA Electrical upgrades	Misc. SCADA Electrical					Deferred. No Bond sought. No QCPAC sought.		\$	30,000	\$	-								Budget Place Holder. See below for actual projects	
Misc. SCADA Electrical upgrades	Valleyfield - Install Cellular Communication	1701886	DW17-183	26,101	2/2/2018	No		\$	-	\$	5,000	\$	3,249	Plaistow	Yes	\$	28.39	\$	92	Budgetted under Misc. SCADA Electrical upgrades
Misc. SCADA Electrical upgrades	Install Cellular Communication, Cabot Preserve	1716549	DW17-183	26,101	2/2/2018	No				\$	2,642		Bedford	Yes	\$	23.19	\$	61	Project added to allow remote monitoring of water system	
Hi-Lo Generator	Hi-Lo Generator	1701899	DW17-183	26,101	2/2/2018	No				\$	47,332		Derry	Yes	\$	33.23	\$	1,573	Permanent standby generator added on site at this Community Water System.	
Armory Street Booster Pump VFD replacements	Replace failed VFD's on Armory Street Booster Pumps	1719862	DW17-183	26,101	2/2/2018	No		\$	-	\$	23,500	\$	-	Nashua	Yes	\$	29.82	\$	-	Budgetted under Misc. SCADA Electrical upgrades
Misc. SCADA Electrical upgrades	Replace all SCADA Computers and Upgrade System	1701889	DW17-183	26,101	2/2/2018	No		\$	-	\$	43,000	\$	19,990	Nashua	Yes	\$	29.82	\$	596	Unbudgetted. Security upgrades required hardware replacement
Well Rehabilitations (3)	Well Rehabilitations					Deferred. No Bond sought. No QCPAC sought.		\$	60,000	\$	-								Budget place holder. No Well Rehabilitation Projects YTD	
WTP Closed Circuit Camera replacement/improvements	Closed Circuit Camera replacement/improvements					Deferred. No Bond sought. No QCPAC sought.		\$	60,000	\$	-								Deferred	
WTP - Replace storefront glass, renovate WTP reception	Replace storefront glass, renovate WTP reception					Deferred. No Bond sought. No QCPAC sought.		\$	50,000	\$	-								Deferred	
Office renovation-conference room	Office renovation-conference room					Deferred. No Bond sought. No QCPAC sought.		\$	50,000	\$	-								Deferred	
Water Supply - Watershed Public Education	Fertilization / Pesticide - Phase 1					Deferred. No Bond sought. No QCPAC sought.		\$	20,000	\$	-								Will not be completed until 2018	
Stormwater BMP Notifications and Community Education	Stormwater BMP Notifications and Community Education					Deferred. No Bond sought. No QCPAC sought.		\$	12,000	\$	-								Will not be completed until 2018	
St. Joseph's Land Purchase	Watershed protection	1503675	DW17-183	26,101	2/2/2018	No				\$	69,790		Nashua	Yes	\$	29.82	\$	2,081	Project started in 2015. Land purchased from local hospital. Land adjacent to Supply Pond.	
Secure reception area	Office Security for Front Reception Desk	1708425	DW17-183	26,101	2/2/2018	No		\$	10,000	\$	20,990	\$	18,824	Merrimack	No				Original estimate did not include bullet proof glass and other security features	
Adjustable Desk Tops	Accommodate back issues	1713759	DW17-183	26,101	2/2/2018	No		\$	-	\$	6,088	\$	6,088	Merrimack	No					
Asset Management - Phase 3	Asset Management 2016 Carry over	1600061	DW17-183	26,101	2/2/2018	No		\$	200,000	\$	200,000	\$	161,590	Merrimack	Yes	\$	28.17	\$	4,552	
Conversion to R.A.M. Fixed Assets carry-over	Conversion to R.A.M. Fixed Assets carry-over	1707349	DW17-183	26,101	2/2/2018	No		\$	11,000	\$	11,000	\$	6,929	Merrimack	No	\$	-	\$	-	
Firewall	Firewall replacement	1702081	DW17-183	26,101	2/2/2018	No		\$	50,000	\$	36,426	\$	28,228	Merrimack	No					
Asset Management - Phase 4	Continue progress on Asset Management implementation	1700300	DW17-183	26,101	2/2/2018	No		\$	736,000	\$	350,000	\$	492,133	Various	Yes	\$	28.85	\$	14,198	Reduced level of work than budgetted due to staff time diverted to PF-GA response
Click Mobile Upgrade	Upgrade ClickMobile to work on iPads	1707189	DW17-183	26,101	2/2/2018	No		\$	150,000	\$	5,400									

Total Projected 2017 PWW Capital Ex \$ 9,729,000 \$ 4,163,760 \$ 6,058,766
Amount to be funded with April 2018 Bond issue - \$ 5,291,409
Amount to be funded with Amherst Street Project SRF loan - \$ 767,357

Projected Property Tax - \$ 122,079

1. Tax rate is the sum of the local community rate plus the Statewide Utility tax rate of \$6.60/\$1000

Project Name/Description	Project Description	Work Order #	Financing Docket No.	Approved Budgeted Amount	Estimated Project Cost as of 6/30/2018	Estimated Project Cost as of 9/30/2018	Estimated Project Cost as of 11/30/2018	Final Project cost as of 12/31/2018	Community	Taxable	Tax Rate (l)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since 1/30/2018
Replace Forman Truck	Existing Truck has been a safety and maintenance problem	1708351 & 1813525	2019 Docket	\$ 90,000	\$ 97,685	\$ 120,756	\$ 120,756	\$ 92,018	Merrimack	No	\$ 28.92	\$ -	Additional labor, metal and other hardware to properly outfit the truck. Project reduced by \$16,000 for trade in value.
Single Family New Services	Single Family, Owner Build, New Homes	20 workorders	2019 Docket	\$ 46,000	\$ 46,000	\$ 46,000	\$ 37,403	\$ 40,850	Various	Yes	\$ 28.40	\$ 1,160	10 New Services installed in 2018
Renewed Services	Replacement of failed services	workorders	2019 Docket	\$ 92,000	\$ 92,000	\$ 37,758	\$ 40,000	\$ 47,818	Various	Yes	\$ 28.40	\$ 1,358	18 failed services replaced in 2018.
Hydrants	Replacement of non functional hydrants (Run rate) (8 YTD)	30 & 31 workorders	2019 Docket	\$ 50,000	\$ 50,000	\$ 50,000	\$ 45,000	\$ 35,560	Various	Yes	\$ 28.40	\$ 1,010	8 failed hydrants replaced in 2018.
Valve Replacements	Replacement of Failed Gate Valves	workorders	2019 Docket	\$ 30,000	\$ 30,000	\$ 20,000	\$ 32,000	\$ 14,412	Various	Yes	\$ 28.40	\$ 409	5 failed gate valves replaced in 2018.
Replace failed meter reading radios	Replace out of warrantee failed radio meter readers	54 workorders	2019 Docket	\$ 50,000	\$ 50,000	\$ 50,000	\$ 60,000	\$ 46,153	Various	Yes	\$ 28.40	\$ 1,311	602 failed radios replaced in 2018.
New Meters (growth) 5/8"-2" (CORE & CWS)	New meters for new customers.	50 workorders	2019 Docket	\$ 114,000	\$ 114,000	\$ 40,000	\$ 40,000		Various	Yes	\$ 28.40	\$ -	2,303 new meters installed in 2018. The new meters installed were for new customers and also to replace meters that had lead content in excess of 0.25% by weight of the brass meter body.
New Meters for Lead Meter exchanges (PWW-CORE & CWS) 5/8"-6"	Replace High lead brass meter with new no lead brass meter (2071 YTD)	50 workorders	2019 Docket	\$ 532,000	\$ 532,000	\$ 360,000	\$ 340,000	\$ 326,902	Various	Yes	\$ 28.40	\$ 9,284	
Ferromagnetic Pipe locators (3)	Ongoing small equipment replacement - run rate	-	2019 Docket	\$ 10,000	\$ 10,000	\$ 10,000	\$ -	\$ -	Merrimack	No	\$ 28.92	\$ -	Purchase deferred until 2019
Service Truck replacement (#76)	Replace 2008 Pick up with 156,000+ miles	1900417	2019 Docket	\$ 60,000	\$ 60,000	\$ 60,000	\$ 61,905	\$ 61,905	Merrimack	No	\$ 28.92	\$ -	
1 Service Truck - New	Service Truck for 1 new ops employees	1900416	2019 Docket	\$ 35,000	\$ 35,000	\$ 35,000	\$ 62,215	\$ 62,215	Merrimack	No	\$ 28.92	\$ -	Vehicle spec was changed to Heavy Duty Quad Cab
Replacement of Meter Supervisor Truck (#14)	Replace 7 year old pick up with 167,000+ miles with small SUV	1825491	2019 Docket	\$ 28,000	\$ 28,000	\$ 28,000	\$ 31,563	\$ 25,563	Merrimack	No	\$ 28.92	\$ -	Project reduced by \$6,000 for trade in value.
Replace Valve/vac trailer unit	Existing unit has reach the end of its usable life		2019 Docket	\$ 65,000	\$ 65,000	\$ -	\$ -	\$ -	Merrimack	No	\$ 28.92	\$ -	Project deferred until 2019
Trimble units for Meter Reading (6 units)	Replace CE meter reading equipment	1830144	2019 Docket	\$ 39,000	\$ 39,000	\$ 48,000	\$ 58,829	\$ 56,829	Merrimack	No	\$ 28.92	\$ -	
Pipe Saws (3)	Ongoing small equipment replacement - run rate	1819287	2019 Docket	\$ 6,000	\$ 6,000	\$ 5,900	\$ 5,900	\$ 5,900	Merrimack	No	\$ 28.92	\$ -	
Metal Detectors (6)	Ongoing small equipment replacement - run rate		2019 Docket	\$ 7,000	\$ 7,000	\$ 7,000	\$ -	\$ -	Merrimack	No	\$ 28.92	\$ -	Purchase deferred until 2019
Add Air Conditioning to Mechanics Bay	Security Project	1805724	2019 Docket	\$ 52,000	\$ 62,641	\$ 62,641	\$ 62,641	\$ 62,641	Merrimack	Yes	\$ 28.92	\$ 1,812	Updated quotes with higher materials cost, steel surcharge & Freight.
Four trench boxes	Replace 22 year old trench boxes	1818578	2019 Docket	\$ 20,000	\$ 22,456	\$ 22,456	\$ 22,456	\$ 22,456	Merrimack	No	\$ 28.92	\$ -	
Vehicle Lift Replacement	Replace 9000lb Ammo lift with new 12000lb Rotary Lift in Mechanic's Bay	1805726	2019 Docket	\$ -	\$ -	\$ 7,974	\$ 7,974	\$ 7,974	Merrimack	Yes	\$ 28.92	\$ 231	
Utility Truck	Replace Vehicle #4 2011 F-350 w/ 140,000 miles and higher maintenance needs		2019 Docket	\$ -	\$ -	\$ 65,000	\$ 62,215	\$ -	Merrimack	No	\$ 28.92	\$ -	Purchase deferred until 2019
Utility Van	Replace Vehicle #72 2011 Ford E-2500 Van - High milage & maintenance costs	1826440	2019 Docket	\$ -	\$ -	\$ 35,000	\$ 31,648	\$ 32,052	Merrimack	No	\$ 28.92	\$ -	2019 Capital Budget item moved to 2018
Utility Van	Replace Vehicle #27 2011 Ford E-2500 Van - High Milage & maintenance costs	1826439	2019 Docket	\$ -	\$ -	\$ 35,000	\$ 31,704	\$ 32,897	Merrimack	No	\$ 28.92	\$ -	2019 Capital Budget item moved to 2018
Utility Van	Replace Vehicle #26 2011 Ford E-2500 Van - high milage & maintenance costs	1826438	2019 Docket	\$ -	\$ -	\$ 35,000	\$ 31,740	\$ 32,097	Merrimack	No	\$ 28.92	\$ -	2019 Capital Budget item moved to 2018
Road Plates (2)	8x8 and 8x10 1" Steel Road Plates	1830146	2019 Docket	\$ -	\$ -	\$ 5,500	\$ 5,380	\$ 5,380	Merrimack	No	\$ 28.92	\$ -	2019 Capital Budget item moved to 2018
Interconnection of BWC (Bedford) to PWW	Interconnection of BWC (Bedford) to PWW	1800734	2019 Docket	\$ 85,000	\$ 310,000	\$ 310,000	\$ 310,000	\$ 258,923	Bedford	Yes	\$ 24.76	\$ 6,411	Original budget done prior to design; increased scope of work to remove all AC water main from Back River Rd.
Elm St	Replace 1570 LF of 8 & 6 inch CI with 12 inch DIPCL	1812907	2019 Docket	\$ 416,000	\$ -	\$ -	\$ -	\$ -	Nashua	Yes	\$ 27.81	\$ -	City Sewer delayed until 2019
Monroe Street	Replace 485 LF of 4 inch (HDPE,CI) with 8 inch DIPCL	1812908	2019 Docket	\$ 122,000	\$ -	\$ -	\$ -	\$ -	Nashua	Yes	\$ 27.81	\$ -	City Sewer delayed until 2019
West Pearl Street	Replace 325 LF of 8 inch CI with 8 inch DIPCL	1812909	2019 Docket	\$ 100,000	\$ -	\$ -	\$ -	\$ -	Nashua	Yes	\$ 27.81	\$ -	City Sewer delayed until 2019
Gillis St	Residual paving from prior year main replacement	1812910	2019 Docket	\$ 143,000	\$ 66,000	\$ 60,000	\$ 61,887	\$ 61,887	Nashua	Yes	\$ 27.81	\$ 1,721	Restoration turned over to City of Nashua with multiple utilities contributing
Orange St (Concord St to Lock St)	Residual paving from prior year main replacement	1812911	2019 Docket	\$ 96,000	\$ 96,000	\$ 65,000	\$ 98,236	\$ 98,236	Nashua	Yes	\$ 27.81	\$ 2,732	Based on revised paving contribution estimate
Temple Street	Residual paving from prior year main replacement	1812923	2019 Docket	\$ -	\$ 20,000	\$ 20,000	\$ 20,000	\$ -	Nashua	Yes	\$ 27.81	\$ -	Residual Paving Costs still outstanding at end of 2018
Buchanan St	Residual paving from prior year main replacement	1800533	2019 Docket	\$ 36,600	\$ 36,600	\$ 38,000	\$ 33,330	\$ 33,330	Nashua	Yes	\$ 27.81	\$ 927	
Lincoln Ave	Residual paving from prior year main replacement	1813071 & 1807532	2019 Docket	\$ 52,300	\$ 52,300	\$ 54,000	\$ 70,337	\$ 69,988	Nashua	Yes	\$ 27.81	\$ 1,946	
Nutt St	Residual paving from prior year main replacement	1812912	2019 Docket	\$ 39,600	\$ 39,600	\$ 41,000	\$ 29,134	\$ 29,134	Nashua	Yes	\$ 27.81	\$ 810	
Circle Ave	Residual paving from prior year main replacement	1812913	2019 Docket	\$ 11,000	\$ 11,000	\$ 19,140	\$ 9,136	\$ 9,136	Nashua	Yes	\$ 27.81	\$ 254	
Praet St	Residual paving from prior year main replacement	1812914	2019 Docket	\$ 47,000	\$ 47,000	\$ 49,000	\$ 46,218	\$ 46,218	Nashua	Yes	\$ 27.81	\$ 1,285	
Zellwood Ave	Residual paving from prior year main replacement	1812915	2019 Docket	\$ 25,000	\$ 25,000	\$ 27,000	\$ 26,076	\$ 26,077	Nashua	Yes	\$ 27.81	\$ 725	
Faxon St	Residual paving from prior year main replacement	1812916	2019 Docket	\$ 6,000	\$ 6,000	\$ 7,000	\$ -	\$ -	Nashua	Yes	\$ 27.81	\$ -	Residual Paving Costs still outstanding at end of 2018
Fifield St	Residual paving from prior year main replacement	1812917 & 1806835	2019 Docket	\$ 4,400	\$ 4,400	\$ 6,400	\$ 28,673	\$ 59,273	Nashua	Yes	\$ 27.81	\$ 1,648	
Fowell Ave	Residual paving from prior year main replacement	1807533	2019 Docket	\$ 59,400	\$ 59,400	\$ 61,000	\$ 57,308	\$ 57,369	Nashua	Yes	\$ 27.81	\$ 1,595	
Terrace Street	Residual paving from prior year main replacement	1812918	2019 Docket	\$ 5,200	\$ 5,200	\$ 5,200	\$ -	\$ -	Nashua	Yes	\$ 27.81	\$ -	Residual Paving Costs still outstanding at end of 2018
Beard St	Residual paving from prior year main replacement	1812919	2019 Docket	\$ 16,100	\$ 17,700	\$ 17,700	\$ -	\$ -	Nashua	Yes	\$ 27.81	\$ -	Residual Paving Costs still outstanding at end of 2018
Green St	Residual paving from prior year main replacement	1812920	2019 Docket	\$ 3,100	\$ 3,100	\$ 3,100	\$ -	\$ -	Nashua	Yes	\$ 27.81	\$ -	Residual Paving Costs still outstanding at end of 2018
Warren St	Residual paving from prior year main replacement	1807535	2019 Docket	\$ 11,000	\$ 11,000	\$ 11,000	\$ -	\$ -	Nashua	Yes	\$ 27.81	\$ -	Residual Paving Costs still outstanding at end of 2018
Lowell St	Residual paving from prior year main replacement	1812921	2019 Docket	\$ 23,000	\$ 23,000	\$ 23,000	\$ -	\$ -	Nashua	Yes	\$ 27.81	\$ -	Residual Paving Costs still outstanding at end of 2018
Lemon St	Residual paving from prior year main replacement	1812922	2019 Docket	\$ 4,400	\$ 4,400	\$ 4,400	\$ 4,400	\$ -	Nashua	Yes	\$ 27.81	\$ -	Residual Paving Costs still outstanding at end of 2018
Lawndale Ave	Residual paving from prior year main replacement	1900349	2019 Docket				\$ 8,193	\$ 8,193	Nashua	Yes	\$ 27.81	\$ 228	
Main Street	Residual paving from prior year main replacement	xxxx	2019 Docket				\$ 6,402	\$ -	Nashua	Yes	\$ 27.81	\$ -	Residual Paving Costs still outstanding at end of 2018
Mulvanity St - Emergency Replacement	Residual paving from prior year main replacement	1812925	2019 Docket	\$ 51,700	\$ 21,670	\$ 21,670	\$ 21,670	\$ 20,101	Nashua	Yes	\$ 27.81	\$ 559	Paving shared with other impacted Utilities and City
Proctor Street Emergency Replacement	Residual paving from prior year main replacement	1812924	2019 Docket	\$ -	\$ 11,600	\$ 11,600	\$ 10,896	\$ 10,896	Nashua	Yes	\$ 27.81	\$ 303	
Reserve for Contingent Liability for Paving Costs	Reserve for Contingent Liability for Paving Costs	n/a	2019 Docket	\$ (634,800)	\$ (634,800)	\$ (634,800)	\$ -	\$ -	Nashua	No	\$ 27.81	\$ -	Contingent Paving obligation paid
Asset Management	Asset Management	1800341	2019 Docket	\$ 330,000	\$ 561,000	\$ 461,000	\$ 380,000	\$ 386,820	Various	Yes	\$ 28.40	\$ 10,986	Reduced based on anticipated work to be completed in 2018
Asset Management - Outside GIS Consulting Services	Outside GIS Consulting Services	1800341	2019 Docket	\$ 73,000	\$ 73,000	\$ -	\$ -	\$ -	Various	No	\$ 28.40	\$ -	Carried in Asset Management Budget
Asset Management - Water Modeling Consulting	Water Modeling Consulting	1800341	2019 Docket	\$ 50,000	\$ 50,000	\$ 10,000	\$ 10,000	\$ -	Various	No	\$ 28.40	\$ -	Used on an as-needed basis
Asset Management - Trimble R2 Units	Trimble R2 Units	1800341	2019 Docket	\$ 13,000	\$ -	\$ -	\$ -	\$ -	Various	Yes	\$ 28.40	\$ -	Replacement not needed in 2018
Asset Management - Water Level Well Monitoring Equipment	Water Level Well Monitoring Equipment	1800341	2019 Docket	\$ 5,000	\$ 5,000	\$ -	\$ -	\$ -	Various	No	\$ 28.40	\$ -	Replacement not needed in 2018
Gilman Street	Replace 1470 LF of 8 inch CI with 12 inch DIPCL	1806433	2019 Docket	\$ 475,100	\$ 435,000	\$ -	\$ -	\$ -	Nashua	Yes	\$ 27.81	\$ -	Project deferred until 2019
Ritter Street	Replace 500LF of 6 inch CI with 12 inch DIPCL	1702858 & 1806828	2019 Docket	\$ 161,500	\$ 215,000	\$ 225,000	\$ 191,000	\$ 168,793	Nashua	Yes	\$ 27.81	\$ 4,694	
Woodward Street	Replace 300 LF of 6 inch CI with 12 inch DIPCL	1702857 & 1806829	2019 Docket	\$ 95,300	\$ 110,000	\$ 130,000	\$ 142,373	\$ 145,417	Nashua	Yes	\$ 27.81	\$ 4,044	Increased due to conditions encountered during construction and additional temporary paving
Factory Street	Replace 625 LF of 8 inch and 950 LF CI 950 LF of 16 inch DIPCL	1702836 & 1806830	2019 Docket	\$ 487,000	\$ 520,000	\$ 540,000	\$ 602,707	\$ 607,926	Nashua	Yes	\$ 27.81	\$ 16,906	Increased due to conditions encountered during construction and additional temporary paving
Pennichuck Street	Replace 100 LF of 12 inch CI with 12 inch DIPCL	1720993 & 1806831	2019 Docket	\$ 39,900	\$ 42,000	\$ 76,000	\$ 76,000	\$ 78,146	Nashua	Yes	\$ 27.81	\$ 2,173	Increased due to conditions encountered during construction and additional temporary paving
Early Street	Replace 385 LF of 6" CI with 8" DIPCL	1806836	2019 Docket	\$ -	\$ 119,000	\$ 119,000	\$ 161,436	\$ 161,622	Nashua	Yes	\$ 27.81	\$ 4,495	Added to Misc Replacements to improve fire protection near hospital
Fossa Avenue	Replace 310 LF of 6 inch CI and 2 PVC with 6 inch and 4 inch DIPCL	1720991 & 1806801	2019 Docket	\$ 46,200	\$ 38,346	\$ 38,346	\$ 115,917	\$ 114,888	Nashua	Yes	\$ 27.81	\$ 3,195	Reduce based on bid numbers does not include final paving
Russell Avenue	Replace 775 LF of 8 inch and 275 LF of 6 inch CI with 775 LF of 8 inch and 225 LF of 4 inch DIPCL	1720992 & 1806802	2019 Docket	\$ 237,800	\$ 197,374	\$ 197,374	\$ 255,478	\$ 256,860	Nashua	Yes	\$ 27.81	\$ 7,143	Final Paving completed in 2018
Taylor Street (Main St to Lynn)	Replace 2084 LF of 6 inch CI with 8 inch DIPCL	1806803	2019 Docket	\$ 171,800	\$ 142,594	\$ 152,600	\$ 651,368	\$ 651,468	Nashua	Yes	\$ 27.81	\$ 18,117	Amount of replacement p/por increased from 790 LF to 2084 LF, includes final paving
Burnett Street	Replace 535 LF of 6 inch CI with 12 inch DIPCL	1806804	2019 Docket	\$ 172,800	\$ 143,424	\$ 143,424	\$ 203,565	\$ 203,647	Nashua	Yes	\$ 27.81	\$ 5,663	Final Paving completed in 2018
Field Street	Replace 325 LF of 6 inch CI with 6 inch DIPCL	1806435	2019 Docket	\$ 71,700	\$ 59,511	\$ 59,511	\$ 67,483	\$ 67,483	Nashua	Yes	\$ 27.81	\$ 1,877	Final Paving completed in 2018
Fernwood Street	Replace 450 LF of 6 inch CI with 6 inch DIPCL	1806794	2019 Docket	\$ 159,000	\$ 131,970	\$ 131,970	\$ 113,479	\$ 113,579	Nashua	Yes	\$ 27.81	\$ 3,159	Final Paving completed in 2018
Revere Street	Replace 760 LF of 6 inch CI with 8 inch DIPCL	1806795	2019 Docket	\$ 191,000	\$ 158,530	\$ 158,530	\$ 182,994	\$ 183,064	Nashua	Yes	\$ 27.81	\$ 5,091	Final Paving completed in 2018
Stevens Street	Replace 760 LF of 8 inch CI and 160 LF of 6 inch CI with 760 LF of 8 inch and 160 LF of 4 inch DIPCL	1806797	2019 Docket	\$ 40,000	\$ 33,200	\$ 40,200	\$ 264,258	\$ 264,358	Nashua	Yes	\$ 27.81	\$ 7,352	The \$40,200 in the Board approved budget was a copy and paste error. The correct budget for this project based on the distribution engineer's original estimate was \$xxxx,xxx
Evergreen Street	Replace 310 LF of 1.5 and 1.25 inch CI with 4 inch DIPCL	1806798	2019 Docket	\$ 69,300	\$ 57,519	\$ 57,519	\$ 71,595	\$ 71,695	Nashua	Yes	\$ 27.81	\$ 1,994	Final Paving completed in 2018
Morton Street	Replace 290 LF of 1.5 inch CI with 550 LF of 4 inch DIPCL	1806799	2019 Docket	\$ 94,000	\$ 78,020	\$ 78,020	\$ 103,934	\$ 104,035	Nashua	Yes	\$ 27.81	\$ 2,893	Final Paving completed in 2018
Pack Avenue	Replace 300 LF of 8 inch CI and 160 LF of 2 inch CI with 300 LF of DIPCL and 160 LF of 4 inch DIPCL	1806796	2019 Docket	\$ 132,000	\$ 109,560	\$ 109,560	\$ 180,970	\$ 180,796	Nashua	Yes	\$ 27.81	\$ 5,028	Final Paving completed in 2018. Original budget assumed paving would be completed in 2019.
Coburn Woods (all side streets)	Replace 4400 LF of 2 inch PVC with 4 inch DIPCL	n/a	2019 Docket	\$ 1,024,400	\$ -	\$ -	\$ -	\$ -	Nashua	Yes	\$ 27.81	\$ -	Deferred to future, time frame undetermined

Project Name/Description	Project Description	Work Order #	Financing Docket No.	Approved Budgeted Amount	Estimated Project Cost as of 6/30/2018	Estimated Project Cost as of 9/30/2018	Estimated Project Cost as of 11/30/2018	Final Project cost as of 12/31/2018	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since 1/30/2018
Northwest High Pressure System Improvements	Looping of dead end mains. Parallel watermain required to rebuild Kessler Tank		2019 Docket					\$ -				\$ -	Project needed to be deferred to complete other water main replacement projects that came up in 2018
Northwest High Pressure System Improvements	Add 2700 LF of 24 inch DIPCL on Manchester St.	1806805	2019 Docket	\$ 600,000	\$ -	\$ -	\$ -	\$ -	Nashua	Yes	\$ 27.81	\$ -	Deferred to 2019 to take advantage of low interest DWGTF Loan - design and survey
Northwest High Pressure System Improvements	Add 2200 LF of 12 inch DIPCL to close loop between Rte 101A and Rte 121 (Amherst)	1806810	2019 Docket	\$ 500,000	\$ -	\$ -	\$ -	\$ -	Amherst	Yes	\$ 31.59	\$ -	Deferred to 2019 to take advantage of low interest DWGTF Loan - design and survey
Northwest High Pressure System Improvements	Replace 825 LF of 16 inch AC with 825 LF of 24 inch DIPCL along Tinker Rd.	1806434	2019 Docket	\$ 440,000	\$ -	\$ -	\$ -	\$ -	Nashua	Yes	\$ 27.81	\$ -	Deferred to 2019 to take advantage of low interest DWGTF Loan - design and survey
Northwest High Pressure System Improvements	Replace 1300 LF of 12 inch AC with 1300 LF of 24 inch DIPCL along Deerwood Dr.	1806806	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ -	Nashua	Yes	\$ 27.81	\$ -	Deferred to 2019 to take advantage of low interest DWGTF Loan - design and survey
Northwest High Pressure System Improvements	Add 3400 LF or 20 inch HDPE and 24" DIPCL RR Crossing parallel to Amherst St (Nashua Airport)	1806808	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ -	Nashua	Yes	\$ 27.81	\$ -	Deferred to 2019 to take advantage of low interest DWGTF Loan - design and survey
Lake Street	Replace 2950 LF of 6 inch CI with 12 inch DI	1814740	2019 Docket	\$ 1,085,200	\$ 1,415,200	\$ -	\$ -	\$ -	Nashua	Yes	\$ 27.81	\$ -	Gas Company with late start. Project requires temporary water. Deferred to 2019
Kinsley Street	Replace 275 LF of 12" CI and 1020 LF of 6" CI with 12" DIPCL	1702860 & 1825911	2019 Docket		\$ 526,000	\$ 542,620	\$ 693,441	\$ 693,827	Nashua	Yes	\$ 27.81	\$ 19,295	In conjunction with the City of Nashua's 2018 sewer replacements
Harvard Street	Replace 784 LF of 8 inch CI with 8 inch DIPCL	1814742	2019 Docket		\$ 150,000	\$ -	\$ -	\$ -	Nashua	Yes	\$ 27.81	\$ -	In conjunction with the City of Nashua's 2018 sewer replacements - Delayed to 2019
Replace Jeep with Pickup	Replace 2006 Jeep with 152,407 miles with Pickup	1817800	2019 Docket	\$ 30,000	\$ 22,969	\$ 22,969	\$ 22,969	\$ 22,969	Merrimack	No	\$ 28.92	\$ -	
Replace Ranger Pickup	Replace 2005 Ranger Pickup with 186,885 miles	1817796	2019 Docket	\$ 30,000	\$ 34,050	\$ 34,054	\$ 34,054	\$ 34,054	Merrimack	No	\$ 28.92	\$ -	
Mast Road Replacement (PEU-PWW) Interconnection	PWW share of PWW-PEU Interconnection budget	1807148	2019 Docket	\$ -	\$ 57,000	\$ 67,850	\$ 67,850	\$ 33,925	Merrimack	Yes	\$ 28.92	\$ 1,962	Added after approved budget. Opportunity to replace 8 inch A/C pipe. 50% paid for by PEU per Order #26,049 in Dw17-071. Full value of project, \$67,850 is taxable to PWW.
Marshall Street	Replace 1074 LF of 8" CI with 1074 LF of 8" DIPCL	1813935	2019 Docket	\$ -	\$ 270,000	\$ 325,000	\$ 354,813	\$ 355,362	Nashua	Yes	\$ 27.81	\$ 9,883	RR crossing on Marshall St was to be lowered and fire protection concerns
Ferryalls Court	Replace 116 LF of 1.25" steel pipe with 4" PVC	1825319	2019 Docket	\$ -	\$ 60,000	\$ 62,000	\$ 77,391	\$ 78,552	Nashua	Yes	\$ 27.81	\$ 2,185	Paving program to overlay street. Found leak. Main froun in poor condition
Salvail Court	Replace 100 LF of 1.25 inch steel pipe with 4 inch PVC	1825910	2019 Docket	\$ -	\$ 55,000	\$ 55,000	\$ 55,000		Nashua	Yes	\$ 27.81	\$ -	paving program, same era as Ferry Alls Ct.
Lovewell Street	Replace 400 LF of 1.25" steel pipe with 8" DIPCL	1825912	2019 Docket	\$ -	\$ 210,000	\$ 86,000	\$ 139,276	\$ 139,417	Nashua	Yes	\$ 27.81	\$ 3,877	Gas replacement will compromise 1933 era water line. Based on revised contractor estimate. Final paving completed in 2018
Shakespeare High Pressure System	Expand HP system to address pressure issues to 4 streets	1813926	2019 Docket	\$ -	\$ 273,000	\$ 230,000	\$ 230,000	\$ 211,941	Nashua	Yes	\$ 27.81	\$ 5,894	Project developed in response to a combination of low pressure and pressure surges causing customer plumbing issues.
Lakeside Avenue	Replace 275 LF of 1.25" steel pipe with 4" PVC	n/a	2019 Docket	\$ -	\$ 75,000	\$ -	\$ -	\$ -	Nashua	Yes	\$ 29.82	\$ -	Gas Company with late start. Project requires temporary water. Deferred to 2019
Cheshire Street	Replace 394 LF of 8" AC with 394 LF of 12" DIPCL	1825913	2019 Docket	\$ -	\$ -	\$ 123,000	\$ 183,586	\$ 183,707	Nashua	Yes	\$ 27.81	\$ 5,109	Eliminate AC water main located in Street that City added to their 2018 street paving project. Final paving completed in 2018.
Investment in developer installed services at 1x annual revenue	Per tariff (224)	n/a	2019 Docket	\$ -	\$ -	\$ 133,175	\$ 133,175	\$ 141,179	Various	Yes	\$ 28.40	\$ 4,009	Tariffed investment not included in Board approved budget
Chase Street	Replace 430 LF of 6" CI with 4: HDPE	1829925		\$ -	\$ -	\$ -	\$ 134,600	\$ -	Nashua	Yes	\$ 27.81	\$ -	Completed in conjunction with a City of Nashua Sewer Replacement. City covering Street reconstruction
Booster/Well/Chem Feed pump replacements	Booster/Well/Chem Feed pump replacements (13 YTD)	60, 61, 62 & 63 workorders	2019 Docket	\$ 60,000	\$ 60,000	\$ 60,000	\$ 48,354	\$ 50,899	Various	Yes	\$ 28.40	\$ 1,446	
Replace 2 Submersible Jet Pumps	Replace two submersible jet pumps in the headworks at the WTP	1818297	2019 Docket	\$ -	\$ -	\$ 14,707	\$ 14,707	\$ 14,707	Nashua	Yes	\$ 27.81	\$ 409	
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS	n/a	2019 Docket	\$ 15,000	\$ 15,000	\$ 15,000	\$ -	\$ -	Various	Yes	\$ 28.40	\$ -	
Misc. Structural Improvements	Misc. Structural Improvements		2019 Docket	\$ 20,000	\$ 20,000	\$ 5,000	\$ -	\$ -	Various	Yes	\$ 28.40	\$ -	
Misc. Structural Improvements	WTP - Replace FWPS oil Tank Leak Monitor	1820031	2019 Docket	\$ -	\$ -	\$ 1,200	\$ 3,331	\$ 3,331	Nashua	Yes	\$ 27.81	\$ 93	
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased		2019 Docket	\$ 20,000	\$ 20,000	\$ 5,000	\$ -	\$ -	Various	Yes	\$ 28.40	\$ -	
Replacement of 18" Backwash Actuator	The replacement of the electric valve actuator for the 18" backwash water control valve	1819988	2019 Docket	\$ -	\$ -	\$ 4,456	\$ 4,456	\$ 4,456	Nashua	Yes	\$ 27.81	\$ 124	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical		2019 Docket	\$ 30,000	\$ 30,000	\$ 10,000	\$ -	\$ -	Various	Yes	\$ 28.40	\$ -	
Miscellaneous SCADA/Electrical	WTP - Replace High Lift #4, Soft Starter Mechanism	1813113	2019 Docket	\$ -	\$ -	\$ 5,265	\$ 5,265	\$ 5,265	Nashua	Yes	\$ 27.81	\$ 146	
Miscellaneous SCADA/Electrical	WTP - Replace Turbidimeter Controller - Filters 1A/1B	1805725	2019 Docket	\$ -	\$ -	\$ 3,246	\$ 3,246	\$ 3,246	Nashua	Yes	\$ 28.40	\$ 92	
Miscellaneous SCADA/Electrical	Install CMI units on 4 meters at this location	1814856	2019 Docket	\$ -	\$ -	\$ 3,272	\$ 3,272	\$ 3,572	Nashua	Yes	\$ 27.81	\$ 99	
Miscellaneous SCADA/Electrical	Replacement of the variable frequency drive unit for pump #2 at this location	1819989	2019 Docket	\$ -	\$ -	\$ 9,765	\$ 9,765	\$ 9,765	Nashua	Yes	\$ 28.40	\$ 277	
Well Rehabilitation	Well Rehabilitation	n/a	2019 Docket	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ -	Various	Yes	\$ 28.40	\$ -	No well rehabilitations projected to occur
WTP Structural/HVAC	WTP Structural/HVAC		2019 Docket	\$ 10,000	\$ 10,000	\$ -	\$ -	\$ -	Nashua	Yes	\$ 27.81	\$ -	
WTP Structural/HVAC	The rebuilding of the heating/AC roof top unit for WTP Finished Water Pump Station	1818208	2019 Docket	\$ -	\$ -	\$ 6,094	\$ 6,094	\$ 6,094	Nashua	Yes	\$ 27.81	\$ 169	
Purchase new lab equipment	Purchase new lab equipment		2019 Docket	\$ 20,000	\$ 20,000	\$ 5,000	\$ -	\$ -	Nashua	No	\$ 27.81	\$ -	
Purchase new lab equipment	Replace Combined Filter Effluent Chlorine Analyzer	1820254	2019 Docket	\$ -	\$ -	\$ 3,575	\$ 3,575	\$ 3,575	Nashua	No	\$ 27.81	\$ -	
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	n/a	2019 Docket	\$ 10,000	\$ 10,000	\$ -	\$ -	\$ -	Various	Yes	\$ 28.40	\$ -	None projected through year end
Purchase new vehicle #212	Vehicle needed for new Community Water System Operator	1816162	2019 Docket	\$ 65,000	\$ 65,000	\$ 39,513	\$ 39,513	\$ 41,478	Nashua	No	\$ 27.81	\$ -	
Replace Vehicle	Replacement of vehicle #62	1825490	2019 Docket	\$ 65,000	\$ 65,000	\$ 50,000	\$ 48,374	\$ 42,374	Nashua	No	\$ 27.81	\$ -	Project reduced by \$6,000 for trade in value.
Replace Vehicle	Replacement of vehicle #38	1819990	2019 Docket	\$ 40,000	\$ 40,000	\$ 27,306	\$ 30,081	\$ 27,581	Nashua	No	\$ 27.81	\$ -	Project reduced by \$2,500 for trade in value.
WTP Perimeter Fence	WTP Perimeter Fence	n/a	2019 Docket	\$ 80,000	\$ 80,000	\$ -	\$ -	\$ -	Merrimack	Yes	\$ 28.92	\$ -	deferred to 2019 due to resource availability
Bowers Dam Spillway reconstruction engineering	Bowers Dam Spillway reconstruction engineering	1824545	2019 Docket	\$ 90,000	\$ 90,000	\$ 50,000	\$ -	\$ -	Merrimack	No	\$ 28.92	\$ -	Not Eligible for 2018 QCPAC as this is engineering only
WTP Camera system upgrade	Existing Camera system is outdated	1819073	2019 Docket	\$ 50,000	\$ 50,000	\$ 4,000	\$ -	\$ -	Nashua	Yes	\$ 27.81	\$ -	Equipment will not be installed until 2019.
Dredging feasibility study	Dredging feasibility study	1807145	2019 Docket	\$ 31,500	\$ 31,500	\$ 31,500	\$ 31,873	\$ -	Various	No	\$ 28.40	\$ -	Study is not QCPAC Qualified
Sourcewater Protection Study	Sourcewater Protection Study	1807146	2019 Docket	\$ 15,000	\$ 15,000	\$ 15,000	\$ -	\$ -	Various	No	\$ 28.40	\$ -	Study is not QCPAC Qualified
Purchase replacement Aeration system compressor	Harris Pond raw water aeration system, replace 1 of 2	1829845	2019 Docket	\$ -	\$ -	\$ 17,000	\$ 17,000	\$ 16,889	Nashua	Yes	\$ 27.81	\$ 470	Replaced existing compressor which was not repairable
Purchase new lab equipment	Purchase bench top Zeta potential analyzer	1826397	2019 Docket	\$ -	\$ -	\$ 75,000	\$ 75,000	\$ 38,375	Nashua	Yes	\$ 27.81	\$ 1,067	Device used to verify and correlate streaming current monitors and further optimize treatment process.
Purchase and install 2-raw water streaming current monitors	Replacement of two older units, 1 currently not operational	1829848	2019 Docket	\$ -	\$ -	\$ 55,000	\$ -	\$ 10,695	Nashua	Yes	\$ 27.81	\$ 297	Devices used to optimize water treatment at Nashua Facility - Purchase in new lab equipment line above
Aquatic Vegetation Assessment and Management	Aquatic Vegetation Assessment and Management	1807147	2019 Docket	\$ 7,500	\$ 7,500	\$ 7,500	\$ -	\$ -	Various	No	\$ 28.40	\$ -	Study is not QCPAC Qualified
WTP - Replace Filter to Waste Valve Actuator	Replace valve actuator that controls flow of water from filters during waste/backwash ph	1800482	2019 Docket	\$ -	\$ -	\$ 6,276	\$ -	\$ 6,276	Nashua	Yes	\$ 27.81	\$ 175	
Website Upgrades	Improved Customer Service Experience	1814346, 1704175 & 1826890	2019 Docket	\$ 10,000	\$ 19,068	\$ 19,068	\$ -	\$ 4,500	Merrimack	No	\$ 28.92	\$ -	Project deferred until 2019
SIEM Appliance	Aggregate Real-time monitoring of system alerts and logs	n/a	2019 Docket	\$ 26,000	\$ -	\$ -	\$ -	\$ -	Merrimack	No	\$ 28.92	\$ -	Project Cancelled due to reduced need
Windows Server Licensing Renewal	Purchase Windows server for virtual servers	1813466	2019 Docket	\$ -	\$ -	\$ 22,925	\$ 22,925	\$ 22,925	Merrimack	No	\$ 28.92	\$ -	The assimilation of multiple new Windows Server licenses from multiple projects into one Enterprise License to cover all virtual servers. Project Finished
AD Change Auditor	Needed to track changes to Authentication Server	n/a	2019 Docket	\$ 4,000	\$ 4,000	\$ -	\$ -	\$ -	Merrimack	No	\$ 28.92	\$ -	Due to the licensing model moving from Purchase to Subscription based, this will become an expense item.
File Server Replacement	Replace older hardware	n/a	2019 Docket	\$ 13,000	\$ -	\$ -	\$ -	\$ -	Merrimack	No	\$ 28.92	\$ -	Project Cancelled due to reduced need
Storage Upgrade	Replace non-supported hardware and increase speed	1817426	2019 Docket	\$ 70,000	\$ 52,000	\$ 52,000	\$ 43,785	\$ 45,197	Merrimack	No	\$ 28.92	\$ -	Project Complete
Munis FER Enhancements	Needed as Business process change	n/a	2019 Docket	\$ 64,000	\$ 64,000	\$ 64,000	\$ -	\$ -	Merrimack	No	\$ 28.92	\$ -	Project deferred until 2019
Click Mobile Application Changes	Needed as Business process change	n/a	2019 Docket	\$ 30,000	\$ 30,000	\$ 30,000	\$ -	\$ -	Merrimack	No	\$ 28.92	\$ -	Deferred to 2019
ClickMobile Move to iPads	Move to a more functional device	1702223, 1707189 & 1807440	2019 Docket	\$ 140,000	\$ 140,000	\$ 140,000	\$ 140,000	\$ 249,378	Merrimack	No	\$ 28.92	\$ -	Hardware purchases and Contractor charges
Additional iPads for Meter Techs	Configuration and deployment of 6 devices	1825224	2019 Docket	\$ -	\$ -	\$ 6,000	\$ 6,000	\$ 4,680				\$ -	
Implement Customer Balances over the phone	Improved Customer Service Experience		2019 Docket	\$ 4,000	\$ 4,000	\$ -	\$ -	\$ -	Merrimack	No	\$ 28.92	\$ -	Deferred until 2019
Miscellaneous Hardware	Run Rate replacements		2019 Docket	\$ 15,000	\$ 15,000	\$ 2,500	\$ 2,500	\$ -	Merrimack	No	\$ 28.92	\$ -	
Miscellaneous Hardware	Purchase network switch for core routing @ Manchester Street	1813280	2019 Docket	\$ -	\$ -	\$ 4,203	\$ 4,203	\$ 4,203	Merrimack	No	\$ 28.92	\$ -	
Miscellaneous Hardware	Castle/Ware Laptops	1818947	2019 Docket	\$ -	\$ -	\$ 4,642	\$ 4,642	\$ 4,642	Merrimack	No	\$ 28.92	\$ -	Replaced desktops. Allows for remote access via VPN
Miscellaneous Hardware	Replacement Printer - Engineering	1817323	2019 Docket	\$ -	\$ 2,249	\$ 2,249	\$ 2,249	\$ 2,249	Merrimack	No	\$ 28.92	\$ -	Replace failed engineering printer
Miscellaneous Software	Run Rate replacements	n/a	2019 Docket	\$ 12,000	\$ 12,000	\$ 12,000	\$ -	\$ -	Merrimack	No	\$ 28.92	\$ -	No plans for the rest of the year. Will request from contingency fund if something comes up
LIMS upgrade	Allow for Electronic Data Collection in the Field	1817795	2019 Docket	\$ 11,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 939	Merrimack	No	\$ 28.92	\$ -	No additional project costs expected.
Physical Server for Pearl	Physical Server for Pearl	n/a	2019 Docket	\$ 12,000	\$ -	\$ -	\$ -	\$ -	Merrimack	No	\$ 28.92	\$ -	Project Cancelled due to reduced need
Corporate Job Scheduler	Centralized nightly Job management and notification	n/a	2019 Docket	\$ 4,000	\$ 4,000	\$ 4,000	\$ -	\$ -	Merrimack	No	\$ 28.92	\$ -	deferred
Consulting	Consulting	n/a	2019 Docket	\$ 32,000	\$ 32,000	\$ 32,000	\$ 32,000		Merrimack	No	\$ 28.92	\$ -	
Laptops for L.G. & D.W.	Laptops for L.G. & D.W.	1813464	2019 Docket	\$ 4,000	\$ 5,442	\$ 5,442	\$ 5,442	\$ 5,442	Merrimack	No	\$ 28.92	\$ -	Three Lap tops acquired for L.G., G.T. and J.B. Replaced desktops. Allows for remote access via VPN. Project Complete
Additional Computers	Additional Computers	1814843	2019 Docket	\$ 4,000	\$ 5,717	\$ 5,717	\$ 5,717	\$ 6,798	Merrimack	No	\$ 28.92	\$ -	Project Complete

Project Name/Description	Project Description	Work Order #	Financing Docket No.	Approved Budgeted Amount	Estimated Project Cost as of 6/30/2018	Estimated Project Cost as of 9/30/2018	Estimated Project Cost as of 11/30/2018	Final Project cost as of 12/31/2018	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since 1/30/2018
Replace 43 desk top computers at Main office	Computers are 7 years old and running on unsupported Windows 7 platform	1825498	2019 Docket	\$ -	\$ -	\$ 41,267	\$ 41,267	\$ 49,614	Merrimack	No	\$ 28.92	\$ -	Moved project from 2019 to 2018
Office 365 Exchange Migration	Office 365 Exchange Migration	1817818	2019 Docket	\$ -	\$ 16,400	\$ 6,200	\$ 6,200	\$ 7,737	Merrimack	No	\$ 28.92	\$ -	
VPN Update	VPN appliance to better support our mobile workforce	1824579	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 3,366				\$ -	
Berkshire St	Water Main Replacement	1817715	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 5,239	Nashua	Yes	\$ 27.81	\$ 146	2018 Spring clean up associated with water main project completed in 2017.
Bedford Water System Expansion	5/8" Meters	1820043	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 10,947	Bedford	Yes	\$ 24.76	\$ 271	Meters and Radios for PFOA customers in Bedford
GIS/GeoSync/Work	GIS/GeoSync/Work	1813962	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 13,360	Various	Yes	\$ 28.40	\$ 379	
2017 Phase 2 Install Overhead Crane and Door-WTP Process Area Design	2018 Phase 2 Install Overhead Crane and Door-WTP Process Area Design	1814354	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 12,412	Nashua	Yes	\$ 27.81	\$ 345	
New Virtual Server	New Virtual Server	1819083	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 16,321	Merrimack	Yes	\$ 28.92	\$ 472	
Replace VFD	Replace VFD, Booster #2, Orchard Ave Station	1819288	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 1,719	Nashua	Yes	\$ 27.81	\$ 48	
Unitrends RC823S	Backup and Disaster Recovery Device	1617283	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 27,998	Merrimack	No	\$ 28.92	\$ -	
W. Allds St. Water Main Replacement - Main Street Nashua Intersections	W. Allds St. Water Main Replacement - Main Street Nashua Intersections	1700632	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 27,969	Nashua	Yes	\$ 27.81	\$ 778	
W Allds Street Phase II (Main to end) Int with Main Street Nashua Inters	W Allds Street Phase II (Main to end) Int with Main Street Nashua Inters	1700676	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 6,531	Nashua	Yes	\$ 27.81	\$ 182	
TIG Welder	TIG Welder	1900419	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 2,955	Merrimack	No	\$ 28.92	\$ -	
Utility Truck Replacement	Replacement of #47 with Truck #315	1900418	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 62,215	Merrimack	No	\$ 28.92	\$ -	
Additional Trench Boxes	Additional Trench Boxes	1826437	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 22,241	Merrimack	No	\$ 28.92	\$ -	
Overhead Crane and Door	WTP Process Area Installation	1807303	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 19,761	Nashua	Yes	\$ 27.81	\$ 550	
Sweet Hill Well #3	Sweet Hill Well #3 (2018 Carryover)	1813054	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 2,408	Plaistow	Yes	\$ 28.93	\$ 70	
SCADA System Upgrade	WTP - 2018 replace all SCADA computers and upgrade system	1813303	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 20,642	Nashua	Yes	\$ 27.81	\$ 574	
Amherst Water System Expansion	Meters and Radios	1806832	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 16,646	Amherst	Yes	\$ 31.59	\$ 526	Meters and Radios for PFOA customers in Amherst
#353-Service Truck Replacement (#47)	#353-Service Truck Replacement (#47)	1813945	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 1,103	Merrimack	No	\$ 27.81	\$ -	
Retainage	Retainage		2019 Docket					\$ (197,247)	Nashua	Yes	\$ 27.81	\$ (5,485)	Please see the "Retainage Support" tab for breakdown of amount. This is retainage on projects completed above. The \$\$ held in retainage will need to be recovered in 2020 QCPAC.
				\$ 10,008,000	\$ 9,102,095	\$ 6,807,006	\$ 8,600,675	\$ 8,229,377	Projected Property Tax Expense associated with 2018 QCPAC projects -			\$ 198,464	

1. Tax rate is the sum of the local community rate plus the Statewide Utility tax rate of \$6.60/\$1000

Total PWW Capex for 2018 - \$ 8,229,377

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount	QCPAC Eligible?	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since 2/9/2019	
New Services (10)	Single Family, Owner Build, New Homes		DW17-183	26,101	2/2/2018	\$ 46,000	Yes	Various	Yes	\$ 28.85	\$ 1,327		
Renewed Services (20)	Replacement of failed services		DW17-183	26,101	2/2/2018	\$ 92,000	Yes	Various	Yes	\$ 28.85	\$ 2,654		
Hydrants (10)	Replacement of non functional hydrants		DW17-183	26,101	2/2/2018	\$ 50,000	Yes	Various	Yes	\$ 28.85	\$ 1,443		
Gates (10)	Replacement of Failed Gate Valves		DW17-183	26,101	2/2/2018	\$ 40,000	Yes	Various	Yes	\$ 28.85	\$ 1,154		
Radios (2750)	Replace out of warrantee failed radio meter readers		DW17-183	26,101	2/2/2018	\$ 275,000	Yes	Various	Yes	\$ 28.85	\$ 7,934		
Meters (Growth) 5/8"-2" - Core & CWS (480)	Meters (Growth) 5/8"-2" - Core & CWS (480)		DW17-183	26,101	2/2/2018	\$ 48,000	Yes	Various	Yes	\$ 28.85	\$ 1,385		
Meters 5/8"-6" Lead Meter Exchange - Core & CWS (3000)	Meters 5/8"-6" Lead Meter Exchange - Core & CWS (3000)		DW17-183	26,101	2/2/2018	\$ 300,000	Yes	Various	Yes	\$ 28.85	\$ 8,655		
Entrance Security Gate & Perimeter Fence	Entrance Security Gate & Perimeter Fence		DW17-183	26,101	2/2/2018	\$ 75,000	Yes	Merrimack	Yes	\$ 28.92	\$ 2,169		
Replace 13 yr Vac Trailer - Safety & Maint issue	Replace 13 yr Vac Trailer - Safety & Maint issue		DW17-183	26,101	2/2/2018	\$ 100,000	Yes	Merrimack	Yes	\$ 28.92	\$ 2,892		
Protectus Meter Upgrade	Spitbrook Rd Protectus Meter Upgrade		DW17-183	26,101	2/2/2018	\$ 21,000	Yes	Nashua	Yes	\$ 27.81	\$ 584		
Gilman Street	Replace 1470 LF of 8 inch CI with 12 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 550,000	Yes	Nashua	Yes	\$ 27.81	\$ 15,296		
Elm Street	Replace 875 LF of 6 inch CI with 12 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 559,350	Yes	Nashua	Yes	\$ 27.81	\$ 15,556		
Monroe Street	Replace 310 LF of 4 inch CI with 8 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 122,270	Yes	Nashua	Yes	\$ 27.81	\$ 3,400		
W.Pearl Street	Replace 260 LF of 8 inch CI with 8 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 138,050	Yes	Nashua	Yes	\$ 27.81	\$ 3,839		
Harvard Street	Replace 800 LF of 8 inch CI with 8 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 247,500	Yes	Nashua	Yes	\$ 27.81	\$ 6,883		
West Hollis Street Check Valve Pit	Install at the int of W. Hollis St and Panther Dr.		DW17-183	26,101	2/2/2018	\$ 88,000	Yes	Nashua	Yes	\$ 27.81	\$ 2,447		
NWS Improvements - Manchester Street	Add 2700 LF of 24 inch DIPCL on Manchester St.		DWGTF Financing			\$ 660,000	Yes	Nashua	Yes	\$ 27.81	\$ 18,355		
NWS Improvements -Route 101A and Route 121 (Amherst)	Add 2200 LF of 12 inch DIPCL to close loop					\$ 550,000	Yes	Nashua	Yes	\$ 27.81	\$ 15,296		
NWS Improvements - Tinker Road	Replace 825 LF of 16 inch AC with 825 LF of 24 inch DIPCL					\$ 522,500	Yes	Nashua	Yes	\$ 27.81	\$ 14,531		
NWS Improvements - Deerwood Drive & Amherst St. Intersection	Replace 1300 LF of 12 inch AC with 1300 LF of 24 inch DIPCL					\$ 467,500	Yes	Nashua	Yes	\$ 27.81	\$ 13,001		
NWS Improvements - Deerwood Dr. Northwest Blvd Loop	Add 3400 LF of 20 inch HDPE including RR pipe jacking					\$ 635,800	Yes	Nashua	Yes	\$ 27.81	\$ 17,682		
NWS Improvements Ponemah Rd/Route 101A Loop	Add 2200 LF of 12 inch DIPCL to close two loop major dead ends					\$ 484,000	Yes	Nashua	Yes	\$ 27.81	\$ 13,460		
City of Nashua Sewer - Chase Street	Replace 470 LF of 6 inch CIP with 470 LF of 6 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 176,000	Yes	Nashua	Yes	\$ 27.81	\$ 4,895		
City of Nashua Sewer - Ash Street	Replace 710 LF of 6 inch CIP with 710 LF of 12 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 242,000	Yes	Nashua	Yes	\$ 27.81	\$ 6,730		
City of Nashua Sewer - Lake Street	Replace 2950 LF of 6 inch CI with 12 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 990,000	Yes	Nashua	Yes	\$ 27.81	\$ 27,532		
Merrimack River Intake	Year Round Raw Water Intake from Merrimack River		DWGTF Financing			\$ 5,500,000	Yes	Merrimack	Yes	\$ 28.92	\$ 159,060		
Asset Management Outside GIS Consulting Services	Outside GIS Consulting Services		DW17-183	26,101	2/2/2018	\$ 60,000	Yes	Various	No		\$ -		
Asset Management Water Modeling Consulting	Water Modeling Consulting		DW17-183	26,101	2/2/2018	\$ 36,000	Yes	Various	No		\$ -		
Asset Management Trimble R2 Units	Trimble R2 Units		DW17-183	26,101	2/2/2018	\$ 14,000	Yes	Various	Yes	\$ 28.85	\$ 404		
Investment in developer installed services at 1xannual revenue	Per tariff		DW17-183	26,101	2/2/2018	\$ 60,000	Yes	Various	Yes	\$ 28.85	\$ 1,731		
Bower Dam reconstruction and engineering	Bower Dam reconstruction and engineering		DW17-183	26,101	2/2/2018	\$ 25,000	No	Merrimack	No		\$ -	Design Engineering Work for 2020 Dam rehabilitation	
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild		DW17-183	26,101	2/2/2018	\$ 40,000	Yes	Various	Yes	\$ 28.85	\$ 1,154		
Well Pump replacements	Well Pump replacements		DW17-183	26,101	2/2/2018	\$ 15,000	Yes	Various	Yes	\$ 28.85	\$ 433		
Chemical Feed pump replacements	Chemical Feed pump replacements		DW17-183	26,101	2/2/2018	\$ 10,000	Yes	Various	Yes	\$ 28.85	\$ 289		
Upgrade SCADA historian software, new hardware	upgrade SCADA historian software, new hardware		DW17-183	26,101	2/2/2018	\$ 150,000	Yes	Various	Yes	\$ 28.85	\$ 4,328		
Twin Ridge rebuild softener system, install radon treatment	Twin Ridge rebuild softener system, install radon treatment		DW17-183	26,101	2/2/2018	\$ 50,000	Yes	Plaistow	Yes	\$ 28.85	\$ 1,443		
Misc. Structural Improvements	Misc. Structural Improvements		DW17-183	26,101	2/2/2018	\$ 20,000	Yes	Various	Yes	\$ 28.85	\$ 577		
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased		DW17-183	26,101	2/2/2018	\$ 17,500	Yes	Various	Yes	\$ 28.85	\$ 505		
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical		DW17-183	26,101	2/2/2018	\$ 30,000	Yes	Various	Yes	\$ 28.85	\$ 866		
WTP Structural/HVAC	WTP Structural/HVAC		DW17-183	26,101	2/2/2018	\$ 10,000	Yes	Nashua	Yes	\$ 28.85	\$ 289		
Purchase new lab equipment	Purchase new lab equipment		DW17-183	26,101	2/2/2018	\$ 20,000	Yes	Nashua	Yes	\$ 28.85	\$ 577		
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects		DW17-183	26,101	2/2/2018	\$ 10,000	Yes	Various	Yes	\$ 28.85	\$ 289		
Replace Ferric Chloride Feed pump	Replace Ferric Chloride Feed pump		DW17-183	26,101	2/2/2018	\$ 10,000	Yes	Nashua	Yes	\$ 28.85	\$ 289		
Carbon media changeout-filters 1 & 2	Carbon media changeout-filters 1 & 2		DW17-183	26,101	2/2/2018	\$ 1,000,000	Yes	Nashua	Yes	\$ 28.85	\$ 28,850		
Add 3rd pump at Main Dunstable Booster, replace 1 existing	Add 3rd pump at Main Dunstable Booster, replace 1 existing		DW17-183	26,101	2/2/2018	\$ 120,000	Yes	Nashua	Yes	\$ 28.85	\$ 3,462		
Replace Kessler Farm booster pump package	Replace 20 year old package booster station pumps and piping. Piping is steel which is beginning to pit		DW17-183	26,101	2/2/2018	\$ 75,000	Yes	Nashua	Yes	\$ 28.85	\$ 2,164		
Stump Pond Subwatershed assessment	Stump Pond Subwatershed assessment		DW17-183	26,101	2/2/2018	\$ 25,000	No	Merrimack	No		\$ -	Study - Amortized expense	
Stump Pond Stormwater BMP	Stump Pond Stormwater BMP		DW17-183	26,101	2/2/2018	\$ 20,000	No	Merrimack	No		\$ -	BMP Engineering and Design	
Public Education -Watershed signage	Public Education -Watershed signage		DW17-183	26,101	2/2/2018	\$ 20,000	Yes	Merrimack	Yes	\$ 28.85	\$ 577		
Replace 2 Hach Turbidimeters and associated control module	Replace 2 Hach Turbidimeters and associated control module		DW17-183	26,101	2/2/2018	\$ 10,000	Yes	Nashua	Yes	\$ 28.85	\$ 289		
Fiber Conduit between WTP and Dist	Install Fiber Conduit between Water Treatment Plant and Distribution to eliminate ongoing Comcast Ethernet line to one of the buildings		DW17-183	26,101	2/2/2018	\$ 40,000	Yes	Nashua	No		\$ -		
Munis FER Enhancements	Munis FER Enhancements		DW17-183	26,101	2/2/2018	\$ 35,000	Yes	Merrimack	No		\$ -		
Wireless Access Points for Main Office	Wireless Access Points for Main Office		DW17-183	26,101	2/2/2018	\$ 14,000	Yes	Merrimack	No		\$ -		
KVM for Data Center	Keyboard Video Mouse for Data Center so that multiple servers can be accessed by one console without having to move between multiple server racks		DW17-183	26,101	2/2/2018	\$ 2,500	Yes	Merrimack	No		\$ -		
IOS Charging Station	Charging Station for multiple iPads to allow for upgrades across multiple devices concurrently.		DW17-183	26,101	2/2/2018	\$ 1,200	Yes	Merrimack	No		\$ -		
Digital Signage for Distribution	Digital Signage for Distribution allowing notices and schedules to be more prominently displayed		DW17-183	26,101	2/2/2018	\$ 2,000	Yes	Merrimack	No		\$ -		
VDI Pilot	A pilot to determine whether a Virtual Desktop Infrastructure would be feasible for our environment		DW17-183	26,101	2/2/2018	\$ 12,000	Yes	Merrimack	No		\$ -		
Misc Hardware	Misc Hardware		DW17-183	26,101	2/2/2018	\$ 20,000	Yes	Merrimack	No		\$ -		
Misc Software	Misc Software		DW17-183	26,101	2/2/2018	\$ 12,000	Yes	Merrimack	No		\$ -		
Website upgrades	Website upgrades		DW17-183	26,101	2/2/2018	\$ 8,000	Yes	Merrimack	No		\$ -		
Implement Customer Balances over the phone	Implement Customer Balances over the phone		DW17-183	26,101	2/2/2018	\$ 4,000	No	Merrimack	No		\$ -		
Pennichuck Water Works Projected 2019 Total Capital Expenditure Budget -						\$ 14,978,170		QCPAC projects -					\$ 416,669

1. Tax rate is the sum of the local community rate plus the Statewide Utility tax rate of \$6.60/\$1000

Total Projected PWW QCPAC Capex for 2019 - \$ 14,908,170
Amount funded by SRF/DWGTF - \$ 8,819,800
Amount to be funded by 2020 Bond Issue - \$ 6,088,370

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount	QCPAC Eligible?	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since 2/9/2019
New Services (10)	Single Family, Owner Build, New Homes		DW17-183	26,101	2/2/2018	\$ 46,000	Yes	Various	Yes	\$ 28.85	\$ 1,327	
Renewed Services (20)	Replacement of failed services		DW17-183	26,101	2/2/2018	\$ 92,000	Yes	Various	Yes	\$ 28.85	\$ 2,654	
Hydrants (10)	Replacement of non functional hydrants (Run rate) (8 YTD)		DW17-183	26,101	2/2/2018	\$ 50,000	Yes	Various	Yes	\$ 28.85	\$ 1,443	
Gates (10)	Replacement of Failed Gate Valves		DW17-183	26,101	2/2/2018	\$ 40,000	Yes	Various	Yes	\$ 28.85	\$ 1,154	
Radios (2750)	Replace out of warrantee failed radio meter readers		DW17-183	26,101	2/2/2018	\$ 275,000	Yes	Various	Yes	\$ 28.85	\$ 7,934	
Meters (Growth) 5/8"-2" - Core & CWS (480)	Meters (Growth) 5/8"-2" - Core & CWS (480)		DW17-183	26,101	2/2/2018	\$ 48,000	Yes	Various	Yes	\$ 28.85	\$ 1,385	
Meters 5/8"-6" Lead Meter Exchange - Core & CWS (1000)	Meters 5/8"-6" Lead Meter Exchange - Core & CWS (1000)		DW17-183	26,101	2/2/2018	\$ 100,000	Yes	Various	Yes	\$ 28.85	\$ 2,885	
New Utility Vehicle (2)	New Utility Vehicles to replace existing high milage/maintenance vehicles		DW17-183	26,101	2/2/2018	\$ 130,000	Yes	Merrimack	No	\$ 28.92	\$ -	
New Utility Van (2)	New Utlity Vans to replace existing high milage/maintenance vans		DW17-183	26,101	2/2/2018	\$ 70,000	Yes	Merrimack	No	\$ 28.92	\$ -	
Protectus Meter Upgrade	Protectus Meter Upgrade -		DW17-183	26,101	2/2/2018	\$ 22,000	Yes	Nashua	Yes	\$ 27.81	\$ 612	
Trimble Units for Meter Reading (2)	Replacement of CE Meter Reading Equipment (2)		DW17-183	26,101	2/2/2018	\$ 16,000	Yes	Merrimack	No	\$ 28.92	\$ -	
Residual paving from 2019 main replacement	Residual paving from prior year main replacement		DW17-183	26,101	2/2/2018	\$ 1,012,000	Yes	Nashua	Yes	\$ 27.81	\$ 28,144	
Brook Street	Replace 225 LF of 4 inch and 915 LF of 6 inch CI with 1140 LF of 8 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 422,730	Yes	Nashua	Yes	\$ 27.81	\$ 11,756	
Hamilton Street	Replace 410 LF of 6 inch CI with 4 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 97,130	Yes	Nashua	Yes	\$ 27.81	\$ 2,701	
Ash Street	Replace 510 LF of 6 inch CI with 8 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 191,510	Yes	Nashua	Yes	\$ 27.81	\$ 5,326	
Burritt Street	Replace 425 LF of 4 inch CI with 8 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 157,080	Yes	Nashua	Yes	\$ 27.81	\$ 4,368	
Burritt Street	Replace 125 LF of 4 inch CI with 4 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 43,010	Yes	Nashua	Yes	\$ 27.81	\$ 1,196	
Verona Street	Replace 675 LF of 6 inch CI with 8 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 251,130	Yes	Nashua	Yes	\$ 27.81	\$ 6,984	
Sarasota Ave	Replace 250 LF of 6 inch CI with 8 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 92,620	Yes	Nashua	Yes	\$ 27.81	\$ 2,576	
Ald Street	Replace 1860 LF of 6 & 8 inch CI with 12 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 966,570	Yes	Nashua	Yes	\$ 27.81	\$ 26,880	
Lawndale Avenue	Replace 1085 LF of 6 inch CI with 12 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 546,920	Yes	Nashua	Yes	\$ 27.81	\$ 15,210	
Taylor Road (Lynn St to Fifield St)	Replace 725 LF of 8 inch CI with 12 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 365,750	Yes	Nashua	Yes	\$ 27.81	\$ 10,172	
Temple St (south to gorman)	Replace 900 LF of 8 inch CI with 12 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 457,160	Yes	Nashua	Yes	\$ 27.81	\$ 12,714	
School Street (High to W. Pearl Alleyway)	Replace 400 LF of 4 inch CI with 8 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 151,140	Yes	Nashua	Yes	\$ 27.81	\$ 4,203	
Water Main Replacement - City Sewer Projects	Replacement of various sections of CI pipe		DW17-183	26,101	2/2/2018	\$ 550,000	Yes	Nashua	Yes	\$ 27.81	\$ 15,296	
Kessler Farm Tank Replacement	Kessler Farm Tank Replacement		DW17-183	26,101	2/2/2018	\$ 3,388,000	Yes	Nashua	Yes	\$ 27.81	\$ 94,220	
Replace Engineering Pickup	Replace Pickup with > 150,000 miles		DW17-183	26,101	2/2/2018	\$ 35,000	Yes	Merrimack	No	\$ 28.92	\$ -	
Replace Engineering SUV	Replace SUV with > 150,000 miles		DW17-183	26,101	2/2/2018	\$ 30,000	Yes	Merrimack	No	\$ 28.92	\$ -	
Investment in developer installed services at 1xannual revenue	Per tariff		DW17-183	26,101	2/2/2018	\$ 60,000	Yes	Various	Yes	\$ 28.85	\$ 1,731	
Bowers Dam reconstruction	Bowers Dam reconstruction		DW17-183	26,101	2/2/2018	\$ 900,000	Yes	Merrimack	Yes	\$ 28.92	\$ 26,028	
WTP Perimeter fence	WTP Perimeter fence		DW17-183	26,101	2/2/2018	\$ 80,000	Yes	Merrimack	Yes	\$ 28.92	\$ 2,314	
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild		DW17-183	26,101	2/2/2018	\$ 55,000	Yes	Various	Yes	\$ 28.85	\$ 1,587	
Well Pump replacements	Well Pump replacements		DW17-183	26,101	2/2/2018	\$ 18,750	Yes	Various	Yes	\$ 28.85	\$ 541	
Chemical Feed pump replacements	Chemical Feed pump replacements		DW17-183	26,101	2/2/2018	\$ 15,000	Yes	Various	Yes	\$ 28.85	\$ 433	
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS		DW17-183	26,101	2/2/2018	\$ 18,750	Yes	Various	Yes	\$ 28.85	\$ 541	
Misc. Structural Improvements	Misc. Structural Improvements		DW17-183	26,101	2/2/2018	\$ 27,500	Yes	Various	Yes	\$ 28.85	\$ 793	
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased		DW17-183	26,101	2/2/2018	\$ 17,500	Yes	Various	Yes	\$ 28.85	\$ 505	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical		DW17-183	26,101	2/2/2018	\$ 27,500	Yes	Various	Yes	\$ 28.85	\$ 793	
Well Rehabilitation	Well Rehabilitation		DW17-183	26,101	2/2/2018	\$ 40,000	Yes	Various	Yes	\$ 28.85	\$ 1,154	
WTP Structural/HVAC	WTP Structural/HVAC		DW17-183	26,101	2/2/2018	\$ 7,500	Yes	Nashua	Yes	\$ 27.81	\$ 209	
Purchase new lab equipment	Purchase new lab equipment		DW17-183	26,101	2/2/2018	\$ 15,000	Yes	Nashua	No	\$ 27.81	\$ -	
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects		DW17-183	26,101	2/2/2018	\$ 7,500	Yes	Various	Yes	\$ 28.85	\$ 216	
Replace Vehicle	Replace Vehicle		DW17-183	26,101	2/2/2018	\$ 65,000	Yes	Nashua	No	\$ 27.81	\$ -	
Replace Vehicle	Replace Vehicle		DW17-183	26,101	2/2/2018	\$ 65,000	Yes	Nashua	No	\$ 27.81	\$ -	
Replace Vehicle	Replace Vehicle		DW17-183	26,101	2/2/2018	\$ 40,000	Yes	Nashua	No	\$ 27.81	\$ -	
Replace Vehicle	Replace Vehicle		DW17-183	26,101	2/2/2018	\$ 40,000	Yes	Nashua	No	\$ 27.81	\$ -	
Carbon Media changeout - filters 3 & 4	Carbon Media changeout - filters 3 & 4		DW17-183	26,101	2/2/2018	\$ 1,000,000	Yes	Nashua	Yes	\$ 27.81	\$ 27,810	
Arsenic treatment to respond to new MCL	Arsenic treatment to respond to new MCL		DW17-183	26,101	2/2/2018	\$ 15,000	Yes	Various	Yes	\$ 28.85	\$ 433	
Various IT Projects	Maintain and replace aging software and hardware		DW17-183	26,101	2/2/2018	\$ 300,000	Yes	Merrimack	No	\$ 28.92	\$ -	
Pennichuck Water Works Projected 2020 Total Capital Expenditure Budget -						\$ 12,461,750		QCPAC projects -		\$ 326,226		

Total Projected PWW QCPAC Capex for 2020 - \$ 12,461,750

1. Tax rate is the sum of the local community rate plus the Statewide Utility tax rate of \$6.60/\$1000

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount	QCPAC Eligible?	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since 2/9/2019
New Services (10)	Single Family, Owner Build, New Homes			Future Financing Petition		\$ 46,000	Yes	Various	Yes	\$ 28.85	\$ 1,327	
Renewed Services (20)	Replacement of failed services			Future Financing Petition		\$ 92,000	Yes	Various	Yes	\$ 28.85	\$ 2,654	
Hydrants (10)	Replacement of non functional hydrants (Run rate) (8 YTD)			Future Financing Petition		\$ 50,000	Yes	Various	Yes	\$ 28.85	\$ 1,443	
Gates (10)	Replacement of Failed Gate Valves			Future Financing Petition		\$ 40,000	Yes	Various	Yes	\$ 28.85	\$ 1,154	
Radios (2750)	Replace out of warrantee failed radio meter readers			Future Financing Petition		\$ 275,000	Yes	Various	Yes	\$ 28.85	\$ 7,934	
Meters (Growth) 5/8"-2" - Core & CWS (480)	Meters (Growth) 5/8"-2" - Core & CWS (480)			Future Financing Petition		\$ 48,000	Yes	Various	Yes	\$ 28.85	\$ 1,385	
Meters 5/8"-6" Meter Exchange - Core & CWS (1000)	Meters 5/8"-6" Lead Meter Exchange - Core & CWS (1000)			Future Financing Petition		\$ 100,000	Yes	Various	Yes	\$ 28.85	\$ 2,885	
New Utility Vehicle (2)	New Utility Vehicles to replace existing high milage/maintenance vehicles			Future Financing Petition		\$ 130,000	Yes	Merrimack	No	\$ 28.92	\$ -	
New Utility Van (2)	New Utilty Vans to replace existing high milage/maintenance vans			Future Financing Petition		\$ 70,000	Yes	Merrimack	No	\$ 28.92	\$ -	
Protectus Meter Upgrade	Protectus Meter Upgrade			Future Financing Petition		\$ 22,000	Yes	Nashua	Yes	\$ 27.81	\$ 612	
New Vac/Valve Trailer	Replacement of 10yr old Vac for safety & Maintenance Reasons			Future Financing Petition		\$ 70,000	Yes	Merrimack	No	\$ 28.92	\$ -	
Residual paving from prior year main replacement	Residual paving from prior year main replacement			Future Financing Petition		\$ 653,350	Yes	Nashua	Yes	\$ 27.81	\$ 18,170	
Benson Avenue	Replace 550 LF of 4 inch CI with 8 inch DIPCL			Future Financing Petition		\$ 210,650	Yes	Nashua	Yes	\$ 27.81	\$ 5,858	
Spaulding Street	Replace 950 LF of 6 inch CI with 8 inch DIPCL			Future Financing Petition		\$ 362,450	Yes	Nashua	Yes	\$ 27.81	\$ 10,080	
Alstead Avenue	Replace 240 LF of 4 inch CI with 4 inch DIPCL			Future Financing Petition		\$ 80,300	Yes	Nashua	Yes	\$ 27.81	\$ 2,233	
Spaulding Avenue	Replace 430 LF of 6, 2, & 1.25 inch CI with 4 inch DIPCL			Future Financing Petition		\$ 104,720	Yes	Nashua	Yes	\$ 27.81	\$ 2,912	
St Lazare Street	Replace 415 LF of 2 inch CI with 4 inch DIPCL			Future Financing Petition		\$ 100,980	Yes	Nashua	Yes	\$ 27.81	\$ 2,808	
Ingalls St (St Camille to end)	Replace 200 LF of 1.5 inch CI with 4 inch DIPCL			Future Financing Petition		\$ 48,730	Yes	Nashua	Yes	\$ 27.81	\$ 1,355	
Nye Avenues	Replace 400 LF of 2 & 1.5 inch CI with 4 inch DIPCL			Future Financing Petition		\$ 96,140	Yes	Nashua	Yes	\$ 27.81	\$ 2,674	
Copp Street	Replace 350 LF of 6 inch CI with 8 inch DIPCL			Future Financing Petition		\$ 136,620	Yes	Nashua	Yes	\$ 27.81	\$ 3,799	
Gray Avenue	Replace 360 LF of 6 inch CI with 6 inch DIPCL			Future Financing Petition		\$ 112,530	Yes	Nashua	Yes	\$ 27.81	\$ 3,129	
Coburn Woods (all side streets)	Replace 4400 LF of 2 inch PVC with 4 inch DIPCL			Future Financing Petition		\$ 1,320,000	Yes	Nashua	Yes	\$ 27.81	\$ 36,709	
City Sewer Projects	Replace CI with D1CLP			Future Financing Petition		\$ 550,000	Yes	Nashua	Yes	\$ 27.81	\$ 15,296	
Sawyer Street	Replace 1600 LF of 6 inch CI with 12 inch DIPCL			Future Financing Petition		\$ 528,000	Yes	Nashua	Yes	\$ 27.81	\$ 14,684	
Woodward Street	Replace 360 LF 8 inch CI with 470 LF 8 inch DIPCL			Future Financing Petition		\$ 155,100	Yes	Nashua	Yes	\$ 27.81	\$ 4,313	
Blosson Street	Replace 2400 LF of 6 inch CI and 8 inch CI with 2400 LF of 8 inch DIPCL			Future Financing Petition		\$ 792,000	Yes	Nashua	Yes	\$ 27.81	\$ 22,026	
Linwood Street	Replace 960 LF of 6 inch CI with 8 inch DIPCL			Future Financing Petition		\$ 316,800	Yes	Nashua	Yes	\$ 27.81	\$ 8,810	
Balcom Street	Replace 1240 LF 6 inch CI with 1240 LF 8 inch DIPCL			Future Financing Petition		\$ 409,200	Yes	Nashua	Yes	\$ 27.81	\$ 11,380	
Euclid Avenue	Replace 425 LF 6 inch CI with 425LF 8 inch DIPCL			Future Financing Petition		\$ 140,250	Yes	Nashua	Yes	\$ 27.81	\$ 3,900	
Fairview Street	Replace 800 LF 6 inch CI with 800 LF 8 inch DIPCL			Future Financing Petition		\$ 264,000	Yes	Nashua	Yes	\$ 27.81	\$ 7,342	
Sargent Street	Replace 1900 LF 6 inch CI with 1900 LF 16 inch DIPCL			Future Financing Petition		\$ 627,000	Yes	Nashua	Yes	\$ 27.81	\$ 17,437	
Courtland Street	Replace 1170 LF 4 inch CI with 1170 LF 16 inch DIPCL			Future Financing Petition		\$ 386,100	Yes	Nashua	Yes	\$ 27.81	\$ 10,737	
Replace Engineering Pickup	Replace Engineering Pickup with > 150,000 Miles			Future Financing Petition		\$ 36,000	Yes	Merrimack	No	\$ 28.92	\$ -	
Replace Engineering SUV	Replace Engineering SUV with > 150,000 Miles			Future Financing Petition		\$ 30,000	Yes	Merrimack	No	\$ 28.92	\$ -	
Milford Booster Station	Replace/Relocate/Upgrade the Milford Booster Station (>2MGD)			Future Financing Petition		\$ 660,000	Yes	Amherst	Yes	\$ 28.85	\$ 19,041	
Investment in developer installed services at 1xannual revenue	Per tariff			Future Financing Petition		\$ 60,000	Yes	Various	Yes	\$ 28.85	\$ 1,731	
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild			Future Financing Petition		\$ 55,000	Yes	Various	Yes	\$ 28.85	\$ 1,587	
Well Pump replacements	Well Pump replacements			Future Financing Petition		\$ 18,750	Yes	Various	Yes	\$ 28.85	\$ 541	
Chemical Feed pump replacements	Chemical Feed pump replacements			Future Financing Petition		\$ 15,000	Yes	Various	Yes	\$ 28.85	\$ 433	
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS			Future Financing Petition		\$ 15,000	Yes	Various	Yes	\$ 28.85	\$ 433	
Misc. Structural Improvements	Misc. Structural Improvements			Future Financing Petition		\$ 20,000	Yes	Various	Yes	\$ 28.85	\$ 577	
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased			Future Financing Petition		\$ 20,000	Yes	Various	Yes	\$ 28.85	\$ 577	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical			Future Financing Petition		\$ 30,000	Yes	Various	Yes	\$ 28.85	\$ 866	
Well Rehabilitation	Well Rehabilitation			Future Financing Petition		\$ 50,000	Yes	Various	Yes	\$ 28.85	\$ 1,443	
WTP Structural/HVAC	WTP Structural/HVAC			Future Financing Petition		\$ 10,000	Yes	Nashua	Yes	\$ 27.81	\$ 278	
Purchase new lab equipment	Purchase new lab equipment			Future Financing Petition		\$ 20,000	Yes	Nashua	No	\$ 27.81	\$ -	
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects			Future Financing Petition		\$ 10,000	Yes	Various	Yes	\$ 28.85	\$ 289	
Replace Vehicle	Replace Vehicle			Future Financing Petition		\$ 65,000	Yes	Nashua	No	\$ 27.81	\$ -	
Replace Vehicle	Replace Vehicle			Future Financing Petition		\$ 65,000	Yes	Nashua	No	\$ 27.81	\$ -	
Replace Vehicle	Replace Vehicle			Future Financing Petition		\$ 40,000	Yes	Nashua	No	\$ 27.81	\$ -	
Replace Vehicle	Replace Vehicle			Future Financing Petition		\$ 40,000	Yes	Nashua	No	\$ 27.81	\$ -	
Carbon Media changeout - filters 5 & 5	Carbon Media changeout - filters 5 & 5			Future Financing Petition		\$ 1,000,000	Yes	Nashua	Yes	\$ 27.81	\$ 27,810	
Various projects	Various projects			Future Financing Petition		\$ 300,000	Yes	Merrimack	No	\$ 28.85	\$ -	
Replacement of CMMS System (Synergen)	Replacement of CMMS System (Synergen)			Future Financing Petition		\$ 1,000,000	Yes	Merrimack	No	\$ 28.85	\$ -	
Pennichuck Water Works Projected 2021 Total Capital Expenditure Budget -						\$ 11,897,670		Projected Property Tax Expense associated with		\$ 280,650		

Total Projected PWW QCPAC Capex for 2021 - \$ 11,897,670

1. Tax rate is the sum of the local community rate plus the Statewide Utility tax rate of \$6.60/\$1000