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

	Re	ved DW19-084 venues per Order#	QCI	PAC For 2019 ital Additions	Surcharge for Capi pital Additions	CPAC For 2020 tal Additions pro forma	for 2	AC Surcharge 2020 Capital Additions	Capita	AC For 2021 al Additions o forma	for	AC Surcharge 2021 Capital Additions	Capita	AC For 2022 al Additions ro forma	for :	AC Surcharge 2022 Capital Addition	Capit	C For 2023 d Additions o forma	for 2	AC Surcharge 2023 Capital Additions
City Bond Fixed Revenue Requirement (CBFRR)	\$	7,729,032	\$	=	\$ 7,729,032 \$	=	\$	7,729,032	\$	-	\$	7,729,032	\$	-	\$	7,729,032			\$	7,729,032
DW19-084 Operating Expense Revenue Requirement	\$	21,296,618	(1) \$	416,593	\$ 21,713,211 \$	155,083 (4	4) \$	21,868,294	\$	202,809	(4) \$	22,071,103	(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 \$	350,958 (5	5) \$	7,381,877	\$	526,910	\$	7,908,787	\$	628,441	\$	8,537,227	\$	603,602	\$	9,140,829
Principal and Interest Coverage Requirement		1.10	(3)		1.10			1.10				1.10				1.10				1.10
DW19-084 Principal and Interest Revenue Requirement	\$	6,794,124			\$ 7,734,011		\$	8,120,065			\$	8,699,665			\$	9,390,950			\$	10,054,912
DW19-084 Revenue Requirement	\$	35,819,774			\$ 37,176,254		\$	37,717,391			\$	38,499,800			\$	39,481,494			\$	40,402,568
DW19-084 Revenue Requirement less Other Revenues	\$	35,399,062	(12)		\$ 36,755,541		\$	37,296,678			\$	38,079,088			\$	39,060,782			s	39,981,856
DW19-084 Revenue Requirement less Other Revenues less Fixed Special Contract Revenues	\$	34,792,618	(8)		\$ 36,149,098		\$	36,690,235	(8)		\$	37,472,645	(8)		\$	38,454,338			\$	39,375,412
Percent QCPAC Surcharge (9)					3.90%			1.56%				2.25%				2.82%				2.65%
Cumulative QCPAC Surcharge (13)					3.90%			5.45%				7.70%				10.52%				13.17%
Cumulative QCPAC monthly increase in average single family residential bill.					\$ 2.17		\$	3.04			\$	4.29			\$	5.86			\$	7.73
Average monthly single family residential bill with QCPAC.	\$	55.65			\$ 57.82		Ş	58.69			\$	59.94			\$	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 # (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 from the 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 approved 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 n Annual Fixed C		32,800 d with interest rate of	Milfor 3.38% \$	rd Annual Fixed Chg 420,712	s	4.50% fo	or 2021 through	d with a projected 2023 Capital Exper uual Fixed Chg		f funding is via an S 371,430	RF/DWGTF fin		ased on a bond \$	i issuance in April 202 121,213	:1			

Impact on Single Family Residential Home:

	DW19-084
S	24.34
	7.77
\$	4.03
\$	55.65
	\$ \$ \$

													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 Yes	\$ 233 \$ 257 \$ 17,321 \$ 51,988 \$ 79,258	Nashua Nashua Nashua Nashua Nashua Nashua	Yes Yes No 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 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 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 \$ 24,800 \$ 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	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 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 \$ 8,206 \$ 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 - \$ - \$	\$ 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	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 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 \$ 8,206 \$ 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	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 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 \$ 26.2	\$ 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 \$ 27.0	\$ 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 \$ 26 569 \$ 278 \$ 458 \$ 458 \$ 458 \$ 458 \$ 458 \$ 569 \$ 578 \$ 578	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
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 - Nutt St - Final Cleanup City of Nashua Paving - Cheshire St - Final Cleanup City of Nashua Paving - Main St. 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 - Green 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 Merrimack River Intake Asset Management Outside GIS Consulting Services Asset Management Trimble R2 Units WAM/Synengen Upgrade Cost & Functionality Study	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 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. Paving only - Carry over from 2017. Year Round Raw Water Intake from Merrimack River. Outside GIS Consulting Services Water Modeling Consulting Trimble R2 Units WAM/Synergen Upgrade Cost & Functionality Study	1906988 1901942 1915006 1908316 1908317 1702842,1907682 1908353 1915974 1900348,1915859 1702875,1915858 1915844 1915845 1915843 1702870,1915842 1502180,1601369,1701489,1807360,1901612,1908505 1900414 1900414 1900414 1900568,1910219	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 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 2/2/2018 2/2/2018	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 20,209 \$ 233 \$ 257 \$ 17,900 \$ 58,580 \$ 95,000 \$ 13,000 \$ 11,400 \$ 215,100 \$ 24,850 \$ 24,850 \$ 25,900 \$ 19,500 \$ 19,500 \$ 6,600,000 \$ 6,000,000 \$ 36,000 \$ 36,	No No No No No No No No	\$ 233 \$ 257 \$ 17,321 \$ 51,988 \$ 6,549 \$ 486 \$ 174,754 \$ 18,316 \$ 37,084 \$ 21,689 \$ 10,670 \$ 10,700 \$ 10,	Nashua Various Various Various Various	Yes Yes Yes No Yes	\$ 26.23 \$ 27.02 \$ 27.0	\$ 6 \$ 7 \$ - \$ 1,364 \$ 2,079 \$ 172 \$ 13 \$ 4,584 \$ 37 \$ 480 \$ 973 \$ 234 \$ 569 \$ 278 \$ 440 \$ 234 \$ 5 - \$ 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 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 pro
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 1702870, 1915842 1502180, 1601369, 1701489, 1807360, 1901612, 1908505 1900414 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 \$ 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 \$ - \$ 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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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 - Simon St at Will St Upgrade Gity of Nashua Paving - Lowell 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 - Green St - Carry over from 2017 Gity of Nashua Paving - Ferrace St - Carry over from 2017 Gity of Nashua Paving - Ferrace 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 Ixannual revenue 2019 Ford Escape Bower Dam reconstruction and engineering	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. 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 Replace Totaled 2015 Ford Escape Bower Dam reconstruction and engineering	1906988 1901942 1915006 1908316 1908317 1702842, 1907682 1908353 1915974 1900348, 1915859 1702875, 1915858 1915844 1915845 1915845 1702870, 1915842 1502180, 1601369, 1701489, 1807360, 1901612, 1908505 1900414 1900414 1900414 1900414 1900414 1907481 1824545, 1900432	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 \$ 6,600,000 \$ 6,600,000 \$ 36,000 \$ 36,000 \$ 14,000 \$ 23,998 \$ 23,998 \$ 23,998	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 Various Various Various Various Merrimack	Yes Yes Yes No Yes	\$ 26.23 \$ 27.02 \$ 27.0	\$ 6 \$ 7 \$ 7 \$ 1,364 \$ 2,079 \$ 172 \$ 13 \$ 4,584 \$ 37 \$ 480 \$ 973 \$ 234 \$ 569 \$ 278 \$ 440 \$ 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 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 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	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 S	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 \$		-
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		\$ -	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

PWW QCPAC Filing Exhibit DLW-1 Page 3

Revised 11/15/2021 Kessler Farm funding corrected in totals																
												1				
Paris a Name / Description	1	1	Docket N	NUMBER Order No.		Board Approved	I QCPAC	Cost as of	Estimated Project Cost as of 9/30/2020	Cost as of	Final Project cost		Tavable	2020 Tax	QCPAC Eligible Property Tax Expense	
Project Name/Description New Services (10)	Project Description Single Family, Owner Build, New Homes	Work Order # 20 workorders	Financing Docket No. DW17-183	No. NHPUC Order No. 26,101	Date of NHPUC Order 2/2/2018	der 2020 Capex Budget	et Eligible? Yes	6/30/2020 \$ 25,000 \$	9/30/2020 \$ 25.000	11/30/2020	as of 12/31/2020	-	Taxable Yes	Rate (1)	Expense \$ 1.045	Explanation for Change/Addition/Deletion from Board Approved 2020 Capex Budget 45 6 new services through 12/31/20.
Renewed Services (20)	Replacement of failed services.	workorders	DW17-183	26,101	2/2/2018	\$ 110,000) Yes	\$ 60,000 \$	\$ 75,000	00 \$ 68,052	52 \$ 68,052	Various	Yes	\$ 28.45 \$	\$ 1,936	36 19 Renewed Services Installed through 12/31/2020.
Hydrants (10) Gates (10)	Replacement of non-functional hydrants (Run rate) (8 YTD) Replacement of Failed Gate Valves	30 & 31 workorders 12 & 13 workorders	s DW17-183 s DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 60,000 \$ 40,000		\$ 44,000 \$ \$ 40,000 \$					Yes Yes	\$ 28.45 \$ \$ 28.45 \$		78 9 Hydrants Repaired/Replaced through 12/31/2020. 29 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 \$	\$ 50,000	00 \$ 51,000	00 \$ 50,832	Various	Yes	\$ 28.45 \$	\$ 1,446	46 498 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	\$ 55,300 \$	\$ 91,000	96,000	00 \$ 94,393		Yes Yes	\$ 28.45 \$ \$ 28.45 \$		66 1 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	Total included in row above. 1
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		\$ 70,000 \$				Merrimack	No	\$ 28.52 \$	\$ -	Į,
Replacement Utility Truck Replacement Utility Truck	Replacment 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	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 70,000 \$ 70,000		\$ 70,000 \$ \$ 70,000 \$					No No	\$ 28.52 \$ \$ 28.52 \$	j - '	<u> </u>
Replacement Utility Truck Valve Turner & Vac Truck	Replacement for #4- 2010 Ford t-350, 140K miles Does not pass inspection. Replacemnt for #60 - 14 Year Vac Trailer w/excessive rot, will not pass inspection.	2006389 n/a	DW17-183 DW17-183	26,101	2/2/2018	\$ 70,000 \$ 160,000		\$ /0,000 <u>c</u>	\$ <u>-</u>	\$ 1,000 s	\$ 00,722	Merrimack Merrimack	No No	\$ 28.52 \$ \$ 28.52 \$	· · · · · · · · · · · · · · · · · · ·	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 \$		00 \$ 140,000	00 \$ 79,206	Merrimack	No	\$ 28.52 \$	\$ -	Deferred until 2020.
Locker Room Benches @ Distribution Facility Locker Room Deep Wash Sinks	Permanent Benches for Male & Female locker rooms. Deep stainless wash sinks to replace existing sinks in male & female locker rooms.	n/a	DW17-183 DW17-183	26,101 26,101	2/2/2018	\$ 7,500 \$ 7,500		\$ 7,500 \$		\$ -	\leftarrow	Merrimack	100	\$ 28.52 \$		Defered until 2021 due to COVID19 delays. Defered until 2021 due to COVID19 delays.
Locker Room Deep Wash Sinks Office Space for Const & Maint Supervisor	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		\$ 7,500 \$ \$ 12,000 \$,	- ,	++	Merrimack Merrimack	Yes Yes	\$ 28.52 \$ \$ 28.52 \$		Deferred until 2021 due to COVID19 delays. Deferred until 2020 due to COVID19 delays.
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			Merrimack	Yes	\$ 28.52 \$	\$ 438	38
Automatic Entrance Gate @ Distribution Facility	Replace manual gate @ Distribution facility with automatic gate.	2000718	750217 103	0.1 DSRR 26.101	2/2/2019	\$ 10,000		\$ 10,000 \$,,,,,,		\$ 3,083		Yes	\$ 28.52 \$		88 Work delayed on long range gate reader until 2021, due to COVID19.
Emergency Gas Detection Meters Emergency Gas Detection Meters	Emergency Gas Detection Meters Emergency Gas Detection Meters	2006033 2006033	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ - J	Yes Yes	\$ - 5	\$ 10,411 \$ 10.411			 	Yes No	\$ 28.52 \$ \$ 28.52 \$		Programme Replace existing failed tritector. Replace existing failed tritector.
Emergency Gas Detection Meters Buyout Lease of HP T2530PS Large Format Printer (OPS)	Emergency Gas Detection Meters Buyout Lease of HP T2530PS Large Format Printer (OPS).	2006033 2008268	DW17-183 DW17-183	26,101	2/2/2018	\s\	Yes Yes	\$	· \$	\$ 10,411 \$ 6,994				\$ 28.52 \$ \$ 28.52 \$		Replace exsisting failed tritector.
West Hollis Street Check Valve Pit	Install at the intersection of W. Hollis St and Panther Dr.	n/a	DW17-183	26,101	2/2/2018	\$ 88,000) Yes	\$ - \$	\$ -	\$ -		Nashua	Yes	\$ 27.13 \$	\$ -	Deferred
NWS Improvements - Manchester Street NWS Improvements - Deerwood Dr. Northwest Blvd Loop	Install 1700 LF of 24 inch DI and new Fencing. Add 3400 LF of 20 inch HDPE including RR pipe jacking.	2000383 2000386	+	DWGTF DWGTF		\$ 125,000 \$ 40,000		\$ 140,000 \$ \$ 25,000 \$,				Yes Yes	\$ 27.13 \$ \$ 27.13 \$	\$ 2,308 \$ 531	
NWS Improvements - Deerwood Dr. Northwest Blvd Loop NWS Improvements Veteran's Rd/Route 101A Loop	Add 2200 LF of 20 men HDPL including RR pipe jacking. Add 2200 LF of 12 inch DIPCL to close two loop major dead ends.	2000384		DWGTF		\$ 40,000 \$ 125,000		\$ 25,000 \$ \$ 125,000 \$			7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	- 1110111111	Yes	\$ 27.13 \$ \$ 27.13 \$		**
NWS Improvements Tinker Road Paving and restoration	NWS Improvements Tinker Road Paving and restoration.	2000385		DWGTF	2/2/2019	\$ 125,000) Yes	\$ 32,000 \$	\$ 32,000	00 \$ 126,000		Nashua	Yes	\$ 27.13 \$	\$ 3,404	04
Simon & Will Street - Paving Garden Street - Final Paving	Simon & Will Street - Paving Garden Street - Final Paving	2000387 2000388	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 30,000 \$ 18,000		\$ 30,000 \$ \$ 18,000 \$			++	Nashua Nashua		\$ 27.13 \$ \$ 27.13 \$		Deferred Deferred
City of Nashua Sewer - Lake Street	Replace 2950 LF of 6 inch CI with 12 inch DIPCL (Paving).	2000368	DW17-183	26,101	2/2/2018	\$ 30,000		\$ 30,000 \$			\$ 10,589		Yes	\$ 27.13 \$		
Merrimack River Intake	Year Round Raw Water Intake from Merrimack River	2000380	DWGTF Financing DW19-026	26,247	5/3/2019	\$ 140,375	5 Yes	\$ 192,109 \$	\$ 192,109	9 \$ 192,109	9 \$ 140,375	Merrimack	Yes	\$ 28.52 S	\$ 4003	Amount of MRI raw water intake funds still avialable from DWGTF.
Merrimack River Intake	Year Round Raw Water Intake from Merrimack River	2000380	DW19-026 DW17-183	26,101	2/2/2018	\$ 221,625	Yes 5 Yes	\$ 247,891 \$	\$ 260,000				Yes	\$ 28.52 \$ \$ 28.52 \$	9 1,000	22 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	\$ 221,025		\$ 247,891 \$	\$ 200,600	,			Yes	\$ 27.13 \$		22 Project cost increased by \$50,000 to develop source water Protection plan required by NYIDES. Budget to be increased as 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 USEPA.	2002053	DW17-183	26,101	2/2/2018	\$ 120,000) Yes	\$ 120,000 \$	\$ 120,000				No	\$ 28.45 \$	s -	
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 CL with 1140 LF of 8 inch DIPCL.	1900414, 2000362 1502511, 2003423	DW17-183 DW17-183	26,101 26,101	2/2/2018	\$ 40,000 \$ 380,000		\$ 40,000 \$ \$ 274,000 \$,				Yes Yes	\$ 28.52 \$ \$ 27.13 \$	\$ 1,610 \$ 6,975	
Brook Street (Lake St Area PH2) Hamilton Street (Lake St Area PH2)	Replace 225 LF of 4 inch and 915 LF of 6 inch CI with 1140 LF of 8 inch DIPCL. Replace 410 LF of 6 inch CI with 4 inch DIPCL.	1502512, 2003422	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 380,000 \$ 87,000		\$ 274,000 \$ \$ 63,000 \$	\$ 142,000	00 \$ 137,000			Yes Yes	\$ 27.13 \$ \$ 27.13 \$		75 Restoration work slated for 2021 was completed in 2020. 20
Burritt Street (Lake St Area PH2)	Replace 425 LF of 4 inch CI with 8 inch DIPCL.	1502513, 2003420	DW17-183	26,101	2/2/2018	\$ 141,000) Yes	\$ 95,000 \$	\$ 108,700	00 \$ 146,800		Nashua	Yes	\$ 27.13 \$		55
Burritt Street (Lake St Area PH2) Verona Street (Lake St Area PH2)	Replace 125 LF of 4 inch CI with 4 inch DIPCL. Replace 675 LF of 6 inch CI with 8 inch DIPCL.	n/a 2007542	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 38,000 \$ 226,000	Yes Yes	\$ 27,000 \$ \$ 162,000 \$			00 \$ 182,847	Nashua Nashua	Yes Yes	\$ 27.13 \$ \$ 27.13 \$	4,96	Included in row above. 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 DW17-183	26,101	2/2/2018	\$ 226,000		\$ 62,000 \$				Nashua	Yes	\$ 27.13 \$		Required the use of temporary main that was not finding part of the arrange.
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	50 \$ 146,000	00 \$ 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	Replaced 4 MG painted steel water tank with 4 MG prestressed, precast water tank.	2000379		0.1 DSRR		\$ 3,388,000		\$ 60,000 \$	·				No	\$ 27.13 \$, <u>\$</u>	Design only. Construction deferred until 2021.
Replace Engineering Pickup	2020 Ford Escape SE - Replace Vehicle #101	2006652 2006755	DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 35,000 \$ 30,000		\$ 35,000 \$					No No	\$ 28.52 \$		
Replace Engineering SUV #34 Investment in developer installed services at 1xannual revenue	2020 Ford Escape SE - Replace Vehicle #401 Per tariff	2006755 n/a	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 30,000 \$ 60,000		\$ 30,000 \$ \$ 84,000 \$	20,171				No Yes	\$ 28.52 \$ \$ 28.45 \$		65 136 Developer Installed Services through 12/31/2020.
Asset Management Trimble R2 Units	Add two new GPS units for additional staff.	n/a 2003535	DW17-183	26,101	2/2/2018	\$ 60,000 \$ 24,000		\$ 84,000 \$ \$ 24,000 \$					No Yes	\$ 28.45 \$	· \$	150 Developer instance Services through 12/31/2020.
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		\$ 360,000 \$					Yes		, 	Added Pump Station roof hatches and roofing to facilitate pump replacement in the future. Bid price received for new pump was higher than anticipated. Added Electrical system upgrades for code and redundency. There will be an additional \$140,000 of expenditures to complete this project in 2021.
	250 F 64 2 CL 200 F - 61 4 / 4 insh CL with 150 F of 4" DVC	+	TSW/17 183	26 101	2/2/2018	+	V _{PS}	44 700	33.60	39.00	+	*Tlava	1 V.e	\$ 28.52 \$ \$ 27.13 \$,	sexpenditures to complete this project in 2021. M. Added due to Kneeler Form Took deform to 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	\$ - e _	Yes Yes	\$ 44,700 \$ \$ 8,000 \$	\$ 33,600 \$ 15,000		_	Nashua Nashua	Yes Yes	\$ 27.13 \$ \$ 27.13 \$		Added due to Kessler Farm Tank deferral to 2021. Added due to Kessler Farm Tank deferral to 2021.
Crescent Street (paving contribution) School Street	Replace 250 LF of 4 inch CI and 96 LF of 1 1/4 inch CL with 150 LF of 4" PVC. Replace 400 LF of 4 inch CI with 680lf of 6 inch DIPCL (creates a looped system).	2003533	DW17-183 DW17-183	26,101	2/2/2018	S	Yes	\$ 8,000 \$ \$ 244,000 \$				- 1110111111	Yes Yes	\$ 27.13 \$ \$ 27.13 \$		Added due to Kessler Farm Tank deternal 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	\$ -	Yes	\$ 40,000 \$	\$ 93,950	50 \$ 92,900	00 \$ 80,801	Nashua	Yes	\$ 27.13 \$	\$ 2,192	92 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 \$					100	\$ 27.13 \$		52 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	26,101 26,101	2/2/2018 2/2/2018	\$ - I	Yes	\$ 102,000 \$					Yes	\$ 27.13 \$		69 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.	2007557 2007541	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ - e -	Yes Yes	\$ 60,000 \$ \$ - \$	\$ 60,000 \$ -	00 \$ 20,000 \$ 31,500		Nashua Nashua	Yes Yes	\$ 27.13 \$ \$ 27.13 \$		Added due to Kessler Farm Tank deferral to 2021. 7 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				Yes	\$ 27.13 \$		of Intersection work associated with Sarasota and Manatee projects. 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	ļ ,		\$ 70,000 \$								
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 \$		29 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.
Walnut St (paving contribution) Coburn Woods (all side streets)	Replace 4400 LF of 2 inch PVC with 4 inch DIPCL.	2002685	DW17-183	26,101	2/2/2018	\s\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Yes Yes	\$ 20,000 \$		00 \$ 118,000	u)	Nashua	Yes Yes			Added due to Kessler Farm Tank deferral to 2021. The majority of this project will be occurring in 2021 due to later than
Pennichuck Brook Ponds Aerial Survey	Pennichuck Brook Ponds Aerial Survey	2002085	DW17-183	26,101	2/2/2018		Yes	1,	\$ 21,700				No	\$ 27.13 \$ \$ 27.13 \$	j - '	expected bid opening. Drouight response. Survey of exposed bottow of Harris and Bowers Pond.
Pennichuck Brook Ponds Aerial Survey Upgrade SCADA historian software, new hardware	Pennichuck Brook Ponds Aerial Survey Upgrade SCADA historian software, new hardware.	2006039	DW17-183 DW17-183	26,101 26,101	2/2/2018	\$ - \$ 65,000		\$ - \$ \$ 65,000 \$					No Yes	\$ 27.13 \$ \$ 27.13 \$		- · · · · · · · · · · · · · · · · · · ·
Bowers Dam LOD response engineering	Bowers Dam LOD response engineering	1901734, 1907078, 2000373		0.1 DSRR		\$ 10,000		\$ 65,000 \$	Í			Nashua/Merrimack		\$ 27.83 \$		Bowers Dam LOD response engineering
Bowers Dam LOD response engineering Harris LOD response engineering	Bowers Dam LOD response engineering Harris LOD response engineering	2000373 1907076, 2000375	+	0.1 DSRR		\$ 10,000 \$ 20,000		\$ 10,000 \$ \$ 20,000 \$,			Nashua/Merrimack Nashua/Merrimack		\$ 27.83 \$	\$ -	Bowers Dam LOD response engineering Deferred
Supply Pond LOD response engineering	Supply Pond LOD response engineering	1907077, 2000374		0.1 DSRR		\$ 32,000		\$ 32,000 \$				Nashua/Merrimack		\$ 27.83 \$		Deferred
Rebuild Pump 1, Northwest, Nashua	Final costs for reinstallation and alignment.	1619402, 1701898,	DW/17 192	26,101	2/2/2018	\$ 5,000		\$ 53,457 \$					Yes	\$ 27.13 \$		Previous Year work was instrumental in the completion of the rebuild of NW Pump #1, remaining \$50,000 for the rebuild of
New Vehicle for WS electrician	Final costs for fit up of new truck purchased in 2019.	1918550, 2000438 2000437	DW17-183	26,101	2/2/2018	\$ 3,000		\$ 3,000 \$	· ·				No	\$ 27.13 \$ \$ 27.13 \$		50 NWS Pump #2. See row 94 below.
						1		Ť	,							During 2020, PWW used 47,341 MSDC gallons beyond what had been purchased. 3,450 of the MSDC gallons were purchased
MSDC payment to MWW	MSDC payment for MSDC gallons beyond that currently purchased.	2009023	DW17-183	26,101	2/2/2018	\$ - J	Yes	\$ - \$	- 1	\$ 166,346	46 \$ 166,347	Various	No	\$ 28.45	\$ -	During 2020, I'WW used 41,341 MSDC, gallons beyond what had been purchased. 3,430 of the MSDC gallons were purchased with cash collected via MSDC tariff. The remaining 43,891 gallons were used by existing customers.
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild	60, 61, 62 & 63 workorders	DW17-183	26,101	2/2/2018	\$ 40,000	Yes	\$ 40,000 \$	\$ 35,000	00 \$ 25,000	00 \$ 33,239	Various	Yes	\$ 28.45 \$	ie 9d	46 9 Booster Pumps Repaired/Replaced through 11/30/2020. 1 additional rebuilds projected by end of year.
Booster Pump replacement/rebuild Booster Pump replacement/rebuild	Booster Pump replacement/rebuild Replace Booster #1, Donald Street	2008275	DW17-183	26,101	2/2/2018	s	Yes Yes	\$ 70,000		\$ 25,000			Yes	\$ 24.62 \$	\$ 946 \$ 131	
Booster Pump replacement/rebuild	WTP Intermediate pump #2 electric motor rebuild	2007216	DW17-183	26,101	2/2/2018	<u>s</u> ,	Yes	şş	\$ 12,644	,			Yes	\$ 27.13 \$	4	v ·
Well Pump replacements	Well Pump replacements	60, 61, 62 & 63 workorders	DW17-183	26,101	2/2/2018	\$ 15,000) Yes	\$ 10,000 \$, s	\$ 5,025	25 \$ 15,160	Various	Yes	\$ 28.45 S		2 well pumps repaired/replaced through 12/31/20.
		60, 61, 62 & 63	DW17-183	26,101	2/2/2018			1757		100	1	1	+	\$ 28.45	\$ 451	01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Chemical Feed pump replacements	Chemical Feed pump replacements	workorders	DW17-183	· ·		\$ 10,000		\$ 6,757 \$	\$ 3,500				Yes	\$		41 3 Chemical Pumps Repaired/Replaced through 12/31/2020.
Chemical Feed pump replacements Harris Dam raise earthen embankment, raise dike wall	Rebuild Ferric Feed Pumps 2 & 3 Harris Dam raise earthen embankment, raise dike wall.	2002269 n/a	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ - \$ 965,000	Yes Yes	\$ 3,243 \$ \$ - \$	\$ 3,243 \$ -	\$ 3,243 \$ -		Various Nashua/Merrimack	Yes k Yes	\$ 28.45 \$ \$ 27.83 \$		01 Deferred until 2021, Engineering services in 2020, See Row 72.
Misc. Structural Improvements	Misc. Structural Improvements	n/a n/a	DW17-183	26,101	2/2/2018	\$ 965,000 \$ 20,000		\$ - \$ \$ 16,700 \$. \$ <u>-</u>	\$	<u> </u>	Various		\$ 27.83 \$		Deferred until 2021, Engineering services in 2020, see Now 12.
Misc. Structural Improvements	Replace Fire Alarm System Control Boards - Damaged by Lightning Strike.	2006032	DW17-183	26,101	2/2/2018	s	Yes	\$ - \$	\$ 15,120	20 \$ 15,120	20 \$ 14,242		Yes	\$ 27.13 \$		A6
					-					-						

Pennichuck Water Works, Inc.
DW 21-023
2020 used and useful QCP's
2/11/2021
Revised 5/26/2021 per Staff Tech Session DR, Revised 7/20/2021 Staff DR1
Revised 11/15/2021 Kessler Farm funding corrected in totals

						Board Approved	QCPAC	Estimated Project Cost as of	Estimated Project Cost as of	Estimated Project	Final Project cost			2020 Tax	QCPAC Eligible Property Tax
Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	2020 Capex Budget	Eligible?	6/30/2020	9/30/2020	11/30/2020	as of 12/31/2020	Community	Taxable	Rate (1)	Expense Explanation for Change/Addition/Deletion from Board Approved 2020 Capex Budget
*	Replace Maple Haven Pump Station Rood.	2008269	DW17-183	26,101	2/2/2018		Yes	\$ -	\$ -	\$ 4,235	\$ 5,170	Derry	Yes	\$ 29.06	9 130
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased	n/a 2003515	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 17,500	Yes	\$ 8,437 \$ 3,300			\$ 3,287	Nashua Nashua	Yes	\$ 27.13 \$ 27.13	
	Replace Sewage Ejection Pump, Snow Station WTP Replace Filter-to-Waste Valve	2003515 1918552	DW17-183 DW17-183	26,101	2/2/2018	\$ - \$	Yes	\$ 3,300 \$ 2,353				Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13	
	Replace Sludge Pump #2, WTP.	2004525	DW17-183	26,101	2/2/2018	s -	Yes	\$ 3,410				Various	Yes	\$ 28.52	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	n/a	DW17-183	26,101	2/2/2018	\$ 30,000	Yes	\$ 8,500			Ĺ	Various		\$ 28.52	\$ -
, , , , , , , , , , , , , , , , , , , ,	Replace VFD, Pump #3 - High Pines Booster	2003512	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 9,500	4 .,,,,,			Nashua	Yes	\$ 27.13	
Miscellaneous SCADA/Electrical	Install cellular SCADA device, HI and LO, Derry.	2004180	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 2,500					Yes	\$ 27.02	
Miscellaneous SCADA/Electrical Miscellaneous SCADA/Electrical	SCADA control system, Powder Hill, Donald St. Replace Intermediate Pump 3, VFD at WTP.	2004989	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ -	Yes	\$ 9,500	\$ 9,500	\$ 9,500 \$ 5,500	1	Bedford Nashua	Yes Yes	\$ 27.02 \$ 27.13	
· · · · · · · · · · · · · · · · · · ·	Rebuild NWS booster pump #2.	2003120	DW17-183	26,101	2/2/2018	\$ 40,000	Yes	s -	\$ 50,000			Nashua	Yes	\$ 27.13	
	WTP Structural/HVAC	n/a	DW17-183	26,101	2/2/2018	\$ 10,000	Yes	\$ 10,000		,	10,101	Nashua	Yes	\$ 27.13	
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		Nashua	Yes	\$ 27.13	ş -
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	\$ -
1	Replace Vehicle 200	2007616	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 40,000	Yes	\$ 40,000				Nashua	No	\$ 27.13	
Replace Vehicle 201 Replace Vehicle 63	Replace Vehicle 201 Replace Vehicle 63	2004137 n/a	DW17-183 DW17-183	26,101	2/2/2018	\$ 55,000 \$ 40,000	Yes	\$ 55,000 \$ 40,000		\$ 55,000	\$ 53,062	Nashua Nashua	No No	\$ 27.13 \$ 27.13	
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	\$ - 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	\$ 495,331	Nashua	Yes	\$ 27.13	
	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	
1	SCADA PLC Replacements	n/a	DW17-183	26,101	2/2/2018	\$ 75,000	Yes	\$ 75,000	1	\$ -		Nashua	Yes	\$ 27.13	
	Replace 2 Hach Turbidimeters and associated control module. Rebuild Merrimack River pump #2.	2007545 2008305	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 10,000	Yes	\$ 10,000	\$ 18,000		1 -	Nashua	Yes	\$ 27.13	
Rebuild Merrimack River pump #2 Supply Pond Dam Modifications per NHDES LOD	Engineering, Permitting, Design Services	2008305	DW1/-103	0.1 DSRR	2/2/2010	s -	Yes	S	s -	\$ 93,100 \$ 69,000	\$ 93,090	Merrimack Merrimack/Nashua	Yes No	\$ 28.86 \$ 27.55	
Harris Dam Raise Earthen Embankment, Dike wall	Engineering, Permitting, Design Services	2008271		0.1 DSRR		\$ -	No	s -	s -	\$ 90,000		Merrimack/Nashua		\$ 27.55	
Munis FER Enhancements	Munis FER Enhancements	n/a	DW17-183	26,101	2/2/2018	\$ 35,000	Yes	\$ 35,000	\$ 35,000			Merrimack	No	\$ 28.52	
	Misc Hardware	n/a	DW17-183	26,101	2/2/2018	\$ 20,000	Yes	\$ 6,945		. , , , , , ,		Merrimack	No	\$ 28.52	
Misc Hardware	Laptop Purchase for Regulatory Department - JK	2001987	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 1,660	, , , , , , , , , , , , , , , , , , , ,		,	Merrimack	No	\$ 28.52	
Misc Hardware Misc Hardware	Laptop Purchase for Regulatory Department - CAH	2002761	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ -	Yes Yes	\$ 1,400 \$ 9,995				Merrimack Merrimack	No No	\$ 28.52 \$ 28.52	
Misc Hardware Misc Hardware	Laptop Purchase for onboarding employees (5) Laptop Purchase for New Employee C. Harding	2002930	DW17-183	26,101	2/2/2018	\$ - \$ -	Yes	\$ 9,995	\$ 9,995 \$ 2,491			Merrimack	No No	\$ 28.52 \$ 28.52	
Misc Hardware	Spare Laptop Purchase	2005238	DW17-183	26,101	2/2/2018	\$ -	Yes	s -	\$ 1,005			Merrimack	No	\$ 28.52	
	New Laptop for Accounting new hire - Payroll Admin	2006388	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ -	\$ 1,160	\$ 1,160	\$ 1,160	Merrimack	No	\$ 28.52	·
Misc Software	Misc Software	n/a	DW17-183	26,101	2/2/2018	\$ 12,000	Yes	\$ 2,880		\$ -		Merrimack	No	\$ 28.52	
	Macola Development Environment for testing upgrade.	2002276	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 5,280				Merrimack	No	\$ 28.52	
Misc Software Misc Software	Tyler Notify MSL Server License for Munis Upgrade	2003317 2005976	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	S -	Yes	\$ 3,840	\$ 3,840 \$ 6,350	,		Merrimack Merrimack	No No	\$ 28.52 \$ 28.52	' ·
	Website upgrades	n/a	DW17-183	26,101	2/2/2018	\$ 8,000	Yes	\$ 8,000		\$ 0,550 \$ -		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	s -
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	s -
Storage Replacement for PS6110 Array	Nimble addon shelf – 33tb usable	2003425	DW17-183	26,101	2/2/2018	\$ 57,000	Yes	\$ 30,000			<u> </u>	Merrimack	No	\$ 28.52	
	Backup documents stored in the cloud within Office 365.	n/a	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 2,000	Yes	\$ -	\$ 2,000 \$ 1,300			Merrimack	No No	\$ 28.52	
Client Remote Control Software	5 licenses	n/a				\$ 1,300	Yes	3 -	g 1,300	ş 1,300	1	Merrimack	No	\$ 28.52	
CMMS replacment project	Replace Synergen/WAM with newer more cost effective/improved functionality system.	2000368	DW17-183	26,101	2/2/2018	\$ 600,000	Yes	\$ 600,000	\$ 600,000	\$ 450,000	\$ 433,263	Nashua	Yes	\$ 27.13	\$ 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	\$ 140,000	\$ 610,337	Nashua	Yes	\$ 27.13	
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 system. 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	s 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	
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	
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	
Lemon Street, Final Restoration	2020 Carryover Costs	2000693	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 1,500	\$ 1,500			Nashua	Yes	\$ 27.13	\$ 41 Not included in approved 2020 Budget.
	2020 Carryover Costs	2000694	DW17-183	26,101	2/2/2018	S -	Yes	\$ 2,500			1	Nashua	Yes	\$ 27.13	
-	2020 Carryover Costs	2000695	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 12,750	\$ 12,750			Nashua	Yes	\$ 27.13	
	Paid out in 2020 on retainage held on 2019 projects. Held on various projects listed above. Will be paid out in 2021.	N/A N/A	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	5 - S	Yes Yes	\$ -	5 -	\$ 162,383 \$ (54,805)		Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13	
	Interest accrued on PWW FALOC from 5/1/2020 to 4/1/2021.	- 1/ 21	DW17-183	26,101	2/2/2018	s -	Yes	s -	s -	\$ (54,805)		Various		\$ 27.13 \$ 28.45	
	2020 Carryover Costs	2000696	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 21,750	\$ 21,750			Nashua	Yes	\$ 27.13	
	2020 Carryover Costs	2000697	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 1,500			\$ 1,500	Nashua		\$ 27.13	\$ 41 Not included in approved 2020 Budget.
	New Drum Hand Truck	2003534	DW17-183	26,101	2/2/2018	\$ -	Yes				\$ 1,383	Nashua	Yes	\$ 27.13	
Replace Sludge Discharge Pump #1	Replace Sludge Discharge Pump #1 M-Scopes & Metal Detectors	2100054 2100055	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	S -	Yes	1	+		\$ 3,522 \$ 9,910	Nashua Nashua		\$ 27.13 \$ 27.13	
		1806837, 1917427		0.1 DSRR	2/2/2010	s -	Yes				\$ 9,910	Nashua Nashua	Yes No	\$ 27.13 \$ 27.13	
			nnichuck Water Works Project		ital Expenditure Budget -	\$ 9,995,700		\$ 6,957,314	\$ 6,512,773	\$ 6,867,809					
				0.1 DSR	R Funded project Total -	s 229,300		\$ 344,800	\$ 344.800	s 493,800	s 849 428				

PWW QCPAC Filing Exhibit DLW-1 Page 3

			0.1 DSRR Funded project	ct Total - \$	229,300	\$	344,800	\$	344,800	\$	493,800	\$	849,428
		Tot	al Projected PWW QCPAC Capex for	or 2020 - \$	9,766,400	\$	6,612,514	\$	6,167,973	\$	6,374,009	\$	6,094,326
		Total Projected PWW (QCPAC Capex for 2020 funded with	Bonds - \$	9,211,025	\$	6,098,405	\$	5,653,864	\$	5,826,400	\$	5,598,292
		Amount funded by I	DWGTF Northwest System Improve	ements - \$	415,000	\$	322,000	\$	322,000	\$	355,500	\$	355,660
		Amount fu	nded by DWGTF Merrimack River	Intake - \$	140,375	\$	192,109	\$	192,109	\$	192,109	\$	140,375
		Project Ann	nual P&I on 2020 QCPAC eligible P	rojects - \$	564,236	\$	381,198	\$	355,313	\$	367,004	\$	350,958
ed Bond Terms (Bonds to be sold in April 2021) -	30	Years @	4.056692%	\$	536,347	\$	355,103	s	329,218	ş	339,264	ş	325,982
Merrimack River Intake DWGTF Terms -	30	Years @	3.38%	\$	7,518	\$	10,289	S	10,289	\$	10,289	S	7,518
orthwest System Improvements DWGTF Terms -	30	Years (a)	2.704%	S	20,371	S	15,806	S	15,806	S	17,450	S	17,458

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

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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		Financing Docket		Date of NHPUC	Annuared		Estimated Project	Estimated Project Cost as of				QCPAC Eligible Property Tax	
Project Name/Description	Work Order #	No.	NHPUC Order No.	Order	Approved 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
Foreman Truck	2107517		0.1 DSRR		\$ 61,000	No	\$ 61,000		Merrimack	No	\$ 28.52	•	
2021 New Services (10)	Routine	DW20-157	26,459	3/2/2021	\$ 50,000	Yes	\$ 80,000	-	Various	Yes	\$ 28.45		9 New Services installed through 09/30/21, projecting 2 more
2021 Renewed Services (20)	Routine	DW20-157	26,459		\$ 110,000	Yes	\$ 60,000		Various	Yes	\$ 28.45		14 Renewed Services installed through 09/30/21, projecting 6 more
2021 Hydrants (15)	Routine	DW20-157	26,459	3/2/2021	\$ 90,000	Yes	\$ 60,000	1,	Various	Yes	\$ 28.45		3 Hydrant installed/repaired through 09/30/21, projecting 4 more
2021 Gates (10)	Routine	DW20-157	26,459	3/2/2021	\$ 40,000	Yes	\$ 120,000	\$ 120,000	Various	Yes	\$ 28.45		22 Gates installed/repaired through 09/30/21, projecting 6 more
2021 Radios (4250)	Routine	DW20-157	26,459	3/2/2021	\$ 425,000	Yes	\$ 11,000		Various	Yes	\$ 28.45	-	100 Radios installed through 09/30/21 projecting 15 more
2021 Radios (4250) 2021 Meters (Growth) 5/8"-2" - Core & CWS (TBD)	2101626 Routine	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 50,000	Yes Yes	\$ 400,000 \$ 50,000		Various Various	Yes Yes	\$ 28.45 \$ 28.45		785 Radios installed through 09/30/21 projecting 1000 more 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		Merrimack	No	\$ 28.52		2.54 Netters instanced through 657/367/21, projecting 60 more
Replacement Utility Truck	2103609	DW20-157	26,459	3/2/2021	\$ 70,000	Yes	\$ 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		Merrimack	No	\$ 28.45		
Landscape Improvements	NTD	DW20-157	26,459	3/2/2021	\$ 15,000	Yes	\$ 15,000		Merrimack	Yes	\$ 28.45		Deferred until 2022
Replacement Valve/vac trailer Replacement Equipment Trailer	2105021 NTD	DW20-157	26,459	3/2/2021	\$ 65,000 \$ 7,500	Yes Yes	\$ 72,000 \$ 7,500		Merrimack Merrimack	No No	\$ 28.45 \$ 28.45		
Protectus Meter Upgrade	NTD	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 7,500 \$ 22,000	Yes	\$ 7,500		Nashua	Yes	\$ 28.45		
Valve Turner & Vac Truck	2103613	DW20-157	26,459	3/2/2021	\$ 200,000	Yes	\$ 200,000	-	Merrimack	No	\$ 28.52		
Office Space for Const & Maint Supervisor	NTD	DW20-157	26,459	3/2/2021	\$ 15,000	Yes	\$ 15,000	\$ -	Merrimack	Yes	\$ 28.52	-	Deferred until 2022
Locker Room Deep Wash Sinks	NTD	DW20-157	26,459	3/2/2021	\$ 10,000	Yes	\$ 10,000		Merrimack	Yes	\$ 28.52		Deferred until 2022
Locker Room Benches	NTD	DW20-157	26,459	3/2/2021	\$ 7,500	Yes	\$ 7,500	\$ -	Merrimack	Yes	\$ 28.52	\$ -	Deferred until 2022
Distribution Easility Rind Mitigation	2105481	DW20-157	26.450	3/2/2021	\$	Voc	97,000	9 26 250	Manima al-	Voc	9 20 52		Covered equipment storage area with open sides was being invaded by birds for nesting which resulted in
Distribution Facility Bird Mitigation	2103481	DW20-15/	26,459	3/2/2021	ş -	Yes	\$ 27,000	\$ 26,250	Merrimack	Yes	\$ 28.52	S 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	*	
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		Nashua	Yes	\$ 27.13	-	This budget was combined with other Burritt Street budget.
Verona Street	2102534	DW20-157	26,459	3/2/2021	\$ 56,000	Yes	\$ 60,000		Nashua	Yes	\$ 27.13		
Sarasota Ave Merrimack River Pumping Station	2102531 2102256	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 24,000 \$ 140,000	Yes Yes	\$ 18,000 \$ 140,000	\$ 32,730 \$ 140,000	Nashua Merrimack	Yes Yes	\$ 27.13 \$ 28.52		
Kessler Farm Tank Replacement	2101759	DW20-157	26,459	3/2/2021	\$ 4,000,000	Yes	\$ 4,000,000	\$ 4,344,000	Nashua	Yes	\$ 27.13		
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		Project scope reduced to 5 of the 28 side roads do to excavation difficulties
Merrimack River Intake	2101763		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		Nashua	Yes	\$ 27.13		Deferred to 2022 for Projects associated with sewer and other utility replacement
Euclid Avenue Ash Street	NTD 2102530	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 100,000	Yes Yes	\$ 100,000 \$ 30,000		Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13		Deferred to 2022 for Projects associated with sewer and other utility replacement Not included in original board approved budget
Fields Grove Crossing	2102330	DW20-157	0.1 DSRR	3/2/2021	\$ - \$ -	No	\$ 30,000	\$ 20,400	Nashua	No	\$ 27.13	-	Not included 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		0.1 DSRR		\$ -	No	\$ 177,100	\$ 5,000	Nashua	No	\$ 27.13		Not included in original board approved budget. Response to Nashua sewer replacement. Materials not
377 Main Street Repairs	2105498	DW20-157	26,459	3/2/2021	e	Yes	\$ 25,000	\$ 24,000	Nashua	Yes	\$ 27.13	\$ -	available in 2021 - design only Not included in original board approved budget
377 Main Succe Repairs		DW20-157	· · · · · · · · · · · · · · · · · · ·	3/2/2021	ş -								Not included in original board approved budget. Response to Nashua sewer replacement. Materials not
Kendrick Street	2105500		0.1 DSRR		\$ -	No	\$ 189,640	\$ 8,000	Nashua	No	\$ 27.13	s -	available in 2021 - design only
Error Arrano	2105579		0.1 DSRR		e	No	\$ 85,800	\$ 4,000	Nashua	No	e 27.12		Not included in original board approved budget. Response to Nashua sewer replacement. Materials not
Faxon Avenue	2103379		0.1 D3KK		\$ -	NO	\$ 05,000	\$ 4,000	INasnua	NO	\$ 27.13	\$ -	available in 2021 - design only
Faxon Street	2105580		0.1 DSRR		\$ -	No	\$ 219,400	\$ 8,000	Nashua	No	\$ 27.13		Not included in original board approved budget. Response to Nashua sewer replacement. Materials not
Sweet Hill Internnection	NTD		NHDES SRF ot DWGT	'F	\$ 250,000	Yes	9	s -	Plaistow	Yes	\$ 28.45		available in 2021 - design only Deferred to 2022 for NHSRF Funding
Twin Ridge Interconnection	NTD		NHDES SRF of DWGT		\$ 250,000 \$ 100,000	Yes	\$ -	\$ -	Plaistow	Yes	\$ 28.45	-	Deferred to 2022 for NHSRF Funding Deferred to 2022 for NHSRF Funding
PWW RRA- ERP	2106256		0.1 DSRR		\$ 200,000	No	\$ 200,000	\$ 200,000	Various	No	\$ 28.45		
Trimble GPS and Monitoring Equipment	NTD	DW20-157	26,459	3/2/2021	\$ 32,000		\$ 32,000		Various	Yes	\$ 28.45		
Merrimack River Watershed Council	NTD Paratira	DW/20 455	0.1 DSRR	2 /2 /2024	\$ 40,000	No	\$ 40,000		Various	No	\$ 28.45		(CD-velocosis tellul assista konsul 00/20/24
Investment in Developer Services Engineering Vehicle	Routine NTD	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 90,000 \$ 30,000	Yes Yes	\$ 140,000 \$ 30,000		Various Nashua	Yes No	\$ 28.45 \$ 27.13		66 Developer installed services through 09/30/21 projecting 50 more. 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 Purchase deferred to 2022
Route 101A Water Main Relocation	2008857 & 2102006		0.1 DSRR	, , , , , , , ,	\$ -	No	\$ 505,000		Nashua	No	\$ 27.13		Engineering only for 2021, NHDOT deferred construction to 2022
Northwest Pressure System Analysis	2105480		0.1 DSRR		\$ -	No	\$ 25,000		Nashua	No	\$ 27.13		Not included in original board approved budget
Distribution System Analysis - HUDSON	2105499		0.1 DSRR		\$ -	No	\$ 25,000		Nashua	No	\$ 27.13		Not included in original board approved budget
Pennichuck Brook Aerial Survey	2106254		0.1 DSRR		\$ -	No	\$ -	\$ 19,500	Various	No	\$ 28.45	\$ -	
New Building	2001988 & 2101751		0.1 DSRR		\$ -	No	\$ 35,000	\$ 35,000	Nashua	Yes	\$ 27.13		Not included in original board approved budget
COO Vehicle	NTD	DW20-157	26,459	3/2/2021	\$ 30,000	Yes	\$ -	\$ -	Nashua	No	\$ 27.13		Not needed.
Bon Terrain Contractual Payment Booster Pump replacement/rebuild	NTD Routine	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 129,200 \$ 40,000	Yes Yes	\$ 129,200 \$ 30,000		Amherst Various	No Yes	\$ 32.93 \$ 28.45		10 Booster Pump installed/repaired through 09/30/21 projecting 3 more.
Booster Pump replacement/rebuild Booster Pump replacement/rebuild	2102277	DW20-157 DW20-157	26,459 26,459	 '.'.	\$ 40,000 \$ -	Yes Yes	\$ 30,000		Various Various	Yes	\$ 28.45		
Booster Pump replacement/rebuild	2102277	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 4,641		Various	Yes	\$ 28.45	-	
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 \$ 750,000		\$ 4,000		Various	Yes	\$ 28.45		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 Deferred to 2022. Project scope will change due to Hazard level reclassification of Bowers Dam. Design
Harris Dam raise earthen embankment, raise dike wall, regulatory requirement.	2101956		0.1 DSRR		\$ 965,000	Yes	-	\$ 42,000	Merrimack/Nashua	No	\$ 27.83	s -	only
	1	1				1	1	·		1	1		

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								Estimated Project				QCPAC Eligible	
Project Name/Description	Work Order#	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount Q	CPAC Eligible?	Estimated Project Cost as of 6/30/2021	Cost as of	Community	Taxable	Tax Rate (1)	Property Tax Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing
Misc. Structural Improvements	NTD	DW20-157	26,459	3/2/2021	\$ 20,000	Yes	\$ 15,515	\$ 32,915	Various	Yes	\$ 28.45	\$ 930	
Misc. Structural Improvements	2102276	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 4,485		Various	Yes	\$ 28.45	-	
Miscellaneous Equipment Purchased	NTD	DW20-157	26,459	3/2/2021	\$ 20,000	Yes	\$ 15,000	\$ 12,775	Various	Yes	\$ 28.45	\$ 363	3
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		
Miscellaneous SCADA/Electrical Miscellaneous SCADA/Electrical	NTD 2104170	DW20-157	26,459	3/2/2021	\$ 30,000	Yes	\$ 21,500	- /	Various	Yes	\$ 28.45	-	Some budget money was pulled into 2102309 VFD pump #3
Miscellaneous SCADA/Electrical	2104170	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	ş -	Yes Yes	\$ 5,500	\$ 5,500 \$ 4,272	Various Nashua	Yes Yes	\$ 28.45 \$ 27.13		
Miscellaneous SCADA/Electrical	2107682	DW20-157	26,459	3/2/2021	s -	Yes	\$ -	t .	Nashua	Yes	\$ 27.13		
Miscellaneous SCADA/Electrical	2107683	DW20-157	26,459	3/2/2021	s -	Yes	\$ -		Nashua	Yes	\$ 27.13		
Miscellaneous SCADA/Electrical		DW20-157	26,459	3/2/2021	\$ -	Yes	\$ -	\$ 29,000	Nashua	Yes	\$ 27.13		Windows operating platform does not support new release of SCADA software.
Rebuild 1 High lift/Intermediate pump	NTD	DW20-157	26,459	3/2/2021	\$ 25,000	Yes	\$ 25,000	\$ 25,000	Nashua	Yes	\$ 27.13	\$ 678	3
Replace VFD, Intermediate Pump #3 WTP	2102309	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 28,000	\$ 28,000	Nashua	Yes	\$ 27.13	\$ 760	
WTP Structural/HVAC	NTD	DW20-157	26,459	3/2/2021	\$ 10,000	Yes	\$ 10,000	\$ 10,000	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	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	-	Nashua	Yes	\$ 27.13	-	
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		Nashua	Yes	\$ 27.13		
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	ş -	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	\$ 1,190	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.
N 004D4 0 4 10 4 B 1 117 B 16 1	24.02000	DW20-157	26,459	3/2/2021		**		\$ 9,500	Bedford				This project was originally expected in 2020 but not completed due to production issues. Completed in 2021
New SCADA Control System, Powder Hill, Bedford Bowers Dam 2021 Permitting and design	2103888 2107806		0.1 DSRR		\$ -	Yes No	\$ 9,500	\$ 9,500 \$ 154,000	Merrimack/Nashua	Yes No	\$ 24.62 \$ 27.83		but not in board approved budget as a carryover. Dam construction will occur in 2022
CMMS replacment project (Estimate)	2107500	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	- /	Nashua	No	\$ 27.13		
			=0,007	0, 2, 2020	, ,,,,,				- 110-1111			,	
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	\$ 27.13		Change of Scope for 2 remote facilities. Existing wiring at Distribution not adequate for new system. Add
,											\$ 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	\$ 54:	
Virtual Dealstone	2104056	DW20-157	26,459	3/2/2021	\$ 106,000	V	(0.000	\$ 96,000	Nicolana	No			
Virtual Desktops	2104036	DW20-137	20,439	3/2/2021	\$ 100,000	Yes	\$ 60,000	\$ 96,000	Nashua	NO			
											\$ 27.13	s -	
											\$ 27.15	-	
Committee Underton	N ITTEN	DW100 455	24.450	2 /2 /2024	e (000	37	6 (000		NT 1	N.T.			
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		7
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	NTD	DW20-157	26,459	3/2/2021	\$ 20,000	Yes	\$ 20,000	\$ -	Nashua	No	\$ 27.13	\$ -	
CMMS PLL Implementation	2103213	DW20-157	26,459	3/2/2021	\$ 170,000	Yes	\$ 125,595	\$ 170,000	Nashua	Yes	\$ 27.13	\$ 4,612	
Cityworks PLL License	NTD	DW20-157	26,459	3/2/2021	\$ 40,000	Yes	\$ 13,875		Nashua	No	\$ 27.13		This project got cancelled since it was only for licenses.
Misc Hardware	NTD	DW20-157	26,459	3/2/2021	\$ 20,000	Yes	\$ 8,082		Various	No	\$ 28.45		
Misc Hardware	2101826	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 2,195		Various	No	\$ 28.45	-	
Misc Hardware Misc Hardware	2102671 2103177	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 3,500		Various	No	\$ 28.45		
Misc Hardware Misc Hardware	21031//	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ - \$ -	Yes Yes	\$ 3,349 \$ 2,874		Various Various	No No	\$ 28.45 \$ 28.45		+
Remote User Laptops	2104113	DW20-157 DW20-157	26,459	3/2/2021	\$	Yes	\$ 2,8/4	- /	Various Various	No	\$ 28.45		+
Misc Software	NTD	DW20-157	26,459	3/2/2021	\$ 12,000	No	\$ 12,000		Various	No	\$ 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		V.
Projected short term interest on FALOC	N/A	DW20-157	26,459	3/2/2021	ş -	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	erty Tax Expens	e associated with	\$ 202,809	
		- ·- ·	.										
	Total Proje		Bond funded PWW QCI WGTF funded PWW OCI				\$ 11,032,299 \$ -	\$ 8,582,771 \$ -					

350,000

							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.	Order	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 #				•	, ,	,	3	()	1	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

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

		T T					I	1			
										QCPAC	
		P: D - 1	NITITIO	A CAMIDING						Eligible	
Project Name/Description		Financing Docke	t NHPUC Order D	Oate of NHPUC Order	Approved Budgeted Amount	QCPAC Eligible?	Community	Taxable	Tax Rate (1)	Property Tax Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing
,	Project Description	Work Order # No.				- 0			` '	•	
2022 New Services (10)	Single Family, Owner Build, New Homes	DW20-157	Awaiting App		\$ 50,000	Yes	Various	Yes	\$ 28.45	\$ 1,423	
2022 Renewed Services (20)	Replacement of Failed Services Replacement of non-functional hydrants	DW20-157	Awaiting App		\$ 110,000	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	Awaiting App	^	\$ 90,000 \$ 40.000	Yes	Various	Yes	\$ 28.45		
2022 Gates (10) 2022 Radios (500)	Replacement of Failed Gate Valves Replacement of failed Radios (250), New Radios for new customers (250).	DW20-157 DW20-157	Awaiting App Awaiting App		\$ 40,000	Yes Yes	Various Various	Yes Yes	\$ 28.45 \$ 28.45	\$ 1,138 \$ 1,423	
2022 Radios (4000)	Yr 2 of 7 Replacement of all PWW Radios installed in 2007 (4000) by contractor.	DW20-157	Awaiting App		\$ 520,000	Yes	Various	Yes	\$ 28.45		
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 App		\$ 50,000	Yes	Various	Yes	\$ 28.86		
Replacement Boom Truck	Replacement for #19 - 2011 Ford F450 - High Milage, Maintenance & Safety issues.	DW20-157	Awaiting App		\$ 150,000	Yes	Merrimack	No	\$ 28.52	\$ -	
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.	DW20-157	Awaiting App	proval	\$ 70,000	Yes	Merrimack	No	\$ 28.52	\$ -	
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.	DW20-157	Awaiting App	1	\$ 70,000	Yes	Merrimack	No	\$ 28.52	-	
Replacment Supervisor Pickup	New Full Sized Pickup to Replace existing high mileage/maintenance pickup.	DW20-157	Awaiting App		\$ 45,000	Yes	Merrimack	No	\$ 28.52		
Replacement Utility Van	New Utility Van to replace existing high mileage/maintenance vehicles.	DW20-157	Awaiting App		\$ 40,000 \$ 22.000	Yes	Merrimack	No	\$ 28.52		
Protectus Meter Upgrade Miscellaneous Construction Equipment	Protectus Meter Upgrade	DW20-157	Awaiting App 0.1 DSRR	provai	\$ 22,000 \$ 40.000	Yes Yes	Nashua Merrimack	Yes Yes	\$ 27.13 \$ 28.52	-	
Balcom Street	Replace 1240 LF 6 inch CI with 1240 LF 8 inch DIPCL.	DW20-157	O.1 DSKK Awaiting App	proval	\$ 73,600	Yes	Nashua	Yes	\$ 28.52 \$ 27.13		
Euclid Avenue	Replace 425 LF 6 inch CI with 425LF 8 inch DIPCL.	DW20-157 DW20-157	Awaiting App		\$ 25,200	Yes	Nashua	Yes	\$ 27.13		
Fairview Street	Replace 800 LF 6 inch Cl with 800 LF 8 inch DIPCL.	DW20-157	Awaiting App		\$ 47,000	Yes	Nashua	Yes	\$ 27.13		.†
Temple St (south to gorman)	Replace 900 LF of 8 inch Cl with 12 inch DIPCL.	DW20-157	Awaiting App		\$ 66,000	Yes	Nashua	Yes	\$ 27.13	\$ 1,791	
School Street (High to W. Pearl Alleyway)	Replace 400 LF of 4 inch Cl with 8 inch DIPCL.	DW20-157	Awaiting App	proval	\$ 27,000	Yes	Nashua	Yes	\$ 27.13		
Sargent Street	Replace 1900 LF 6 inch CI with 1900 LF 16 inch DIPCL.	DW20-157	Awaiting App		\$ 480,000	Yes	Nashua	Yes	\$ 27.13		
Courtland Street	Replace 1170 LF 4 inch CI with 1170 LF 16 inch DIPCL.	DW20-157	Awaiting App		\$ 300,000	Yes	Nashua	Yes	\$ 27.13		
Alld Street	Replace 1860 LF of 6 & 8 inch CI with 12 inch DIPCL.	DW20-157	Awaiting App		\$ 740,000	Yes	Nashua	Yes	\$ 27.13		
Lawndale Avenue	Replace 1085 LF of 6 inch CI with 12 inch DIPCL.	DW20-157	Awaiting App		\$ 420,000	Yes	Nashua	Yes	\$ 27.13		
Benson Avenue	Replace 550 LF of 4 inch CI with 8 inch DIPCL.	DW20-157	Awaiting App		\$ 160,000	Yes	Nashua	Yes	\$ 27.13		
Spaulding Street Alstead Avenue	Replace 950 LF of 6 inch CI with 8 inch DIPCL. Replace 240 LF of 4 inch CI with 4 inch DIPCL.	DW20-157 DW20-157	Awaiting App Awaiting App		\$ 280,000 \$ 61,000	Yes Yes	Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13		
Spaulding Avenue	Replace 430 LF of 6, 2, & 1.25 inch CI with 4 inch DIPCL.	DW20-157 DW20-157	Awaiting App		\$ 80,000	Yes	Nashua	Yes	\$ 27.13		
St Lazare Street	Replace 415 LF of 2 inch Cl with 4 inch DIPCL.	DW20-157	Awaiting App		\$ 80,000	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 App		\$ 40,000	Yes	Nashua	Yes	\$ 27.13		
Nye Avenues	Replace 400 LF of 2 & 1.5 inch CI with 4 inch DIPCL.	DW20-157	Awaiting App		\$ 73,000	Yes	Nashua	Yes	\$ 27.13		
Copp Street	Replace 350 LF of 6 inch CI with 8 inch DIPCL.	DW20-157	Awaiting App	proval	\$ 103,000	Yes	Nashua	Yes	\$ 27.13	\$ 2,794	
Fairview Street	Replace 800 LF 6 inch Cl with 800 LF 8 inch DIPCL.	DW20-157	Awaiting App	proval	\$ 189,000	Yes	Nashua	Yes	\$ 27.13	\$ 5,128	
Gray Avenue	Replace 360 LF of 6 inch CI with 6 inch DIPCL.	DW20-157	Awaiting App		\$ 85,000	Yes	Nashua	Yes	\$ 27.13		
Additional Water Main Replacement	To be determined	DW20-157	Awaiting App		\$ 1,100,000	Yes	Nashua	Yes	\$ 27.13		
2022 Nashua City Sewer Projects	To be determined	DW20-157	Awaiting App		\$ 900,000	Yes	Nashua	Yes	\$ 27.13		
PWW RRA- ERP	Implement Recommendations Evaluated in 2021	DW20-157	Awaiting App	proval	\$ 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		0.1 DSRR		\$ 40,000	No	Various	No	\$ 28.45	\$ -	
	the Merrimack River Watershed.				,				,	·	
Investment in Developer Services	1x Annual Rvenue	DW20-157	Awaiting App		\$ 90,000	Yes	Various	Yes	\$ 28.45		
Replace Engineering Pickup	Replace vehicle with high mileage.	DW20-157	Awaiting App		\$ 40,000	Yes	Nashua	No	\$ 27.13		
Replace Engineering Pickup Milford Booster Station	Replace vehicle with high mileage.	DW20-157	Awaiting App		\$ 40,000	Yes	Nashua	No	\$ 27.13		
	Replace/Relocate/Upgrade the Milford Booster Station (>4MGD) Replace 900 LF of 8 inch CI with 12 inch DIPCL.	DW20-157	Awaiting App		\$ 800,000 \$ 263,000	Yes	Amherst	Yes	\$ 32.93		
Temple St (south to gorman)	Replace 400 LF of 4 inch CI with 8 inch DIPCL.	DW20-157 DW20-157	Awaiting App			Yes	Nashua	Yes	\$ 27.13		
School Street (High to W. Pearl Alleyway) Linwood Street	Replace 960 LF of 6 inch CI with 8 inch DIPCL. Replace 960 LF of 6 inch CI with 8 inch DIPCL.	DW20-157 DW20-157	Awaiting App Awaiting App		\$ 108,000 \$ 283,800	Yes Yes	Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13		
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild	DW20-157 DW20-157	Awaiting App	1	\$ 200,000 \$ 40,000	Yes	Various	Yes	\$ 28.45		
Well Pump replacements	Well Pump replacements	DW20-157	Awaiting App		\$ 15,000	Yes	Various	Yes	\$ 28.45	\$ 427	
Chemical Feed pump replacements	Chemical Feed pump replacements	DW20-157	Awaiting App		\$ 10,000	Yes	Various	Yes	\$ 28.45		
Install/replace treatment systems in small CWS.	Install/replace treatment systems in small CWS.	DW20-157	Awaiting App		\$ 15,000	Yes	Various	Yes	\$ 28.45	\$ 427	
Misc. Structural Improvements	Misc. Structural Improvements	DW20-157	Awaiting App		\$ 15,000	Yes	Various	Yes	\$ 28.45	\$ 427	
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased	DW20-157	Awaiting App	proval	\$ 20,000	Yes	Various	Yes	\$ 28.45		
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	DW20-157	Awaiting App		\$ 30,000	Yes	Various	Yes	\$ 28.45	-	
Well Rehabilitation	Well Rehabilitation	DW20-157	Awaiting App		\$ 50,000	Yes	Various	Yes	\$ 28.45		
WTP Structural/HVAC Bowers Pond Spillway Improvements	WTP Structural/HVAC Bowers Pond Spillway Improvements to bypass revised NHDES flows	DW20-157 DW20-157	Awaiting Apr		\$ 10,000 \$ 1,800,000	Yes	Nashua Merrimack/Nashua	Yes	\$ 27.13 \$ 27.83		Work required to expand Spill due to NHDES Hazard reclassification of Bowers Dam
Purchase new lab equipment	Purchase new lab equipment	DW20-157 DW20-157	Awaiting App Awaiting App		\$ 1,800,000 \$ 20,000	Yes Yes	Merrimack/ Nashua Nashua	Yes Yes	\$ 27.83 \$ 27.13		* * *
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	DW20-157	Awaiting App		\$ 10,000	Yes	Nashua	Yes	\$ 27.13		
Re-paint FWPS ceiling	Re-paint FWPS ceiling	DW20-157	Awaiting App		\$ 20,000	Yes	Nashua	Yes	\$ 27.13		
WTP Replace Vehicle	Replace High Mileage Vehicle.	DW20-157	Awaiting App		\$ 65,000	Yes	Nashua	No	\$ 27.13		
WTP Replace Vehicle	Replace High Mileage Vehicle.	DW20-157	Awaiting App	^	\$ 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 Hardawre infrastructure improvements	Update aging network infrustructure.	DW20-157	Awaiting App	proval	\$ 80,000	Yes	Nashua	No	\$ 27.13		
Major Software Replacement Project Munis Enhancements	Munis Enhancements	***************************************	0.1 DSRR	1	\$ 60,000	No	Nashua	No No	\$ 27.13		
iviums enhancements	Mano Emparochiona	DW20-157	Awaiting App		\$ 35,000	Yes	Nashua	No No	\$ 27.13		
		Pennichuck Water Works Projected	2022 Total Capital Expen	naiture Budget -	\$ 11,208,600		Projected Prope	erty I ax Expens	e associated with	\$ 290,409	

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

Total for 0.1 DSRR Projects - \$ 172,000

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

Estimated Bond Terms (Bonds to be sold in April 2022) - 30 Years @ 4.5% resulting in P&I of \$ 628,441

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 #	inancing Docket	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount	QCPAC Eligible?	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since 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	* *	\$ 110,000	Yes	Various	Yes	\$ 28.45		
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	* *	\$ 40,000	Yes	Various	Yes	\$ 28.45		
2023 Radios (500)	Replacement of failed Radios (250), New Radios for new customers (250).		DW20-157	Awaiting	* *	\$ 50,000	Yes	Various	Yes	\$ 28.45	- /	
2023 Radios (4000) 2023 Meters (Growth) 5/8"-2" - Core & CWS (TBD)	Yr 2 of 7 Replacment of all PWW Radios installed in 2007 (4000) by contractor. New meters for new customers, including PFOA (250). Replacement of failed meters(250).		DW20-157 DW20-157	Awaiting Awaiting	* *	\$ 520,000 \$ 50,000	Yes Yes	Various Various	Yes Yes	\$ 28.45 \$ 28.45		
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting		\$ 70,000	Yes	Merrimack	No	\$ 28.52		
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting	* *	\$ 70,000	Yes	Merrimack	No	\$ 28.52	-	
Replacment Supervisor Pickup	New Full Sized Pickup to Replace existing high mileage/maintenance pickup.		DW20-157	Awaiting	* *	\$ 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	\$ 1,141	
PWW RRA- ERP	Implement Recommendations Evaluated in 2021.		DW20-157	Awaiting	**	\$ 500,000	Yes	Various	Yes	\$ 28.45		
Sargent Street	Replace 1900 LF 6 inch CI with 1900 LF 16 inch DIPCL.		DW20-157	Awaiting	* *	\$ 84,000	Yes	Nashua	Yes	\$ 27.13	- /	
Courtland Street	Replace 1170 LF 4 inch CI with 1170 LF 16 inch DIPCL.		DW20-157	Awaiting	* *	\$ 52,000	Yes	Nashua	Yes	\$ 27.13		
Alld Street	Replace 1860 LF of 6 & 8 inch CI with 12 inch DIPCL.		DW20-157	Awaiting	* *	\$ 130,000	Yes	Nashua	Yes	\$ 27.13		
Lawndale Avenue	Replace 1085 LF of 6 inch CI with 12 inch DIPCL.		DW20-157	Awaiting	**	\$ 73,000	Yes	Nashua	Yes	\$ 27.13		
Benson Avenue Spaulding Street	Replace 550 LF of 4 inch CI with 8 inch DIPCL. Replace 950 LF of 6 inch CI with 8 inch DIPCL.		DW20-157 DW20-157	Awaiting	**	\$ 28,000 \$ 48,000	Yes	Nashua Nashua	Yes Yes	\$ 27.13		
Alstead Avenue	Replace 240 LF of 4 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Awaiting	* *	\$ 46,000	Yes Yes	Nashua	Yes	\$ 27.13 \$ 27.13		
Spaulding Avenue	Replace 430 LF of 6, 2, & 1.25 inch CI with 4 inch DIPCL.		DW20-157	Awaiting	* *	\$ 14,000	Yes	Nashua	Yes	\$ 27.13	-	
St Lazare Street	Replace 415 LF of 2 inch Cl with 4 inch DIPCL.		DW20-157	Awaiting	**	\$ 14,000	Yes	Nashua	Yes	\$ 27.13		
Ingalls St (St Camille to end)	Replace 200 LF of 1.5 inch Cl with 4 inch DIPCL.		DW20-157	Awaiting	**	\$ 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	* *	\$ 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	Replace 360 LF of 6 inch Cl with 6 inch DIPCL.		DW20-157	Awaiting	Approval	\$ 15,000	Yes	Nashua	Yes	\$ 27.13	\$ 407	
2022 Nashua City Sewer Projects	To be detremined (Paving)		DW20-157	Awaiting	Approval	\$ 200,000	Yes	Nashua	Yes	\$ 27.13	\$ 5,426	
Fairview Street	Replace 800 LF 6 inch CI with 800 LF 8 inch DIPCL.		DW20-157	Awaiting	Approval	\$ 47,000	Yes	Nashua	Yes	\$ 27.13	\$ 1,275	
Water Main Replacement Additional Paving Carry Over	TBD from 2022		DW20-157	Awaiting	* *	\$ 400,000	Yes	Nashua	Yes	\$ 27.13		
Booster Station Replacement/Upgrade	To be determined		DW20-157	Awaiting	* *	\$ 800,000	Yes	Nashua	Yes	\$ 27.13		
Water Main Replacement	To be determined		DW20-157	Awaiting	* *	\$ 3,700,000	Yes	Nashua	Yes	\$ 27.13		
2023 Nashua City Sewer Projects Merrimack River Watershed Council	To be determined		DW20-157	Awaiting 0.1 DSRR	Approval	\$ 900,000 \$ 40,000	Yes	Nashua	Yes	\$ 27.13		
Trimble GPS and Monitoring Equipment	Grant Match with other Stakeholders \$40k for five years. Level Monitors, Pressure Monitors and Flow Monitors		DW20-157	Awaiting	Annerel	\$ 40,000	No Yes	Various Merrimack	No No	\$ 28.45 \$ 28.52		
Investment in Developer Services	1x Annual Rvenue		DW20-157	Awaiting	* *	\$ 90,000	Yes	Various	Yes	\$ 28.45		
Replace Engineering SUV	Replace vehicle with high mileage.		DW20-157	Awaiting	* *	\$ 30,000	Yes	Various	Yes	\$ 28.45	- /	
Replace Engineering Pickup	Replace vehicle with high mileage.		DW20-157	Awaiting	* *	\$ 40,000	No	Various	Yes	\$ 28.45		
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild		DW20-157	Awaiting		\$ 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		\$ 500,000	Yes	Nashua	Yes	\$ 27.13	\$ 13,565	
Install/replace treatment systems in small CWS.	Install/replace treatment systems in small CWS.		DW20-157	Awaiting	* *	\$ 15,000	Yes	Various	Yes	\$ 28.45	-	
Misc. Structural Improvements	Misc. Structural Improvements		DW20-157	Awaiting	* *	\$ 20,000	Yes	Various	Yes	\$ 28.45		
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased		DW20-157	Awaiting	* *	\$ 20,000	Yes	Various	Yes	\$ 28.45	-	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical		DW20-157	Awaiting	* *	\$ 30,000	Yes	Various	Yes	\$ 28.45	-	
Well Rehabilitation	Well Rehabilitation		DW20-157	Awaiting	* *	\$ 50,000	Yes	Various	Yes	\$ 28.45	\$ 1,423	
WTP Structural/HVAC	WTP Structural/HVAC		DW20-157	Awaiting	* *	\$ 10,000	Yes	Nasnua	Yes	\$ 27.13		
Purchase new lab equipment Miscellaneous Fencing and Security projects	Purchase new lab equipment. Miscellaneous Fencing and Security projects		DW20-157 DW20-157	Awaiting	Approval Approval	\$ 20,000 \$ 10,000	Yes Yes	Nashua Various	No Yes	\$ 27.13 \$ 28.45		
Replace Vehicle	Replace High Mileage Vehicle.		DW20-157	Awaiting	* *	\$ 65,000	Yes	Nashua	No	\$ 27.13		
Carbon media chageout - 3 & 4 (Fall of 2023)	Carbon media chageout - 3 & 4		DW20-157	Awaiting	* *	\$ 500,000	Yes	Nasnua	Yes	\$ 27.13	-	
Replace Vehicle	Replace High Mileage Vehicle.		DW20-157		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	-	
1		Pennichuck Water	Works Projected 2	020 Total Capital Ex	penditure Budget -	\$ 10,054,000		Projected Prop	erty Tax Expens	e associated with	\$ 257,112	

Total Projected Bond funded PWW QCPAC Capex for 2021 - \$ 9,832,000
Total Projected NHDES SRF/DWGTF funded PWW QCPAC Capex for 2021 - \$ -

Total for 0.1 DSRR Projects - \$ 222,000

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