Pennichuck Water Works, Inc. DW 21-023 Computation of QCPAC Surcharge 2/11/2021 6/30/2021 Update, Revised 9/21/21 DOE TS 2-3 9/30/2021 Update

	 oved DW19-084 evenues per Order#	QCI	PAC For 2019 ital Additions		Surcharge for Cap	CPAC For 2020 pital Additions pro forma	for	AC Surcharge 2020 Capital Additions	Cap	PAC For 2021 oital Additions pro forma		CPAC Surcharge or 2021 Capital Additions	Cap	PAC For 2022 bital Additions pro forma	for	PAC Surcharge 2022 Capital Addition	Capit	AC For 2023 al Additions to forma	for	AC Surcharge 2023 Capital Additions
City Bond Fixed Revenue Requirement (CBFRR)	\$ 7,729,032	\$	=	\$	7,729,032 \$	=	s	7,729,032	\$	-	\$	7,729,03	2 \$	-	\$	7,729,032			\$	7,729,032
DW19-084 Operating Expense Revenue Requirement	\$ 21,296,618	(1) \$	416,593	\$	21,713,211 \$	155,083	(4) \$	21,868,294	\$	202,80	9 (4) \$	22,071,10	3 (4) \$	290,409	\$	22,361,512	\$	257,112	\$	22,618,624
DW19-084 Annual Principal and Interest Payments	\$ 6,176,477	(2) \$	854,442	\$	7,030,919 \$	351,395	(5) \$	7,382,314	\$	526,91	0 \$	7,909,22	4 \$	628,441	\$	8,537,664	\$	603,602	\$	9,141,266
Principal and Interest Coverage Requirement	1.10	(3)			1.10			1.10				1.1	0			1.10				1.10
DW19-084 Principal and Interest Revenue Requirement	\$ 6,794,124			\$	7,734,011		\$	8,120,546			\$	8,700,14	6		\$	9,391,431			\$	10,055,393
DW19-084 Revenue Requirement	\$ 35,819,774			\$	37,176,254		\$	37,717,871			\$	38,500,28	1		\$	39,481,975			\$	40,403,049
DW19-084 Revenue Requirement less Other Revenues	\$ 35,399,062	(12)		\$	36,755,541		\$	37,297,159			\$	38,079,56	9		\$	39,061,263			\$	39,982,336
DW19-084 Revenue Requirement less Other Revenues less Fixed Special Contract Revenues	\$ 34,792,618	(8)		s	36,149,098		ş	36,690,716	(8)		\$	37,473,12	5 (8)		\$	38,454,819			\$	39,375,893
Percent QCPAC Surcharge (9)					3.90%			1.56%				2.25	2/0			2.82%				2.65%
Cumulative QCPAC Surcharge (13)					3.90%			5.46%				7.70	%			10.53%				13.17%
Cumulative QCPAC monthly increase in average single family residential bill.				\$	2.17		\$	3.04			\$	4.2	9		\$	5.86			s	7.73
Average monthly single family residential bill with QCPAC.	\$ 55.65			\$	57.82		\$	58.69			\$	59.9	4		\$	61.51			\$	63.38
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 NHPUC Order #26 (2) Annual Principal and interest payments for PWW debt associated with all plant in service as approved in DW19-084. (3) Principal and interest coverage of 1.10 is as approved in DW16-806. (4) QCPAC operating expenses are based on the property taxes for used and useful plant added during the year (5) Portion of Annual Principal and interest payments for debt associated with plant placed in service between 1/1/2020 and 12/31/2020 based on a (6) QCPAC Principal and Interest expenses are based on (7) QCPAC percent revenue surcharges based on increase in revenues granted in DW19-084 (8) Reduction in revenues associated with fixed contracts as follows: (9) QCPAC Principal and Interest expenses for DWGTF financing are based on a (11) Cumulative surcharge percentage is based on total surcharge revenues collected divided by the revenues granted in DW19-084 that are impacted by the QCPAC. (12) Operating expense revenues approved in DW19-084 less total Other Revenues of (13) QCPAC percent revenue surcharges based on revenues approved in DW19-084.	30 on Annual Fixed Cl		32,800 d with interest rate of		Mili 3.38% \$	ord Annual Fixed Chg 420,712	s	4.50% fo	or 2021 throug	oond with a proje gh 2023 Capital I Annual Fixed Ch	Expenditures un	e of less funding is via : 371,43	n SRF/DWGTF		ased on a bone \$	d issuance in April 202 121,213	21			

Impact on Single Family Residential Home:

		DW19-084
Monthly meter charge approved in DW19-084 -	Ş	24.
Average Single Family Consumption per DW19-084 (CCF) -		7
Volumetric Charge approved in DW#19-084 -	\$	4
ve. Single Family monthly bill with rates approved in DW19-084 -	\$	55.

													QCPAC	
									Final QCPAC				Eligible Property Tax	
			Financing	NHPUC	Date of NHPUC	Board Approved	Board Approved 2019 Capex Budget	, Eligible for 2020	eligible Project Costs as of				Expense (Based on	
Project Name/Description	Project Description	Work Order #	Docket No.	Order No.	Order	2019 Capex Budget		QCPAC Surcharge	12/31/2019	Community	Taxable	Tax Rate (1)	Qrtly Update)	Explanation for Change/Addition/Deletion since Petition Filing
New Services (10)	Single Family, Owner Build, New Homes	20 workorders	DW17-183	26,101	2/2/2018	\$ 46,000		Yes	\$ 69,936	Various	Yes	\$ 27.02		12 installed through 12/31.
Renewed Services (20)	Replacement of failed services	21, 22 & 23 workorders	DW17-183	26,101	2/2/2018	\$ 92,000			\$ 101,648	Various	Yes	\$ 27.02		29 installed through 12/31.
Hydrants (10)	Replacement of non-functional hydrants	30 & 31 workorders	DW17-183	26,101	2/2/2018	\$ 50,000			\$ 40,209	Various	Yes	\$ 27.02		7 installed through 12/31.
Gates (10)	Replacement of Failed Gate Valves	12 & 13 workorders	DW17-183	26,101	2/2/2018	\$ 40,000	,		\$ 10,573	Various	Yes	\$ 27.02		4 installed through 12/31.
Radios (2750) Meters (Growth) 5/8"-2" - Core & CWS (480)	Replace out of warrantee failed radio meter readers. Meters (Growth) 5/8"-2" - Core & CWS (480)	54 workorders	DW17-183 DW17-183	26,101	2/2/2018 2/2/2018	\$ 275,000		-	\$ 48,942	Various	Yes	\$ 27.02		Deferred Radio Replacement program (Radios are 12 years old). 495 replaced through 12/31.
Meters (Growth) 5/8"-2" - Core & CWS (480) Meters 5/8"-6" Lead Meter Exchange - Core & CWS (3000)	Meters (Growth) 5/8"-2" - Core & CWS (480) Meters 5/8"-6" Lead Meter Exchange - Core & CWS (3000)	50 workorders 50 workorders	DW17-183 DW17-183	26,101	2/2/2018 2/2/2018	\$ 48,000 \$ 300,000			\$ 207,025	Various Various	Yes Yes	\$ 27.02 \$ 27.02		1732 installed/repalced through 12/31.
Entrance Security Gate & Perimeter Fence	Entrance Security Gate & Perimeter Fence	1901598	DW17-183	26,101	2/2/2018	\$ 75,000			\$ 66.204	Merrimack	Yes	\$ 28.86		
Replace 13 vr Vac Trailer - Safety & Maint issue	Replace 13 vr Vac Trailer - Safety & Maintenance issue	1917721	DW17-183	26,101	2/2/2018	\$ 100,000		Yes	\$ 29,710	Merrimack	Yes	\$ 28.86		Then Company was leasing a vac machine for 2019. It was decided to buy out the lease.
Protectus Meter Upgrade	Spitbrook Rd Protectus Meter Upgrade	n/a	DW17-183	26,101	2/2/2018	\$ 21,000			\$ -	Nashua	Yes	\$ 26.23		Deferred until 2020.
Pipe Freeze Kits (2)	RoFrost Turbo 2 Electric Pipe Freeze Kts	1915135	DW17-183	26,101	2/2/2018	\$ -	\$ 7,400		\$ 6,970	Nashua	No	\$ 26.23		Existing Freeze kits have failed and not repairable 15+ years old.
Plate Compactors (4)	Replacement of failed compactors unable to obtain repair parts.	1918551	DW17-183	26,101	2/2/2018	s -	\$ 17,500	Yes	\$ 15,888	Nashua	No	\$ 26.23		Existing units have failed and parts for repair are not available.
Network Digital Display for Distribution Department	Relocate & network display to Assignment room & new 75" display in Conference Room.	1917719	0.1 DSRR	, , ,			\$ 2,700		\$ 2,597	Merrimack	No	\$ 28.86		Existing steel sander rusted through and was replaced with new sander.
Poly-Caster Sander	Poly-Caster Sander	1917720	DW17-183	26,101	2/2/2018			Yes	\$ 7,460	Merrimack	No	\$ 28.86		. ,
2018 Dodge Ram 2500 (#313)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907613	0.1 DSRR			\$ -	\$ 1,969	No	\$ 1,969	Merrimack	No	\$ 28.86	S -	
2018 Dodge Ram 2500 (#314)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907612	0.1 DSRR			\$ -	\$ 1,969	No	\$ 1,969	Merrimack	No	\$ 28.86	\$ -	
2018 Dodge Ram 2500 (#315)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907615	0.1 DSRR			\$ -	\$ 2,542	No	\$ 2,542	Merrimack	No	\$ 28.86	\$ -	
2018 Dodge Ram Promaster 1500 Cargo Van (#347)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907987	0.1 DSRR			\$ -	\$ 1,060	No	\$ 1,060	Merrimack	No	\$ 28.86	\$ -	
2018 Dodge Ram Promaster 1500 Cargo Van (#348)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907988	0.1 DSRR			\$ -	\$ 1,060	No	\$ 1,060	Merrimack	No	\$ 28.86	\$ -	
2018 Dodge Ram Promaster 1500 Cargo Van (#349)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907989	0.1 DSRR			\$ -	\$ 1,060	No	\$ 1,060	Merrimack	No	\$ 28.86	S -	
Meter Data Logging Equipment	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907885	0.1 DSRR			\$ -	\$ 2,849	No	\$ 2,850	Various	Yes	\$ 27.02	\$ 77	Equipment used in leak detection.
Gilman Street	Replace 1470 LF of 8 inch CI with 12 inch DIPCL.	1607377, 1702856, 1806433, 1901176	DW17-183	26,101	2/2/2018	\$ 550,000	\$ 615,000	Yes	\$ 661,270	Nashua	Yes	\$ 26.23	\$ 17,345	Pavement contribution to the City of Nashua paid in 2018 (\$127,264).
Elm Street	Replace 875 LF of 6 inch CI with 12 inch DIPCL.	1702871, 1812907, 1901599	DW17-183	26,101	2/2/2018	\$ 559,350	\$ 255,000	Yes	\$ 373,328	Nashua	Yes	\$ 26.23	\$ 9,792	Pavement contribution to City of Nashua of \$67,650 included.
Monroe Street	Replace 310 LF of 4 inch CI with 8 inch DIPCL.	1702866, 1812908, 1901602	DW17-183	26,101	2/2/2018	\$ 122,270	\$ 120,000	Yes	\$ 97,541	Nashua	Yes	\$ 26.23	\$ 2,558	
Garden Street	Replace 74 LF of 8" CIP with 8 inch DIPCL and reconnect City Hall Fire serviced missed during Elm St work.	1918487	DW17-183	26,101	2/2/2018	\$ -	\$ -	Yes	\$ 61,918	Nashua	Yes	\$ 26.23	\$ 1,624	Connecting Nashua City Hall sprinkler connection that was missed during the Elm St project. Also replace a portion of the Garden Street water main. Per City almost all work had to be performed on Sunday night Final paving in Spring 2020 \$18,000 not included.
W.Pearl Street	Replace 340 LF of 8" CIP with 120 LF of 12" DIPCL and 220 LF of 8" DIPCL.	1702869, 1812909, 1901603	DW17-183	26,101	2/2/2018	\$ 138,050		Yes	\$ 178,120	Nashua	Yes	\$ 26.23	\$ 4,672	Pavement contribution to City of Nashua of \$27,200 included.
Harvard Street	Replace 800 LF of 8 inch CI with 8 inch DIPCL.	1814742, 1901604	DW17-183	26,101	2/2/2018	\$ 247,500	- /		\$ 259,668	Nashua	Yes	\$ 26.23	,.	Pavement contribution to City of Nashua of \$38,000 included.
West Hollis Street Check Valve Pit	Install at the int of W. Hollis St and Panther Dr.	n/a	DW17-183	26,101	2/2/2018	\$ 88,000	\$ -	Yes		Nashua	Yes	\$ 26.23	\$ -	Deferred to future year to accommodate additional water main projects.
NWS Improvements - Manchester Street	Add 2700 LF of 24 inch DIPCL on Manchester St.	1806805, 1900422				\$ 660,000	\$ 660,000	Yes	\$ 507,141	Nashua	Yes	\$ 26.23		Added security fence replacement (1,700 LF) along Manchester Street - some work will carry over into 202
•		· ·	-			·							+	included.
NWS Improvements -Route 101A and Route 121 (Amherst)	Add 2200 LF of 12 inch DIPCL to close loop.	1806810, 1901607	DWGTF			\$ 550,000	\$ 550,000	Yes	\$ 548,252	Nashua	Yes	\$ 26.23	\$ 14,381	Adjusted cost based on final installed materials in 2020 - some work will carry over into 2020.
NWS Improvements - Tinker Road	Replace 825 LF of 16 inch AC with 825 LF of 24 inch DIPCL.	1702835, 1806434, 1900421	Financing	26,197	12/3/2018	\$ 522,500	\$ 522.500	Yes	\$ 369.378	Nashua	Yes	\$ 26.23	\$ 9.689	Adjusted cost based on final installed materials in 2020 - some work will carry over into 2021.
NWS Improvements - Tinker Road NWS Improvements - Deerwood Drive & Amherst St. Intersection	Replace 1300 LF of 12 inch AC with 1300 LF of 24 inch DIPCL.	1806808, 1901609	DW18-133			\$ 322,500 \$ 467,500			\$ 309,378 \$ 158,469	Nashua	Yes	\$ 26.23	9 2,002	Adjusted cost based on final installed materials in 2020 - some work will carry over into 2021. Adjusted cost based on final installed materials in 2020 - some work will carry over into 2022.
NWS Improvements - Deerwood Dr. Northwest Blvd Loop	Add 3400 LF of 20 inch HDPE including RR pipe jacking.	1806806, 1901610	1			\$ 635,800			\$ 1.302.871	Nashua	Yes	\$ 26.23		Adjusted cost based on final installed materials in 2020 - some work will carry over into 2022. Adjusted cost based on final installed materials in 2020 - some work will carry over into 2023.
NWS Improvements Ponemah Rd/Route 101A Loop	Add 2200 LF of 12 inch DIPCL to close two loop major dead ends.	1901611	1			\$ 484,000	9 055,000	1 03	\$ 1,302,071 \$ -	Nashua	Yes	\$ 26.23		Project cancelled and replaced with piping in projects above.
NWS Improvements - Engineering Design and Inspection	Engineering and Inspection of NW System watermain improvements.		0.1 DSRR			Incuded in NWS Improvemts above	Incuded in NWS Improvemts above	No	\$ 174,347	Nashua	Yes	\$ 26.23	\$ 4,573	
City of Nashua Sewer - Chase Street	Replace 470 LF of 6 inch CIP with 470 LF of 6 inch DIPCL.	1829925, 1900484	DW17-183	26,101	2/2/2018	\$ 176,000	\$ 190,000	Yes	\$ 175,370	Nashua	Yes	\$ 26.23	\$ 4.600	Project Complete
City of Nashua Sewer - Ash Street	Replace 710 LF of 6 inch CIP with 710 LF of 12 inch DIPCL.	1814367, 1915975	DW17-183	26,101	2/2/2018	\$ 242,000			\$ 156,252	Nashua	Yes	\$ 26.23		Pavement contribution to City of Nashua of \$20,832 included.
City of Nashua Sewer - Lake Street	Replace 2950 LF of 6 inch CI with 12 inch DIPCL.	1814740, 1915976	DW17-183	26,101	2/2/2018	\$ 990,000	\$ 1,710,500	Yes	\$ 1,608,850	Nashua	Yes	\$ 26.23	\$ 42,200	Pavement contribution to City of Nashua of \$344,000 included.
City of Nashua Paving - Vilna St.	Replace 15 LF of 1.5 inch steel with 2 inch HDPE for paving program.	1915860	DW17-183	26,101	2/2/2018	\$ -	\$ 16,750	Yes	\$ 17,400	Nashua	Yes	\$ 26.23	\$ 456	Includes final paving - complete
Interconnection to BWC	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1900429	0.1 DSRR			ş -	\$ 3,400	No	\$ -	Nashua	Yes	\$ 26.23	\$ -	Carry over costs from project completed in 2018, pay for with 0.1 DSRR.
Woodward Avenue	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1910117	0.1 DSRR			\$ -	\$ 2,200	No	\$ -	Nashua	Yes	\$ 26.23		Carry over costs from project completed in 2018, pay for with 0.1 DSRR.
Ritter Street	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1910116	0.1 DSRR							Nashua	Yes	\$ 26.23		Carry over costs from project completed in 2018, pay for with 0.1 DSRR.
Factory Street	Carryover Costs to 2018 projects not recovered in prior QCPAC.					\$ -	* 3,000		\$ -					
	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1909270	0.1 DSRR			\$ - \$ -	\$ 6,890 \$ 20,209		\$ - \$ 20,209	Nashua	Yes	\$ 26.23		Carry over costs from project completed in 2018, pay for with 0.1 DSRR.
Taylor Street	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1906988	0.1 DSRR			\$ - \$ -	\$ 20,209 \$ 233	No No	§ 233	Nashua Nashua	Yes	\$ 26.23	\$ 6	Carry over costs from project completed in 2018, pay for with 0.1 DSRR.
Taylor Street Shakespeare HP System Exp	Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC.	1906988 1901942	0.1 DSRR 0.1 DSRR			\$ - \$ - \$ -	\$ 20,209 \$ 233 \$ 257	No No No	\$ 233 \$ 257	Nashua Nashua Nashua	Yes Yes	\$ 26.23 \$ 26.23	\$ 6 \$ 7	Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Carry over costs from project completed in 2018, pay for with 0.1 DSRR.
Taylor Street Shakespeare IIP System Exp City of Nashua Paving - Mill St.	Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC. Abandon 1.5" Steel water main and switch customers over to parrallel 8" water main.	1906988	0.1 DSRR	26,101	2/2/2018	\$ - \$ -	\$ 20,209 \$ 233 \$ 257	No No No	§ 233	Nashua Nashua	Yes	\$ 26.23 \$ 26.23 \$ 26.23	\$ 6 \$ 7 \$ -	Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR. Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St -
Taylor Street Shakespeare HP System Exp City of Nashua Paving - Mill St. City of Nashua Paving - Ferryalls Ct	Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC. Abandon 1.5" Steel water main and switch customers over to parrallel 8" water main. Replace 35 ft of 1" copper water main crossing Canal St with a 4" DIPCL Water Main.	1906988 1901942 1915006 1908316	0.1 DSRR 0.1 DSRR 0.1 DSRR DW17-183			\$ - \$ - \$ -	\$ 20,209 \$ 233 \$ 257 \$ 17,900 \$ 58,580	No No No No No Yes	\$ 233 \$ 257 \$ 17,321 \$ 51,988	Nashua Nashua Nashua Nashua Nashua	Yes Yes No Yes	\$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23	\$ 6 \$ 7 \$ - \$ 1,364	Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR. Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - complete.
Taylor Street Shakespeare HP System Exp City of Nashua Paving - Mill St. City of Nashua Paving - Ferryalls Ct City of Nashua Paving - Salvail Ct	Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC. Abandon 1.5" Steel water main and switch customers over to parrallel 8" water main. Replace 35 ft of 1" copper water main crossing Canal St with a 4" DIPCL Water Main. Replace 1.5" Steel water main and install a 4" DIPCL Water Main (contaminated area).	1906988 1901942 1915006 1908316 1908317	0.1 DSRR 0.1 DSRR 0.1 DSRR DW17-183	26,101	2/2/2018	\$ - \$ - \$ -	\$ 20,209 \$ 233 \$ 257 \$ 17,900 \$ 58,580 \$ 95,000	No No No No No Yes	\$ 233 \$ 257 \$ 17,321 \$ 51,988 \$ 79,258	Nashua Nashua Nashua Nashua Nashua Nashua	Yes Yes No Yes Yes	\$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23	\$ 6 \$ 7 \$ - \$ 1,364 \$ 2,079	Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR. Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - complete. Includes final paving - complete
Taylor Street Shakespeare HP System Exp City of Nashua Paving - Mill St. City of Nashua Paving - Ferryalls Ct City of Nashua Paving - Salvail Ct City of Nashua Paving - Nutt St - Final Paving and restoration	Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC. Abandon 1.5" Steel water main and switch customers over to parrallel 8" water main. Replace 35 fr of 1" copper water main crossing Canal St with a 4" DIPCL Water Main. Replace 1.5" Steel water main and install a 4" DIPCL Water Main (contaminated area). Pavement restoration and final landscaping	1906988 1901942 1915006 1908316 1908317 1702842, 1907682	0.1 DSRR 0.1 DSRR 0.1 DSRR 0.1 DSRR DW17-183 DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ - \$ - \$ - \$ - \$ - \$ -	\$ 20,209 \$ 233 \$ 257 \$ 17,900 \$ 58,580 \$ 95,000 \$ 13,000	No No No No Ves Yes	\$ 233 \$ 257 \$ 17,321 \$ 51,988 \$ 79,258 \$ 6,549	Nashua Nashua Nashua Nashua Nashua Nashua Nashua	Yes Yes No Yes Yes Yes	\$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23	\$ 6 \$ 7 \$ - \$ 1,364 \$ 2,079 \$ 172	Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR. Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - complete. Includes final paving - complete \$6,240 of this will be recovered from Liberty Gas.
Taylor Street Shakespeare HP System Exp City of Nashua Paving - Mill St. City of Nashua Paving - Ferryalls Ct City of Nashua Paving - Salvail Ct City of Nashua Paving - Nutt St - Final Paving and restoration City of Nashua Paving - Cheshire St - Final Cleanup	Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC. Abandon 1.5" Steel water main and switch customers over to parrallel 8" water main. Replace 35 ft of 1" copper water main crossing Canal St with a 4" DIPCL Water Main. Replace 1.5" Steel water main and install a 4" DIPCL Water Main (contaminated area). Pavement restoration and final landscaping Fence repair and site clean up	1906988 1901942 1915006 1908316 1908317 1702842, 1907682 1908353	0.1 DSRR 0.1 DSRR 0.1 DSRR 0.1 DSRR DW17-183 DW17-183 DW17-183	26,101 26,101 26,101	2/2/2018 2/2/2018 2/2/2018	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 20,209 \$ 233 \$ 257 \$ 17,900 \$ 58,580 \$ 95,000 \$ 13,000 \$ 1,400	No No No No Yes Yes Yes	\$ 233 \$ 257 \$ 17,321 \$ 51,988 \$ 79,258 \$ 6,549 \$ 486	Nashua Nashua Nashua Nashua Nashua Nashua Nashua Nashua	Yes Yes No Yes Yes Yes Yes Yes Yes	\$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23	\$ 6 \$ 7 \$ - \$ 1,364 \$ 2,079 \$ 172 \$ 13	Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR. Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - complete. Includes final paving - complete \$6,240 of this will be recovered from Liberty Gas. Completion of 2018 Workorder Project
Taylor Street Shakespeare HP System Exp Gity of Nashua Paving - Mill St. Gity of Nashua Paving - Ferryalls Ct Gity of Nashua Paving - Salvail Ct City of Nashua Paving - Sulvail Ct City of Nashua Paving - Nutt St - Final Paving and restoration	Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC. Abandon 1.5" Steel water main and switch customers over to parallel 8" water main. Replace 35 ft of 1" copper water main crossing Canal St with a 4" DIPCL Water Main. Replace 1.5" Steel water main and install a 4" DIPCL Water Main (contaminated area). Pavement restoration and final landscaping Fence repair and site clean up Abandon pump station pit and clean up intersection pipe work for improved flows.	1906988 1901942 1915006 1908316 1908317 1702842, 1907682	0.1 DSRR 0.1 DSRR 0.1 DSRR 0.1 DSRR DW17-183 DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ - \$ - \$ - \$ - \$ - \$ -	\$ 20,209 \$ 233 \$ 257 \$ 17,900 \$ 58,580 \$ 95,000 \$ 13,000 \$ 1,400 \$ 215,100	No No No No No Yes Yes Yes Yes Yes	\$ 233 \$ 257 \$ 17,321 \$ 51,988 \$ 79,258 \$ 6,549 \$ 486 \$ 174,754	Nashua	Yes Yes No Yes Yes Yes Yes Yes Yes	\$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23	\$ 6 \$ 7 \$ - \$ 1,364 \$ 2,079 \$ 172 \$ 13 \$ 4,584	Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR. Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - complete. Includes final paving - complete \$6,240 of this will be recovered from Liberty Gas. Completion of 2018 Workorder Project Includes base paving - Finished paving required in 2020 not included.
Taylor Street Shakespeare HP System Exp Gity of Nashua Paving - Mill St. Gity of Nashua Paving - Ferryalls Ct Gity of Nashua Paving - Salvail Ct Gity of Nashua Paving - Salvail Ct Gity of Nashua Paving - Nutt St - Final Paving and restoration Gity of Nashua Paving - Cheshire St - Final Cleanup Gity of Nashua - Simon St at Will St Upgrade Gity of Nashua Paving - Main St.	Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC. Abandon 1.5" Steel water main and switch customers over to parrallel 8" water main. Replace 35 fr of 1" copper water main crossing Canal St with a 4" DIPCL Water Main. Replace 1.5" Steel water main and install a 4" DIPCL Water Main (contaminated area). Pavement restoration and final landscaping Fence repair and site clean up Abandon pump station pit and clean up intersection pipe work for improved flows. Main St final paving at intersection with Factory St. Carry over from 2018.	1906988 1901942 1915006 1908316 1908317 1702842, 1907682 1908353 1915974 1900348, 1915859	0.1 DSRR 0.1 DSRR 0.1 DSRR DW17-183 DW17-183 DW17-183 DW17-183	26,101 26,101 26,101 26,101 26,101	2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018	\$ - \$ - \$ - \$ - \$ - \$ 5	\$ 20,209 \$ 233 \$ 257 \$ 17,900 \$ 58,580 \$ 95,000 \$ 13,000 \$ 1,400 \$ 215,100 \$ 24,500	No No No No Yes Yes Yes Yes Yes Yes Yes	\$ 233 \$ 257 \$ 17,321 \$ 51,988 \$ 79,258 \$ 6,549 \$ 486 \$ 174,754 \$ 1,402	Nashua	Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes	\$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23	\$ 6 \$ 7 \$ - \$ 1,364 \$ 2,079 \$ 172 \$ 13 \$ 4,584 \$ 37	Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR. Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - complete. Includes final paving - complete \$6,240 of this will be recovered from Liberty Gas. Completion of 2018 Workorder Project Includes base paving - Finished paving required in 2020 not included. Final paving bill for this project.
Taylor Street Shakespeare HP System Exp City of Nashua Paving - Mill St. City of Nashua Paving - Ferryalls Ct City of Nashua Paving - Salvail Ct City of Nashua Paving - Nutt St - Final Paving and restoration City of Nashua Paving - Cheshire St - Final Cleanup City of Nashua - Simon St at Will St Upgrade	Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC. Abandon 1.5" Steel water main and switch customers over to parallel 8" water main. Replace 35 ft of 1" copper water main crossing Canal St with a 4" DIPCL Water Main. Replace 1.5" Steel water main and install a 4" DIPCL Water Main (contaminated area). Pavement restoration and final landscaping Fence repair and site clean up Abandon pump station pit and clean up intersection pipe work for improved flows.	1906988 1901942 1915006 1908316 1908317 1702842, 1907682 1908353 1915974	0.1 DSRR 0.1 DSRR 0.1 DSRR DW17-183 DW17-183 DW17-183 DW17-183 DW17-183	26,101 26,101 26,101 26,101	2/2/2018 2/2/2018 2/2/2018 2/2/2018	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 20,209 \$ 233 \$ 253 \$ 17,900 \$ 58,580 \$ 95,000 \$ 13,000 \$ 1,400 \$ 215,100 \$ 24,500 \$ 24,850	No No No No No No No Yes Yes	\$ 233 \$ 257 \$ 17,321 \$ 51,988 \$ 79,258 \$ 6,549 \$ 486 \$ 174,754	Nashua	Yes Yes No Yes Yes Yes Yes Yes Yes	\$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23 \$ 26.23	\$ 6 \$ 7 \$ - \$ 1,364 \$ 2,079 \$ 172 \$ 13 \$ 4,584 \$ 37 \$ 480	Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR. Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - complete. Includes final paving - complete \$6,240 of this will be recovered from Liberty Gas. Completion of 2018 Workorder Project Includes base paving - Finished paving required in 2020 not included.
Taylor Street Shakespeare HP System Exp City of Nashua Paving - Mill St. City of Nashua Paving - Ferryalls Ct City of Nashua Paving - Salvail Ct City of Nashua Paving - Nutt St - Final Paving and restoration City of Nashua Paving - Cheshire St - Final Cleanup City of Nashua - Simon St at Will St Upgrade City of Nashua Paving - Main St. City of Nashua Paving - Lemon St - Carry over from 2017	Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC. Abandon 1.5" Steel water main and switch customers over to parrallel 8" water main. Replace 35 ft of 1" copper water main crossing Canal St with a 4" DIPCL Water Main. Replace 1.5" Steel water main and install a 4" DIPCL Water Main (contaminated area). Pavement restoration and final landscaping Fence repair and site clean up Abandon pump station pit and clean up intersection pipe work for improved flows. Main St final paving at intersection with Factory St. Carry over from 2018. Paving only - Carry over from 2017.	1906988 1901942 1915006 1908316 1908317 1702842, 1907682 1908353 1915974 1900348, 1915859 1702875, 1915858	0.1 DSRR 0.1 DSRR 0.1 DSRR 0.1 DSRR DW17-183 DW17-183 DW17-183 DW17-183 DW17-183 DW17-183	26,101 26,101 26,101 26,101 26,101 26,101	2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018	\$ - \$ - \$ - \$ - \$ - \$ - \$ 5 -	\$ 20,209 \$ 233 \$ 257 \$ 17,900 \$ 58,580 \$ 95,000 \$ 13,000 \$ 1,400 \$ 215,100 \$ 24,500 \$ 24,550 \$ 37,000	No No No No No No Yes	\$ 233 \$ 257 \$ 17,321 \$ 51,988 \$ 79,258 \$ 6,549 \$ 486 \$ 174,754 \$ 1,402 \$ 18,316	Nashua	Yes Yes No Yes	\$ 26.23 \$ 26.23	\$ 6 \$ 7 \$ - \$ 1,364 \$ 2,079 \$ 172 \$ 13 \$ 4,584 \$ 37 \$ 480 \$ 973	Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR. Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - completes. Includes final paving - complete \$6,240 of this will be recovered from Liberty Gas. Completion of 2018 Workorder Project Includes base paving - Finished paving required in 2020 not included. Final paving bill for this project. Final paving bill for this project.
Taylor Street Shakespeare HP System Exp City of Nashua Paving - Mill St. City of Nashua Paving - Ferryalls Ct City of Nashua Paving - Salvail Ct City of Nashua Paving - Nutt St - Final Paving and restoration City of Nashua Paving - Cheshire St - Final Cleanup City of Nashua Paving - Salvail St Upgrade City of Nashua Paving - Main St. City of Nashua Paving - Lemon St - Carry over from 2017 City of Nashua Paving - Lowell St - Carry over from 2017 City of Nashua Paving - Green St - Carry over from 2017 City of Nashua Paving - Green St - Carry over from 2017 City of Nashua Paving - Green St - Carry over from 2017 City of Nashua Paving - Beard St - Carry over from 2017	Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC. Abandon 1.5" Steel water main and switch customers over to parallel 8" water main. Replace 35 ft of 1" copper water main crossing Canal St with a 4" DIPCL Water Main. Replace 1.5" Steel water main and install a 4" DIPCL Water Main (contaminated area). Pavement restoration and final landscaping Fence repair and site clean up Abandon pump station pit and clean up intersection pipe work for improved flows. Main St final paving at intersection with Factory St. Carry over from 2018. Paving only - Carry over from 2017. Paving only - Carry over from 2017.	1906988 1901942 1915006 1908316 1908317 1702842, 1907682 1908353 1915974 1900348, 1915859 1702875, 1915858 1915857	0.1 DSRR 0.1 DSRR 0.1 DSRR DW17-183 DW17-183 DW17-183 DW17-183 DW17-183 DW17-183	26,101 26,101 26,101 26,101 26,101 26,101 26,101	2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 20,209 \$ 233 \$ 257 \$ 17,900 \$ 58,580 \$ 95,000 \$ 13,000 \$ 1,400 \$ 215,100 \$ 24,500 \$ 24,500 \$ 37,000 \$ 10,000	No	\$ 233 \$ 257 \$ 17,321 \$ 51,988 \$ 79,258 \$ 6,549 \$ 486 \$ 174,754 \$ 11,402 \$ 18,316 \$ 37,084	Nashua	Yes Yes No Yes	\$ 26.23 \$ 26.23	\$ 6 \$ 7 \$ - \$ 1,364 \$ 2,079 \$ 172 \$ 13 \$ 4,584 \$ 37 \$ 480 \$ 973 \$ 234 \$ 569	Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR. Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - complete. Includes final paving - complete \$6,240 of this will be recovered from Liberty Gas. Completion of 2018 Workorder Project Includes base paving - Finished paving required in 2020 not included. Final paving bill for this project.
Taylor Street Shakespeare HP System Exp City of Nashua Paving - Mill St. City of Nashua Paving - Ferryalls Ct City of Nashua Paving - Salvail Ct City of Nashua Paving - Salvail Ct City of Nashua Paving - Nutt St - Final Paving and restoration City of Nashua Paving - Cheshire St - Final Cleanup City of Nashua - Simon St at Will St Upgrade City of Nashua - Simon St at Will St Upgrade City of Nashua Paving - Main St. City of Nashua Paving - Lemon St - Carry over from 2017 City of Nashua Paving - Green St - Carry over from 2017 City of Nashua Paving - Green St - Carry over from 2017 City of Nashua Paving - Green St - Carry over from 2017 City of Nashua Paving - Green St - Carry over from 2017 City of Nashua Paving - Terrace St - Carry over from 2017	Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC. Abandon 1.5" Steel water main and switch customers over to parallel 8" water main. Replace 35 ft of 1" copper water main crossing Canal St with a 4" DIPCL Water Main. Replace 1.5" Steel water main and install a 4" DIPCL Water Main (contaminated area). Pavement restoration and final landscaping Fence repair and site clean up Abandon pump station pit and clean up intersection pipe work for improved flows. Main St final paving at intersection with Factory St. Carry over from 2018. Paving only - Carry over from 2017. Paving only - Carry over from 2018.	1906988 1901942 1915006 1908316 1908317 1702842, 1907682 1908353 1915974 1900348, 1915859 1702875, 1915858 1915844 1915845 1915845	0.1 DSRR 0.1 DSRR 0.1 DSRR 0.1 DSRR 0.1 DSRR DW17-183	26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101	2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 20,209 \$ 233 \$ 257 \$ 17,900 \$ 58,580 \$ 95,000 \$ 13,000 \$ 1,400 \$ 215,100 \$ 24,500 \$ 24,850 \$ 37,000 \$ 10,000 \$ 25,900 \$ 25,900	No No No No No No No No	\$ 233 \$ 257 \$ 17,321 \$ 51,988 \$ 79,258 \$ 6,549 \$ 486 \$ 174,754 \$ 1,402 \$ 18,316 \$ 37,084 \$ 8,906 \$ 21,689 \$ 10,600	Nashua	Yes Yes No Yes	\$ 26.23 \$ 26.23	\$ 6 \$ 7 \$ - \$ 1,364 \$ 2,079 \$ 172 \$ 13 \$ 4,584 \$ 37 \$ 480 \$ 973 \$ 234 \$ 569 \$ 278	Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR. Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - complete. Includes final paving - complete \$6,240 of this will be recovered from Liberty Gas. Completion of 2018 Workorder Project Includes base paving - Finished paving required in 2020 not included. Final paving bill for this project.
Taylor Street Shakespeare HP System Exp City of Nashua Paving - Mill St. City of Nashua Paving - Ferryalls Ct City of Nashua Paving - Salvail Ct City of Nashua Paving - Salvail Ct City of Nashua Paving - Nutt St - Final Paving and restoration City of Nashua Paving - Cheshire St - Final Cleanup City of Nashua Paving - Cheshire St - Final Cleanup City of Nashua Paving - Min St. City of Nashua Paving - Lemon St - Carry over from 2017 City of Nashua Paving - Lowell St - Carry over from 2017 City of Nashua Paving - Green St - Carry over from 2017 City of Nashua Paving - Green St - Carry over from 2017 City of Nashua Paving - Beard St - Carry over from 2017	Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC. Abandon 1.5" Steel water main and switch customers over to parrallel 8" water main. Replace 35 ft of 1" copper water main crossing Canal St with a 4" DIPCL Water Main. Replace 1.5" Steel water main and install a 4" DIPCL Water Main (contaminated area). Pavement restoration and final landscaping Fence repair and site clean up Abandon pump station pit and clean up intersection pipe work for improved flows. Main St final paving at intersection with Factory St. Carry over from 2018. Paving only - Carry over from 2017.	1906988 1901942 1915006 1908316 1908317 1702842, 1907682 1908353 1915974 1900348, 1915859 1702875, 1915858 1915844 1915845 1915845 1915845	0.1 DSRR 0.1 DSRR 0.1 DSRR DW17-183	26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101	2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018	\$ - \$ - \$ - \$ - \$ - \$ - \$ 5 - \$ - \$ 5 - \$	\$ 20,209 \$ 233 \$ 257 \$ 17,900 \$ 58,580 \$ 95,000 \$ 13,000 \$ 1,400 \$ 215,100 \$ 24,500 \$ 24,850 \$ 37,000 \$ 10,000 \$ 25,900 \$ 25,900	No No No No No No No No	\$ 233 \$ 257 \$ 17,321 \$ 51,988 \$ 79,258 \$ 6,549 \$ 486 \$ 174,754 \$ 1,402 \$ 18,316 \$ 37,084 \$ 8,906 \$ 21,689	Nashua	Yes Yes No Yes	\$ 26.23 \$ 26.23	\$ 6 \$ 7 \$ - \$ 1,364 \$ 2,079 \$ 172 \$ 13 \$ 4,584 \$ 37 \$ 480 \$ 973 \$ 234 \$ 569 \$ 278	Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR. Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - complete. Includes final paving - complete \$6,240 of this will be recovered from Liberty Gas. Completion of 2018 Workorder Project Includes base paving - Finished paving required in 2020 not included. Final paving bill for this project.
Taylor Street Shakespeare HP System Exp City of Nashua Paving - Mill St. City of Nashua Paving - Ferryalls Ct City of Nashua Paving - Salvail Ct City of Nashua Paving - Salvail Ct City of Nashua Paving - Nutt St - Final Paving and restoration City of Nashua Paving - Cheshire St - Final Cleanup City of Nashua - Simon St at Will St Upgrade City of Nashua - Simon St at Will St Upgrade City of Nashua Paving - Main St. City of Nashua Paving - Lemon St - Carry over from 2017 City of Nashua Paving - Green St - Carry over from 2017 City of Nashua Paving - Green St - Carry over from 2017 City of Nashua Paving - Green St - Carry over from 2017 City of Nashua Paving - Green St - Carry over from 2017 City of Nashua Paving - Terrace St - Carry over from 2017	Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC. Abandon 1.5" Steel water main and switch customers over to parallel 8" water main. Replace 35 ft of 1" copper water main crossing Canal St with a 4" DIPCL Water Main. Replace 1.5" Steel water main and install a 4" DIPCL Water Main (contaminated area). Pavement restoration and final landscaping Fence repair and site clean up Abandon pump station pit and clean up intersection pipe work for improved flows. Main St final paving at intersection with Factory St. Carry over from 2018. Paving only - Carry over from 2017. Paving only - Carry over from 2018.	1906988 1901942 1915006 1908316 1908317 1702842, 1907682 1908353 1915974 1900348, 1915859 1702875, 1915858 1915844 1915845 1915845	0.1 DSRR 0.1 DSRR 0.1 DSRR 0.1 DSRR 0.1 DSRR DW17-183	26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101	2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 20,209 \$ 233 \$ 257 \$ 17,900 \$ 58,580 \$ 95,000 \$ 13,000 \$ 1,400 \$ 215,100 \$ 24,850 \$ 37,000 \$ 10,000 \$ 25,900 \$ 19,500	No	\$ 233 \$ 257 \$ 17,321 \$ 51,988 \$ 79,258 \$ 6,549 \$ 486 \$ 174,754 \$ 1,402 \$ 18,316 \$ 37,084 \$ 8,906 \$ 21,689 \$ 10,600	Nashua	Yes Yes No Yes	\$ 26.23 \$ 26.23	\$ 6 \$ 7 \$	Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR. Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - complete. Includes final paving - complete \$6,240 of this will be recovered from Liberty Gas. Completion of 2018 Workorder Project Includes base paving - Finished paving required in 2020 not included. Final paving bill for this project.
Taylor Street Shakespeare HP System Exp City of Nashua Paving - Mill St. City of Nashua Paving - Ferryalls Ct City of Nashua Paving - Salvail Ct City of Nashua Paving - Nutt St - Final Paving and restoration City of Nashua Paving - Nutt St - Final Paving and restoration City of Nashua Paving - Nutl St - Final Cleanup City of Nashua Paving - Cheshire St - Final Cleanup City of Nashua Paving - Main St. City of Nashua Paving - Lowell St - Carry over from 2017 City of Nashua Paving - Lowell St - Carry over from 2017 City of Nashua Paving - Teren St - Carry over from 2017 City of Nashua Paving - Beard St - Carry over from 2017 City of Nashua Paving - Beard St - Carry over from 2017 City of Nashua Paving - Beard St - Carry over from 2017 City of Nashua Paving - Warren St - Carry over from 2017 City of Nashua Paving - Warren St - Carry over from 2017	Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC. Abandon 1.5" Steel water main and switch customers over to parrallel 8" water main. Replace 35 ft of 1" copper water main crossing Canal St with a 4" DIPCL Water Main. Replace 1.5" Steel water main and install a 4" DIPCL Water Main (contaminated area). Pavement restoration and final landscaping Fence repair and site clean up Abandon pump station pit and clean up intersection pipe work for improved flows. Main St final paving at intersection with Factory St. Carry over from 2018. Paving only - Carry over from 2017. Paving only - Carry over from 2018. Paving only - Carry over from 2017.	1906988 1901942 1915006 1908316 1908317 1702842, 1907682 1908353 1915974 1900348, 1915859 1702875, 1915858 1915844 1915845 1915845 1915845 1702876, 1915842 1502180, 1601369, 1701489, 1807360,	0.1 DSRR 0.1 DSRR 0.1 DSRR DW17-183	26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101	2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 20,209 \$ 233 \$ 257 \$ 17,900 \$ 58,580 \$ 95,000 \$ 13,000 \$ 215,100 \$ 24,500 \$ 24,500 \$ 24,500 \$ 20,500 \$ 10,000 \$ 25,900 \$ 25,900 \$ 25,900	No No No No No No No No	\$ 233 \$ 257 \$ 17,321 \$ 51,988 \$ 6,549 \$ 486 \$ 174,754 \$ 1,402 \$ 18,316 \$ 37,084 \$ 8,906 \$ 21,689 \$ 10,600 \$ 16,762	Nashua	Yes Yes No Yes	\$ 26.23 \$ 26.23	\$ 6 \$ 7 \$ - \$ 1,364 \$ 2,079 \$ 172 \$ 13 \$ 4,584 \$ 37 \$ 480 \$ 973 \$ 569 \$ 234 \$ 569 \$ 244 \$ 3480	Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR. Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - complete. Includes final paving - complete \$6,240 of this will be recovered from Liberty Gas. Completion of 2018 Workorder Project Includes base paving - Finished paving required in 2020 not included. Final paving bill for this project.
Taylor Street Shakespeare HP System Exp Gity of Nashua Paving - Mill St. Gity of Nashua Paving - Ferryalls Ct Gity of Nashua Paving - Salvail Ct Gity of Nashua Paving - Salvail Ct Gity of Nashua Paving - Salvail Ct Gity of Nashua Paving - Nutt St - Final Paving and restoration Gity of Nashua Paving - Cheshire St - Final Cleanup Gity of Nashua Paving - Cheshire St - Will St Upgrade Gity of Nashua Paving - Lamon St - Carry over from 2017 Gity of Nashua Paving - Lowell St - Carry over from 2017 Gity of Nashua Paving - Green St - Carry over from 2017 Gity of Nashua Paving - Beard St - Carry over from 2017 Gity of Nashua Paving - Terrace St - Carry over from 2017 Gity of Nashua Paving - Terrace St - Carry over from 2017 Merrimack River Intake Asset Management Outside GIS Consulting Services Asset Management Water Modeling Consulting	Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC. Abandon 1.5" Steel water main and switch customers over to parallel 8" water main. Replace 3.5 ft of 1" copper water main crossing Canal St with a 4" DIPCL Water Main. Replace 1.5" Steel water main and install a 4" DIPCL Water Main (contaminated area). Pavement restoration and final landscaping Fence repair and site clean up Abandon pump station pit and clean up intersection pipe work for improved flows. Main St final paving at intersection with Factory St. Carry over from 2018. Paving only - Carry over from 2017. Paving only - Carry over from 2018. Paving only - Carry over from 2018. Paving only - Carry over from 2017. Vear Round Raw Water Intake from Merrimack River. Outside GIS Consulting Services Water Modeling Consulting	1906988 1901942 1915006 1908316 1908317 1702842, 1907682 1908353 1915974 1900348, 1915859 1702875, 1915844 1915845 1915845 1915845 1702870, 1915842 1502180, 1601369, 1701489, 1807360, 1901612, 1908505	0.1 DSRR 0.1 DSRR 0.1 DSRR DW17-183	26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101	2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 20,209 \$ 233 \$ 257 \$ 17,900 \$ 58,580 \$ 95,000 \$ 13,000 \$ 14,400 \$ 215,100 \$ 24,500 \$ 24,850 \$ 37,000 \$ 10,000 \$ 25,900 \$ 20,500 \$ 19,500 \$ 36,600,000 \$ 6,600,000 \$ 36,000 \$ 36,000	No No No No No No Yes	\$ 233 \$ 257 \$ 17,321 \$ 51,988 \$ 79,258 \$ 6,549 \$ 486 \$ 174,754 \$ 1,402 \$ 18,316 \$ 37,084 \$ 8,906 \$ 21,689 \$ 10,600 \$ 16,762	Nashua	Yes Yes Yes No Yes	\$ 26.23 \$ 26.23	\$ 6 \$ 7 \$ \$ 1,364 \$ 2,079 \$ 172 \$ 13 \$ 4,584 \$ 37 \$ 480 \$ 973 \$ 234 \$ 569 \$ 278 \$ 440 \$ 234	Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR. Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - complete. Includes final paving - complete \$6,240 of this will be recovered from Liberty Gas. Completion of 2018 Workorder Project Includes base paving - Finished paving required in 2020 not included. Final paving bill for this project.
Taylor Street Shakespeare HP System Exp Gity of Nashua Paving - Mill St. Gity of Nashua Paving - Ferryalls Ct Gity of Nashua Paving - Ferryalls Ct Gity of Nashua Paving - Salvail Ct Gity of Nashua Paving - Nutt St - Final Paving and restoration Gity of Nashua Paving - Nutt St - Final Paving and restoration Gity of Nashua Paving - Cheshire St - Final Cleanup Gity of Nashua Paving - Main St. Gity of Nashua Paving - Main St. Gity of Nashua Paving - Lemon St - Carry over from 2017 Gity of Nashua Paving - Green St - Carry over from 2017 Gity of Nashua Paving - Green St - Carry over from 2017 Gity of Nashua Paving - Green St - Carry over from 2017 Gity of Nashua Paving - Green St - Carry over from 2017 Gity of Nashua Paving - Carrace St - Carry over from 2017 Gity of Nashua Paving - Warren St - Carry over from 2017 Merrimack River Intake Asset Management Outside GIS Consulting Services Asset Management Water Modeling Consulting Asset Management Trimble R2 Units	Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC. Abandon 1.5" Steel water main and switch customers over to parallel 8" water main. Replace 35 ft of 1" copper water main crossing Canal St with a 4" DIPCL Water Main. Replace 1.5" Steel water main and install a 4" DIPCL Water Main (contaminated area). Pavement restoration and final landscaping Fence repair and site clean up Abandon pump station pit and clean up intersection pipe work for improved flows. Main St final paving at intersection with Factory St. Carry over from 2018. Paving only - Carry over from 2017. Paving only - Carry over from 2017. Paving only - Carry over from 2017. Paving only - Carry over from 2018. Paving only - Carry over from 2018. Paving only - Carry over from 2018. Paving only - Carry over from 2017. Vear Round Raw Water Intake from Merrimack River. Outside GIS Consulting Services Water Modeling Consulting Trimble R2 Units	1906988 1901942 1915006 1908316 1908316 1908317 1702842, 1907682 1908353 1915974 1900348, 1915859 1702875, 1915858 1915844 1915845 1915843 1702870, 1915842 1502180, 1601369, 1701489, 1807360, 1901612, 1908505 1900414 1900414	0.1 DSRR 0.1 DSRR 0.1 DSRR DW17-183	26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101 26,101	2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 20,209 \$ 233 \$ 257 \$ 17,900 \$ 58,580 \$ 95,000 \$ 13,000 \$ 215,100 \$ 24,500 \$ 24,500 \$ 10,000 \$ 20,500 \$ 19,500 \$ 36,600,000 \$ 36,600,000 \$ 36,600,000 \$ 36,000 \$ 36,000 \$ 36,000 \$ 14,000	No No No No No No No No	\$ 233 \$ 257 \$ 17,321 \$ 51,988 \$ 79,258 \$ 6,549 \$ 486 \$ 174,754 \$ 1,402 \$ 18,316 \$ 37,084 \$ 21,689 \$ 10,600 \$ 16,762 \$ 6,299,764 \$ 7,961 \$ -7,961 \$ -7,961 \$ -7,961	Nashua Various Various Various	Yes Yes Yes No Yes	\$ 26.23 \$ 27.02 \$ 27.02	\$ 6 \$ 7 \$ - \$ 1,364 \$ 2,079 \$ 172 \$ 13 \$ 4,584 \$ 37 \$ 480 \$ 973 \$ 234 \$ 569 \$ 278 \$ 440 \$ 244 \$ 5 569 \$ 278 \$ 440 \$ 25 569 \$ 278 \$ 440 \$ 25 569 \$ 278 \$ 45 569 \$ 278 \$ 478 \$ 478	Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR. Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - complete. Includes final paving - complete \$6,240 of this will be recovered from Liberty Gas. Completion of 2018 Workorder Project Includes base paving - Finished paving required in 2020 not included. Final paving bill for this project. Final paving till for this pro
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Taylor Street Shakespeare HP System Exp Gity of Nashua Paving - Mill St. Gity of Nashua Paving - Ferryalls Ct Gity of Nashua Paving - Salvail Ct Gity of Nashua Paving - Salvail Ct Gity of Nashua Paving - Salvail Ct Gity of Nashua Paving - Nutt St - Final Paving and restoration Gity of Nashua Paving - Cheshire St - Final Cleanup Gity of Nashua Paving - Cheshire St - Final Cleanup Gity of Nashua Paving - Lamon St - Carry over from 2017 Gity of Nashua Paving - Lowell St - Carry over from 2017 Gity of Nashua Paving - Lowell St - Carry over from 2017 Gity of Nashua Paving - Beard St - Carry over from 2017 Gity of Nashua Paving - Terrace St - Carry over from 2017 Gity of Nashua Paving - Terrace St - Carry over from 2017 Gity of Nashua Paving - Warren St - Carry over from 2017 Merrimack River Intake Asset Management Outside GIS Consulting Services Asset Management Water Modeling Consulting Asset Management Timble R2 Units WAM/Synergen Upgrade Cost & Functionality Study Investment in developer installed services at 1xannual revenue	Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC. Abandon 1.5" Steel water main and switch customers over to parallel 8" water main. Replace 35 ft of 1" copper water main crossing Canal St with a 4" DIPCL Water Main. Replace 1.5" Steel water main and install a 4" DIPCL Water Main (contaminated area). Pavement restoration and final landscaping Fence repair and site clean up Abandon pump station pit and clean up intersection pipe work for improved flows. Main St final paving at intersection with Factory St. Carry over from 2018. Paving only - Carry over from 2017. Paving only - Carry over from 2017. Paving only - Carry over from 2017. Paving only - Carry over from 2018. Paving only - Carry over from 2018. Paving only - Carry over from 2018. Paving only - Carry over from 2017. Vear Round Raw Water Intake from Merrimack River. Outside GIS Consulting Services Water Modeling Consulting Trimble R2 Units WAM/Synergen Upgrade Cost & Functionality Study Per tariff	1906988 1901942 1915006 1908316 1908317 1702842, 1907682 1908353 1915974 1900348, 1915859 1702875, 1915844 1915845 1915845 1915845 1915845 1915846 1915847 1900414 1900414 1900414 1900414	0.1 DSRR 0.1 DSRR 0.1 DSRR DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 20,209 \$ 233 \$ 257 \$ 17,900 \$ 58,580 \$ 95,000 \$ 13,000 \$ 14,000 \$ 24,500 \$ 24,850 \$ 20,500 \$ 20,500 \$ 19,500 \$ 36,600,000 \$ 6,600,000 \$ 6,600,000 \$ 36,000 \$ 14,000 \$ 36,000 \$ 36,000 \$ 36,000 \$ 36,000 \$ 36,000 \$ 36,000 \$ 36,000	No No No No No No No No	\$ 233 \$ 257 \$ 17,321 \$ 51,988 \$ 79,258 \$ 6,549 \$ 486 \$ 174,754 \$ 1,402 \$ 18,316 \$ 37,084 \$ 8,206 \$ 21,689 \$ 10,600 \$ 16,762 \$ 6,299,764	Nashua Various Various Various Various	Yes Yes Yes No Yes	\$ 26.23 \$ 27.02 \$ 27.02 \$ 27.02 \$ 27.02 \$ 27.02 \$ 27.02	\$ 6 \$ 7 \$ 7 \$ 1,364 \$ 2,079 \$ 172 \$ 13 \$ 4,584 \$ 37 \$ 480 \$ 973 \$ 234 \$ 569 \$ 278 \$ 181,811	Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Carry over costs from project completed in 2018, pay for with 0.1 DSRR. Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR. Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - complete. Includes final paving - complete \$6,240 of this will be recovered from Laberty Gas. Completion of 2018 Workorder Project Includes base paving - Finished paving required in 2020 not included. Final paving bill for this project. Final paving bill for this pro
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Well Pump replacements	Well Pump replacements	60, 61, 62 & 63 workorders	DW17-183	26,101	2/2/2018	\$ 15,000	\$ 15,00	00 Yes	\$ 16,995 Vari	ious Y	es \$	27.02 \$	4 replaced through 12/31/2019.
Chemical Feed pump replacements	Chemical Feed pump replacements	60, 61, 62 & 63 workorders	DW17-183	26,101	2/2/2018	\$ 10,000	\$ 10,00	00 Yes	\$ - Vari	ious Y	es \$	27.02 \$	- No replacements occurred during 2019.
Upgrade SCADA historian software, new hardware	Upgrade SCADA historian software, new hardware	n/a	DW17-183	26,101	2/2/2018	\$ 150,000	\$ 150,00		S - Vari		es \$		 Scope of project was more clearly defined resulting in a reduction in cost.
Twin Ridge rebuild softener system, install radon treatment.	Twin Ridge rebuild softener system, install radon treatment.	1907731	DW17-183	26,101	2/2/2018	\$ 50,000	\$ 50,00	00 Yes	\$ 11,112 Plais		es \$	25.93 \$	288 Project scope was limited to MTM media replacement.
Misc. Structural Improvements	Misc. Structural Improvements	n/a	DW17-183	26,101	2/2/2018	\$ 20,000	\$ 10,70	00 Yes	S - Vari		es \$	27.02 \$	- Reduced by replacement of failed Fire Alarm CPU.
Misc. Structural Improvements	Replace Fire Alarm System CPU.	1907102, 1910221	DW17-183	26,101	2/2/2018	S -	\$ 9,30	00 Yes	\$ 9,251 Nasi	shua Y	es \$		243 Fire Alarm CPU failed due to electrical surge.
Misc. Structural Improvements	Replace Natural Gas Heater, High Pine Station.	1917491	DW17-183	26,101	2/2/2018	1		Yes	\$ 4,050 Nasi		es \$		106 Failed heater. Part of run rate Misc Structural Improvements.
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased	n/a	DW17-183	26,101	2/2/2018	\$ 17,500	\$ 9,92		S - Vari			27.02 \$	
Miscellaneous Equipment Purchased	Purchase 2 Gas Monitors for WS Confined Space Program.	1907611	DW17-183	26,101	2/2/2018	S -	\$ 4.56		\$ 4.568 Nasl	shua Y	es \$	26.23 S	120 Routine Miscellaneous Equipment purchase
Miscellaneous Equipment Purchased	Purchase Entry Tripod and Winch for WS Confined Space Program.	1910296	DW17-183	26,101	2/2/2018	S -	\$ 3,00		1,5		es \$	26.23 \$	79 Routine Miscellaneous Equipment purchase
Miscellaneous Equipment Purchased	Replace Chlorine Analyzer Twin Ridge	1915362	DW17-183	26,101	2/2/2018	S -	s -	Yes	\$ 4449 Nasi		es \$	26.23 S	117 Routine Miscellaneous Equipment purchase
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	n/a	DW17-183	26,101	2/2/2018	\$ 30,000	\$ 30.00	00 Yes	\$ - Vari	ious Y	es \$	27.02 \$	- And the second
Miscellaneous SCADA/Electrical	Replace VFD, Pump #1 Bowers Landing	1916547	DW17-183	26,101	2/2/2018	\$ -	\$ -	Yes	\$ 2,118 Vari		es \$		57
WTP Structural/HVAC	WTP Structural/HVAC	n/a	DW17-183	26,101	2/2/2018	\$ 10,000	\$ 10.00	_	S - Nasi		es \$	26.23 \$	
WTP Structural/HVAC	Replace Heat Exchanger, WTP Office	1917470	DW17-183	26,101	2/2/2018	g 10,000	e 10,00		\$ 8,328 Nasl		es \$		218 WTP Structural/HVAC project
Purchase new lab equipment	Purchase new lab equipment	n/a	DW17-183	26,101	2/2/2018	\$ 20,000	\$ 18.50		\$ - Nasl		es \$		- Reduced by purchase of HACH DR 900 below
Purchase new lab equipment Purchase new lab equipment	HACH DR 900	1908450	DW17-183	26,101	2/2/2018	\$ 20,000 e	\$ 15,50		\$ 1 435 Nasi		es \$	26.23 \$	- Reduced by purchase of FIACH DR 900 below
Miscellaneous Fencing and Security projects		n/a	DW17-183	26,101	2/2/2018	\$ 10,000	\$ 1,50		\$ 1,455 Nasi		es \$	27.02 \$	30
Miscellaneous Fencing and Security projects Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects WTP Perimeter Fence Carryover	1901608	DW17-183	26,101	2/2/2018	\$ 10,000	ş 10,00		\$ - Vari		es \$	27.02 \$	182
71 -		1918314	DW17-183	26,101	2/2/2018	3 -	<u>.</u>	Yes	\$ 0,744 Vari		40 4	26.23 \$	
Purchase new vehicle for Water Supply Electrician.	Purchase of a new vehicle for the Water Supply Electrician.	1918314	DW17-183	26,101	2/2/2018	9 -	э - e	Yes Yes	\$ 28,897 Nasi \$ 1,713 Nasi	iidii 1		26.23 \$	Unbudgeted. Made necessary due to the premature retirement of 2 dept. vehicles. Department of 2 dept. vehicles.
Replace Ferric Chloride Feed pump.	Replace Ferric Chloride Feed pump.	1901013	DW1/-183	20,101	2/2/2016	5 -	, -	res	\$ 1,/13 Nasi	snua Y	es \$	26.23	45 Pump rebuild was determined to be best course.
Carbon media changeout-filters 1 & 2.	Carbon media changeout-filters 1 & 2	1901614 & 1916780	DW17-183	26,101	2/2/2018	\$ 1,000,000	\$ 1,050,00)0 Yes	\$ 990,662 Nasi	shua Y	es \$	26.23 \$	New PFAS regulations require that all filter media be changed out to ensure compliance with the new PFOA standard which is slated to go into effect on October 1, 2019. Filter media replacement being staged over 6 month intervals. 8 of 12 filters to be replaced in 2019, remaining four filters to be replaced in Spring 2020.
Add 3rd pump at Main Dunstable Booster, replace 1 existing.	Add 3rd pump at Main Dunstable Booster, replace 1 existing.	n/a	DW17-183	26,101	2/2/2018	\$ 120,000	S -	Yes	S - Nasi	shua Y	es \$	26.23 \$	 Addition of 3rd pump deferred or elminated until future date subject to performance of rebuilt 2nd pump.
Rebuild Main Dunstable pump #1	Rebuild Pump #1, Main Dunstable, Nashua	1901615	DW17-183	26,101	2/2/2018	S -	S -	Yes	\$ 15,995 Nasl		es \$	26.23 \$	420
Replace Kessler Farm booster pump package.	Replace 20 year old package booster station pumps and piping. Piping is steel which is beginning to pit.	n/a	DW17-183	26,101	2/2/2018	\$ 75,000	\$ 75,00	00 Yes	S - Nasi			26.23 \$	- Project deferred until 2020
Stump Pond Subwatershed assessment	Stump Pond Subwatershed assessment	n/a	0.1 DSRR			\$ 25,000	\$ 25.00		S - Merri	imack N	lo S	28.86 \$	- Study - Pay for with 0.1 DSRR
Stump Pond Stormwater BMP	Stump Pond Stormwater BMP	1908373	0.1 DSRR			\$ 20,000	\$ 20,00		-		lo \$	28.86 \$	- Study - Pay for with 0.1 DSRR
Public Education -Watershed signage	Public Education -Watershed signage	n/a	0.1 DSRR			\$ 20,000	\$ 20,00		, , , , , , , , , , , , , , , , , , , ,		lo \$	28.86 \$	- Study - Pay for with 0.1 DSRR
Replace 2 Hach Turbidimeters and associated control module	Replace 2 Hach Turbidimeters and associated control module.	1901618	DW17-183	26,101	2/2/2018	\$ 10,000	\$ 10,00				es \$		209
Camera System Upgrade	Carryover Costs from 2018 Project.	1819073, 1900413	0.1 DSRR	20,101	2/2/2010	\$ -	\$ 7,50				es \$	26.23 \$	256 Carry over costs from project completed in 2018, pay for with 0.1 DSRR.
Dredging Feasibility Study	Carryover Costs from 2018 study.	1807145, 1901939	0.1 DSRR			9	\$ 24.60	_			lo S	28.86 \$	- Study - Pay for with 0.1 DSRR
Source Water Protection Study	Carryover Costs from 2018 study. Carryover Costs from 2018 study.	1901740	0.1 DSRR			\$ -	\$ 12.00	-10			lo \$	28.86 \$	- Study - Pay for with 0.1 DSRR - Study - Pay for with 0.1 DSRR
Aquatic Vegetation Assessment	Carryover Costs from 2018 study. Carryover Costs from 2018 study.	1807147, 1906080	0.1 DSRR			9 -	\$ 4.20		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		lo S	28.86 \$	- Study - Pay for with 0.1 DSRR
Aquatic vegetation Assessment		1007147, 1200000	0.1 D3KK			, -			,		0 3		- Study - Pay for with O.1 DSKK
Fiber Conduit between WTP and Dist	Install Fiber Conduit between Water Treatment Plant and Distribution to eliminate ongoing Comeast Ethernet line to one of the buildings.	1901619	DW17-183	26,101	2/2/2018	\$ 40,000	\$ 40,00		\$ 22,896 Nasi			26.23	601
Munis FER Enhancements	Munis FER Enhancements	n/a	DW17-183	26,101	2/2/2018	\$ 35,000	\$ 35,00		\$ - Merri			28.86 \$	No upgrades enhancements will be completed in 2019.
Wireless Access Points for Main Office	Wireless Access Points for Main Office	n/a	DW17-183	26,101	2/2/2018	\$ 14,000	\$ -	Yes	\$ - Merri	imack N	lo \$	28.86 \$	- Monies moved to Veeam Backup Project.
KVM for Data Center	Keyboard Video Mouse for Data Center so that multiple servers can be accessed by one console without having to move the Monitor/Keyboards/ Mouse connections each time.	n/a	DW17-183	26,101	2/2/2018	\$ 2,500	ş -	Yes	\$ - Merri	imack N	lo \$	28.86 \$	-
IOS Charging Station	Charging Station for multiple iPads to allow for upgrades across multiple devices concurrently.	n/a	DW17-183	26,101	2/2/2018	\$ 1,200	\$ -	Yes	\$ - Merri	imack N	lo \$	28.86 \$	-
Digital Signage for Distribution	Digital Signage for Distribution allowing notices and schedules to be more prominently displayed.	1908376	0.1 DSRR	26,101	2/2/2018	\$ 2,000	\$ 1,27	70 No	\$ - Merri	imack N	lo s	28.86 \$	
VINI Diles	A pilot to determine whether a Virtual Desktop Infrastructure would be feasible for our environment.	n/a	DW17-183	26,101	2/2/2018	\$ 12,000	e	Yes	S - Merri	imack N		28.86 \$	
VDI Pilot			DW17-183	26,101	2/2/2010		e 20.00	- 40				=0.00	-
Misc Hardware	Misc Hardware	n/a		20,101	2/2/2018	\$ 20,000	\$ 20,00				lo \$	20.00	-
Misc Hardware	Mount in Vehicles	1908308	0.1 DSRR				\$ -	No			lo \$	20.00	-
Misc Hardware	2 iPad Pros for IS Testing	1908309	0.1 DSRR	26 101	2/2/2010		3 -	No	\$ 2,298 Merri		lo \$	28.86 \$	-
Misc Software	Misc Software	n/a	DW17-183	26,101	2/2/2018	\$ 12,000	\$ 12,00		\$ - Merri		lo \$	28.86 \$	-
Website upgrades	Website upgrades	n/a	DW17-183	26,101	2/2/2018	\$ 8,000	\$ 8,00		\$ - Merri			28.86 \$	
Implement Customer Balances over the phone	Implement Customer Balances over the phone.	n/a	DW17-183	26,101	2/2/2018	\$ 4,000	\$ 25,50	00 Yes	\$ - Merri	imack N	lo \$	28.86 \$	- Deferred
Click Resource Assistant	Allow for the moving of customer Appointment from an generic resource to a named resource.	1907952	0.1 DSRR			\$ -	\$ 22,82	No No	\$ 22,828 Merrii		3	28.86 \$	-
Database Server License for GIS and other Apps	Purchase Server license for Virtual Environment.	1915920	DW17-183	26,101	2/2/2018	\$ -	\$ -	Yes	\$ 7,305 Merri	imack N	lo \$	28.86 \$	 Previously licensed software was not suitable for Virtual environment.
Veeam Backup Software	Replacement of existing backup software due to exorbitant vendor fees to keep original system running.	1909216	0.1 DSRR			\$ -	\$ 25.55	50 No	\$ 15,530 Merri	imack N	io s	28.86 \$	
New RCO Manager Computer	New RCO Manager Computer	1917001	0.1 DSRR			e	- 20,00	No	\$ 1,797 Merris	imack N	lo e	28.86 \$	- Replace failed desktop computer.
		1915117	0.1 DSRR	26 101	2/2/2018	9			, , , , , , , , , , , , , , , , , , , ,				
	Kessler Farm Tank Design	1915117		,	.,.,	\$ -			\$ 36,355 Nasi		lo \$	20.23	- Engineering for tank to be constructed in 2020.
Kessler Farm Tank Design	Payment of Retainage for projects that were used and useful in 2018.		DW17-183	26,101	2/2/2018 2/2/2018	5 -	\$ -	Yes		imack N		28.86 \$	- Retainage paid in 2019 for 2018 QCPAC projects.
Retainage								Yes		ious N	Io I		
Retainage Short term interest on the PWW Fixed Asset Line of Credit.	Capitalized interest incurred on FALOC draws to fund 2019 Capex from 1/1/2019 thru 4/2/2020		DW17-183	26,101		3 -	· -	- 40		1005			
Retainage Short term interest on the PWW Fixed Asset Line of Credit. Performance Management Platform Implementation & Technical Integration	Capitalized interest incurred on FALOC draws to fund 2019 Capex from 1/1/2019 thru 4/2/2020 Performance Management Platform Implementation & Technical Integration	1916551	DW17-183	26,101	2/3/2018	\$ -	\$ -	Yes	\$ 13,804 Merri	imack N	lo \$	28.86 \$	
Retainage Short term interest on the PWW Fixed Asset Line of Credit.	Capitalized interest incurred on FALOC draws to fund 2019 Capex from 1/1/2019 thru 4/2/2020	1916551 1918363	DW17-183 DW17-183	26,101 26,101	2/3/2018	\$ - \$ - \$ - \$ 14,968,170	\$ - \$ - \$ 16,902,52	Yes Yes	\$ 13,804 Merri	imack N	lo \$	28.86 \$	-

Total Projected PWW QCPAC Capex for 2019 -	\$ 16,832,524	\$ 14,898,170	\$ 15,374,227
Amount funded by DWGTF Merrimack River Intake -	\$ 8,819,800	\$ 8,819,800	\$ 5,359,625
Amount funded by DWGTF Northwest System Improvements -			\$ 2,859,754
Amount to be funded by 2020 Bond Issue -	\$ 8,012,724	\$ 6,078,370	\$ 7,154,848

1. Tax rate is the sum of the local community rate plus the Statewide Utility tax rate of \$6.60/\$1000
2. Projects funded by 0.1 DSRR funds are not QCPAC eligible because the cash to fund these projects is not bonded. Total 2019 Capex to be funded by 0.1 DSRR funds -

Portion of Annual Principal and interest payments for debt associated with plant placed in service between 1/1/2019 and 12/31/2019 based on a
 QCPAC Principal and Interest expenses for DWGTF financing for the North West System improvements are based on a
 QCPAC Principal and Interest expenses for DWGTF financing for the Merrimack River Intake are based on a

12/31/2019
\$ 427,640 The 12/31/2019 0.1 DSRR amount has been increased by to reflect the Staff DR21 response indicating that \$ 21,175 of the project costs being funded with DWGTF is being funded with 0.1 DSRR monies.

30 year bond with an actual total all in interest rate of 4.261869% resulting in annual P&I expenses of 30 year bond with interest rate of 3.380% resulting in annual P&I expenses of resulting in annual P&I ex 427,022 140,376 287,045

									Estimated Project	Estimated Project					QCPAC Eligible	
Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Board Approved 2020 Capex Budget	QCPAC Eligible?	Cost as of 6/30/2020	Cost as of 9/30/2020	Cost as of 11/30/2020	Final Project cost as of 12/31/2020	Community	Taxable	2020 Tax Rate (1)	Property Tax Expense	Explanation for Change/Addition/Deletion from Board Approved 2020 Capex Budget
New Services (10)	Single Family, Owner Build, New Homes	20 workorders	DW17-183	26,101	2/2/2018	\$ 50,000	Yes	\$ 25,000 \$	\$ 25,000	\$ 31,090	\$ 36,746	Various	Yes	\$ 28.45		6 new services through 12/31/20.
Renewed Services (20) Hydrants (10)	Replacement of failed services. Replacement of non-functional hydrants (Run rate) (8 YTD)	workorders 30 & 31 workorders	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 110,000 \$ 60,000	Yes Yes	\$ 60,000 \$ \$ 44,000 \$				Various Various	Yes Yes	\$ 28.45 \$ 28.45		19 Renewed Services Installed through 12/31/2020. 9 Hydrants Repaired/Replaced through 12/31/2020.
Gates (10)	Replacement of Failed Gate Valves	12 & 13 workorders	DW17-183	26,101	2/2/2018	\$ 40,000	Yes	\$ 40,000 \$				Various		\$ 28.45		12 Gates Repaired/Replaced through 12/31/2020.
Radios (560)	Replacement of out of Warrantee Failed Radios (280), New Meters for new customers (280).	54 workorders	DW17-183	26,101	2/2/2018	\$ 58,000	Yes	\$ 40,000 \$				Various	Yes	\$ 28.45		498 Radios Installed/Replaced through 12/31/2020.
Meters (Growth) 5/8"-2" - Core & CWS (280) Meters 5/8"-6" - Replace faled meters - Core & CWS (200)	Meters (Growth) 5/8"-2" - Core & CWS (280) Meters 5/8"-6" failed meters - Core & CWS (200)	50 workorders 50 workorders	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 29,000 \$ 21,000	Yes Yes	\$ 55,300 \$ \$ -	91,000	\$ 96,000	\$ 94,393	Various Various	Yes Yes	\$ 28.45 \$ 28.45	2,686	631 Meters Installed/Replaced through 12/31/2020. Total included in row above.
Replace Mud sucker pump	Replace 15+ year old ditch pump.	2005200	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 6,356 \$	6,356	,	,	Various	Yes	\$ 28.45	181	
Replacement Utility Truck	Replacement for #47 - 2006 Ford f-350, 130K miles Does not pass inspection.	2006391	DW17-183	26,101	2/2/2018	\$ 70,000	Yes	\$ 70,000 \$	70,000		,	Merrimack	No	\$ 28.52	-	
Replacement Utility Truck Replacement Utility Truck	Replacement for #76 - 2008 Ford F-350, 150K miles, Does not pass inspection. Replacement for #4- 2010 Ford F-350, 140K miles Does not pass inspection.	2006390 2006389	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 70,000 \$ 70,000	Yes Yes	\$ 70,000 \$ \$ 70,000 \$	\$ 70,000 \$ 70,000			Merrimack Merrimack	No No	\$ 28.52 \$ 28.52	-	
Valve Turner & Vac Truck	Replacement for #40 - 14 Year Vac Trailer w/excessive rot, will not pass inspection.	n/a	DW17-183	26,101	2/2/2018	\$ 160,000	Yes	\$ - \$	3 -	\$ 7,000	9 00,429	Merrimack	No	\$ 28.52	3 -	Deferred. Not avialable due to impact of COVID19 on manufacturing.
Foreman's Truck	Replacement for #59 - 2011 International, 120K Miles, High Hours, Electrical, body issues.	2004436	DW17-183	26,101	2/2/2018	\$ 140,000	Yes	\$ 140,000 \$	140,000	\$ 140,000	\$ 79,206	Merrimack	No	\$ 28.52	-	Deferred until 2020.
Locker Room Benches @ Distribution Facility	Permanent Benches for Male & Female locker rooms.	n/a	DW17-183	26,101	2/2/2018	\$ 7,500	Yes	\$ 7,500 \$	-	\$ -		Merrimack	Yes	\$ 28.52	-	Defered until 2021 due to COVID19 delays.
Locker Room Deep Wash Sinks	Deep stainless wash sinks to replace existing sinks in male & female locker rooms. Permanent office space for Contruction & Maintenance Supervisor.	n/a n/a	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 7,500 \$ 12,000	Yes Yes	\$ 7,500 \$ \$ 12,000 \$	7,500	\$ -		Merrimack Merrimack	Yes Yes	\$ 28.52 \$ 28.52	-	Deferred until 2021 due to COVID19 delays. Deferred until 2020 due to COVID19 delays.
Office Space for Const & Maint Supervisor Landscape improvements	Repair Hill Sides @ 16 DWH and overseed with erosion mix.	2008276	DW17-183	26,101	2/2/2018	\$ 12,000	Yes	\$ 12,000 \$ \$ 12,000 \$	12,000	\$ 12,550	\$ 15,350	Merrimack		\$ 28.52 \$ 28.52	438	
Automatic Entrance Gate @ Distribution Facility	Replace manual gate @ Distribution facility with automatic gate.	2000718		0.1 DSRR		\$ 10,000	No	\$ 10,000 \$	10,000	\$ -	\$ 3,083	Merrimack	Yes	\$ 28.52	88	Work delayed on long range gate reader until 2021, due to COVID19.
Emergency Gas Detection Meters	Emergency Gas Detection Meters	2006033	DW17-183	26,101	2/2/2018	S -	Yes	s - s	10,411			Merrimack	Yes	\$ 28.52	\$ 297	Replace exsisting failed tritector.
Replacement Equipment/Excavator Trailer	Replacement Equipment/Excavator Trailer	2007566 2008268	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	S -	Yes Yes	\$ - \$	-	\$ 19,457 \$ 6,994		Merrimack Merrimack	No No	\$ 28.52 \$ 28.52	-	
Buyout Lease of HP T2530PS Large Format Printer (OPS) West Hollis Street Check Valve Pit	Buyout Lease of HP T2530PS Large Format Printer (OPS). Install at the intersection of W. Hollis St and Panther Dr.	2008268 n/a	DW17-183	26,101	2/2/2018	\$ 88,000	Yes	\$ - \$ \$ - \$	s -	\$ 6,994	\$ 4,995	Merrimack Nashua		\$ 28.52 \$ 27.13	- 3 -	Deferred
NWS Improvements - Manchester Street	Install 1700 LF of 24 inch DI and new Fencing.	2000383		DWGTF		\$ 125,000	Yes	\$ 140,000 \$	140,000	\$ 86,000	\$ 85,059	Nashua		\$ 27.13	2,308	
NWS Improvements - Deerwood Dr. Northwest Blvd Loop	Add 3400 LF of 20 inch HDPE including RR pipe jacking.	2000386		DWGTF DWGTF		\$ 40,000	Yes	\$ 25,000 \$	25,000		,	Nashua	Yes	\$ 27.13	531	
NWS Improvements Veteran's Rd/Route 101A Loop NWS Improvements Tinker Road Paving and restoration	Add 2200 LF of 12 inch DIPCL to close two loop major dead ends. NWS Improvements Tinker Road Paving and restoration.	2000384 2000385		DWGTF		\$ 125,000 \$ 125,000	Yes Yes	\$ 125,000 \$ \$ 32,000 \$	\$ 125,000 \$ 32,000			Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13	3,407 3,404	
Simon & Will Street - Paving	Simon & Will Street - Paving	2000387	DW17-183	26,101	2/2/2018	\$ 30,000	Yes	\$ 30,000 \$		\$ -		Nashua	Yes	\$ 27.13	-	Deferred
Garden Street - Final Paving City of Nashua Sewer - Lake Street	Garden Street - Final Paving Replace 2950 LF of 6 inch CI with 12 inch DIPCL (Paving).	2000388 2000378	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 18,000 \$ 30,000	Yes Yes	\$ 18,000 \$ \$ 30,000 \$	\$ 18,000 \$ 30,000		\$ 10.589	Nashua Nashua	Yes	\$ 27.13 \$ 27.13	S - 287	Deferred
	1		DWGTF Financing	i			103		· · · · · · · · · · · · · · · · · · ·		,			9 27.13	207	
Merrimack River Intake	Year Round Raw Water Intake from Merrimack River	2000380	DW19-026	26,247	5/3/2019	\$ 140,375	Yes	\$ 192,109 \$	\$ 192,109	\$ 192,109	\$ 140,375	Merrimack	Yes	\$ 28.52	4,003	
Merrimack River Intake	Year Round Raw Water Intake from Merrimack River	2000380	DW17-183	26,101	2/2/2018	\$ 221,625	Yes	\$ 247,891 \$	260,000	\$ 260,000	\$ 253,590	Merrimack	Yes	\$ 28.52	7,232	Project cost increased by \$80,000 to develop Source Water Protection plan required by NHDES.
Replace Kessler Farm booster pump package	Replace 31 year old package booster station pumps and piping.	2000389	DW17-183	26,101	2/2/2018	\$ 75,000	Yes	\$ 178,000 \$	200,600	\$ 188,000	\$ 190,901	Nashua	Yes	\$ 27.13	5 179	Budget to be increased as a portion of site work for the Kessler Farm Tank was transferred to this project. Winning project bid was higher than engineer's estimate.
Risk and Resilience Assessment and Emergency Response Plan	Complete Risk and Resilience Assessment and Emergency Response Plan as required by the	2002053	DW17-183	26,101	2/2/2018	\$ 120,000	Yes	\$ 120,000 \$	120,000	\$ 120,000	\$ 117,274	Various	No	\$ 28.45	2,172	
	USEPA.	1900414, 2000362		26,101	2/2/2018					·	· ·				5 - 5 1610	
Asset Management - GIS QA/QC ahead of NEW CMMS Brook Street (Lake St Area PH2)	GIS QA/QC Ahead of NEW CMMS Replace 225 LF of 4 inch and 915 LF of 6 inch CI with 1140 LF of 8 inch DIPCL.	1502511, 2003423	DW17-183 DW17-183	26,101	2/2/2018	\$ 40,000 \$ 380,000	Yes Yes	\$ 40,000 \$ \$ 274,000 \$	\$ 40,000 \$ 209,000			Merrimack Nashua	Yes Yes	\$ 28.52 \$ 27.13		Restoration work slated for 2021 was completed in 2020.
Hamilton Street (Lake St Area PH2)	Replace 410 LF of 6 inch CI with 4 inch DIPCL.	1502512, 2003422	DW17-183	26,101	2/2/2018	\$ 87,000	Yes	\$ 63,000 \$	142,000			Nashua	Yes	\$ 27.13	3,420	
Burritt Street (Lake St Area PH2) Burritt Street (Lake St Area PH2)	Replace 425 LF of 4 inch CI with 8 inch DIPCL. Replace 125 LF of 4 inch CI with 4 inch DIPCL.	1502513, 2003420 n/a	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 141,000 \$ 38,000	Yes	\$ 95,000 \$ \$ 27,000 \$			\$ 134,733	Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13	3,655	Included in row above.
Verona Street (Lake St Area PH2)	Replace 675 LF of 6 inch CI with 8 inch DIPCL.	2007542	DW17-183	26,101	2/2/2018	\$ 226,000	Yes	\$ 162,000 \$	173,900	7	\$ 182,847	Nashua	Yes	\$ 27.13	4,961	Required the use of temporary main that was not initially part of the design.
Sarasota Ave (Lake St Area PH2)	Replace 250 LF of 6 inch CI with 8 inch DIPCL.	n/a	DW17-183	26,101	2/2/2018	\$ 83,000	Yes	\$ 62,000 \$	118,100	\$ 70,000		Nashua	Yes	\$ 27.13	-	
Amherst Dodge Rd Watermain Abandonment	Abandon Approx. 700 LF of AC Main, Transfer 2 services & 1 Hyd to parallel 8" DIPCL water main.	2001229	DW17-183	26,101	2/2/2018	\$ 20,000	Yes	\$ 71,000 \$	105,750	\$ 146,000	\$ 149,710	Amherst	No	\$ 32.93	-	Scope of job expanded to replace multiple broken or leaking valves discovered during the shutdown process.
Kessler Farm Tank Replacement	Poplaced 4 MC agisted steel water tank with 4 MC agestrossed agrees water tank	2000379		0.1 DSRR	•	\$ 3,388,000	No	\$ 60,000 \$	60,000	\$ 60,000	\$ 65,161	Nashua	No			Design only. Construction deferred until 2021.
Resider Faith Faith Replacement	Replaced 4 MG painted steel water tank with 4 MG prestressed, precast water tank.								00,000		· ·			\$ 27.13	-	Design only. Constitution deteried until 2021.
Replace Engineering Pickup Replace Engineering SUV #34	2020 Ford Escape SE - Replace Vehicle #101 2020 Ford Escape SE - Replace Vehicle #401	2006652 2006755	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 35,000 \$ 30,000	Yes Yes	\$ 35,000 \$ \$ 30,000 \$	\$ 24,431 \$ 23,474			Merrimack Merrimack	No No	\$ 28.52 \$ 28.52	<u>-</u>	
Investment in developer installed services at 1xannual revenue	Per tariff	n/a	DW17-183	26,101	2/2/2018	\$ 60,000	Yes	\$ 84,000 \$	62.000			Various	Yes	\$ 28.45	2.265	136 Developer Installed Services through 12/31/2020.
Asset Management Trimble R2 Units	Add two new GPS units for additional staff.	2003535	DW17-183	26,101	2/2/2018	\$ 24,000	Yes	\$ 24,000 \$,	,	,	Merrimack		\$ 28.52		
																Added Pump Station roof hatches and roofing to facilitate pump replacement in the future. Bid price received for new pump was
Merrimack River Pumping Station	Add third 350 horsepower pump and motor with variable frequency drive.	2003759	DW17-183	26,101	2/2/2018	\$ 260,000	Yes	\$ 360,000 \$	600,000	\$ 600,000	\$ 485,114	Merrimack	Yes			higher than anticipated. Added Electrical system upgrades for code and redundency. There will be an additional \$140,000 of
C 10 10 11 D	Dealers 250 FE of Airch Cloud Of FE of 4.1/4 inch Clouds 450 FE of 4!! DVC		DW/47 492	26 101	2/2/2019		Voc		22.00	20,000		N. I		\$ 28.52	- ,	expenditures to complete this project in 2021.
Crescent Street (sewer related) Crescent Street (paving contribution)	Replace 250 LF of 4 inch CI and 96 LF of 1 1/4 inch CL with 150 LF of 4" PVC. Replace 250 LF of 4 inch CI and 96 LF of 1 1/4 inch CL with 150 LF of 4" PVC.	2001230	DW17-183 DW17-183	26,101 26.101	2/2/2018 2/2/2018	\$ -	Yes	\$ 44,700 \$ \$ 8,000 \$	33,600 15,000	\$ 39,000 \$ 15,000	-	Nashua	Yes Yes	\$ 27.13 \$ 27.13	1,484	Added due to Kessler Farm Tank deferral to 2021. Added due to Kessler Farm Tank deferral to 2021.
School Street	Replace 400 LF of 4 inch CI with 680lf of 6 inch DIPCL (creates a looped system).	2003533	DW17-183	26,101	2/2/2018	s -	Yes	\$ 244,000 \$	166,850	,		Nashua	Yes	\$ 27.13	7,345	Added due to Kessler Farm Tank deferral to 2021. Added due to Kessler Farm Tank deferral to 2021, restoration work that was planned for 2021 was completed in 2020.
Fulton Street(Lake St Area PH2)	Replace 180 LF of 2" CL with 4" DIPCL - addition to Lake St Ph 2 project.	2007556	DW17-183	26,101	2/2/2018	S -	Yes	\$ 40,000 \$	93,950	\$ 92,900	\$ 80,801	Nashua	Yes	\$ 27.13		Added due to Kessler Farm Tank deferral to 2021.
Manatee St (Lake St Area PH2)	Replace 240 LF of 6 inch CI with 8" DIPCL - addition to Lake St Ph 2 project.	2007543	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 55,000 \$				Nashua		\$ 27.13		Added due to Kessler Farm Tank deferral to 2021.
Ash St (Lake St Area PH2)	Replace 480 LF of 6 inch CI with 8 and 6 inche DIPCL - added to Lake StPh 2.	2007540 2007557	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ -	Yes	\$ 102,000 \$				Nashua	103	\$ 27.13		Added due to Kessler Farm Tank deferral to 2021.
Fields Grove Crossing (Lake St Area PH2) Pine St (Lake St Area PH2) Manatee and Sarasota intersection work	Cross City park with 16" HDPE direction bore - 890 LF- added to Lake St Ph 2. Cut in tees for manatee and sarasota.	2007541	DW17-183	26,101	2/2/2018	\$ -	Yes Yes	\$ 60,000 \$	60,000	\$ 20,000 \$ 31,500		Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13		Added due to Kessler Farm Tank deferral to 2021. Intersection work associated with Sarasota and Manatee projects.
Ingalls St - complete in 2020	Emergency water main replacement - 175' of Galv (1921) replaced with 4" PVC.	2007544	DW17-183	26,101	2/2/2018	s -	Yes	\$ 38,000 \$	§ 45,300			Nashua		\$ 27.13		Added due to Kessler Farm Tank deferral to 2021.
Walnut St - water main (added to crescent/school st project)	Paving related to water main replacement - replace 56' of 12" CI and 230' of 8" CI (1925-	2006558	DW17-183	26,101	2/2/2018			\$ 70,000 \$	120,600			Nashua				
Walnut St (paving contribution)	unlined) with 286' of 12" DIP. Paving Contribution for paving in 2021.		DW17-183	26,101	2/2/2018	\$ -	Yes Yes	\$ 20,000 \$		\$ -	,	Nashua	Yes Yes	\$ 27.13 \$ 27.13		Added due to Kessler Farm Tank deferral to 2021, \$\$ from paving contribution in row 67 added in. Added due to Kessler Farm Tank deferral to 2021, \$\$ in row 66.
		****							450000	g 440,000				\$ 27.13	-	Added due to Kessler Farm Tank deferral to 2021, \$\$ in row oo. Added due to Kessler Farm Tank deferral to 2021. The majority of this project will be occurring in 2021 due to later than
Coburn Woods (all side streets)	Replace 4400 LF of 2 inch PVC with 4 inch DIPCL.	2002685	DW17-183	26,101	2/2/2018	5 -	Yes	\$ 900,000 \$				Nashua	Yes	\$ 27.13	-	expected bid opening.
Pennichuck Brook Ponds Aerial Survey	Pennichuck Brook Ponds Aerial Survey Upgrade SCADA historian software, new hardware.	2006039 2000376	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ -	Yes	\$ - \$	21,700			Nashua	No	\$ 27.13	- 4.405	Drouight response. Survey of exposed bottow of Harris and Bowers Pond.
Upgrade SCADA historian software, new hardware	Upgrade SCADA historian software, new hardware.		DW17-183		2/2/2016	\$ 65,000	Yes	\$ 65,000 \$	65,000	\$ 65,000	\$ 54,749	Nashua	Yes	\$ 27.13	1,485	
Bowers Dam LOD response engineeriing	Bowers Dam LOD response engineering	1901734, 1907078, 2000373		0.1 DSRR		\$ 10,000	No	s 10,000 S	10,000	\$ 10,000	s 6.761	Nashua/Merrimack	No	\$ 27.83		Bowers Dam LOD response engineering
Harris LOD response engineering	Harris LOD response engineering	1907076, 2000375		0.1 DSRR		\$ 20,000	No	\$ 20,000 \$				Nashua/Merrimack	No	\$ 27.83	-	Deferred
Supply Pond LOD response engineering	Supply Pond LOD response engineering	1907077, 2000374		0.1 DSRR		\$ 32,000	No	\$ 32,000 \$	32,000	\$ 32,000	\$ 15,788	Nashua/Merrimack	No	\$ 27.83	-	Deferred
Rebuild Pump 1, Northwest, Nashua	Final costs for reinstallation and alignment.	1619402, 1701898, 1918550, 2000438	DW17-183	26,101	2/2/2018	\$ 5,000	Yes	\$ 53,457 \$	3,457	\$ 3,457	\$ 53,457	Nashua	Yes	\$ 27.13	1.450	Previous Year work was instrumental in the completion of the rebuild of NW Pump #1, remaining \$50,000 for the rebuild of NWS Pump #2. See row 94 below.
			DW17-183	26,101	2/2/2018	\$ 3,000	Yes	\$ 3,000 \$	3,000	\$ 3,000	\$ 2,360	Nashua	No	\$ 27.13	3 -	1 W 31 dinp #2. Sec 10w 54 below.
	Final costs for fit up of new truck purchased in 2019.	2000437				ĺ				,						During 2020, PWW used 47,341 MSDC gallons beyond what had been purchased. 3,450 of the MSDC gallons were purchased
New Vehicle for WS electrician	Final costs for fit up of new truck purchased in 2019.	2000437					Yes	s - s	-	\$ 166,346	\$ 166,347	Various	No	\$ 28.45		During 2020, P. W. dised 47,341 MSDC ganons beyond what had been purchased. 5,450 of the MSDC ganons were purchased
	Final costs for fit up of new truck purchased in 2019. MSDC payment for MSDC gallons beyond that currently purchased.	2000437	DW17-183	26,101	2/2/2018	\$ -	1 08	,								with cash collected via MSDC tariff. The remaining 43,891 gallons were used by existing customers.
New Vehicle for WS electrician		2009023	DW17-183	26,101		S -	ies	•							-	with cash collected via MSDC tariff. The remaining 43,891 gallons were used by existing customers.
New Vehicle for WS electrician MSDC payment to MWW	MSDC payment for MSDC gallons beyond that currently purchased.	2009023	DW17-183	26,101 26,101	2/2/2018	\$ - \$ 40,000		\$ 40,000 S	35,000	\$ 25,000	\$ 33,239	Various	Yes	\$ 28.45	946	
New Vehicle for WS electrician		2009023				\$ - \$ 40,000 \$ -	Yes Yes	\$ 40,000 \$	\$ 35,000	\$ 25,000 \$ 6,000		Various Bedford	Yes Yes		\$ 946 \$ 131	9 Booster Pumps Repaired/Replaced through 11/30/2020. 1 additional rebuilds projected by end of year.
New Vehicle for WS electrician MSDC payment to MWW Booster Pump replacement/rebuild	MSDC payment for MSDC gallons beyond that currently purchased. Booster Pump replacement/rebuild	2009023 60, 61, 62 & 63 workorders 2008275 2007216	DW17-183	26,101	2/2/2018	\$ 40,000 \$ - \$ -	Yes	\$ 40,000 \$ \$ - \$	\$ 35,000 \$ 12,644	\$ 6,000	\$ 5,319			\$ 28.45		9 Booster Pumps Repaired/Replaced through 11/30/2020. 1 additional rebuilds projected by end of year.
New Vehicle for WS electrician MSDC payment to MWW Booster Pump replacement/rebuild Booster Pump replacement/rebuild	MSDC payment for MSDC gallons beyond that currently purchased. Booster Pump replacement/rebuild Replace Booster #1, Donald Street	2009023 60, 61, 62 & 63 workorders 2008275 2007216 60, 61, 62 & 63	DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 40,000 \$ - \$ - \$ 15,000	Yes Yes	\$ 40,000 \$ \$ - \$ \$ 10,000 \$		\$ 6,000	\$ 5,319 \$ 12,644	Bedford	Yes	\$ 28.45 \$ 24.62	131	9 Booster Pumps Repaired/Replaced through 11/30/2020. 1 additional rebuilds projected by end of year.
New Vehicle for WS electrician MSDC payment to MWW Booster Pump replacement/rebuild Booster Pump replacement/rebuild Booster Pump replacement/rebuild	MSDC payment for MSDC gallons beyond that currently purchased. Booster Pump replacement/rebuild Replace Booster #1, Donald Street WTP Intermediate pump #2 electric motor rebuild	2009023 60, 61, 62 & 63 workorders 2008275 2007216 60, 61, 62 & 63 workorders	DW17-183 DW17-183 DW17-183 DW17-183	26,101 26,101 26,101 26,101	2/2/2018 2/2/2018 2/2/2018 2/2/2018	\$ - \$ -	Yes Yes Yes	\$ - \$		\$ 6,000 \$ 12,644	\$ 5,319 \$ 12,644	Bedford Nashua	Yes Yes	\$ 28.45 \$ 24.62 \$ 27.13 \$ 28.45	131	9 Booster Pumps Repaired/Replaced through 11/30/2020. 1 additional rebuilds projected by end of year.
New Vehicle for WS electrician MSDC payment to MWW Booster Pump replacement/rebuild Booster Pump replacement/rebuild Booster Pump replacement/rebuild	MSDC payment for MSDC gallons beyond that currently purchased. Booster Pump replacement/rebuild Replace Booster #1, Donald Street WTP Intermediate pump #2 electric motor rebuild	2009023 60, 61, 62 & 63 workorders 2008275 2007216 60, 61, 62 & 63	DW17-183 DW17-183 DW17-183	26,101 26,101 26,101	2/2/2018 2/2/2018 2/2/2018	\$ - \$ -	Yes Yes Yes	\$ - \$ \$ 10,000 \$	\$ 12,644 \$ -	\$ 6,000 \$ 12,644 \$ 5,025	\$ 5,319 \$ 12,644 \$ 15,160	Bedford Nashua	Yes Yes	\$ 28.45 \$ 24.62 \$ 27.13	3 131 3 343 3 431	9 Booster Pumps Repaired/Replaced through 11/30/2020. 1 additional rebuilds projected by end of year.
New Vehicle for WS electrician MSDC payment to MWW Booster Pump replacement/rebuild Booster Pump replacement/rebuild Booster Pump replacement/rebuild Well Pump replacements	MSDC payment for MSDC gallons beyond that currently purchased. Booster Pump replacement/rebuild Replace Booster #1, Donald Street WTP Intermediate pump #2 electric motor rebuild Well Pump replacements	2009023 60, 61, 62 & 63 workorders 2008275 2007216 60, 61, 62 & 63 workorders 60, 61, 62 & 63	DW17-183 DW17-183 DW17-183 DW17-183	26,101 26,101 26,101 26,101	2/2/2018 2/2/2018 2/2/2018 2/2/2018	\$ - \$ - \$ 15,000	Yes Yes Yes Yes	\$ - \$ \$ 10,000 \$	\$ 12,644 \$ -	\$ 6,000 \$ 12,644 \$ 5,025 \$ 4,939	\$ 5,319 \$ 12,644 \$ 15,160 \$ 4,939	Bedford Nashua Various	Yes Yes Yes	\$ 28.45 \$ 24.62 \$ 27.13 \$ 28.45	3 131 3 343 3 431	9 Booster Pumps Repaired/Replaced through 11/30/2020. 1 additional rebuilds projected by end of year. 2 well pumps repaired/replaced through 12/31/20.
New Vehicle for WS electrician MSDC payment to MWW Booster Pump replacement/rebuild Booster Pump replacement/rebuild Booster Pump replacement/rebuild Well Pump replacements Chemical Feed pump replacements Chemical Feed pump replacements Harris Dam raise earthen embankment, raise dike wall	MSDC payment for MSDC gallons beyond that currently purchased. Booster Pump replacement/rebuild Replace Booster #1, Donald Street WTP Intermediate pump #2 electric motor rebuild Well Pump replacements Chemical Feed pump replacements Rebuild Ferric Feed Pumps 2 & 3 Harris Dam raise earthen embankment, raise dike wall.	2009023 60, 61, 62 & 63 workorders 2008275 2007216 60, 61, 62 & 63 workorders 60, 61, 62 & 63 workorders 2002269 n/a	DW17-183 DW17-183 DW17-183 DW17-183 DW17-183 DW17-183	26,101 26,101 26,101 26,101 26,101 26,101 26,101	2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018	\$ - \$ 15,000 \$ 10,000 \$ - \$ 965,000	Yes Yes Yes Yes Yes Yes Yes Yes Yes	\$ - \$ \$ 10,000 \$ \$ \$ 6,757 \$ \$ 3,243 \$ \$ - \$	5 12,644 5 - 5 3,500 6 3,243	\$ 6,000 \$ 12,644 \$ 5,025 \$ 4,939	\$ 5,319 \$ 12,644 \$ 15,160 \$ 4,939	Bedford Nashua Various Various Various Nashua/Merrimack	Yes Yes Yes Yes Yes Yes Yes Yes	\$ 28.45 \$ 24.62 \$ 27.13 \$ 28.45 \$ 28.45 \$ 28.45 \$ 27.83	3 131 3 343 3 431	9 Booster Pumps Repaired/Replaced through 11/30/2020. 1 additional rebuilds projected by end of year. 2 well pumps repaired/replaced through 12/31/20.
New Vehicle for WS electrician MSDC payment to MWW Booster Pump replacement/rebuild Booster Pump replacement/rebuild Booster Pump replacement/rebuild Well Pump replacements Chemical Feed pump replacements Chemical Feed pump replacements	MSDC payment for MSDC gallons beyond that currently purchased. Booster Pump replacement/rebuild Replace Booster #1, Donald Street WTP Intermediate pump #2 electric motor rebuild Well Pump replacements Chemical Feed pump replacements Rebuild Ferric Feed Pumps 2 & 3	2009023 60, 61, 62 & 63 workorders 2008275 2007216 60, 61, 62 & 63 workorders 60, 61, 62 & 63 workorders 2002269	DW17-183 DW17-183 DW17-183 DW17-183 DW17-183	26,101 26,101 26,101 26,101 26,101 26,101	2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018	\$ - \$ - \$ 15,000 \$ 10,000 \$ -	Yes Yes Yes Yes Yes	\$ - \$ \$ 10,000 \$	5 12,644 5 - 5 3,500 6 3,243	\$ 6,000 \$ 12,644 \$ 5,025 \$ 4,939 \$ 3,243 \$ - \$ -	\$ 5,319 \$ 12,644 \$ 15,160 \$ 4,939 \$ 3,541	Bedford Nashua Various Various Various	Yes Yes Yes Yes Yes Yes	\$ 28.45 \$ 24.62 \$ 27.13 \$ 28.45 \$ 28.45 \$ 28.45	3 131 3 343 3 431	9 Booster Pumps Repaired/Replaced through 11/30/2020. 1 additional rebuilds projected by end of year. 2 well pumps repaired/replaced through 12/31/20. 3 Chemical Pumps Repaired/Replaced through 12/31/2020. Deferred until 2021, Engineering services in 2020, See Row 72.

Project Name/Description	D C	W. 1.C	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Board Approved	QCPAC Eligible?	Estimated Project Cost as of 6/30/2020	Estimated Project Cost as of 9/30/2020	Estimated Project Cost as of 11/30/2020	Final Project cost as of 12/31/2020 Community	Taxable	2020 Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion from Board Approved 2020 Capex Budget
	Project Description	Work Order #				2020 Capex Buuget		0/30/2020	7/ 30/ 2020		,				
Misc. Structural Improvements	Replace Maple Haven Pump Station Rood.	2008269	DW17-183	26,101 26.101	2/2/2018 2/2/2018	e 47.500	Yes	5 - \$	- 0.455	\$ 4,235		Yes	\$ 29.06	\$ 150 e	
Miscellaneous Equipment Purchased Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased Replace Sewage Ejection Pump, Snow Station	n/a 2003515	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 17,500 \$ -	Yes Yes	\$ 8,437 \$ \$ 3,300 \$	8,473 3,300		Nashua \$ 3,287 Nashua	Yes Yes	\$ 27.13 \$ 27.13	\$ - \$ 89	
Miscellaneous Equipment Purchased	WTP Replace Filter-to-Waste Valve	1918552	DW17-183	26,101	2/2/2018	s -	Yes	\$ 2,353 \$	2,353			Yes	\$ 27.13	07	This was in 2019 budget, but did not go useful until 2020.
Miscellaneous Equipment Purchased	Replace Sludge Pump #2, WTP.	2004525	DW17-183	26,101	2/2/2018	s -	Yes	\$ 3,410 \$					\$ 28.52	\$ 97	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	n/a	DW17-183	26,101	2/2/2018	\$ 30,000	Yes	\$ 8,500 \$	8,500	\$ -	Various	Yes	\$ 28.52	s -	
Miscellaneous SCADA/Electrical	Replace VFD, Pump #3 - High Pines Booster	2003512	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 9,500 \$	9,500			Yes	\$ 27.13	\$ 258	
Miscellaneous SCADA/Electrical Miscellaneous SCADA/Electrical	Install cellular SCADA device, HI and LO, Derry. SCADA control system, Powder Hill, Donald St.	2004180 2004989	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ -	Yes Yes	\$ 2,500 \$ \$ 9,500 \$	2,500 9,500			Yes Yes	\$ 27.02 \$ 27.02	\$ 64	Deferred
Miscellaneous SCADA/Electrical	Replace Intermediate Pump 3, VFD at WTP.	2004989	DW17-183	26,101	2/2/2018	s -	Yes	\$ 9,500 \$	9,500	\$ 9,500 \$ 5,500		Yes	\$ 27.02 \$ 27.13	*	Deferred
Rebuild NWS booster pump #2	Rebuild NWS booster pump #2.	2003436	DW17-183	26,101	2/2/2018	\$ 40,000	Yes	s - s	50,000	,		Yes	\$ 27.13	\$ 1,179	Peterra
WTP Structural/HVAC	WTP Structural/HVAC	n/a	DW17-183	26,101	2/2/2018	\$ 10,000	Yes	\$ 10,000 \$	10,000	\$ -	Nashua	Yes	\$ 27.13	ş -	
Purchase new lab equipment	Purchase new lab equipment.	n/a	DW17-183	26,101	2/2/2018	\$ 20,000	Yes	\$ 20,000 \$	20,000	\$ 5,000		Yes	\$ 27.13	\$ -	
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	n/a	DW17-183	26,101	2/2/2018	\$ 10,000	Yes	\$ 10,000 \$	-	\$ -	Various	Yes	\$ 27.13	\$ -	
Replace Vehicle 200 Replace Vehicle 201	Replace Vehicle 200 Replace Vehicle 201	2007616 2004137	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 40,000 \$ 55,000	Yes Yes	\$ 40,000 \$ \$ 55,000 \$	35,000 55,000			No	\$ 27.13 \$ 27.13	\$ -	
Replace Vehicle 63	Replace Vehicle 63	2004137 n/a	DW17-183	26,101	2/2/2018	\$ 55,000	Yes	\$ 55,000 \$ \$ 40,000 \$	55,000	\$ 55,000	\$ 53,062 Nashua Nashua	No No	\$ 27.13 \$ 27.13	5 - s	Deferred
Repair/Replace Soffit and Fascia, Boat House Bldg.	Repair/Replace Soffit and Fascia, Boat House Bldg.	n/a	DW17-183	26,101	2/2/2018	\$ 30,000	Yes	\$ 30,000 \$	· · ·	\$ -	Nashua	Yes	\$ 27.13	s -	No contractors available. Deferred until 2021.
Carbon media changeout-filters 5 & 6	Carbon media changeout-filters 5 & 6.	2003490	DW17-183	26,101	2/2/2018	\$ 500,000	Yes	\$ 500,000 \$	450,000	\$ 450,000	\$ 495,331 Nashua	Yes	\$ 27.13	\$ 13,438	
Install new Day Fuel Tank, Controller and related equip., FWPS Generator	Install new Day Fuel Tank, Controller and related equip., FWPS Generator.	n/a	DW17-183	26,101	2/2/2018	\$ 75,000	Yes	\$ 75,000 \$		\$ -	Nashua	Yes	\$ 27.13		Deferred until 2021. Project scope being evluated under new code.
SCADA PLC Replacements	SCADA PLC Replacements	n/a	DW17-183	26,101	2/2/2018	\$ 75,000	Yes	\$ 75,000 \$	-	\$ -	Nashua	Yes	\$ 27.13		Deferred until 2021.
Replace 2 Hach Turbidimeters and associated control module	Replace 2 Hach Turbidimeters and associated control module. Rebuild Magineete Birgs groups #2	2007545 2008305	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 10,000	Yes	\$ 10,000 \$	18,000			Yes	\$ 27.13	\$ 459 \$ 2.687	Changed from 2 to 4 units.
Rebuild Merrimack River pump #2 Supply Pond Dam Modifications per NHDES LOD	Rebuild Merrimack River pump #2. Engineering, Permitting, Design Services	2008305	DW1/-183	26,101 0.1 DSRR	2/2/2010	ş -	Yes No	s - \$	-	\$ 93,100 \$ 69,000		Yes No	\$ 28.86 \$ 27.55	ş 2,687 \$	Engineering Design Work only
Harris Dam Raise Earthen Embankment, Dike wall	Engineering, Permitting, Design Services	2008270		0.1 DSRR		s -	No.	s - s	<u> </u>	\$ 90,000	Merrimack/Nashua	No	\$ 27.55	s -	Engineering Design Work only
Munis FER Enhancements	Munis FER Enhancements	n/a	DW17-183	26,101	2/2/2018	\$ 35,000	Yes	\$ 35,000 \$	35,000	\$ 35,000		No	\$ 28.52	\$ -	
Misc Hardware	Misc Hardware	n/a	DW17-183	26,101	2/2/2018	\$ 20,000	Yes	\$ 6,945 \$	· -	\$ 1,500	Merrimack	No	\$ 28.52	\$ -	
Misc Hardware	Laptop Purchase for Regulatory Department - JK	2001987	DW17-183	26,101	2/2/2018	S -	Yes	\$ 1,660 \$				No	\$ 28.52	S -	Purchase to accommodate work from home created by COVID19.
Misc Hardware	Laptop Purchase for Regulatory Department - CAH	2002761	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 1,400 \$	1,400	, ,		No	\$ 28.52	\$ -	Purchase to accommodate work from home created by COVID19.
Misc Hardware	Laptop Purchase for onboarding employees (5)	2002930 2005120	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ -	Yes	\$ 9,995 \$			7,9.10	No No	\$ 28.52	\$ -	Purchase to accommodate work from home created by COVID19.
Misc Hardware Misc Hardware	Laptop Purchase for New Employee C. Harding Spare Laptop Purchase	2005120	DW17-183 DW17-183	26,101	2/2/2018	s -	Yes Yes	s - 5	2,491 1,005			No No	\$ 28.52 \$ 28.52	s -	Purchase to accommodate work from home created by COVID19. Purchase to accommodate work from home created by COVID19.
Misc Hardware	New Laptop for Accounting new hire - Payroll Admin	2006388	DW17-183	26,101	2/2/2018	s -	Yes	s - s	1,160				\$ 28.52	s -	Purchase to accommodate work from home created by COVID19.
Misc Software	Misc Software	n/a	DW17-183	26,101	2/2/2018	\$ 12,000	Yes	\$ 2,880 \$	i -	\$ -	Merrimack	No	\$ 28.52	\$ -	,
Misc Software	Macola Development Environment for testing upgrade.	2002276	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 5,280 \$	5,280	\$ 5,280	\$ 6,400 Merrimack	No	\$ 28.52	\$ -	
Misc Software	Tyler Notify	2003317	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 3,840 \$	3,840			No	\$ 28.52	\$ -	
Misc Software	MSL Server License for Munis Upgrade	2005976	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ - \$	6,350	\$ 6,350		No	\$ 28.52	\$ -	Deferred
Website upgrades	Website upgrades	n/a	DW17-183	26,101	2/2/2018	\$ 8,000	Yes	\$ 8,000 \$	-	\$ -	Merrimack	No	\$ 28.52	\$ -	
Salmon Replacement at WTP	The server at WTP is over 7 years old and should be replaced. I am recommending to replace the server with a VM host for ease of use and reliability.	2003704	DW17-183	26,101	2/2/2018	\$ 15,000	Yes	\$ 15,000 \$	15,000	\$ 15,000	\$ 9,366 Merrimack	No	\$ 28.52	\$ -	
Additional UPS for Distribution Data Center	We are starting to leverage this datacenter more with more equipment. The current UPS is over subscribed and we need to protect everything in there.	2003493	DW17-183	26,101	2/2/2018	\$ 1,600	Yes	\$ 1,600 \$	1,600	\$ 1,600	\$ 2,060 Merrimack	No	\$ 28.52	\$ -	
Meraki Wireless AP's for WTP	The current AP's at WTP are tied into the wireless at HQ. We will be changing to the Maraki solution for HQ so these will need to be replaced.	2003426	DW17-183	26,101	2/2/2018	\$ 3,000	Yes	\$ 3,000 \$	3,000	\$ 3,000	\$ 3,252 Merrimack	No	\$ 28.52	ş -	
Storage Replacement for PS6110 Array	Nimble addon shelf – 33tb usable	2003425	DW17-183	26,101	2/2/2018	\$ 57,000	Yes	\$ 30,000 \$	30,000			No	\$ 28.52	s -	
Veeam Backup of O365	Backup documents stored in the cloud within Office 365.	n/a	DW17-183	26,101	2/2/2018	\$ 2,000	Yes	s - s	2,000			No	\$ 28.52	s -	
Client Remote Control Software	5 licenses	n/a	DW17-183	26,101	2/2/2018	\$ 1,300	Yes	5 - \$	1,300	\$ 1,300	Merrimack	No	\$ 28.52	5 -	
CMMS replacment project	Replace Synergen/WAM with newer more cost effective/improved functionality system.	2000368	DW17-183	26,101	2/2/2018	s 600,000	Yes	\$ 600,000 \$	600,000	\$ 450,000	\$ 433.263 Nashua	Yes	\$ 27.13	S 11.754	Project implementation has been slowed due to COVID19. Project \$\$ not used in 2020 will carry over into 2021.
New Building	New Building	2001988		0.1 DSRR		\$ 78,300	No	\$ 140,000 \$	140,000	9 130,000	y 155,265 14651ttt	Yes	\$ 27.13	\$ 16,558	
New Building - Server Room Networking	Routers/Switches/Racks/Patch Panels	2100047		0.1 DSRR		\$ 19,000	No	\$ 12,800 \$	12,800	\$ 12,800	\$ 14,888 Nashua	Yes	\$ 27.13	\$ 404	
New Building - Phone System	Replacement of existing Phone sytem. New system will not work with existing hardware.	2100043		0.1 DSRR		\$ 70,000	No	\$ 60,000 \$	60,000	\$ 60,000	\$ 77,830 Nashua	Yes	\$ 27.13	\$ 2,112	
JAMF - IOS mobile Management	Software configuration support for JAMF product.	2004171	DW17-183	26,101	2/2/2018	\$ 6,000	Yes	\$ 6,000 \$	6,000	\$ 6,000	\$ 5,400 Merrimack	No	\$ 28.52	S -	
Document Management	Software to allow for document tracking and flow management (Accounting).	n/a	DW17-183	26,101	2/2/2018	\$ 8,000	Yes	\$ 5,400 \$	5,400	\$ -	Merrimack	No	\$ 28.52	s -	
Click Software move to MS sql	Move Click Database from Oracle to MS sql in order to retire Oracle after the WAM replacement project is complete.	2003421	DW17-183	26,101	2/2/2018	\$ 45,000	Yes	\$ 19,500 \$	19,500	\$ 19,500	\$ 140,012 Merrimack	No	\$ 28.52	S -	
Lemon Street, Final Restoration	2020 Carryover Costs	2000693	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 1,500 \$	1,500			Yes	\$ 27.13		Not included in approved 2020 Budget.
Lowell Street, Final Restoration	2020 Carryover Costs	2000694	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 2,500 \$	2,500			Yes	\$ 27.13		Not included in approved 2020 Budget.
West Pearl Street, Final Restoration	2020 Carryover Costs Paid out in 2020 on retainage held on 2019 projects.	2000695 N/A	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	5 -	Yes Yes	\$ 12,750 \$	12,750	\$ 12,750 \$ 162,383		Yes Yes	\$ 27.13 \$ 27.13	\$ 346 \$ 4,451	Not included in approved 2020 Budget.
Retainage Retainage	Held on various projects listed above. Will be paid out in 2021.	N/A	DW17-183	26,101	2/2/2018	s -	Yes	s - s	· -	\$ 162,383 \$ (54,805)		Yes	\$ 27.13		
FALOC interest	Interest accrued on PWW FALOC from 5/1/2020 to 4/1/2021.	/	DW17-183	26,101	2/2/2018	s -	Yes	\$ - S	· · ·	\$ 70,000			\$ 28.45		Projected interest accrued on FALOC \$\$ for funding of 2020 Capex projects.
Elm Street, Final Restoration	2020 Carryover Costs	2000696	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 21,750 \$	21,750			1	\$ 27.13	\$ 590	Not included in approved 2020 Budget.
Warren Street, Final Restoration	2020 Carryover Costs	2000697	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 1,500 \$	1,500	\$ 1,500		Yes	\$ 27.13		Not included in approved 2020 Budget.
New Drum Hand Truck	New Drum Hand Truck	2003534	DW17-183	26,101	2/2/2018	S -	Yes				\$ 1,383 Nashua		\$ 27.13		
Replace Sludge Discharge Pump #1	Replace Sludge Discharge Pump #1	2100054	DW17-183	26,101	2/2/2018	\$ -	Yes				\$ 3,522 Nashua	Yes	\$ 27.13	\$ 96	
M-Scopes & Metal Detectors Office Space Planning	M-Scopes & Metal Detectors Office Space Planning	2100055 1806837, 1917427	DW17-183	26,101 0.1 DSRR	2/2/2018	5 -	Yes No	 			\$ 9,910 Nashua \$ 30,045 Nashua		\$ 27.13 \$ 27.13		
Office space Faining	Office Space Framming		ichuck Water Works Pro		l Expenditure Budget -	\$ 9,995.700		\$ 6,957.314 \$	6,502,362	\$ 6,876,855	T COJO TO T T T T T T T T T T T T T T T T T				
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			0.1 DSRR Funded project To	otal - \$	229,300	\$ 344,800	\$	344,800	\$	493,800	\$	849,428
		To	tal Projected PWW QCPAC Capex for 20	20 - \$	9,766,400	\$ 6,612,514	\$	6,157,562	\$	6,383,055	\$	6,101,832
		Total Projected PWW	QCPAC Capex for 2020 funded with Bon	ds - \$	9,211,025	\$ 6,098,405	\$	5,643,453	\$	5,835,446	\$	5,605,797
		Amount funded by	DWGTF Northwest System Improvemer	nts - \$	415,000	\$ 322,000	\$	322,000	\$	355,500	\$	355,660
		Amount fo	unded by DWGTF Merrimack River Inta	ke - \$	140,375	\$ 192,109	\$	192,109	\$	192,109	\$	140,375
		Project An	nual P&I on 2020 QCPAC eligible Projec	ets - \$	564,236	\$ 381,198	\$	354,706	\$	367,530	\$	351,395
timated Bond Terms (Bonds to be sold in April 2021) -	30	Years @	4.056692%	\$	536,347	\$ 355,103	s	328,612	ş	339,791	s	326,419
Merrimack River Intake DWGTF Terms -	30	Years @	3.38%	\$	7,518	\$ 10,289	S	10,289	\$	10,289	S	7,518
Northwest System Improvements DWGTF Terms -	30	Years @	2.704%	\$	20,371	\$ 15,806	S	15,806	\$	17,450	\$	17,458

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

2/11/2021 6/30/2021 Update, Revised 9/1/21 DOE DR 2-3, Revised 9/21/21 DOE TS 2-2 9/30/2021 Update

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		Figure D. J.		D CNILIBLIC	A		Estimate 1 Bustons	Estimated Project			1 -	CPAC Eligible	
Project Name/Description	·	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount	OCPAC Eligible?	Estimated Project Cost as of 6/30/2021	Cost as of 9/30/2021	Community	Taxable	Tax Rate (1)	Property Tax Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing
,	Work Order #	110.				- 0			,		1	Zapense	Emplanation for change, reduction, Detection since Teo 2021 Timing
Foreman Truck	2107517	DWIO 455	0.1 DSRR	2 /2 /2024	\$ 61,000		\$ 61,000	\$ 61,000	Merrimack	No	\$ 28.52 \$	- 2.121	0.27 0
2021 New Services (10)	Routine	DW20-157	26,459	3/2/2021	\$ 50,000	Yes	\$ 80,000	\$ 75,000	Various	Yes	\$ 28.45 \$		9 New Services installed through 09/30/21, projecting 2 more
2021 Renewed Services (20) 2021 Hydrants (15)	Routine	DW20-157 DW20-157	26,459 26,459	3/2/2021	\$ 110,000		\$ 60,000 \$ 60,000	\$ 72,000	Various	Yes	\$ 28.45 \$		14 Renewed Services installed through 09/30/21, projecting 6 more 3 Hydrant installed/repaired through 09/30/21, projecting 4 more
2021 Gates (10)	Routine Routine	DW20-157 DW20-157	26,459	3/2/2021 3/2/2021	\$ 90,000 \$ 40,000	Yes Yes	\$ 60,000 \$ 120,000	\$ 48,000 \$ 120,000	Various Various	Yes Yes	\$ 28.45 \$ \$ 28.45 \$		22 Gates installed/repaired through 09/30/21, projecting 6 more
2021 Radios (4250)	Routine	DW20-157	26,459	3/2/2021	-	+	\$ 11,000	\$ 11,000	Various	Yes	\$ 28.45 \$		100 Radios installed through 09/30/21 projecting 15 more
2021 Radios (4250)	2101626	DW20-157	26,459	3/2/2021	\$ 425,000		\$ 400,000	\$ 190,000	Various	Yes	\$ 28.45 \$		785 Radios installed through 09/30/21 projecting 1000 more
2021 Meters (Growth) 5/8"-2" - Core & CWS (TBD)	Routine	DW20-157	26,459	3/2/2021	\$ 50,000	+	\$ 50,000	\$ 50,000	Various	Yes	\$ 28.45 \$		254 Meters installed through 09/30/21, projecting 80 more
Replacement Utility Truck	2103610	DW20-157	26,459	3/2/2021	\$ 70,000	Yes	\$ 70,000	\$ 70,000	Merrimack	No	\$ 28.52 \$	-	
Replacement Utility Truck	2103609	DW20-157	26,459	3/2/2021	\$ 70,000	Yes	\$ 70,000	\$ 70,000	Merrimack	No	\$ 28.45 \$	-	
Replacement Full Size Pickup	2103612	DW20-157	26,459	3/2/2021	\$ 45,000	Yes	\$ 45,000	\$ 45,000	Merrimack	No	\$ 28.45 \$	-	
Replacement Full Size Pickup	NTD ²	DW20-157	26,459	3/2/2021	\$ 45,000	Yes	\$ -	\$ -	Merrimack	No	\$ 28.45 \$	-	Deferred until 2022
Replacement SUV - Meter Reading	2103615	DW20-157	26,459	3/2/2021	\$ 35,000	Yes	\$ 35,000	\$ 35,000	Merrimack	No	\$ 28.45 \$	-	
Landscape Improvements	NTD	DW20-157	26,459	3/2/2021	\$ 15,000	Yes	\$ 15,000	\$ 15,000	Merrimack	Yes	\$ 28.45 \$	427	Deferred until 2022
Replacement Valve/vac trailer	2105021	DW20-157	26,459	3/2/2021	\$ 65,000		\$ 72,000	\$ 70,970	Merrimack	No	\$ 28.45 \$	-	
Replacement Equipment Trailer	NTD	DW20-157	26,459	3/2/2021	\$ 7,500		\$ 7,500	- /	Merrimack	No	\$ 28.45 \$	-	
Protectus Meter Upgrade	NTD	DW20-157	26,459	3/2/2021	\$ 22,000		\$ 22,000	\$ 22,000	Nashua	Yes	\$ 27.13 \$	597	
Valve Turner & Vac Truck	2103613	DW20-157	26,459	3/2/2021	\$ 200,000	- 40	\$ 200,000	\$ 200,000	Merrimack	No	\$ 28.52 \$	-	D. C. J. 7000
Office Space for Const & Maint Supervisor Locker Room Deep Wash Sinks	NTD NTD	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 15,000 \$ 10,000		\$ 15,000 \$ 10,000	\$ -	Merrimack Merrimack	Yes Yes	\$ 28.52 \$ \$ 28.52 \$	_	Deferred until 2022 Deferred until 2022
Locker Room Benches	NTD	DW20-157 DW20-157	26,459	3/2/2021	\$ 7,500		\$ 7,500	\$ -	Merrimack	Yes	\$ 28.52 \$		Deferred until 2022
Locker Room Benches	NID	DW20-137	20,439	3/2/2021	\$ 7,500	1 es	\$ 7,500	ş -	Werrinack	168	\$ 26.32 \$		Deterred until 2022
Distribution Facility Bird Mitigation	2105481	DW20-157	26,459	3/2/2021	s -	Yes	\$ 27,000	\$ 26,250	Merrimack	Yes	\$ 28.52		Covered equipment storage area with open sides was being invaded by birds for nesting which resulted in
Distribution 1 delity bird witagation	2103401	D W 20-157	20,437	J, Z, Z021	,	103	27,000	20,230	Merrinack	103	20.52	749	large amount of bird feces. Netting will eliminate access of the brids to the roosting areas.
Brook Street	2102529	DW20-157	26,459	3/2/2021	\$ 103,000	Yes	\$ 100,000	\$ 95,100	Nashua	Yes	\$ 27.13 \$	2,580	
Hamilton Street	2102528	DW20-157	26,459	3/2/2021	\$ 33,000	Yes	\$ 75,000	\$ 70,200	Nashua	Yes	\$ 27.13 \$	1,905	
Burritt Street	2102532	DW20-157	26,459	3/2/2021	\$ 24,000	Yes	\$ 25,000	\$ 28,500	Nashua	Yes	\$ 27.13 \$	773	
Burritt Street	combined with above	DW20-157	26,459	3/2/2021	\$ 12,000	Yes	\$ 15,000	\$ 14,300	Nashua	Yes	\$ 27.13 \$	388	This budget was combined with other Burritt Street budget.
Verona Street	2102534	DW20-157	26,459	3/2/2021	\$ 56,000	Yes	\$ 60,000	\$ 51,200	Nashua	Yes	\$ 27.13 \$	1,389	
Sarasota Ave	2102531	DW20-157	26,459	3/2/2021	\$ 24,000	Yes	\$ 18,000	\$ 32,730	Nashua	Yes	\$ 27.13 \$	888	
Merrimack River Pumping Station	2102256	DW20-157	26,459	3/2/2021	\$ 140,000		\$ 140,000	\$ 140,000	Merrimack	Yes	\$ 28.52 \$	3,993	
Kessler Farm Tank Replacement	2101759	DW20-157	26,459	3/2/2021	\$ 4,000,000		\$ 4,000,000	\$ 4,344,000	Nashua	Yes	\$ 27.13 \$	117,853	
Coburn Woods (all side streets)	2002685 & 2101761	DW20-157	26,459	3/2/2021	\$ 1,855,000	Yes	\$ 1,855,000	\$ 840,000	Nashua	Yes	\$ 27.13 \$	22,789	Project scope reduced to 5 of the 28 side roads do to excavation difficulties
Merrimack River Intake	2101763	1	0.1 DSRR		\$ 30,000	No	\$ 110,000	\$ 60,000	Merrimack	No	\$ 28.52		Budget increased based on the results of risk analysis and the resulting actions required by the NHDES. Relating to the SWPP. Part of work will continue into 2022
Balcom Street	NTD	DW20-157	26,459	3/2/2021	\$ 294,000	Yes	\$ 294,000	S -	Nashua	Yes	\$ 27.13 \$		Deferred to 2022 for Projects associated with sewer and other utility replacement
Euclid Avenue	NTD	DW20-157	26,459	3/2/2021	\$ 294,000	<u> </u>	\$ 294,000	\$ -	Nashua	Yes	\$ 27.13 \$		Deferred to 2022 for Projects associated with sewer and other utility replacement Deferred to 2022 for Projects associated with sewer and other utility replacement
Ash Street	2102530	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 30,000	\$ 26,400	Nashua	Yes	\$ 27.13 \$	716	Not included in original board approved budget
Fields Grove Crossing		B #20 137	0.1 DSRR	3/2/2021	s -	No	\$ -	\$ 11,000	Nashua	No	\$ 27.13 \$	-	1 of medica in original board approved budget
Chataqua Avenue	2101749		0.1 DSRR		\$ -	No	\$ 10,000		Nashua	No	\$ 27.13 \$	_	Not included in original board approved budget. Response to Nashua sewer replacement
Manatee Street	2102535	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 16,000	\$ 13,500	Nashua	Yes	\$ 27.13 \$	366	Not included in original board approved budget
Niquette Drive	2103936	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 52,000	\$ 52,800	Nashua	Yes	\$ 27.13 \$	1,432	Not included in original board approved budget
Miami Street	2105496	1	0.1 DSRR		s -	No	\$ 177,100	\$ 5,000	Nashua	No	\$ 27.13		Not included in original board approved budget. Response to Nashua sewer replacement. Materials not
					Ÿ						. \$	-	available in 2021 - design only
377 Main Street Repairs	2105498	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 25,000	\$ 24,000	Nashua	Yes	\$ 27.13 \$	651	Not included in original board approved budget
Kendrick Street	2105500	1	0.1 DSRR		s -	No	\$ 189,640	\$ 8,000	Nashua	No	\$ 27.13		Not included in original board approved budget. Response to Nashua sewer replacement. Materials not
-					-		, ,	,			\$	-	available in 2021 - design only
Faxon Avenue	2105579	1	0.1 DSRR		\$ -	No	\$ 85,800	\$ 4,000	Nashua	No	\$ 27.13		Not included in original board approved budget. Response to Nashua sewer replacement. Materials not
											3	-	available in 2021 - design only Not included in original board approved budget. Response to Nashua sewer replacement. Materials not
Faxon Street	2105580	1	0.1 DSRR		\$ -	No	\$ 219,400	\$ 8,000	Nashua	No	\$ 27.13 s	_	available in 2021 - design only
Sweet Hill Internnection	NTD	,	NHDES SRF ot DWGTF	3	\$ 250,000	Yes	S -	S -	Plaistow	Yes	\$ 28.45 \$	_	Deferred to 2022 for NHSRF Funding
Twin Ridge Interconnection	NTD		NHDES SRF ot DWGTF		\$ 100,000		\$ -	\$ -	Plaistow	Yes	\$ 28.45 \$	_	Deferred to 2022 for NHSRF Funding
PWW RŘA- ERP	2106256		0.1 DSRR		\$ 200,000		\$ 200,000	\$ 200,000	Various	No	\$ 28.45 \$	-	
Trimble GPS and Monitoring Equipment	NTD	DW20-157	26,459	3/2/2021	\$ 32,000	Yes	\$ 32,000	\$ 32,000	Various	Yes	\$ 28.45 \$	910	
Merrimack River Watershed Council	NTD		0.1 DSRR		\$ 40,000	- 1.0	\$ 40,000	\$ 40,000	Various	No	\$ 28.45 \$	-	
Investment in Developer Services	Routine	DW20-157	26,459	3/2/2021	\$ 90,000		\$ 140,000	\$ 80,000	Various	Yes	\$ 28.45 \$	2,276	66 Developer installed services through 09/30/21 projecting 50 more.
Engineering Vehicle	NTD	DW20-157	26,459	3/2/2021	\$ 30,000		\$ 30,000	\$ -	Nashua	No	\$ 27.13 \$	-	Purchase deferred to 2022
Engineering Vehicle	NTD	DW20-157	26,459	3/2/2021	\$ 30,000	Yes	\$ 30,000	\$ -	Nashua	No	\$ 27.13 \$	-	Purchase deferred to 2022
Route 101A Water Main Relocation	2008857 & 2102006		0.1 DSRR		\$ -	No	\$ 505,000	\$ 15,000	Nashua	No	\$ 27.13 \$	-	Engineering only for 2021, NHDOT deferred construction to 2022
Northwest Pressure System Analysis	2105480		0.1 DSRR		\$ -	No	\$ 25,000	\$ 25,000	Nashua	No	\$ 27.13 \$	-	Not included in original board approved budget
Distribution System Analysis - HUDSON	2105499		0.1 DSRR		\$ -	No	\$ 25,000	\$ 25,000	Nashua	No	\$ 27.13 \$	-	Not included in original board approved budget
Pennichuck Brook Aerial Survey	2106254		0.1 DSRR		\$ -		\$ -	\$ 19,500	Various	No	\$ 28.45 \$	-	
New Building COO Vehicle	2001988 & 2101751	DW100 455	0.1 DSRR	- /a /acas	\$ -	110	\$ 35,000		Nashua	Yes	\$ 27.13 \$		Not included in original board approved budget
Bon Terrain Contractual Payment	NTD NTD	DW20-157	26,459	3/2/2021	\$ 30,000	+	\$ -	\$ -	Nashua Amherst	No	\$ 27.13 \$ \$ 32.93 \$	-	Not needed.
Booster Pump replacement/rebuild	Routine	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 129,200 \$ 40,000		\$ 129,200 \$ 30,000		Various	No Yes	\$ 32.93 \$	1 536	10 Booster Pump installed/repaired through 09/30/21 projecting 3 more.
Booster Pump replacement/rebuild	2102277	DW20-157	26,459	3/2/2021	\$ -		\$ 4,719		Various	Yes	\$ 28.45 \$	1,330	
Booster Pump replacement/rebuild	2102277	DW20-157	26,459	3/2/2021	\$ -	+	\$ 4,641	- /	Various	Yes	\$ 28.45 \$	132	
Booster Pump replacement/rebuild	2108089	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ -	\$ 8,700	Nashua	Yes	\$ 27.13 \$	236	
Well Pump replacements	Routine	DW20-157	26,459	3/2/2021	\$ 15,000		\$ 24,000		Various	Yes	\$ 28.45 \$		3 Well Pump installed/repaired through 09/30/21, projecting 3 more
Chemical Feed pump replacements	Routine	DW20-157	26,459	3/2/2021	\$ 10,000	-	\$ 4,000	\$ 1,000	Various	Yes	\$ 28.45 \$	28	0 Chemical Pumps installed/repaired through 09/30/21 projecting 1 more
Supply Pond Spillway Improvements	2101927	DW20-157	26,459	3/2/2021	\$ 750,000	Yes	\$ -	\$ 52,820	Merrimack/Nashua	Yes	\$ 27.83 \$		Work not required due to Hazard level reclassification of Bowers Dam
Harris Dam raise earthen embankment, raise dike wall, regulatory requirement.	2101956	1	0.1 DSRR		\$ 965,000	Yes	s -	\$ 42,000	Merrimack/Nashua	No	\$ 27.83		Deferred to 2022. Project scope will change due to Hazard level reclassification of Bowers Dam. Design
Traine Dani raise carrien embankment, raise uike wall, regulatory requirement.	2101730	1	0.1 DOM		903,000	103	-	42,000	merrinaek/ inasiiua	110	\$ 27.03	-	only

6/30/2021 Update, Revised 9/1/21 DOE DR 2-3, Revised 9/21/21 DOE TS 2-2 9/30/2021 Update

								Estimated Project				QCPAC Eligible	
Project Name/Description	W. d. Ondon #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount C	OCPAC Eligible?	Estimated Project Cost as of 6/30/2021	Cost as of 9/30/2021	Community	Taxable	Tax Rate (1)	Property Tax Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing
Misc. Structural Improvements	Work Order #				_	_			•				
Misc. Structural Improvements Misc. Structural Improvements	2102276	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 20,000	Yes Yes	\$ 15,515 \$ 4,485		Various Various	Yes Yes	\$ 28.45 \$ 28.45	-	
Miscellaneous Equipment Purchased	NTD	DW20-157	26,459	3/2/2021	\$ 20,000	Yes	\$ 15,000		Various	Yes	\$ 28.45		
Miscellaneous Equipment Purchased	2104003	DW20-157	26,459	3/2/2021	ş -	Yes	\$ 5,000		Various	Yes	\$ 28.45		
Miscellaneous Equipment Purchased	2107804	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ -	7 -,	Various	No	\$ 28.45		1 1 AAAAAAA XIII
Miscellaneous SCADA/Electrical Miscellaneous SCADA/Electrical	NTD 2104170	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 30,000	Yes Yes	\$ 21,500 \$ 5,500		Various Various	Yes Yes	\$ 28.45 \$ 28.45	-	Some budget money was pulled into 2102309 VFD pump #3
Miscellaneous SCADA/Electrical	2105691	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ -	\$ 4,272	Nashua	Yes	\$ 27.13		
Miscellaneous SCADA/Electrical	2107682	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ -	\$ 4,345	Nashua	Yes	\$ 27.13	\$ 118	
Miscellaneous SCADA/Electrical	2107683	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ -		Nashua	Yes	\$ 27.13		
Miscellaneous SCADA/Electrical Rebuild 1 High lift/Intermediate pump	NTD	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ - \$ 25,000	Yes Yes	\$ - \$ 25,000	\$ 29,000 \$ 25,000	Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13		Windows operating platform does not support new release of SCADA software.
Replace VFD, Intermediate Pump #3 WTP	2102309	DW20-157	26,459	3/2/2021	\$ 25,000	Yes	\$ 25,000	· · · · ·	Nashua	Yes	\$ 27.13	-	
WTP Structural/HVAC	NTD	DW20-157	26,459	3/2/2021	\$ 10,000	Yes	\$ 28,000		Various	Yes	\$ 28.45		
Purchase new lab equipment	NTD	DW20-157	26,459	3/2/2021	\$ 20,000	Yes	\$ 20,000	-	Nashua	No	\$ 27.13		
Miscellaneous Fencing and Security projects	NTD	DW20-157	26,459	3/2/2021	\$ 10,000	Yes	\$ 1,850		Various	Yes	\$ 28.45		
Miscellaneous Fencing and Security projects	2103214 NTD	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 8,150		Various	Yes	\$ 28.45		
Add Third pump - Donald Street Booster Station Vehicle replacement	NTD 2108277	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 40,000 \$ 55,000	Yes Yes	\$ - \$ 55,000	\$ - \$ 55,000	Bedford Nashua	Yes No	\$ 24.62 \$ 27.13		deferred until 2022
Vehicle replacement	NTD	DW20-157	26,459	3/2/2021	\$ 40,000	Yes	\$ 40,000	-	Nashua	No	\$ 27.13		deferred until 2022
Replace 6 filter turbidimeters (manufacturer no longer supports current units).	NTD	DW20-157	26,459	3/2/2021	\$ 30,000	Yes	\$ 30,000	\$ 30,000	Nashua	Yes	\$ 27.13	\$ 814	
Rebuild of Pump 2 @ Merrimack River Intake.	NTD	DW20-157	26,459	3/2/2021	\$ 75,000	Yes	\$ 75,000		Merrimack	Yes	\$ 28.52		
Repair/Replace Soffit and Fascia, Boat House Bldg.	2103205	DW20-157	26,459	3/2/2021	\$ 30,000	Yes	\$ 15,000	\$ 12,600	Nashua	Yes	\$ 27.13	\$ 342	
Install new Day Fuel Tank, Controller and related equip. FWPS Generator	NTD	DW20-157	26,459	3/2/2021	\$ 75,000	Yes	\$ -	\$ -	Nashua	No	\$ 27.13	\$ -	Piping reconfigured and replaced as maintenance project. Scope limited.
Replace Pakscan Master Station, WTP	2103886	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 44,000	\$ 44,082	Nashua	Yes	\$ 27.13	\$ 1,196	This project was originally expected in 2020 but not completed due to production issues. Completed in 2021 but not in board approved budget as a carryover.
New SCADA Control System, Powder Hill, Bedford	2103888	DW20-157	26,459	3/2/2021		Yes	\$ 9,500	\$ 9,500	Bedford	Yes	\$ 24.62	e 234	This project was originally expected in 2020 but not completed due to production issues. Completed in 2021 but not in board approved budget as a carryover.
Bowers Dam 2021 Permitting and design	2103888	+	0.1 DSRR		\$ -	Yes No	\$ 2,300	\$ 9,500 \$ 154,000	Merrimack/Nashua	Yes No	\$ 24.62 \$ 27.83		Dam construction will occur in 2022
CMMS replacment project (Estimate)	2101757	DW20-157	26,459	3/2/2021	\$ 100,000	Yes	\$ 100,000		Nashua	Yes	\$ 27.13	-	
Infoview Licenses	2104021	DW20-157	26,459	3/2/2021	\$ 65,000	Yes	\$ 53,450	\$ 53,450	Nashua	No	\$ 27.13	\$ -	
Redundant Internet	2102395	DW20-157	26,459	3/2/2021	\$ 69,000	Yes	\$ 69,000	\$ 44,832	Nashua	No			
											\$ 27.13	\$ -	
Treatment Plant and Distribution security retrofit	2103934	DW20-157	26,459	3/2/2021	\$ 37,000	Yes	\$ 120,000	\$ 126,000	Nashua	Yes			Change of Scope for 2 remote facilities. Existing wiring at Distribution not adequate for new system. Add
Trouble in the drie Bloth Button Good Ry Follow	2100,001	3 1120 137	20,107	3,2,2021	31,000	100	120,000	120,000	111011111	100	\$ 27.13	\$ 3,418	gate, request for Exit, change int keypad functionality.
		DW20-157	26,459	3/2/2021		Yes							
IT Storage Room / Work Room	2105690		·		\$ 4,000		\$ 4,000		Nashua	Yes	\$ 27.13	-	
Cybernetics Disk Array	2104055	DW20-157	26,459	3/2/2021	\$ 20,000	Yes	\$ 12,000	\$ 20,000	Nashua	Yes	\$ 27.13	\$ 543	
Virtual Desktops	2104056	DW20-157	26,459	3/2/2021	\$ 106,000	Yes	\$ 60,000	\$ 96,000	Nashua	No			
				-,-,-									
											\$ 27.13	\$ -	
Computer Updates	NTD	DW20-157	26,459	3/2/2021	\$ 6,000	Yes	\$ 6,000	\$ -	Nashua	No			
											\$ 27.13	\$ -	
Snow Station Switch Replacement	NTD	DW20-157	26,459	3/2/2021	\$ 1,000	Yes	\$ 1,000		Nashua	Yes	\$ 27.13		
Munis FER Enancements	NTD	DW20-157	26,459	3/2/2021	\$ 35,000	Yes	\$ 35,000	\$ 20,384	Nashua	No	\$ 27.13	\$ -	
Click to Munis Data interfaces		DW20-157	26,459	3/2/2021	\$ 20,000	Yes	\$ 20,000	s -	Nashua	No			
	NTD		·								\$ 27.13	-	
CMMS PLL Implementation	2103213 NTD	DW20-157	26,459	3/2/2021	\$ 170,000	Yes	\$ 125,595	-	Nashua	Yes	\$ 27.13		
Cityworks PLL License Misc Hardware	NTD	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 40,000 \$ 20,000	Yes Yes	\$ 13,875 \$ 8,082		Nashua Various	No No	\$ 27.13 \$ 28.45		This project got cancelled since it was only for licenses.
Misc Hardware	2101826	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 2,195		Various	No	\$ 28.45		
Misc Hardware	2102671	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 3,500		Various	No	\$ 28.45	\$ -	
Misc Hardware	2103177	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 3,349		Various	No	\$ 28.45		
Misc Hardware	2105019	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 2,874		Various	No	\$ 28.45	-	
Remote User Laptops Misc Software	2104113 NTD	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 12,000	Yes No	\$ 36,000 \$ 12,000	-	Various Various	No No	\$ 28.45 \$ 28.45		
WTP Wifi expansion	NTD	DW20-157	26,459	3/2/2021	\$ 15,000	Yes	\$ -	-	Nashua	No	\$ 28.45	-	Determined that the need was not there for the use of this technology.
Redundant VPN Installation	2108090	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ -	\$ 14,616	Nashua	No	\$ 27.13	\$ -	· ·
Projected short term interest on FALOC	N/A	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 128,379		N/A	No	\$ -		
		Per	nnichuck Water Works P	rojected 2021 Total Ca	\$ 12,015,200 \$	-	\$ 11,538,299	\$ 9,111,271	Projected Prop	perty Tax Expens	se associated with	\$ 202,809	
		Total Projected	Bond funded PWW QCI	PAC Capex for 2021 -	\$ 11,374,200		\$ 11,032,299	\$ 8,582,771					

8,582,771	\$	11,032,299	\$ 11,374,200	\$	W QCPAC Capex for 2021 -	ed Bond funded PWW	Total Projected	
-	\$	-	\$ 350,000	\$	W QCPAC Capex for 2021 -	DWGTF funded PWW	rojected NHDES SRF/DV	Total Pro
528,500	\$	506,000	\$ 291,000	\$	otal for 0.1 DSRR Projects -	Tot		
526,910	\$	677,290	\$ 698,280	\$	resulting in P&I of	4.5%	Years @	30
_	S	_	\$ 18.745	S	resulting in P&I of	3,38%	Years @	30

							Estimated Project			QCPAC Eligible	
		Financing Docket		Date of NHPUC	Approved	Estimated Project	Cost as of			Property Tax	
Project Name/Description	Work Order #	No.	NHPUC Order No.		Budgeted Amount QCPAC Eligible?	Cost as of 6/30/2021	9/30/2021	Community Taxable	Tax Rate (1)	Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing
, , , ,	work Order #					, ,	,	,	()	•	1

^{1.} Tax rate is the sum of the local community rate plus the Statewide Utility tax rate of 6.60/1000 2. NTD - No Work Order Established to Date

PWW QCPAC Filing Exhibit DLW-1 Page 5

2/11/2021 6/30/2021 Update, Revised 5/26/2021 per Staff Tech Session DR, Revised 7/20/2021 Staff DR1

										QCPAC Eligible	
			Financing Docket	NHPUC Order Date of NHPUC	Approved Budgeted					Property Tax	['
Project Name/Description	Project Description	Work Order #	No.	No. Order	Amount	QCPAC Eligible?	Community	Taxable	Tax Rate (1)	Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing
2022 New Services (10)	Single Family, Owner Build, New Homes		DW20-157	Awaiting Approval	\$ 50,000	Yes	Various	Yes	\$ 28.45		
2022 Renewed Services (20)	Replacement of Failed Services		DW20-157	Awaiting Approval	\$ 110,000 \$ 90,000	Yes	Various	Yes	\$ 28.45	\$ 3,130	'
2022 Hydrants (15) 2022 Gates (10)	Replacement of non-functional hydrants Replacement of Failed Gate Valves		DW20-157 DW20-157	Awaiting Approval Awaiting Approval	\$ 90,000 \$ 40,000	Yes Yes	Various Various	Yes Yes	\$ 28.45 \$ 28.45	\$ 2,561 \$ 1,138	
2022 Radios (500)	Replacement of failed Radios (250), New Radios for new customers (250).		DW20-157	Awaiting Approval	\$ 50,000	Yes	Various	Yes	\$ 28.45	\$ 1,423	
2022 Radios (4000)	Yr 2 of 7 Replacment of all PWW Radios installed in 2007 (4000) by contractor.		DW20-157	Awaiting Approval	\$ 520,000	Yes	Various	Yes	\$ 28.45	\$ 14,794	
2022 Meters (Growth) 5/8"-2" - Core & CWS (TBD)	New meters for new customers, including PFOA (250). Replacement of failed meters(250).		DW20-157	Awaiting Approval	\$ 50,000	Yes	Various	Yes	\$ 28.86	\$ 1,443	
Replacement Boom Truck	Replacement for #19 - 2011 Ford F450 - High Milage, Maintenance & Safety issues.		DW20-157	Awaiting Approval	\$ 150,000	Yes	Merrimack	No	\$ 28.52	\$ -	
Replacement Utility Truck Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles. New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157 DW20-157	Awaiting Approval Awaiting Approval	\$ 70,000 \$ 70,000	Yes Yes	Merrimack Merrimack	No No	\$ 28.52 \$ 28.52	\$ - \$	<u> </u>
Replacement Supervisor Pickup	New Full Sized Pickup to Replace existing high mileage/maintenance pickup.		DW20-157	Awaiting Approval	\$ 45,000	Yes	Merrimack	No	\$ 28.52	\$ -	
Replacement Utility Van	New Utility Van to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting Approval	\$ 40,000	Yes	Merrimack	No	\$ 28.52	\$ -	
Protectus Meter Upgrade	Protectus Meter Upgrade		DW20-157	Awaiting Approval	\$ 22,000	Yes	Nashua	Yes	\$ 27.13		
Miscellaneous Construction Equipment	D 1 (000 F0) 1 01 11 (000 F0) 1 DIDO			0.1 DSRR	\$ 40,000	Yes	Merrimack	Yes	\$ 28.52	\$ 1,141	
Balcom Street Euclid Avenue	Replace 1240 LF 6 inch CI with 1240 LF 8 inch DIPCL. Replace 425 LF 6 inch CI with 425LF 8 inch DIPCL.		DW20-157 DW20-157	Awaiting Approval Awaiting Approval	\$ 73,600 \$ 25,200	Yes	Nashua Nashua	Yes	\$ 27.13 \$ 27.13	\$ 1,997 \$ 684	
Fairview Street	Replace 800 LF 6 inch CI with 800 LF 8 inch DIPCL.		DW20-157 DW20-157	Awaiting Approval Awaiting Approval	\$ 25,200 \$ 47,000	Yes Yes	Nashua Nashua	Yes Yes	\$ 27.13	\$ 1,275	
Temple St (south to gorman)	Replace 900 LF of 8 inch Cl with 12 inch DIPCL.		DW20-157	Awaiting Approval	\$ 66,000	Yes	Nashua	Yes	\$ 27.13		
School Street (High to W. Pearl Alleyway)	Replace 400 LF of 4 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval	\$ 27,000	Yes	Nashua	Yes	\$ 27.13	\$ 733	
Sargent Street	Replace 1900 LF 6 inch Cl with 1900 LF 16 inch DIPCL.		DW20-157	Awaiting Approval	\$ 480,000	Yes	Nashua	Yes	\$ 27.13	\$ 13,022	
Courtland Street	Replace 1170 LF 4 inch Cl with 1170 LF 16 inch DIPCL.		DW20-157	Awaiting Approval	\$ 300,000	Yes	Nashua	Yes	\$ 27.13		
Alld Street Lawndale Avenue	Replace 1860 LF of 6 & 8 inch CI with 12 inch DIPCL. Replace 1085 LF of 6 inch CI with 12 inch DIPCL.		DW20-157 DW20-157	Awaiting Approval Awaiting Approval	\$ 740,000 \$ 420,000	Yes	Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13	\$ 20,076	'
Benson Avenue	Replace 550 LF of 4 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval	\$ 420,000	Yes Yes	Nashua	Yes	\$ 27.13		
Spaulding Street	Replace 950 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval	\$ 280,000	Yes	Nashua	Yes	\$ 27.13	\$ 7,596	
Alstead Avenue	Replace 240 LF of 4 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval	\$ 61,000	Yes	Nashua	Yes	\$ 27.13	\$ 1,655	
Spaulding Avenue	Replace 430 LF of 6, 2, & 1.25 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval	\$ 80,000	Yes	Nashua	Yes	\$ 27.13		
St Lazare Street	Replace 415 LF of 2 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval	\$ 80,000	Yes	Nashua	Yes	\$ 27.13		<u> </u>
Ingalls St (St Camille to end) Nye Avenues	Replace 200 LF of 1.5 inch CI with 4 inch DIPCL. Replace 400 LF of 2 & 1.5 inch CI with 4 inch DIPCL.		DW20-157 DW20-157	Awaiting Approval Awaiting Approval	\$ 40,000 \$ 73,000	Yes Yes	Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13	\$ 1,085 \$ 1,980	
Copp Street	Replace 350 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval Awaiting Approval	\$ 103,000	Yes	Nashua	Yes	\$ 27.13		<u> </u>
Fairview Street	Replace 800 LF 6 inch CI with 800 LF 8 inch DIPCL.		DW20-157	Awaiting Approval	\$ 189,000	Yes	Nashua	Yes	\$ 27.13		
Gray Avenue	Replace 360 LF of 6 inch CI with 6 inch DIPCL.		DW20-157	Awaiting Approval	\$ 85,000	Yes	Nashua	Yes	\$ 27.13	\$ 2,306	
Additional Water Main Replacement	To be determined		DW20-157	Awaiting Approval	\$ 1,100,000	Yes	Nashua	Yes	\$ 27.13	\$ 29,843	
2022 Nashua City Sewer Projects PWW RRA- ERP	To be determined		DW20-157	Awaiting Approval	\$ 900,000 \$ 500,000	Yes	Nashua	Yes	\$ 27.13	\$ 24,417	'
PWW RRA- ERP	Implement Recommendations Evaluated in 2021		DW20-157	Awaiting Approval	\$ 500,000	Yes	Various	Yes	\$ 28.45	\$ 14,225	
Merrimack River Watershed Council	Grant Match with other Stakeholders \$40k for five years for land conservation/protection in the Merrimack River Watershed.		0.1 DSRR \$		\$ 40,000	No	Various	No	\$ 28.45	\$ -	
Investment in Developer Services	1x Annual Rvenue		DW20-157	Awaiting Approval	\$ 90,000	Yes	Various	Yes	\$ 28.45	\$ 2,561	
Replace Engineering Pickup	Replace vehicle with high mileage.		DW20-157	Awaiting Approval	\$ 40,000	Yes	Nashua	No	\$ 27.13	\$ -	
Replace Engineering Pickup	Replace vehicle with high mileage.		DW20-157	Awaiting Approval	\$ 40,000	Yes	Nashua	No	\$ 27.13	\$ -	
Milford Booster Station	Replace/Relocate/Upgrade the Milford Booster Station (>4MGD)		DW20-157	Awaiting Approval	\$ 800,000	Yes	Amherst	Yes	\$ 32.93		
Temple St (south to gorman)	Replace 900 LF of 8 inch CI with 12 inch DIPCL.		DW20-157	Awaiting Approval	\$ 263,000	Yes	Nashua	Yes	\$ 27.13	\$ 7,135	
School Street (High to W. Pearl Alleyway)	Replace 400 LF of 4 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval	\$ 108,000	Yes	Nashua	Yes	\$ 27.13	\$ 2,930	
Linwood Street Booster Pump replacement/rebuild	Replace 960 LF of 6 inch CI with 8 inch DIPCL. Booster Pump replacement/rebuild		DW20-157 DW20-157	Awaiting Approval Awaiting Approval	\$ 283,800 \$ 40,000	Yes Yes	Nashua Various	Yes Yes	\$ 27.13 \$ 28.45	\$ 7,699 \$ 1,138	
Well Pump replacements	Well Pump replacements		DW20-157	Awaiting Approval	\$ 15,000	Yes	Various	Yes	\$ 28.45	\$ 427	
Chemical Feed pump replacements	Chemical Feed pump replacements		DW20-157	Awaiting Approval	\$ 10,000	Yes	Various	Yes	\$ 28.45	\$ 285	
Install/replace treatment systems in small CWS.	Install/replace treatment systems in small CWS.		DW20-157	Awaiting Approval	\$ 15,000	Yes	Various	Yes	\$ 28.45		
Misc. Structural Improvements	Misc. Structural Improvements		DW20-157	Awaiting Approval	\$ 15,000	Yes	Various	Yes	\$ 28.45		'
Miscellaneous Equipment Purchased Miscellaneous SCADA/Electrical	Miscellaneous Equipment Purchased Miscellaneous SCADA/Electrical		DW20-157 DW20-157	Awaiting Approval Awaiting Approval	\$ 20,000 \$ 30,000	Yes Yes	Various Various	Yes Yes	\$ 28.45 \$ 28.45	\$ 569 \$ 854	'
Well Rehabilitation	Well Rehabilitation		DW20-157	Awaiting Approval Awaiting Approval	\$ 50,000	Yes	Various	Yes	\$ 28.45	\$ 1,423	
WTP Structural/HVAC	WTP Structural/HVAC		DW20-157	Awaiting Approval	\$ 10,000	Yes	Nashua	Yes	\$ 27.13		
Bowers Pond Spillway Improvements	Bowers Pond Spillway Improvements to bypass revised NHDES flows		DW20-157	Awaiting Approval	\$ 1,800,000	Yes	Merrimack/Nashua	Yes	\$ 27.83		Vork required to expand Spill due to NHDES Hazard reclassification of Bowers Dam
Purchase new lab equipment	Purchase new lab equipment		DW20-157	Awaiting Approval	\$ 20,000	Yes	Nashua	Yes	\$ 27.13		
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects		DW20-157	Awaiting Approval	\$ 10,000	Yes	Nashua	Yes	\$ 27.13		
Re-paint FWPS ceiling WTP Replace Vehicle	Re-paint FWPS ceiling Replace High Mileage Vehicle.		DW20-157 DW20-157	Awaiting Approval Awaiting Approval	\$ 20,000 \$ 65,000	Yes Yes	Nashua Nashua	Yes No	\$ 27.13 \$ 27.13		
WTP Replace Vehicle	Replace High Mileage Vehicle.		DW20-157 DW20-157	Awaiting Approval Awaiting Approval	\$ 65,000	Yes	Nashua Nashua	No No	\$ 27.13 \$ 27.13		
Misc Hardware	Misc Hardware		D W20-13/	0.1 DSRR	\$ 20,000	No	Nashua	No	\$ 27.13		
Misc Software	Misc Software			0.1 DSRR	\$ 12,000	No	Nashua	No	\$ 27.13		
Network Hardawre infrastructure improvements	Update aging network infrustructure.		DW20-157	Awaiting Approval	\$ 80,000	Yes	Nashua	No	\$ 27.13		
Major Software Replacement Project	Munis Enhancements			0.1 DSRR	\$ 60,000	No	Nashua	No	\$ 27.13		
Munis Enhancements	IVIUIIIS LIIIIAIICEIIIEIIIS	D	DW20-157	Awaiting Approval	\$ 35,000	Yes	Nashua	No No	\$ 27.13		
		rennichuck Wa	ter works Projected	2022 Total Capital Expenditure Budget	- \$ 11,208,600		rrojected Prope	city 1 ax Expens	e associated with	\$ 290,409	

Total Projected Bond funded PWW QCPAC Capex for 2021 - \$
Total Projected NHDES SRF/DWGTF funded PWW QCPAC Capex for 2021 - \$
Total for 0.1 DSRR Projects - \$ 10,236,600

Years @

Estimated Bond Terms (Bonds to be sold in April 2022) -

4.5% resulting in P&I of \$

172,000

628,441

less \$

800,000 for Milford Booster. Milford to pay the 1.1x P&I

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

Revised 6/16/2020 per Staff Tech DR-1

Project Name/Description	Project Description	Work Order #	Financing Docket	NHPUC Order Date of NHPUC No. Order	Approved Budgeted Amount	QCPAC Eligible?	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense Explanation for Change/Addition/Deletion since Feb 2021 Filing
2023 New Services (10)	Single Family, Owner Build, New Homes		DW20-157	Awaiting Approval	\$ 50,000	Yes	Various	Yes	\$ 28.45	\$ 1,423
2023 Renewed Services (20)	Replacement of Failed Services		DW20-157	Awaiting Approval	\$ 110,000	Yes	Various	Yes	\$ 28.45	1
2023 Hydrants (15)	Replacement of non-functional hydrants		DW20-157	Awaiting Approval	\$ 90,000	Yes	Various	Yes	\$ 28.45	
2023 Gates (10)	Replacement of Failed Gate Valves		DW20-157	Awaiting Approval	\$ 40,000	Yes	Various	Yes	\$ 28.45	- '
2023 Radios (500)	Replacement of failed Radios (250), New Radios for new customers (250).		DW20-157	Awaiting Approval	\$ 50,000	Yes	Various	Yes	\$ 28.45	\$ 1,423
2023 Radios (4000)	Yr 2 of 7 Replacment of all PWW Radios installed in 2007 (4000) by contractor.		DW20-157	Awaiting Approval	\$ 520,000	Yes	Various	Yes	\$ 28.45	\$ 14,795
2023 Meters (Growth) 5/8"-2" - Core & CWS (TBD)	New meters for new customers, including PFOA (250). Replacement of failed meters(250).		DW20-157	Awaiting Approval	\$ 50,000	Yes	Various	Yes	\$ 28.45	\$ 1,423
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting Approval	\$ 70,000	Yes	Merrimack	No	\$ 28.52	\$ -
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting Approval	\$ 70,000	Yes	Merrimack	No	\$ 28.52	
Replacment Supervisor Pickup	New Full Sized Pickup to Replace existing high mileage/maintenance pickup.		DW20-157	Awaiting Approval	\$ 45,000	Yes	Merrimack	No	\$ 28.52	
Replacement Utility Van	New Utility Van to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting Approval	\$ 40,000	Yes	Merrimack	No	\$ 28.52	-
Protectus Meter Upgrade	Protectus Meter Upgrade		DW20-157	Awaiting Approval	\$ 22,000	Yes	Nashua	No	\$ 27.13	
Miscellaneous Construction Equipment	Miscellaneous Construction Equipment			0.1 DSRR	\$ 40,000	Yes	Merrimack	Yes	\$ 28.52	* *
PWW RRA- ERP	Implement Recommendations Evaluated in 2021.		DW20-157	Awaiting Approval	\$ 500,000	Yes	Various	Yes	\$ 28.45	
Sargent Street	Replace 1900 LF 6 inch CI with 1900 LF 16 inch DIPCL.		DW20-157	Awaiting Approval	\$ 84,000	Yes	Nashua	Yes	\$ 27.13	
Courtland Street	Replace 1170 LF 4 inch CI with 1170 LF 16 inch DIPCL.		DW20-157	Awaiting Approval	\$ 52,000	Yes	Nashua	Yes	\$ 27.13	
Alld Street	Replace 1860 LF of 6 & 8 inch Cl with 12 inch DIPCL.		DW20-157	Awaiting Approval	\$ 130,000	Yes	Nashua	Yes	\$ 27.13	* *
Lawndale Avenue	Replace 1085 LF of 6 inch CI with 12 inch DIPCL.		DW20-157	Awaiting Approval	\$ 73,000	Yes	Nashua	Yes	\$ 27.13	
Benson Avenue	Replace 550 LF of 4 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval	\$ 28,000	Yes	Nashua	Yes	\$ 27.13	
Spaulding Street	Replace 950 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval	\$ 48,000	Yes	Nashua	Yes	\$ 27.13	
Alstead Avenue	Replace 240 LF of 4 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval	\$ 11,000	Yes	Nashua	Yes	\$ 27.13	
Spaulding Avenue	Replace 430 LF of 6, 2, & 1.25 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval	\$ 14,000	Yes	Nashua	Yes	\$ 27.13	
St Lazare Street	Replace 415 LF of 2 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval	\$ 14,000	Yes	Nashua	Yes	\$ 27.13	
Ingalls St (St Camille to end)	Replace 200 LF of 1.5 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval	\$ 6,000	Yes	Nashua	Yes	\$ 27.13	
Nye Avenues	Replace 400 LF of 2 & 1.5 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval	\$ 13,000	Yes	Nashua	Yes	\$ 27.13	
Copp Street	Replace 350 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval	\$ 18,000	Yes	Nashua	Yes	\$ 27.13	·
Gray Avenue 2022 Nashua City Sewer Projects	Replace 360 LF of 6 inch CI with 6 inch DIPCL.		DW20-157 DW20-157	Awaiting Approval Awaiting Approval	\$ 15,000 \$ 200,000	Yes	Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13	
Fairview Street	To be detremined (Paving) Replace 800 LF 6 inch CI with 800 LF 8 inch DIPCL.		DW20-157	Awaiting Approval Awaiting Approval	\$ 200,000	Yes Yes	Nashua	Yes	\$ 27.13	
Water Main Replacement Additional Paving Carry Over	TBD from 2022		DW20-157	Awaiting Approval Awaiting Approval	\$ 400,000	Yes	Nashua	Yes	\$ 27.13	- '
Booster Station Replacement/Upgrade	To be determined		DW20-157 DW20-157	Awaiting Approval Awaiting Approval	\$ 400,000	Yes	Nashua	Yes	\$ 27.13	
Water Main Replacement	To be determined		DW20-157	Awaiting Approval	\$ 3,700,000	Yes	Nashua	Yes	\$ 27.13	
2023 Nashua City Sewer Projects	To be determined		DW20-157	Awaiting Approval	\$ 900,000	Yes	Nashua	Yes	\$ 27.13	
Merrimack River Watershed Council	Grant Match with other Stakeholders \$40k for five years.		DW20-137	0.1 DSRR	\$ 40,000	No	Various	No	\$ 28.45	1
Trimble GPS and Monitoring Equipment	Level Monitors, Pressure Monitors and Flow Monitors		DW20-157	Awaiting Approval	\$ 32,000	Yes	Merrimack	No	\$ 28.52	
Investment in Developer Services	1x Annual Rvenue		DW20-157	Awaiting Approval	\$ 90,000	Yes	Various	Yes	\$ 28.45	
Replace Engineering SUV	Replace vehicle with high mileage.		DW20-157	Awaiting Approval	\$ 30,000	Yes	Various	Yes	\$ 28.45	- '
Replace Engineering Pickup	Replace vehicle with high mileage.		DW20-157	Awaiting Approval	\$ 40,000	No	Various	Yes	\$ 28.45	
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild		DW20-157	Awaiting Approval	\$ 40,000	Yes	Various	Yes	\$ 28.45	* /
Well Pump replacements	Well Pump replacements		DW20-157	Awaiting Approval	\$ 15,000	Yes	Various	Yes	\$ 28.45	\$ 427
Chemical Feed pump replacements	Chemical Feed pump replacements		DW20-157	Awaiting Approval	\$ 15,000	Yes	Various	Yes	\$ 28.45	\$ 427
Carbon media changeout-filters 1 & 2 (Spring of 2023)	Carbon media changeout-filters 1 & 2		DW20-157	Awaiting Approval	\$ 500,000	Yes	Nashua	Yes	\$ 27.13	
Install/replace treatment systems in small CWS.	Install/replace treatment systems in small CWS.		DW20-157	Awaiting Approval	\$ 15,000	Yes	Various	Yes	\$ 28.45	\$ 427
Misc. Structural Improvements	Misc. Structural Improvements		DW20-157	Awaiting Approval	\$ 20,000	Yes	Various	Yes	\$ 28.45	\$ 569
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased		DW20-157	Awaiting Approval	\$ 20,000	Yes	Various	Yes	\$ 28.45	\$ 569
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical		DW20-157	Awaiting Approval	\$ 30,000	Yes	Various	Yes	\$ 28.45	\$ 854
Well Rehabilitation	Well Rehabilitation		DW20-157	Awaiting Approval	\$ 50,000	Yes	Various	Yes	\$ 28.45	\$ 1,423
WTP Structural/HVAC	WTP Structural/HVAC		DW20-157	Awaiting Approval	\$ 10,000	Yes	Nasnua	Yes	\$ 27.13	\$ 271
Purchase new lab equipment	Purchase new lab equipment.		DW20-157	Awaiting Approval	\$ 20,000	Yes	Nashua	No	\$ 27.13	\$ -
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects		DW20-157	Awaiting Approval	\$ 10,000	Yes	Various	Yes	\$ 28.45	\$ 285
Replace Vehicle	Replace High Mileage Vehicle.	·	DW20-157	Awaiting Approval	\$ 65,000	Yes	Nashua	No	\$ 27.13	
Carbon media chageout - 3 & 4 (Fall of 2023)	Carbon media chageout - 3 & 4		DW20-157	Awaiting Approval	\$ 500,000	Yes	Nasnua	Yes	\$ 27.13	
Replace Vehicle	Replace High Mileage Vehicle.		DW20-157	Awaiting Approval	\$ 40,000	Yes	Nashua	No	\$ 27.13	
Misc Hardware	Misc Hardware			0.1 DSRR	\$ 20,000	No	Nashua	No	\$ 27.13	
Misc Software	Misc Software			0.1 DSRR	\$ 12,000	No	Nashua	No	\$ 27.13	
Network Hardware infrastructure improvements	Update aging network infrustructure.		DW20-157	Awaiting Approval	\$ 80,000	Yes	Nashua	No	\$ 27.13	
Major Software Replacement Project				0.1 DSRR	\$ 60,000	No	Nashua	No	\$ 27.13	
Munis Enhancements	Munis Enhancements			0.1 DSRR	\$ 35,000	No	Amherst	No	\$ 32.93	
Misc Computer replacements				0.1 DSRR	\$ 15,000	No	Nashua	No	\$ 27.13	
		Pennichuck Wat	er Works Projected 2	2020 Total Capital Expenditure Budget -	\$ 10,054,000		Projected Prop	erty Tax Expens	se associated with	\$ 257,112

Estimated Bond Terms (Bonds to be sold in April 2022) - 30 Years @ 4.5% resulting in P&I of \$ 603,602

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