

Exhibit 1 2017-2020 QCPAC
Revenue Requirement

	DW16-806 Approved Step Revenue Requirements	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
City Bond Fixed Revenue Requirement (CBFRR)	\$7,729,032	\$ -	\$ 7,729,032	\$ -	\$ 7,729,032	\$ -	\$ 7,729,032	\$ -	\$ 7,729,032
Operating Expense Revenue Requirement	\$16,927,242 (1)	\$ 130,538 (4)	\$ 17,057,780	\$ 314,360	\$ 17,372,141	\$ 320,811	\$ 17,692,951	\$ 271,909	\$ 17,964,860
Annual Principal and Interest Payments	\$6,218,648 (2)	\$344,214 (5)	\$ 6,562,862	\$784,156	\$ 7,347,018	\$780,799	\$ 8,127,817	\$647,483	\$ 8,775,300
Principal and Interest Coverage Requirement	1.10 (3)		1.10		1.10		1.10		1.10
Principal and Interest Revenue Requirement	\$ 6,840,513		\$ 7,219,148		\$ 8,081,720		\$ 8,940,599		\$ 9,652,830
Proposed Revenue Requirement	\$ 31,496,787		\$ 32,005,960		\$ 33,182,892		\$ 34,362,582		\$ 35,346,722
Current Water Revenues excluding CBFRR	\$20,694,038		\$ 23,767,755		\$ 24,276,928		\$ 25,453,860		\$ 26,633,550
Add: City Bond Fixed Revenue Requirement	\$7,729,032		\$ 7,729,032		\$ 7,729,032		\$ 7,729,032		\$ 7,729,032
Current Water Revenues with CBFRR	\$ 28,423,070		\$ 31,496,787		\$ 32,005,960		\$ 33,182,892		\$ 34,362,582
Percent QCPAC Surcharge (9)			1.62%		3.68%		3.56%		2.86%
					5.35%		9.10%		12.22%

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) 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 interest rate of 5% 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 5.0%
- (9) QCPAC percent revenue surcharges based on increase in revenues from the previous year, inclusive of QCPAC surcharges.

Exhibit 2 Page 1, 2017
QCPAC Capital Expenditures

Exhibit 2 Page 2, 2018 QCPAC
Capital Expenditures

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	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	Community	Taxable	Tax Rate (1)	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		0.1DSRR			\$ 90,000				Merrimack	No	\$ 28.17	\$ -	
10 New Services	Single Family, Owner Build, New Homes		DW17-183			\$ 46,000				Various	Yes	\$ 29.13	\$ 1,340	
20 Renewed Services	Replacement of failed services		DW17-183			\$ 92,000				Various	Yes	\$ 29.13	\$ 2,680	
10 Hydrants	Replacement of non functional hydrants		DW17-183			\$ 50,000				Various	Yes	\$ 29.13	\$ 1,457	
10 Valve Replacements	Replacement of Failed Gate Valves		DW17-183			\$ 30,000				Various	Yes	\$ 29.13	\$ 874	
Replace failed meter reading radios	Replace out of warrantee failed radio meter readers (280)		DW17-183			\$ 50,000				Various	Yes	\$ 29.13	\$ 1,457	
480 New Meters (growth) 5/8"-2" (CORE & CWS)	New meters for new customers, including PFOA		DW17-183			\$ 114,000				Various	Yes	\$ 29.13	\$ 3,321	
2,355 New Meters for Lead Meter exchanges (PWW-CORE & CWS) 5/8"-6"	Replace High lead brass meter with new no lead brass meter		DW17-183			\$ 532,000				Various	Yes	\$ 29.13	\$ 15,497	
Ferromagnetic Pipe locators (3)	Ongoing small equipment replacement - run rate		DW17-183			\$ 10,000				Merrimack	No	\$ 29.13	\$ -	
Service Truck replacement (#76)	Replace 2008 Pick up with 156,000+ miles		DW17-183			\$ 60,000				Merrimack	No	\$ 28.17	\$ -	
1 Service Truck - New	Service Truck for 1 new ops employees		0.1DSRR			\$ 35,000				Merrimack	No	\$ 28.17	\$ -	
Replacement of Meter Supervisor Truck (#14)	Replace 7 year old pick up with 167,000+ miles with small SUV		DW17-183			\$ 28,000				Merrimack	No	\$ 28.17	\$ -	
Replace Valve/vac trailer unit	Existing unit has reach the end of its usable life		DW17-183			\$ 65,000				Merrimack	No	\$ 28.17	\$ -	
Trimble units for Meter Reading (6 units)	Replace CE meter reading equipment		0.1DSRR			\$ 39,000				Merrimack	No	\$ 28.17	\$ -	
Pipe Saws (5)	Ongoing small equipment replacement - run rate		DW17-183			\$ 6,000				Merrimack	No	\$ 28.17	\$ -	
Metal Detectors (6)	Ongoing small equipment replacement - run rate		DW17-183			\$ 7,000				Merrimack	No	\$ 28.17	\$ -	
Add Air Conditioning to Mechanics Bay	Security Project		DW17-183			\$ 52,000				Merrimack	No	\$ 28.17	\$ -	
Four trench boxes	Four trench boxes		DW17-183			\$ 20,000				Merrimack	No	\$ 28.17	\$ -	
Interconnection of BWC (Bedford) to PWW	Interconnection of BWC (Bedford) to PWW		DW17-183			\$ 85,000				Bedford	Yes	\$ 23.16	\$ 1,969	
Elm St	Replace 1570 LF of 8 & 6 inch CI with 12 inch DIPCL		DW17-183			\$ 436,000				Nashua	Yes	\$ 29.82	\$ 13,002	
Monroe Street	Replace 485 LF of 4 inch (HDPE,CI) with 8 inch DIPCL		DW17-183			\$ 131,000				Nashua	Yes	\$ 29.82	\$ 3,906	
West Pearl Street	Replace 325 LF of 4 inch CI with 8 inch DIPCL		DW17-183			\$ 109,000				Nashua	Yes	\$ 29.82	\$ 3,250	
Gillis St	Residual paving from prior year main replacement		DW17-183			\$ 143,000				Nashua	Yes	\$ 29.82	\$ 4,264	
Orange St (Concord St to Lock St)	Residual paving from prior year main replacement		DW17-183			\$ 96,000				Nashua	Yes	\$ 29.82	\$ 2,863	
Buchanan St	Residual paving from prior year main replacement		DW17-183			\$ 36,600				Nashua	Yes	\$ 29.82	\$ 1,091	
Lincoln Ave	Residual paving from prior year main replacement		DW17-183			\$ 52,300				Nashua	Yes	\$ 29.82	\$ 1,560	
Nutt St	Residual paving from prior year main replacement		DW17-183			\$ 39,600				Nashua	Yes	\$ 29.82	\$ 1,181	
Circle Ave	Residual paving from prior year main replacement		DW17-183			\$ 11,000				Nashua	Yes	\$ 29.82	\$ 328	
Prait St	Residual paving from prior year main replacement		DW17-183			\$ 47,000				Nashua	Yes	\$ 29.82	\$ 1,402	
Zellwood Ave	Residual paving from prior year main replacement		DW17-183			\$ 25,000				Nashua	Yes	\$ 29.82	\$ 746	
Faxon St	Residual paving from prior year main replacement		DW17-183			\$ 6,000				Nashua	Yes	\$ 29.82	\$ 179	
Fifield St	Residual paving from prior year main replacement		DW17-183			\$ 4,400				Nashua	Yes	\$ 29.82	\$ 131	
Fowell Ave	Residual paving from prior year main replacement		DW17-183			\$ 59,400				Nashua	Yes	\$ 29.82	\$ 1,771	
Terrace Street	Residual paving from prior year main replacement		DW17-183			\$ 5,200				Nashua	Yes	\$ 29.82	\$ 155	
Beard St	Residual paving from prior year main replacement		DW17-183			\$ 16,100				Nashua	Yes	\$ 29.82	\$ 480	
Green St	Residual paving from prior year main replacement		DW17-183			\$ 3,100				Nashua	Yes	\$ 29.82	\$ 92	
Warren St	Residual paving from prior year main replacement		DW17-183			\$ 11,000				Nashua	Yes	\$ 29.82	\$ 328	
Lowell St	Residual paving from prior year main replacement		DW17-183			\$ 23,000				Nashua	Yes	\$ 29.82	\$ 686	
Lemon St	Residual paving from prior year main replacement		DW17-183			\$ 4,400				Nashua	Yes	\$ 29.82	\$ 131	
Mulvanity St - Emergency Replacement	Residual paving from prior year main replacement		DW17-183			\$ 51,700				Nashua	Yes	\$ 29.82	\$ 1,542	
Asset Management	Asset Management		DW17-183			\$ 300,000				Various	Yes	\$ 29.13	\$ 8,739	
Gilman Street	Replace 1470 LF of 8 inch CI with 12 inch DIPCL		DW17-183			\$ 655,000				Nashua	Yes	\$ 29.82	\$ 19,532	
Ritter Street	Replace 500LF of 6 inch CI with 12 inch DIPCL		DW17-183			\$ 223,000				Nashua	Yes	\$ 29.82	\$ 6,650	
Woodward Street	Replace 300 LF of 6 inch CI with 12 inch DIPCL		DW17-183			\$ 131,000				Nashua	Yes	\$ 29.82	\$ 3,906	
Factory Street	Replace 625 LF of 8 inch and 950 LF CI 950 LF of 16 inch DIPCL		DW17-183			\$ 642,000				Nashua	Yes	\$ 29.82	\$ 19,144	
Pennichuck Street	Replace 100 LF of 12 inch CI with 12 inch DIPCL		DW17-183			\$ 53,000				Nashua	Yes	\$ 29.82	\$ 1,580	
Fossa Avenue	Replace 310 LF of 6 inch CI and 2 PVC with 6 inch and 4 inch DIPCL		DW17-183			\$ 80,000				Nashua	Yes	\$ 29.82	\$ 2,386	
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		DW17-183			\$ 290,000				Nashua	Yes	\$ 29.82	\$ 8,648	
Taylor Street (Main St to Fifield)	Replace 790 LF of 6 inch CI with 8 inch DIPCL		DW17-183			\$ 258,000				Nashua	Yes	\$ 29.82	\$ 7,694	
Burnett Street	Replace 535 LF of 6 inch CI with 12 inch DIPCL		DW17-183			\$ 238,000				Nashua	Yes	\$ 29.82	\$ 7,097	
Field Street	Replace 325 LF of 6 inch CI with 6 inch DIPCL		DW17-183			\$ 87,000				Nashua	Yes	\$ 29.82	\$ 2,594	
Fernwood Street	Replace 450 LF of 6 inch CI with 6 inch DIPCL		DW17-183			\$ 116,000				Nashua	Yes	\$ 29.82	\$ 3,459	
Revere Street	Replace 760 LF of 6 inch CI with 8 inch DIPCL		DW17-183			\$ 239,000				Nashua	Yes	\$ 29.82	\$ 7,127	
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		DW17-183			\$ 293,000				Nashua	Yes	\$ 29.82	\$ 8,737	
Evergreen Street	Replace 310 LF of 1.5 and 1.25 inch CI with 4 inch DIPCL		DW17-183			\$ 66,000				Nashua	Yes	\$ 29.82	\$ 1,968	
Morton Street	Replace 290 LF of 1.5 inch CI with 550 LF of 4 inch DIPCL		DW17-183			\$ 114,000				Nashua	Yes	\$ 29.82	\$ 3,399	
Park 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		DW17-183			\$ 132,000				Nashua	Yes	\$ 29.82	\$ 3,936	
Coburn Woods (all side streets)	Replace 4400 LF of 2 inch PVC with 4 inch DIPCL		DW17-183			\$ 1,024,400				Nashua	Yes	\$ 29.82	\$ 30,548	
Northwest Water Main Improvements			DW17-183							Nashua	Yes	\$ 29.82	\$ -	
	Manchester Street Add 2700 LF of 24 inch DIPCL on Manchester St.		DW17-183			\$ 600,000				Nashua	Yes	\$ 29.82	\$ 17,892	
	Route 101A and Route 121 (Amherst) Add 2200 LF of 12 inch DIPCL to close loop		DW17-183			\$ 500,000				Nashua	Yes	\$ 29.82	\$ 14,910	
	Tinker Road Replace 825 LF of 16 inch AC with 825 LF of 24 inch DIPCL		DW17-183			\$ 475,000				Nashua	Yes	\$ 29.82	\$ 14,165	
Lake Street	Replace 2950 LF of 6 inch CI with 12 inch DI		DW17-183			\$ 1,415,200				Nashua	Yes	\$ 29.82	\$ 42,201	
Outside GIS Consulting Services	Outside GIS Consulting Services		DW17-183			\$ 73,000				Various	No	\$ 29.13	\$ -	
Water Modeling Consulting	Water Modeling Consulting		DW17-183			\$ 50,000				Various	No	\$ 29.13	\$ -	
Trimble R2 Units	Trimble R2 Units		DW17-183			\$ 13,000				Various	Yes	\$ 29.13	\$ 379	
Water Level Well Monitoring Equipment	Water Level Well Monitoring Equipment		DW17-183			\$ 5,000				Various	No	\$ 29.13	\$ -	
Replace Jeep with Pickup	Replace 2006 Jeep with 152,407 miles with Pickup		DW17-183			\$ 30,000				Merrimack	No	\$ 28.17	\$ -	
Replace Ranger Pickup	Replace 2005 Ranger Pickup with 186,885 miles		DW17-183			\$ 30,000				Merrimack	No	\$ 28.17	\$ -	
Booster/Well/Chem Feed pump replacements	Booster/Well/Chem Feed pump replacements		DW17-183			\$ 60,000				Various	Yes	\$ 29.13	\$ 1,748	

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	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	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since 1/30/2018
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS		DW17-183			\$ 15,000				Various	Yes	\$ 29.13	\$ 437	
Misc. Structural Improvements	Misc. Structural Improvements		DW17-183			\$ 20,000				Various	Yes	\$ 29.13	\$ 583	
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased		DW17-183			\$ 20,000				Various	Yes	\$ 29.13	\$ 583	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical		DW17-183			\$ 30,000				Various	Yes	\$ 29.13	\$ 874	
Well Rehabilitation	Well Rehabilitation		DW17-183			\$ 50,000				Various	Yes	\$ 29.13	\$ 1,457	
WTP Structural/HVAC	WTP Structural/HVAC		DW17-183			\$ 10,000				Nashua	Yes	\$ 29.82	\$ 298	
Purchase new lab equipment	Purchase new lab equipment		DW17-183			\$ 20,000				Nashua	No	\$ 29.82	\$ -	
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects		DW17-183			\$ 10,000				Various	Yes	\$ 29.82	\$ 298	
Replace Water Supply Vehicle	Run rate vehicle replacement		DW17-183			\$ 65,000				Nashua	No	\$ 29.82	\$ -	
Replace Water Supply Vehicle	Run rate vehicle replacement		DW17-183			\$ 65,000				Nashua	No	\$ 29.82	\$ -	
Replace Water Supply Vehicle	Run rate vehicle replacement		DW17-183			\$ 40,000				Nashua	No	\$ 29.82	\$ -	
Replace Water Supply Vehicle	Run rate vehicle replacement		DW17-183			\$ 40,000				Nashua	No	\$ 29.82	\$ -	
WTP Perimeter Fence	WTP Perimeter Fence		DW17-183			\$ 80,000				Merrimack	Yes	\$ 28.17	\$ 2,254	
Bowers Dam Spillway reconstruction engineering	Bowers Dam Spillway reconstruction engineering		0.1DSRR			\$ 90,000				Merrimack	No	\$ 28.17	\$ -	Not Eligible for 2018 QCPAC as this is engineering only
WTP Camera system upgrade	Existing Camera system is outdated		DW17-183			\$ 50,000				Nashua	Yes	\$ 29.13	\$ 1,457	
Dredging feasibility study	Dredging feasibility study		0.1DSRR			\$ 31,500				Various	No	\$ 29.13	\$ -	Study is not QCPAC Qualified
Sourcewater Protection Study	Sourcewater Protection Study		0.1DSRR			\$ 15,000				Various	No	\$ 29.13	\$ -	Study is not QCPAC Qualified
Aquatic Vegetation Assessment and Management	Aquatic Vegetation Assessment and Management		0.1DSRR			\$ 7,500				Various	No	\$ 29.13	\$ -	Study is not QCPAC Qualified
Website Upgrades	Improved Customer Service Experience		DW17-183			\$ 36,000				Merrimack	No	\$ 28.17	\$ -	
SIEM Appliance	Aggregate Real-time monitoring of system alerts and logs		DW17-183			\$ 26,000				Merrimack	No	\$ 28.17	\$ -	
AD Change Auditor	Needed to track changes to Authentication Server		DW17-183			\$ 4,000				Merrimack	No	\$ 28.17	\$ -	
File Server Replacement	Replace older hardware		DW17-183			\$ 13,000				Merrimack	No	\$ 28.17	\$ -	
Storage Upgrade	Replace non-supported hardware and increase speed		DW17-183			\$ 70,000				Merrimack	No	\$ 28.17	\$ -	
Munis FER Enhancements	Needed as Business process change		DW17-183			\$ 64,000				Merrimack	No	\$ 28.17	\$ -	
Click Mobile Application Changes	Needed as Business process change		DW17-183			\$ 30,000				Merrimack	No	\$ 28.17	\$ -	
ClickMobile Move to iPads	Move to a more functional device		DW17-183			\$ 140,000				Merrimack	No	\$ 28.17	\$ -	
Implement Customer Balances over the phone	Improved Customer Service Experience		DW17-183			\$ 4,000				Merrimack	No	\$ 28.17	\$ -	
Miscellaneous Hardware	Run Rate replacements		DW17-183			\$ 15,000				Merrimack	No	\$ 28.17	\$ -	
Miscellaneous Software	Run Rate replacements		DW17-183			\$ 12,000				Merrimack	No	\$ 28.17	\$ -	
LIMS upgrade	Allow for Electronic Data Collection in the Field		DW17-183			\$ 11,000				Merrimack	No	\$ 28.17	\$ -	
Physical Server for Pearl			DW17-183			\$ 12,000				Merrimack	No	\$ 28.17	\$ -	
Corporate Job Scheduler	Centralized nightly job management and notification		DW17-183			\$ 4,000				Merrimack	No	\$ 28.17	\$ -	
Consulting	Consulting		DW17-183			\$ 32,000				Merrimack	No	\$ 28.17	\$ -	
Laptops for L.G. & D.W.	Laptops for L.G. & D.W.		DW17-183			\$ 4,000				Merrimack	No	\$ 28.17	\$ -	
Additional Computers	Additional Computers		DW17-183			\$ 4,000				Merrimack	No	\$ 28.17	\$ -	
Pennichuck Water Works Projected 2018 Total Capital Expenditure Budget -						\$ 12,054,400	Projected Property Tax Expense associated with QCPAC projects -						\$ 314,360	

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

Exhibit 2 Page 3, 2019 QCPAC
Capital Expenditures

Project Name/Description	Project Description	Approved Budgeted Amount	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense
10 New Services	Single Family, Owner Build, New Homes	\$ 46,000	Various	Yes	\$ 29.13	\$ 1,340
20 Renewed Services	Replacement of failed services	\$ 92,000	Various	Yes	\$ 29.13	\$ 2,680
10 Hydrants	Replacement of non functional hydrants	\$ 50,000	Various	Yes	\$ 29.13	\$ 1,457
10 Valve Replacements	Replacement of Failed Gate Valves	\$ 30,000	Various	Yes	\$ 29.13	\$ 874
Replace failed radio meter readers	Replace out of warranty failed radio meter readers (280)	\$ 50,000	Various	Yes	\$ 29.13	\$ 1,457
250 New Meters (growth) 5/8"-2" (CORE & CWS)	250 New Meters (growth) 5/8"-2" (CORE & CWS)	\$ 62,000	Various	Yes	\$ 29.13	\$ 1,806
1,150 New Meters for Lead Meter exchanges (PWW-CORE) 5/8"-6'	1,150 New Meters for Lead Meter exchanges (PWW-CORE) 5/8"-6'	\$ 259,000	Various	Yes	\$ 29.13	\$ 7,545
270 New Meters for PT exchanges 5/8"-6'	270 New Replacement Meters for PT's 5/8"-6'	\$ 27,000	Various	Yes	\$ 29.13	\$ 787
Metal Detectors (6)	Ongoing small equipment replacement - run rate	\$ 7,000	Merrimack	No	\$ 28.17	\$ -
Ferromagnetic Pipe locators (3)	Ongoing small equipment replacement - run rate	\$ 10,000	Merrimack	No	\$ 28.17	\$ -
Service Truck replacement (#4)	Replace 2011 Pickup Truck with 160,000+ projected miles	\$ 60,000	Merrimack	No	\$ 28.17	\$ -
Meter service van replacement (#72)	Replace 2009 Meter Van with 158,000+ projected miles	\$ 35,000	Merrimack	No	\$ 28.17	\$ -
Mud Pump Replacements (2)	Ongoing small equipment replacement	\$ 4,000	Merrimack	No	\$ 28.17	\$ -
Tapping Machine replacements (2)	Tapping Machine replacements (2)	\$ 4,000	Merrimack	No	\$ 28.17	\$ -
Trimble units for Meter Reading (4 units)	Replace remaining CE meter reading equipment	\$ 13,000	Merrimack	No	\$ 28.17	\$ -
Repace 2850 meter reading radios	Complete with PT's, Replace aging radios	\$ 270,000	Various	No	\$ 29.13	\$ -
Elm St	Residual paving from prior year main replacement	\$ 22,000	Nashua	Yes	\$ 29.82	\$ 656
Monroe Street	Residual paving from prior year main replacement	\$ 10,000	Nashua	Yes	\$ 29.82	\$ 298
West Pearl Street	Residual paving from prior year main replacement	\$ 10,000	Nashua	Yes	\$ 29.82	\$ 298
Gilman Street	Residual paving from prior year main replacement	\$ 180,000	Nashua	Yes	\$ 29.82	\$ 5,368
Ritter Street	Residual paving from prior year main replacement	\$ 61,200	Nashua	Yes	\$ 29.82	\$ 1,825
Woodward Street	Residual paving from prior year main replacement	\$ 36,200	Nashua	Yes	\$ 29.82	\$ 1,079
Factory Street	Residual paving from prior year main replacement	\$ 155,600	Nashua	Yes	\$ 29.82	\$ 4,640
Pennichuck Street	Residual paving from prior year main replacement	\$ 13,200	Nashua	Yes	\$ 29.82	\$ 394
Fossa Avenue	Residual paving from prior year main replacement	\$ 33,400	Nashua	Yes	\$ 29.82	\$ 996
Russell Avenue	Residual paving from prior year main replacement	\$ 52,700	Nashua	Yes	\$ 29.82	\$ 1,572
Taylor Street (Main St to Fifield)	Residual paving from prior year main replacement	\$ 86,500	Nashua	Yes	\$ 29.82	\$ 2,579
Burnett Street	Residual paving from prior year main replacement	\$ 65,500	Nashua	Yes	\$ 29.82	\$ 1,953
Field Street	Residual paving from prior year main replacement	\$ 33,500	Nashua	Yes	\$ 29.82	\$ 999
Fernwood Street	Residual paving from prior year main replacement	\$ 45,000	Nashua	Yes	\$ 29.82	\$ 1,342
Revere Street	Residual paving from prior year main replacement	\$ 80,100	Nashua	Yes	\$ 29.82	\$ 2,389
Stevens Street	Residual paving from prior year main replacement	\$ 102,100	Nashua	Yes	\$ 29.82	\$ 3,045
Evergreen Street	Residual paving from prior year main replacement	\$ 26,000	Nashua	Yes	\$ 29.82	\$ 775
Morton Street	Residual paving from prior year main replacement	\$ 45,000	Nashua	Yes	\$ 29.82	\$ 1,342
Park Avenue	Residual paving from prior year main replacement	\$ 38,000	Nashua	Yes	\$ 29.82	\$ 1,133
Northwest Water Main Improvements	Residual paving from prior year main replacement	\$ 35,000	Nashua	Yes	\$ 29.82	\$ 1,044
Lake Street	Residual paving from prior year main replacement	\$ 330,000	Nashua	Yes	\$ 29.82	\$ 9,841
Coburn Woods (all side streets)	Residual paving from prior year main replacement	\$ 175,700	Nashua	Yes	\$ 29.82	\$ 5,239
Brook Street	Replace 225 LF of 4 inch and 915 LF of 6 inch CI with 1140 LF of 8 inch	\$ 384,300	Nashua	Yes	\$ 29.82	\$ 11,460
Hamilton Street	Replace 410 LF of 6 inch CI with 4 inch DIPCL	\$ 88,300	Nashua	Yes	\$ 29.82	\$ 2,633
Ash Street	Replace 510 LF of 6 inch CI with 8 inch DIPCL	\$ 174,100	Nashua	Yes	\$ 29.82	\$ 5,192
Burritt Street	Replace 425 LF of 4 inch CI with 8 inch DIPCL	\$ 142,800	Nashua	Yes	\$ 29.82	\$ 4,258
Burritt Street	Replace 125 LF of 4 inch CI with 4 inch DIPCL	\$ 39,100	Nashua	Yes	\$ 29.82	\$ 1,166
Verona Street	Replace 675 LF of 6 inch CI with 8 inch DIPCL	\$ 228,300	Nashua	Yes	\$ 29.82	\$ 6,808
Sarasota Ave	Replace 250 LF of 6 inch CI with 8 inch DIPCL	\$ 84,200	Nashua	Yes	\$ 29.82	\$ 2,511
Merrimack River Intake	Year Round Raw Water Intake from Merrimack River	\$ 5,500,000	Merrimack	Yes	\$ 29.13	\$ 160,215
Twin Ridge Station Improvements	Twin Ridge Station Improvements	\$ 330,000	Plaistow	Yes	\$ 33.12	\$ 10,930
Outside GIS Consulting Services	Outside GIS Consulting Services	\$ 24,000	Merrimack	No	\$ 28.17	\$ -
Water Modeling Consulting	Water Modeling Consulting	\$ 10,000	Merrimack	No	\$ 28.17	\$ -

Project Name/Description	Project Description	Approved Budgeted Amount	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense
Water Level Well Monitoring Equipment	Water Level Well Monitoring Equipment	\$ 5,000	Various	No	\$ 29.13	\$ -
Replace SUV	Replace SUV	\$ 30,000	Merrimack	No	\$ 28.17	\$ -
Replace Pickup	Replace Pickup	\$ 30,000	Merrimack	No	\$ 28.17	\$ -
Booster/Well/Chem Feed pump replacements	Booster/Well/Chem Feed pump replacements	\$ 60,000	Various	Yes	\$ 29.13	\$ 1,748
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS	\$ 15,000	Various	Yes	\$ 29.13	\$ 437
Misc. Structural Improvements	Misc. Structural Improvements	\$ 20,000	Various	Yes	\$ 29.13	\$ 583
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased	\$ 20,000	Various	Yes	\$ 29.13	\$ 583
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	\$ 30,000	Various	Yes	\$ 29.13	\$ 874
Well Rehabilitation	Well Rehabilitation	\$ 50,000	Various	Yes	\$ 29.13	\$ 1,457
WTP Structural/HVAC	WTP Structural/HVAC	\$ 10,000	Nashua	Yes	\$ 29.82	\$ 298
Purchase new lab equipment	Purchase new lab equipment	\$ 20,000	Nashua	No	\$ 29.82	\$ -
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	\$ 10,000	Various	Yes	\$ 29.13	\$ 291
Replace Vehicle	Run Rate Replacement of Water supply vehicles	\$ 65,000	Nashua	No	\$ 29.82	\$ -
Replace Vehicle	Run Rate Replacement of Water supply vehicles	\$ 65,000	Nashua	No	\$ 29.82	\$ -
Replace Vehicle	Run Rate Replacement of Water supply vehicles	\$ 40,000	Nashua	No	\$ 29.82	\$ -
Replace Vehicle	Run Rate Replacement of Water supply vehicles	\$ 40,000	Nashua	No	\$ 29.82	\$ -
Bowers Dam Spillway reconstruction	Bowers Dam Spillway reconstruction	\$ 900,000	Various	Yes	\$ 29.13	\$ 26,217
Carbon media changeout-filters 1 & 3	Carbon media changeout-filters 1 & 3	\$ 550,000	Nashua	Yes	\$ 29.82	\$ 16,401
Desktop PC Replacments	Desktop Replacments	\$ 80,000	Merrimack	No	\$ 28.17	\$ -
Miscellaneous Hardware	Miscellaneous Hardware	\$ 15,000	Merrimack	No	\$ 28.17	\$ -
Miscellaneous Software	Miscellaneous Software	\$ 12,000	Merrimack	No	\$ 28.17	\$ -
Other IT Miscellanious Projects - Run Rate	Other Miscellanious IT Projects - Run Rate	\$ 275,000	Merrimack	No	\$ 28.17	\$ -
Pennichuck Water Works Projected 2019 Total Capital Expenditure Budget -		\$ 12,002,800	Projected Property Tax Expense associated with QCPAC projects -			\$ 320,811

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

Exhibit 2 Page 4, 2020 QCPAC
Capital Expenditures

Project Name/Description	Project Description	Approved Budgeted Amount	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense
10 New Services	Single Family, Owner Build, New Homes	\$ 46,000	Various	Yes	\$ 29.13	\$ 1,340
20 Renewed Services	Replacement of failed services	\$ 92,000	Various	Yes	\$ 29.13	\$ 2,680
10 Hydrants	Replacement of non functional hydrants	\$ 50,000	Various	Yes	\$ 29.13	\$ 1,457
10 Valve Replacements	Replacement of Failed Gate Valves	\$ 30,000	Various	Yes	\$ 29.13	\$ 874
Replace failed radio meter readers	Replace out of warrantee failed radio meter readers (280)	\$ 50,000	Various	Yes	\$ 29.13	\$ 1,457
250 New Meters (growth) 5/8"-2" (CORE & CWS)	250 New Meters (growth) 5/8"-2" (CORE & CWS)	\$ 65,000	Various	Yes	\$ 29.13	\$ 1,893
270 New Meters for PT exchanges 5/8"-6'	270 New Replacement Meters for PT's 5/8"-6'	\$ 27,000	Various	Yes	\$ 29.13	\$ 787
Metal Detectors (6)	Ongoing small equipment replacement - run rate	\$ 7,000	Merrimack	No	\$ 28.17	\$ -
Ferromagnetic Pipe locators (3)	Ongoing small equipment replacement - run rate	\$ 10,000	Merrimack	No	\$ 28.17	\$ -
Service Pick Up replacement (#20)	Replace 2008 with projected 136,000+ miles	\$ 35,000	Merrimack	No	\$ 28.17	\$ -
Meter Pick Up replacement (#95)	Replace 2008 with projected 130,000+ miles	\$ 60,000	Merrimack	No	\$ 28.17	\$ -
Meter Van replacement (#27)	Replace 2011 with projected 135,000+ miles	\$ 35,000	Merrimack	No	\$ 28.17	\$ -
Meter Reading SUV replacement (#21)	Replace 2011 with projected 140,000+ miles	\$ 35,000	Merrimack	No	\$ 28.17	\$ -
Mud Pump Replacements (3)	Mud Pump Replacements (3)	\$ 4,000	Merrimack	No	\$ 28.17	\$ -
Radio Replacements (2850)	Complete with PT's, Replace aging radios	\$ 270,000	Various	Yes	\$ 29.13	\$ 7,865
Brook Street	Residual paving from prior year main replacement	\$ 128,700	Nashua	Yes	\$ 29.82	\$ 3,838
Hamilton Street	Residual paving from prior year main replacement	\$ 40,900	Nashua	Yes	\$ 29.82	\$ 1,220
Ash Street	Residual paving from prior year main replacement	\$ 58,300	Nashua	Yes	\$ 29.82	\$ 1,739
Burritt Street	Residual paving from prior year main replacement	\$ 47,800	Nashua	Yes	\$ 29.82	\$ 1,425
Burritt Street	Residual paving from prior year main replacement	\$ 18,100	Nashua	Yes	\$ 29.82	\$ 540
Verona Street	Residual paving from prior year main replacement	\$ 76,500	Nashua	Yes	\$ 29.82	\$ 2,281
Sarasota Ave	Residual paving from prior year main replacement	\$ 28,200	Nashua	Yes	\$ 29.82	\$ 841
Fields Grove Park Crossing (Chestnut to Lawndale)	Add 750 LF of 16 inch HDPE (stream crossing)	\$ 506,000	Nashua	Yes	\$ 29.82	\$ 15,089
Benson Avenue	Replace 550 LF of 4 inch CI with 8 inch DIPCL	\$ 191,500	Nashua	Yes	\$ 29.82	\$ 5,711
Spaulding Street	Replace 950 LF of 6 inch CI with 8 inch DIPCL	\$ 329,500	Nashua	Yes	\$ 29.82	\$ 9,826
Alstead Avenue	Replace 240 LF of 4 inch CI with 4 inch DIPCL	\$ 73,000	Nashua	Yes	\$ 29.82	\$ 2,177
Spaulding Avenue	Replace 430 LF of 6, 2, & 1.25 inch CI with 4 inch DIPCL	\$ 95,200	Nashua	Yes	\$ 29.82	\$ 2,839
St Lazare Street	Replace 415 LF of 2 inch CI with 4 inch DIPCL	\$ 91,800	Nashua	Yes	\$ 29.82	\$ 2,737
Ingalls St (St Camille to end)	Replace 200 LF of 1.5 inch CI with 4 inch DIPCL	\$ 44,300	Nashua	Yes	\$ 29.82	\$ 1,321
Nye Avenues	Replace 400 LF of 2 & 1.5 inch CI with 4 inch DIPCL	\$ 87,400	Nashua	Yes	\$ 29.82	\$ 2,606
Copp Street	Replace 350 LF of 6 inch CI with 8 inch DIPCL	\$ 124,200	Nashua	Yes	\$ 29.82	\$ 3,704
Gray Avenue	Replace 360 LF of 6 inch CI with 6 inch DIPCL	\$ 102,300	Nashua	Yes	\$ 29.82	\$ 3,051
Harvard Street	Replace 800 LF of 8 inch CI with 8 inch DIPCL	\$ 272,300	Nashua	Yes	\$ 29.82	\$ 8,120
Alld Street	Replace 1860 LF of 6 & 8 inch CI with 12 inch DIPCL	\$ 878,700	Nashua	Yes	\$ 29.82	\$ 26,203
Lawndale Avenue	Replace 1085 LF of 6 inch CI with 12 inch DIPCL	\$ 497,200	Nashua	Yes	\$ 29.82	\$ 14,827
Taylor Road (Lynn St to	Replace 725 LF of 8 inch CI with 12 inch DIPCL	\$ 332,500	Nashua	Yes	\$ 29.82	\$ 9,915
Temple St (south to gorman)	Replace 900 LF of 8 inch CI with 12 inch DIPCL	\$ 415,600	Nashua	Yes	\$ 29.82	\$ 12,393
School Street (High to W. Pearl Alleyway)	Replace 400 LF of 4 inch CI with 8 inch DIPCL	\$ 137,400	Nashua	Yes	\$ 29.82	\$ 4,097
Kessler Farm Tank Replacement	Kessler Farm Tank Replacement	\$ 3,080,000	Nashua	Yes	\$ 29.82	\$ 91,846
Outside GIS Consulting Services	Outside GIS Consulting Services	\$ 18,000	Merrimack	No	\$ 28.17	\$ -
Water Modeling Consulting	Water Modeling Consulting	\$ 10,000	Merrimack	No	\$ 28.17	\$ -
Water Level Well Monitoring Equipment	Water Level Well Monitoring Equipment	\$ 5,000	Various	No	\$ 29.13	\$ -
Replace SUV	Replace SUV	\$ 30,000	Merrimack	No	\$ 28.17	\$ -
Replace Pickup	Replace Pickup	\$ 30,000	Merrimack	No	\$ 28.17	\$ -
Booster/Well/Chem Feed pump replacements	Booster/Well/Chem Feed pump replacements	\$ 60,000	Various	Yes	\$ 29.13	\$ 1,748
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS	\$ 15,000	Various	Yes	\$ 29.13	\$ 437
Misc. Structural Improvements	Misc. Structural Improvements	\$ 20,000	Various	Yes	\$ 29.13	\$ 583

Project Name/Description	Project Description	Approved Budgeted Amount	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased	\$ 20,000	Various	Yes	\$ 29.13	\$ 583
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	\$ 30,000	Various	Yes	\$ 29.13	\$ 874
Well Rehabilitation	Well Rehabilitation	\$ 50,000	Various	Yes	\$ 29.13	\$ 1,457
WTP Structural/HVAC	WTP Structural/HVAC	\$ 10,000	Nashua	Yes	\$ 29.82	\$ 298
Purchase new lab equipment	Purchase new lab equipment	\$ 20,000	Nashua	No	\$ 29.82	\$ -
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	\$ 10,000	Various	Yes	\$ 29.82	\$ 298
Replace Vehicle	Run Rate Replacement of Water supply vehicles	\$ 65,000	Nashua	No	\$ 29.82	\$ -
Replace Vehicle	Run Rate Replacement of Water supply vehicles	\$ 65,000	Nashua	No	\$ 29.82	\$ -
Replace Vehicle	Run Rate Replacement of Water supply vehicles	\$ 40,000	Nashua	No	\$ 29.82	\$ -
Replace Vehicle	Run Rate Replacement of Water supply vehicles	\$ 40,000	Nashua	No	\$ 29.82	\$ -
Carbon Media changeout - filters 3 & 4	Carbon Media changeout - filters 3 & 4	\$ 550,000	Nashua	Yes	\$ 29.82	\$ 16,401
Work Order and Asset Management (Synergen upgrade)	Upgrade WAM to new infrastructure and interface	\$ 90,000	Merrimack	Yes	\$ 28.17	\$ 2,535
Miscellaneous Hardware	Miscellaneous Hardware	\$ 15,000	Merrimack	No	\$ 28.17	\$ -
Miscellaneous Software	Miscellaneous Software	\$ 12,000	Merrimack	No	\$ 28.17	\$ -
Other IT Miscellaneous Projects - Run Rate	Other IT Miscellaneous Projects - Run Rate	\$ 275,000	Merrimack	No	\$ 28.17	\$ -
Pennichuck Water Works Projected 2020 Total Capital Expenditure Budget -		\$ 9,953,400	Projected Property Tax Expense associated with		QCPAC projects -	\$ 271,909

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