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 11/30/2021 Update

	Approved DW19-08 Revenues per Order#	QCPAC For 2019 Capital Additions	QCF C Surcharge for Capita apital Additions	AC For 2020 Additions pro forma	for 2	C Surcharge 020 Capital dditions	Capital	C For 2021 Additions forma	for 2	AC Surcharge 2021 Capital Additions	Capit	AC For 2022 al Additions ro forma	for 2	AC Surcharge 2022 Capital Addition	Capital	For 2023 Additions forma	for 20	C Surcharge 023 Capital dditions
City Bond Fixed Revenue Requirement (CBFRR)	\$ 7,729,0	32 \$ -	\$ 7,729,032 \$	=	Ş	7,729,032	\$	=	\$	7,729,032	\$	-	\$	7,729,032	·		\$	7,729,032
DW19-084 Operating Expense Revenue Requirement	\$ 21,296,6	8 (1) \$ 416,593	\$ 21,713,211 \$	155,083 (4)	\$	21,868,294	\$	200,342 ((4) \$	22,068,636	(4) \$	276,573	\$	22,345,209	\$	255,863	\$	22,601,072
DW19-084 Annual Principal and Interest Payments	\$ 6,176,4	77 (2) \$ 854,442	\$ 7,030,919 \$	351,395 (5)	Ş	7,382,314	\$	491,894	\$	7,874,209	\$	628,441	\$	8,502,649	\$	603,602	\$	9,106,251
Principal and Interest Coverage Requirement	1.	0 (3)	1.10			1.10				1.10				1.10				1.10
DW19-084 Principal and Interest Revenue Requirement	\$ 6,794,12	24	\$ 7,734,011		\$	8,120,546			\$	8,661,630			\$	9,352,914			\$	10,016,876
DW19-084 Revenue Requirement	\$ 35,819,7	74	\$ 37,176,254		\$	37,717,871			\$	38,459,297			\$	39,427,155			\$	40,346,980
DW19-084 Revenue Requirement less Other Revenues	\$ 35,399,00	52 (12)	\$ 36,755,541		\$	37,297,159			\$	38,038,585			\$	39,006,442			\$	39,926,268
DW19-084 Revenue Requirement less Other Revenues less Fixed Special Contract Revenues	\$ 34,792,6	18 (8)	\$ 36,149,098		\$	36,690,716	(8)		\$	37,432,141	(8)		\$	38,399,999			\$	39,319,824
Percent QCPAC Surcharge (9)			3.90%			1.56%				2.13%				2.78%				2.64%
Cumulative QCPAC Surcharge (13)			3.90%			5.46%				7.59%				10.37%				13.01%
Cumulative QCPAC monthly increase in average single family residential bill.			\$ 2.17		\$	3.04			\$	4.22			\$	5.77			\$	7.64
Average monthly single family residential bill with QCPAC.	\$ 55.0	55	\$ 57.82		\$	58.69			\$	59.88			\$	61.42			\$	63.29
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 #20. (2) Annual Principal and interest payments for PWW debt associated with all plant in service as approved in DW19-084. (3) Principal and interest coverage of 1.10 is as approved in DW16-806. (4) QCPAC operating expenses are based on the property taxes for used and useful plant added during the year (5) Portion of Annual Principal and interest payments for debt associated with plant placed in service between 1/1/2020 and 12/31/2020 based on a (6) QCPAC Principal and Interest expenses are based on (7) QCPAC percent revenue surcharges based on increase in revenues granted in DW19-084 (8) Reduction in revenues associated with fixed contracts as follows: (9) QCPAC Pinncipal and Interest expenses for DWCFIF financing are based on a (11) Cumulative surcharge percentage is based on total surcharge revenues collected divided by the revenues granted in DW19-084 that are impacted by the QCPAC. (12) Operating expense revenues approved in DW19-084 less total Other Revenues of (13) QCPAC percent revenue surcharges based on revenues approved in DW19-084.	425. 30 30 Hudson Annual Fixed	Bond with a effective interest rate of Bond with a effective interest rate of Chg \$ 32,800 30 year bond with interest rate of	4.50% for 2021	the final bond issuance in through 2023 Capital Expe Annual Fixed Chg 420,712				financing.	ş	371,430	PEU A	nnual Fixed Chg	ş	121,213				

Impact on Single Family Residential Home:

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

Pennichuck Water Works, Inc. DW 21-023 2021 QCPAC Filling 2/11/2021 Revised 5/26/2021 per Staff Technical Session DR

Project Name/Description			Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Board Approved 2019 Capex Budget	Board Approved 2019 Capex Budget, Revised 8/24/19	Eligible for 2020 QCPAC Surcharge	Final QCPAC eligible Project Costs as of 12/31/2019	Community	Taxable		QCPAC Eligible Property Tax Expense (Based on Prdy Update) Explanation for Change/Addition/Deletion since Petition Filing
	Project Description	Work Order #								· ·			
New Services (10)	Single Family, Owner Build, New Homes	20 workorders	DW17-183	26,101	.,.,	\$ 46,000			\$ 69,936	Various	Yes	\$ 27.02 \$	1,890 12 installed through 12/31.
Renewed Services (20)	Replacement of failed services	21, 22 & 23 workorders 30 & 31 workorders	DW17-183	26,101	2/2/2018	\$ 92,000		Yes	\$ 101,648	Various	Yes	\$ 27.02 \$	2,747 29 installed through 12/31.
Hydrants (10)	Replacement of non-functional hydrants		DW17-183	26,101	2/2/2018	\$ 50,000		Yes	\$ 40,209	Various	Yes	\$ 27.02 \$	1,086 7 installed through 12/31.
Gates (10)	Replacement of Failed Gate Valves	12 & 13 workorders	DW17-183	26,101	-,-,	\$ 40,000	4 10,000	Yes	\$ 10,573	Various	Yes	\$ 27.02 \$	286 4 installed through 12/31.
Radios (2750)	Replace out of warrantee failed radio meter readers.	54 workorders	DW17-183	26,101	2/2/2018	\$ 275,000		Yes	\$ 48,942	Various	Yes	\$ 27.02 \$	1,322 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 26,101	2/2/2018 2/2/2018	\$ 48,000 \$ 300,000		Yes Yes	\$ 207,025	Various Various	Yes Yes	\$ 27.02 \$ \$ 27.02 \$	5,594 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		- 40	\$ 66,204		Yes	\$ 28.86 \$	1,911
Replace 13 vr Vac Trailer - Safety & Maint issue		1917721	DW17-183	26,101	2/2/2018	\$ 100,000	- /	Yes	\$ 00,204 \$ 29,710		Yes	\$ 28.86 \$	857 Then Company was leasing a vac machine for 2019. It was decided to buy out the lease.
Protectus Meter Upgrade	Replace 13 yr Vac Trailer - Safety & Maintenance issue Spitbrook Rd Protectus Meter Upgrade	n/a	DW17-183	26,101	2/2/2018	\$ 21,000		Yes	\$ 29,710 e	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	\$ 21,000	\$ 7,400	Yes	\$ 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	9 -	\$ 7,400 \$ 17,500	Yes	\$ 6,970 \$ 15.888	Nashua	No No	\$ 26.23 \$	- Existing units have failed and not 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	20,101	2/2/2010	-	\$ 2,700	No.	\$ 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		2,700	Yes	\$ 7,460		No	\$ 28.86 \$	- Existing seed sander rusted difforgit and was replaced with new sander.
2018 Dodge Ram 2500 (#313)	Carryover Costs to 2018 projects not recovered in prior OCPAC.	1907613	0.1 DSRR	20,101	2/2/2010	s -	\$ 1,969	- 40	\$ 1,969		No	\$ 28.86 \$	
2018 Dodge Ram 2500 (#314)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907612	0.1 DSRR			\$ -	\$ 1,969	No	\$ 1,969		No	\$ 28.86 \$	
2018 Dodge Ram 2500 (#315)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907615	0.1 DSRR			s -	\$ 2,542		\$ 2,542		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		\$ 1,060	Merrimack	No	\$ 28.86 \$	
2018 Dodge Ram Promaster 1500 Cargo Van (#348)	Carryover Costs to 2016 projects not recovered in prior QCFAC.	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 \$	
Meter Data Logging Equipment	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907885	0.1 DSRR 0.1 DSRR			s	\$ 2.849	No	\$ 2,850		Yes	\$ 27.02 \$	77 Equipment used in leak detection.
		1607377, 1702856,				-			,				The state of the s
Gilman Street	Replace 1470 LF of 8 inch CI with 12 inch DIPCL.	1806433, 1901176	DW17-183	26,101	2/2/2018	\$ 550,000	\$ 615,000	Yes	\$ 661,270	Nashua	Yes	\$ 26.23 \$	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 Pavement contribution to City of Nashua of \$18,000 included.
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 \$	Connecting Nashua City Hall sprinkler connection that was missed during the Elm St project. Also replaces a portion of the Garden Street water main. Per City almost all work had to be performed on 1,624 Sunday rights. 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	\$ 140,000	Yes	\$ 178,120	Nashua	Yes	\$ 26.23 s	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	\$ 249,200	Yes	\$ 259,668	Nashua	Yes	\$ 26.23 \$	6,811 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 2020 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 DW18-133	26,197	12/3/2018	\$ 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 - Deerwood Drive & Amherst St. Intersection	Replace 1300 LF of 12 inch AC with 1300 LF of 24 inch DIPCL.	1806808, 1901609				\$ 467,500	\$ 467,500	Yes	\$ 158,469	Nashua	Yes	\$ 26.23 \$	4,157 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				\$ 635,800	\$ 635,800	Yes	\$ 1,302,871	Nashua	Yes	\$ 26.23 \$	34,174 Adjusted cost based on final installed materials in 2020 - some work will carry over into 2023.
NWS Improvements Ponemah Rd/Route 101A Loop NWS Improvements - Engineering Design and Inspection	Add 2200 LF of 12 inch DIPCL to close two loop major dead ends. Engineering and Inspection of NW System watermain improvements.	1901611	0.1 DSRR			\$ 484,000 Incuded in NWS	Incuded in NWS	Yes No	\$ - \$ 174,347	Nashua Nashua	Yes Yes	\$ 26.23 \$ \$ 26.23 \$	Project cancelled and replaced with piping in projects above. 4.573
14 W 5 Improvements - Engineering Design and Inspection	Engliceting and hispection of it was system watermain improvements.		0.1 D3RR			Improvemts above	Improvemts above	140	9 174,547	rasiida	103	9 20.23	7,37.3
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		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	\$ 162,800	Yes	\$ 156,252	Nashua	Yes	\$ 26.23 \$	4,098 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	- / /	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			\$ -	\$ 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	Ş -	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			\$ -	\$ 6,890	No	\$ -	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.	1909270	0.1 DSRR			\$ -	\$ 20,209	No	\$ 20,209	Nashua	Yes	\$ 26.23 \$	530 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			\$ -	\$ 233	No	\$ 233		Yes	\$ 26.23 \$	6 Carry over costs from project completed in 2018, pay for with 0.1 DSRR.
Shakespeare HP System Exp	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1901942	0.1 DSRR			\$ -	\$ 257	No	\$ 257	Nashua	Yes	\$ 26.23 \$	7 Carry over costs from project completed in 2018, pay for with 0.1 DSRR.
City of Nashua Paving - Mill St.	Abandon 1.5" Steel water main and switch customers over to parrallel 8" water main.	1915006	0.1 DSRR			\$ -	\$ 17,900	No	\$ 17,321	Nashua	No	\$ 26.23 \$	- Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR.
City of Nashua Paving - Ferryalls Ct	Replace 35 ft of 1" copper water main crossing Canal St with a 4" DIPCL Water Main.	1908316	DW17-183	26,101	2/2/2018	\$ -	\$ 58,580	Yes	\$ 51,988	Nashua	Yes	\$ 26.23 \$	Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - 1,364 complete.
City of Nashua Paving - Salvail Ct	Replace 1.5" Steel water main and install a 4" DIPCL Water Main (contaminated area).	1908317	DW17-183	26,101	2/2/2018	\$ -	\$ 95,000	Yes	\$ 79,258	- 1110-11111	Yes	\$ 26.23 \$	2,079 Includes final paving - complete
City of Nashua Paving - Nutt St - Final Paving and restoration	Pavement restoration and final landscaping	1702842, 1907682	DW17-183	26,101	-,-,	\$ -	\$ 13,000		\$ 6,549		Yes		172 \$6,240 of this will be recovered from Liberty Gas.
City of Nashua Paving - Cheshire St - Final Cleanup	Fence repair and site clean up	1908353	DW17-183	26,101	-, -,	\$ -	\$ 1,400		\$ 486		Yes		13 Completion of 2018 Workorder Project
City of Nashua - Simon St at Will St Upgrade	Abandon pump station pit and clean up intersection pipe work for improved flows.	1915974	DW17-183	26,101	.,.,	\$ -	\$ 215,100		\$ 174,754		Yes	\$ 26.23 \$	4,584 Includes base paving - Finished paving required in 2020 not included.
City of Nashua Paving - Main St.	Main St final paving at intersection with Factory St. Carry over from 2018.	1900348, 1915859	DW17-183	26,101	-/-/	\$ -	\$ 24,500		\$ 1,402		Yes	\$ 26.23 \$	37 Final paving bill for this project.
City of Nashua Paving - Lemon St - Carry over from 2017 City of Nashua Paving - Lowell St - Carry over from 2017	Paving only - Carry over from 2017.	1702875, 1915858 1915857	DW17-183	26,101	-,-,-	\$ - \$ -	\$ 24,850 \$ 37,000		\$ 18,316 e 27,004		Yes	\$ 26.23 \$ \$ 26.23 \$	480 Final paving bill for this project.
City of Nashua Paving - Lowell St - Carry over from 2017 City of Nashua Paving - Green St - Carry over from 2017	Paving only - Carry over from 2017.	1915857	DW17-183	26,101 26,101		S -	\$ 37,000 \$ 10,000		\$ 37,084 \$ 8,906		Yes	\$ 26.23 \$ \$ 26.23 \$	973 Final paving bill for this project.
City of Nashua Paving - Green St - Carry over from 2017 City of Nashua Paving - Beard St - Carry over from 2017	Paving only - Carry over from 2017. Paving only - Carry over from 2017.	1915844	DW17-183 DW17-183	26,101	2/2/2018	-	\$ 10,000 \$ 25,900	Yes Yes	\$ 8,906 \$ 21,689	Nashua Nashua	Yes Yes	\$ 26.23 \$ \$ 26.23 \$	234 Final paving bill for this project. 569 Final paving bill for this project.
City of Nashua Paving - Beard St - Carry over from 2017 City of Nashua Paving - Terrace St - Carry over from 2017	Paving only - Carry over from 2017. Paving only - Carry over from 2018.	1915843	DW17-183	26,101		\$ - \$ -	\$ 25,900 \$ 20,500		\$ 21,689 \$ 10,600		Yes	\$ 26.23 \$	278 Final paving bill for this project.
City of Nashua Paving - Terrace St - Carry over from 2017 City of Nashua Paving - Warren St - Carry over from 2017	Paving only - Carry over from 2018. Paving only - Carry over from 2017.	1702870, 1915842	DW17-183	26,101		\$ -	\$ 20,500 \$ 19,500		\$ 10,600 \$ 16,762	Nashua	Yes	\$ 26.23 \$	440 Final paving bill for this project.
Merrimack River Intake	Year Round Raw Water Intake from Merrimack River.	1502180, 1601369, 1701489, 1807360,	DWGTF Financing	26,247	5/3/2019	\$ 5,500,000		Yes	\$ 6,299,764	Merrimack	Yes	\$ 28.86 \$	Bids higher than Engineers estimate due to tight contractor market and changes in final permit requirement
A - W	To the order to a control of the con	1901612, 1908505	DW19-026	07.15	0./0./00:-	1.0			2		<u> </u>	 	up work to be earryed into 2020.
Asset Management Outside GIS Consulting Services	Outside GIS Consulting Services	1900414	DW17-183	26,101	2/2/2018	\$ 60,000		Yes	\$ 7,961		No		-
Asset Management Water Modeling Consulting	Water Modeling Consulting	1900414	DW17-183	26,101	2/2/2018	\$ 36,000		Yes	\$ -	Various	No V	\$ 27.02 \$	•
Asset Management Trimble R2 Units	Trimble R2 Units WAM/Spacean Linguista Cost & Experiencible Study	1900414	DW17-183	26,101	2/2/2018	\$ 14,000		Yes	9 -	Various	Yes	\$ 27.02 \$	Conduct when the Conduct of Condu
WAM/Synergen Upgrade Cost & Functionality Study	WAM/Synergen Upgrade Cost & Functionality Study	1900568, 1910219	0.1 DSRR	26 101	2/2/2010	e co.ccc	\$ 45,000	No V	\$ 27,804	Various	No V	\$ 27.02 \$	Study to select replacement of Synergyn CMMS system which goes unsupported at the end of 2020. 2.444
Investment in developer installed services at 1xannual revenue	Per tariff	n/a	DW17-183	26,101	-,-,	\$ 60,000		Yes	\$ 90,434	Various	Yes	\$ 27.02 \$	
2019 Ford Escape Rower Dem reconstruction and engineering	Replace Totaled 2015 Ford Escape Review Deep reconstruction and environments	1907481 1824545, 1900432	DW17-183 0.1 DSRR	26,101	2/2/2018	\$ -	\$ 23,998 \$ 25,000	Yes	\$ 23,998	Merrimack	No No	\$ 28.86 \$	Vehicle in accident. Vehicle totalled and needed to be replaced. Design Engineering Work for 2020 Dam rehabilitation
Bower Dam reconstruction and engineering	Bower Dam reconstruction and engineering					\$ 25,000		No	-	Merrimack	No	\$ 28.86 \$	
Bowers Dam Letter of Defficiency design/analysis	Perform Hydraulic and Hydrology analysis, design improvements to address spillway capacity.	1901734, 1907078	0.1 DSRR				\$ 35,000	No	\$ -	Merrimack	No	\$ 28.86 \$	Letter of deficiency issued by the NHDES Dam Bureau regarding inadequate spillway capacity for this dam
Harris Dam Letter of Defficiency design/analysis	Perform Hydraulic and Hydrology analysis, design improvements to address spillway capacity.	1907076	0.1 DSRR				\$ 40,000	No	\$ -	Merrimack	No	\$ 28.86 \$	Letter of deficiency issued by the NHDES Dam Bureau regarding inadequate spillway capacity for this dam
Supply Pond Letter of Deficncy design/analysis	Perform Hydraulic and Hydrology analysis, design improvements to address spillway capacity.	1907077	0.1 DSRR				\$ 35,000	No	S -	Merrimack	No	\$ 28.86 \$	- Letter of deficiency issued by the NHDES Dam Bureau regarding inadequate spillway capacity for this dam

		60, 61, 62 & 63	DW17-183	26,101	2/2/2018								
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild	workorders		·		\$ 40,000 \$	15,445	Yes	\$ 11,260	Various	Yes	\$ 27.02 \$	304 0 pumps replaced, 5 rebuilds through 12/31/2019.
Booster Pump replacement/rebuild	WTP Rebuild pump end, Intermediate Pump #3	1914986	DW17-183	26,101	2/2/2018	\$ - \$	24,555	Yes	\$ 24,554	Nalshua	Yes	\$ 26.23 \$	Pump Bearings failed on Intermediate Booster Pump at WTP.
		60, 61, 62 & 63	DW17-183	26,101	2/2/2018								4 replaced through 12/31/2019.
Well Pump replacements	Well Pump replacements	workorders		,	-, -, -, -, -,	\$ 15,000 \$	15,000	Yes	\$ 16,995	Various	Yes	\$ 27.02 \$	459
		60, 61, 62 & 63		26,101	2/2/2018								
Chemical Feed pump replacements	Chemical Feed pump replacements	workorders	DW17-183			\$ 10,000 \$	10,000	Yes	\$ -	Various	Yes	\$ 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 \$	150,000	Yes	\$ -	Various	Yes	\$ 27.02 \$	 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 \$	50,000	Yes	\$ 11,112	Plaistow	Yes	\$ 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 \$	10,700	Yes	S -	Various	Yes	\$ 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 - S	9,300	Yes	\$ 9,251	Nashua	Yes	\$ 26.23 \$	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			Yes	\$ 4,050	Nashua	Yes	\$ 26.23 \$	106 Failed heater. Part of run rate Misc Structural Improvements.
				26.404	0 (0 (0040								
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased	n/a	DW17-183	26,101	2/2/2018	\$ 17,500 \$	9,928	Yes	S -	Various	Yes	\$ 27.02 \$	_
Miscellaneous Equipment Purchased	Purchase 2 Gas Monitors for WS Confined Space Program.	1907611	DW17-183	26,101	2/2/2018	S - S	4,568	Yes	\$ 4,568		Yes	\$ 26.23 \$	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 - S	3,004		\$ 3,004		Yes	\$ 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	S 4,449		Yes	\$ 26.23 \$	117 Routine Miscellaneous Equipment purchase
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	n/a	DW17-183	26,101	2/2/2018	\$ 30,000 \$	30,000	Yes	\$	Various	Yes	\$ 27.02 \$	-
Miscellaneous SCADA/Electrical	Replace VFD, Pump #1 Bowers Landing	1916547	DW17-183	26,101	2/2/2018	9 30,000 9	30,000	Yes	\$ 2,118	Various	Yes	\$ 27.02 \$	57
·		n/a	DW17-183	26,101	2/2/2018	\$ 10,000 \$	10,000	Yes	2,110	Nashua		\$ 26.23 \$	37
WTP Structural/HVAC	WTP Structural/HVAC	,	15 11 17 105	,		\$ 10,000 \$	10,000	100	3 -	1401100	Yes		- 1000
WTP Structural/HVAC	Replace Heat Exchanger, WTP Office	1917470	DW17-183	26,101	2/2/2018	3 - \$		Yes	\$ 8,328	Nashua	Yes	\$ 26.23 \$	218 WTP Structural/HVAC project
Purchase new lab equipment	Purchase new lab equipment	n/a	DW17-183	26,101	2/2/2018	\$ 20,000 \$	18,500	Yes	5 -	Nashua	Yes	\$ 26.23 \$	- Reduced by purchase of HACH DR 900 below
Purchase new lab equipment	HACH DR 900	1908450	DW17-183	26,101	2/2/2018	\$ - \$	1,500	Yes	\$ 1,435	Nashua	Yes	\$ 26.23 \$	38
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	n/a	DW17-183	26,101	2/2/2018	\$ 10,000 \$	10,000	Yes	\$ -	Various	Yes	\$ 27.02 \$	-
Miscellaneous Fencing and Security projects	WTP Perimeter Fence Carryover	1901608	DW17-183	26,101	2/2/2018	\$ - \$	-	Yes	\$ 6,744	Various	Yes	\$ 27.02 \$	182
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	\$ - \$	-	Yes	\$ 28,897	Nashua	No	\$ 26.23 \$	 Unbudgeted. Made necessary due to the premature retirement of 2 dept. vehicles.
Replace Ferric Chloride Feed pump.	Replace Ferric Chloride Feed pump.	1901613	DW17-183	26,101	2/2/2018	\$ - \$	-	Yes	\$ 1,713	Nashua	Yes	\$ 26.23 \$	45 Pump rebuild was determined to be best course.
													New PFAS regulations require that all filter media be changed out to ensure compliance with the new
C 1 F 1 (C) 102	C 1 F 1 Ch 182	1001714 8 1017700	DW17-183	26 101	2/2/2010	e 1,000,000 e	1.050.000	N/	e 000.cc2	N. 1	V.	e 26.22 e	PFOA standard which is slated to go into effect on October 1, 2019. Filter media replacement being staged
Carbon media changeout-filters 1 & 2.	Carbon media changeout-filters 1 & 2	1901614 & 1916780	DW1/-183	26,101	2/2/2018	\$ 1,000,000 \$	1,050,000	Yes	\$ 990,662	Nashua	Yes	\$ 26.23 \$	25,985 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 \$		Yes	9 -	Nashua	Yes	\$ 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	\$ 120,000 \$		Yes	\$ 15,995	Nashua	Yes	\$ 26.23 \$	420
Rebuild Main Dunstable pump #1	Replace 20 year old package booster station pumps and piping. Piping is steel which is beginning	1701013	DW17-163			- 3		168	a 15,775	iNasiiua	168	g 20.23 g	420
Replace Kessler Farm booster pump package.	to nit	n/a	DW17-183	26,101	2/2/2018	\$ 75,000 \$	75,000	Ves	e	Nashua	Voc	\$ 26.23 \$	- Project deferred until 2020
	St P 4 Sb 1 - 1	n/a	0.1 DSRR			\$ 25,000 \$	25,000	No	e	Merrimack	No.	\$ 28.86 \$	- Study - Pay for with 0.1 DSRR
Stump Pond Subwatershed assessment Stump Pond Stormwater BMP	Stump Pond Subwatershed assessment Stump Pond Stormwater BMP	1908373	0.1 DSRR			\$ 20,000 \$	20,000	No No	S 1 310		No.	\$ 28.86 \$	- Study - Pay for with 0.1 DSRR
otamp 1 one otom water 15th		n/a	0.1 DSRR 0.1 DSRR			\$ 20,000 \$	20,000	No No	\$ 1,510	Merrimack	No No	\$ 28.86 \$	- Study - Pay for with 0.1 DSRR - Study - Pay for with 0.1 DSRR
Public Education -Watershed signage	Public Education -Watershed signage	n/a 1901618	011 20 01 111	26.101	2/2/2018	\$ 20,000 \$,		A 7.070			* =0.00 *	- Study - Pay for with 0.1 DSKR
Replace 2 Hach Turbidimeters and associated control module	Replace 2 Hach Turbidimeters and associated control module.	1819073, 1900413	DW17-183	26,101	2/2/2018	\$ 10,000 \$	10,000	Yes	\$ 7,978	Nashua	Yes	\$ 26.23 \$	207
Camera System Upgrade	Carryover Costs from 2018 Project.	101701041700110	0.1 DSRR			\$ - \$	7,500	No	\$ 9,756	Nashua	Yes	\$ 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			\$ - \$	24,600	No	\$ 39,520	Merrimack	No	\$ 28.86 \$	- Study - Pay for with 0.1 DSRR
Source Water Protection Study	Carryover Costs from 2018 study.	1901740	0.1 DSRR			\$ - \$	12,000	No	\$ 11,000	Merrimack	No	\$ 28.86 \$	- Study - Pay for with 0.1 DSRR
Aquatic Vegetation Assessment	Carryover Costs from 2018 study.	1807147, 1906080	0.1 DSRR			\$ - \$	4,200	No	\$ 9,545	Merrimack	No	\$ 28.86 \$	- Study - Pay for with 0.1 DSRR
Fiber Conduit between WTP and Dist	Install Fiber Conduit between Water Treatment Plant and Distribution to eliminate ongoing	1901619	DW17-183	26,101	2/2/2018	\$ 40,000 \$	40,000	Yes	\$ 22,896	Nashua	Yes	\$ 26.23	
The Conduct between WTT and Disc	Comcast Ethernet line to one of the buildings.	1701017	DW17-103	·		10,000	10,000	103	Ų 22,070		103	\$ S	601
Munis FER Enhancements	Munis FER Enhancements	n/a	DW17-183	26,101	2/2/2018	\$ 35,000 \$	35,000	Yes	\$ -	Merrimack	No	\$ 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	\$ -	Merrimack	No	\$ 28.86 \$	- Monies moved to Veeam Backup Project.
VVM for Data Contra	Keyboard Video Mouse for Data Center so that multiple servers can be accessed by one console		DW47.402	26 101									
KVM for Data Center	without having to move the Monitor/Keyboards/ Mouse connections each time.	n/a	DW17-183	26,101	2/2/2018	\$ 2,500 \$	-	Yes	s -	Merrimack	No	\$ 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	S -	Merrimack	No	\$ 28.86 \$	-
	o o			, .					1				
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 \$	1,270	No	\$ -	Merrimack	No	20.00	
									-		-	\$ 28.86 \$	-
	A pilot to determine whether a Virtual Desktop Infrastructure would be feasible for our		DW17-183	26,101	2/2/2018						j		
VDI Pilot	environment.	n/a	D W 17-103			\$ 12,000 \$	-	Yes	S -	Merrimack	No	\$ 28.86 \$	-
Misc Hardware	Misc Hardware	n/a	DW17-183	26,101	2/2/2018	\$ 20,000 \$	20,000	Yes	ş -	Merrimack	No	\$ 28.86 \$	-
Misc Hardware	Mount in Vehicles	1908308	0.1 DSRR			\$	-	No	\$ 1,248	Merrimack	No	\$ 28.86 \$	
Misc Hardware	2 iPad Pros for IS Testing	1908309	0.1 DSRR			S	-	No	\$ 2,298	Merrimack	No	\$ 28.86 \$	
Misc Software	Misc Software	n/a	DW17-183	26,101	2/2/2018	\$ 12,000 \$	12,000	Yes	S -	Merrimack	No		-
Website upgrades	Website upgrades	n/a	DW17-183	26,101	2/2/2018	\$ 8,000 \$	8,000	Yes	S	Merrimack	No	\$ 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 \$	25,500	Yes	S -	Merrimack	No	\$ 28.86 \$	- Deferred
<u> </u>	1			,	-, -,								
Click Resource Assistant	Allow for the moving of customer Appointment from an generic resource to a named resource.	1907952	0.1 DSRR			\$ - \$	22,828	No	\$ 22,828	Merrimack	No	\$ 28.86 \$	<u> </u>
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	Merrimack	No	\$ 28.86 \$	- Previously licensed software was not suitable for Virtual environment.
**	Replacement of existing backup software due to exorbitant vendor fees to keep original system			<u> </u>							† †		
Veeam Backup Software	running.	1909216	0.1 DSRR			\$ - 8	25,550	No	\$ 15,530	Merrimack	No	\$ 28.86 \$	
N PCO M C	New RCO Manager Computer	1917001	0.1 DSRR			. ,	20,000	No	\$ 1.797	Merrimack	No	\$ 28.86 \$	Parker Gilled designs are server
New RCO Manager Computer		1917001		26,101	2/2/2018	9 -		110	9 1,777		No No		Replace failed desktop computer.
Kessler Farm Tank Design	Kessler Farm Tank Design	1915117	0.1 DSRR			5 -		No	\$ 36,355	Nashua		\$ 26.23 \$	- Engineering for tank to be constructed in 2020.
	Payment of Retainage for projects that were used and useful in 2018.		DW17-183	26,101	2/2/2018	\$ - \$	-	Yes	\$ 33,586	Merrimack	No	\$ 28.86 \$	- Retainage paid in 2019 for 2018 QCPAC projects.
			DW17-183	26,101	2/2/2018	18		Yes	\$ 230,645	Various	No	S	- I
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.					- 9							
Performance Management Platform Implementation & Technical Integration	Performance Management Platform Implementation & Technical Integration	1916551	DW17-183	26,101	2/3/2018	s - s	-	Yes	\$ 13,804	Merrimack	No	\$ 28.86 \$	
Short term interest on the PWW Fixed Asset Line of Credit.		1916551 1918363				\$ - \$ \$ - \$	-		\$ 13,804 \$ 3,708	Merrimack Merrimack	No No		•

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

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 of the project costs being funded with DWGTF is being funded with 0.1 DSRR monies.

year bond with an actual total all in interest rate of 2.704% resulting in annual P&I expenses of resulting in annual P&I expenses of year bond with interest rate of 3.380% resulting in annual P&I expenses of 427,022 140,376

									Estimated Project	Estimated Project					QCPAC Eligible	
Project Name/Description	Decinal December -	Work Oud#	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Board Approved 2020 Capex Budget	QCPAC Eligible?	Cost as of 6/30/2020	Cost as of 9/30/2020	Cost as of 11/30/2020	Final Project cost as of 12/31/2020	Community	Taxable	2020 Tax Rate (1)	Property Tax Expense	Explanation for Change/Addition/Deletion from Board Approved 2020 Capex Budget
New Services (10)	Project Description Single Family, Owner Build, New Homes	Work Order # 20 workorders	DW17-183	26,101	2/2/2018	\$ 50,000	Yes	\$ 25,000 \$				Various	Yes	\$ 28.45		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			Various	Yes	\$ 28.45		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	DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 60,000 \$ 40,000	Yes Yes	\$ 44,000 \$ \$ 40,000 \$	55,000 50,000			Various Various	Yes Yes	\$ 28.45 \$ 28.45		9 Hydrants Repaired/Replaced through 12/31/2020. 12 Gates Repaired/Replaced through 12/31/2020.
Radios (560)	Replacement of Pailed Gate Valves 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		1,	Various	Yes	\$ 28.45	. ,	498 Radios Installed/Replaced through 12/31/2020.
Meters (Growth) 5/8"-2" - Core & CWS (280)	Meters (Growth) 5/8"-2" - Core & CWS (280)	50 workorders	DW17-183	26,101	2/2/2018	\$ 29,000	Yes	\$ 55,300 \$	91,000			Various	Yes	\$ 28.45		631 Meters Installed/Replaced through 12/31/2020.
Meters 5/8"-6" - Replace faled meters - Core & CWS (200) Replace Mud sucker pump	Meters 5/8"-6" failed meters - Core & CWS (200) Replace 15+ year old ditch pump.	50 workorders 2005200	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 21,000 \$ -	Yes Yes	\$ - \$ 6,356 \$	6,356	\$ 6,356	\$ 6,356	Various Various	Yes Yes	\$ 28.45 \$ 28.45	\$ - \$ 181	Total included in row above.
Replacement Utility Truck	Replacement for #47 - 2006 Ford f-350, 130K miles Does not pass inspection.	2006391	DW17-183	26,101	2/2/2018	\$ 70,000	Yes	\$ 70,000 \$	70,000			Merrimack	No	\$ 28.52	\$ -	
Replacement Utility Truck	Replacment for #76 - 2008 Ford F-350, 150K miles, Does not pass inspection.	2006390	DW17-183	26,101	2/2/2018	\$ 70,000	Yes	\$ 70,000 \$	70,000	-		Merrimack	No	\$ 28.52	S -	
Replacement Utility Truck	Replacement for #4- 2010 Ford f-350, 140K miles Does not pass inspection.	2006389	DW17-183	26,101	2/2/2018	\$ 70,000	Yes	\$ 70,000 \$	70,000	\$ 7,000	\$ 68,429	Merrimack	No	\$ 28.52	\$ -	D.C. L.V. CHULL CONTROL
Valve Turner & Vac Truck Foreman's Truck	Replacement for #60 - 14 Year Vac Trailer w/excessive rot, will not pass inspection. Replacement for #59 - 2011 International, 120K Miles, High Hours, Electrical, body issues.	n/a 2004436	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 160,000 \$ 140,000	Yes Yes	\$ - \$ \$ 140,000 \$	140,000	\$ 140,000	\$ 79,206	Merrimack Merrimack	No No	\$ 28.52 \$ 28.52	\$ - e	Deferred. Not avialable due to impact of COVID19 on manufacturing. Deferred until 2020.
Locker Room Benches @ Distribution Facility	Permanent Benches for Male & Female locker rooms.	n/a	DW17-183	26,101	2/2/2018	\$ 7,500	Yes	\$ 7,500 \$	140,000	\$ 140,000	3 79,200	Merrimack	Yes	\$ 28.52	ş -	Defered until 2020. Defered until 2021 due to COVID19 delays.
Locker Room Deep Wash Sinks	Deep stainless wash sinks to replace existing sinks in male & female locker rooms.	n/a	DW17-183	26,101	2/2/2018	\$ 7,500	Yes	\$ 7,500 \$	7,500	ş -		Merrimack	Yes	\$ 28.52	\$ -	Deferred until 2021 due to COVID19 delays.
Office Space for Const & Maint Supervisor	Permanent office space for Contruction & Maintenance Supervisor. Repair Hill Sides @ 16 DWH and overseed with erosion mix.	n/a 2008276	DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 12,000	Yes	\$ 12,000 \$ \$ 12,000 \$	- 12000	2 12.550	\$ 15,350	Merrimack Merrimack	Yes	\$ 28.52	\$ - \$ 438	Deferred until 2020 due to COVID19 delays.
Landscape improvements Automatic Entrance Gate @ Distribution Facility	Replace manual gate @ Distribution facility with automatic gate.	2006276	DW17-183	0.1 DSRR	2/2/2016	\$ 12,000 \$ 10,000	Yes No	\$ 12,000 \$	12,000		\$ 15,350	Merrimack	Yes Yes	\$ 28.52 \$ 28.52		Work delayed on long range gate reader until 2021, due to COVID19.
Emergency Gas Detection Meters	Emergency Gas Detection Meters	2006033	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ - \$	10,411		1	Merrimack	Yes	\$ 28.52		Replace exsisting failed tritector.
Replacement Equipment/Excavator Trailer	Replacement Equipment/Excavator Trailer	2007566	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ - \$	-	\$ 19,457	\$ 17,917	Merrimack	No	\$ 28.52	\$ -	
Buyout Lease of HP T2530PS Large Format Printer (OPS)	Buyout Lease of HP T2530PS Large Format Printer (OPS).	2008268	DW17-183	26,101	2/2/2018	\$ -	Yes	s - s	-	\$ 6,994	\$ 4,995	Merrimack	No	\$ 28.52	ş -	
West Hollis Street Check Valve Pit NWS Improvements - Manchester Street	Install at the intersection of W. Hollis St and Panther Dr. Install 1700 LF of 24 inch DI and new Fencing.	n/a 2000383	DW17-183	26,101 DWGTF	2/2/2018	\$ 88,000 \$ 125,000	Yes	\$ - \$ \$ 140,000 \$	140,000	\$ 86,000	\$ 85,059	Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13	\$ - \$ 2,308	Deferred
NWS Improvements - Deerwood Dr. Northwest Blvd Loop	Add 3400 LF of 20 inch HDPE including RR pipe jacking.	2000386		DWGTF		\$ 40,000	Yes	\$ 25,000 \$	25,000	\$ 18,500	\$ 19,576	Nashua	Yes	\$ 27.13	\$ 531	
NWS Improvements Veteran's Rd/Route 101A Loop	Add 2200 LF of 12 inch DIPCL to close two loop major dead ends.	2000384		DWGTF		\$ 125,000	Yes	\$ 125,000 \$	125,000			Nashua	Yes	\$ 27.13	\$ 3,407	
NWS Improvements Tinker Road Paving and restoration Simon & Will Street - Paving	NWS Improvements Tinker Road Paving and restoration. Simon & Will Street - Paving	2000385 2000387	DW17-183	DWGTF 26,101	2/2/2018	\$ 125,000 \$ 30,000	Yes Yes	\$ 32,000 \$ \$ 30,000 \$	32,000	4	\$ 125,458	Nashua Nashua		\$ 27.13 \$ 27.13	\$ 3,404 \$ -	Deferred
Garden Street - Final Paving	Garden Street - Final Paving	2000388	DW17-183	26,101	2/2/2018	\$ 18,000	Yes	\$ 18,000 \$	18,000	\$ -		Nashua	Yes	\$ 27.13	\$ -	Deferred
City of Nashua Sewer - Lake Street	Replace 2950 LF of 6 inch CI with 12 inch DIPCL (Paving).	2000378	DW17-183	26,101	2/2/2018	\$ 30,000	Yes	\$ 30,000 \$			\$ 10,589	Nashua	Yes	\$ 27.13	\$ 287	
Merrimack River Intake	Year Round Raw Water Intake from Merrimack River	2000380	DWGTF Financing DW19-026	26,247	5/3/2019	\$ 140,375	Yes	\$ 192,109 \$	192,109	\$ 192,109	\$ 140,375	Merrimack	Yes	\$ 28.52	\$ 4,003	Amount of MRI raw water intake funds still avialable from DWGTF.
Merrimack River Intake	Year Round Raw Water Intake from Merrimack River	2000380	DW17-183	26,101	2/2/2018	\$ 221,625	Yes	\$ 247,891 \$	260,000	\$ 260,000	\$ 253,590	Merrimack	Yes	\$ 28.52	\$ 7,232	Project cost increased by \$80,000 to develop Source Water Protection plan required by NHDES.
Replace Kessler Farm booster pump package	Replace 31 year old package booster station pumps and piping.	2000389	DW17-183	26,101	2/2/2018	\$ 75,000		\$ 178,000 \$	200,600	\$ 188,000	\$ 190,901	Nashua	Yes			Budget to be increased as a portion of site work for the Kessler Farm Tank was transferred to this project. Winning project bid
	Complete Risk and Resilience Assessment and Emergency Response Plan as required by the						Yes				· ·			\$ 27.13	\$ 5,179	was higher than engineer's estimate.
Risk and Resilience Assessment and Emergency Response Plan	USEPA.	2002053	DW17-183	26,101	2/2/2018	\$ 120,000	Yes	\$ 120,000 \$	120,000	\$ 120,000	\$ 117,274	Various	No	\$ 28.45	ş -	
Asset Management - GIS QA/QC ahead of NEW CMMS	GIS QA/QC Ahead of NEW CMMS	1900414, 2000362	DW17-183	26,101	2/2/2018	\$ 40,000	Yes	\$ 40,000 \$	40,000		\$ 56,448	Merrimack	Yes	\$ 28.52	\$ 1,610	
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.	1502511, 2003423 1502512, 2003422	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 380,000 \$ 87,000	Yes	\$ 274,000 \$ \$ 63,000 \$	209,000			Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13	\$ 6,975 \$ 3,420	Restoration work slated for 2021 was completed in 2020.
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		\$ 134,733	Nashua	Yes	\$ 27.13	\$ 3,655	
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	\$ 38,000 \$ 226,000	Yes	\$ 27,000 \$ \$ 162,000 \$	54,300 173,900		\$ 182,847	Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13	\$ - \$ 4.061	Included in row above.
Sarasota Ave (Lake St Area PH2)	Replace 250 LF of 6 inch CI with 8 inch DIPCL. Replace 250 LF of 6 inch CI with 8 inch DIPCL.	n/a	DW17-183	26,101	2/2/2018	\$ 226,000	Yes	\$ 62,000 \$		· =,		Nashua	Yes	\$ 27.13	\$ 4,961	Required the use of temporary main that was not initially part of the design.
Amherst Dodge Rd Watermain Abandonment	Abandon Approx. 700 LF of AC Main, Transfer 2 services & 1 Hyd to parallel 8" DIPCL	2001229	DW17-183	26,101	2/2/2018	\$ 20,000	Yes	\$ 71,000 \$	105,750	\$ 146,000	\$ 149,710	Amherst	No	\$ 32.93	_	Scope of job expanded to replace multiple broken or leaking valves discovered during the shutdown process.
	water main.														\$ -	
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	No	\$ 60,000 \$	60,000	\$ 60,000	\$ 65,161	Nashua	No	\$ 27.13	ş -	Design only. Construction deferred until 2021.
Replace Engineering Pickup	2020 Ford Escape SE - Replace Vehicle #101	2006652	DW17-183	26,101	2/2/2018	\$ 35,000	Yes	\$ 35,000 \$	24,431		\$ 23,470	Merrimack	No	\$ 28.52	\$ -	
Replace Engineering SUV #34	2020 Ford Escape SE - Replace Vehicle #401 Per tariff	2006755	DW17-183	26,101	2/2/2018	\$ 30,000	Yes	\$ 30,000 \$	23,474			Merrimack	No	\$ 28.52	\$ -	144 P. J. T. W. S. J. J. M. M. 1604
Investment in developer installed services at 1xannual revenue Asset Management Trimble R2 Units	Add two new GPS units for additional staff.	n/a 2003535	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 60,000 \$ 24,000	Yes Yes	\$ 84,000 \$ \$ 24,000 \$	62,000	,	,	Various Merrimack	Yes No	\$ 28.45 \$ 28.52	\$ 2,265	136 Developer Installed Services through 12/31/2020.
Asset Management Thinote K2 Onto	And two new Orly units for additional state.	2005355	2.0.1.	,,	2,2,200	24,000	103	24,000 9	24,000	\$ 24,000	\$ 21,703	Merrinack	100	ş 20.32	-	Added Pump Station roof hatches and roofing to facilitate pump replacement in the future. Bid price received for new pump was
Merrimack River Pumping Station	Add third 350 horsepower pump and motor with variable frequency drive.	2003759	DW17-183	26,101	2/2/2018	\$ 260,000	Yes	\$ 360,000 \$	600,000	\$ 600,000	\$ 485,114	Merrimack	Yes			higher than anticipated. Added Electrical system upgrades for code and redundency. There will be an additional \$140,000 of
														\$ 28.52	\$ 13,835	expenditures to complete this project in 2021.
Crescent Street (sewer related)	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	26,101	2/2/2018	\$ -	Yes	\$ 44,700 \$	33,600		_	Nashua	Yes	\$ 27.13	\$ 1,484	Added due to Kessler Farm Tank deferral to 2021.
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 400 LF of 4 inch CI with 680lf of 6 inch DIPCL (creates a looped system).	2003533	DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ -	Yes	\$ 8,000 \$	15,000			Nashua	Yes	\$ 27.13	\$ -	Added due to Kessler Farm Tank deferral to 2021.
School Street Fulton Street(Lake St Area PH2)	Replace 180 LF of 2" CL with 4" DIPCL - addition to Lake St Ph 2 project.	2003533	DW17-183	26,101	2/2/2018	s -	Yes Yes	\$ 244,000 \$ \$ 40,000 \$	166,850 93,950			Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13		Added due to Kessler Farm Tank deferral to 2021, restoration work that was planned for 2021 was completed in 2020. 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 \$,		\$ 49,820	Nashua		\$ 27.13		Added due to Kessler Farm Tank deferral to 2021.
Ash St (Lake St Area PH2)	Replace 480 LF of 6 inch CI with 8 and 6 inche DIPCL - added to Lake StPh 2.	2007540	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 102,000 \$	157,450			Nashua	Yes	\$ 27.13		Added due to Kessler Farm Tank deferral to 2021.
Fields Grove Crossing (Lake St Area PH2)	Cross City park with 16" HDPE direction bore - 890 LF- added to Lake St Ph 2.	2007557	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 60,000 \$	60,000			Nashua	Yes	\$ 27.13		Added due to Kessler Farm Tank deferral to 2021.
Pine St (Lake St Area PH2) Manatee and Sarasota intersection work	Cut in tees for manatee and sarasota. Emergency water main replacement - 175' of Galv (1921) replaced with 4" PVC.	2007541 2007544	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ -	Yes	\$ - \$ \$ 38,000 \$	45,300	\$ 31,500 \$ 37,000	1,	Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13		Intersection work associated with Sarasota and Manatee projects. Added due to Kessler Farm Tank deferral to 2021.
Ingalls St - complete in 2020	Paving related to water main replacement - replace 56' of 12" CI and 230' of 8" CI (1925-					9 -	Yes						res	g 2/.13	908	PARICU GIG TO PRESENT PARITY PARICUCINAL TO 2021.
Walnut St - water main (added to crescent/school st project)	unlined) with 286' of 12" DIP.	2006558	DW17-183	26,101	2/2/2018	S -	Yes	\$ 70,000 \$	120,600	\$ 84,000	\$ 74,774	Nashua	Yes	\$ 27.13		Added due to Kessler Farm Tank deferral to 2021, \$\$ from paving contribution in row 67 added in.
Walnut St (paving contribution)	Paving Contribution for paving in 2021.		DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 20,000 \$	-	\$ -	+	Nashua	Yes	\$ 27.13	\$ -	Added due to Kessler Farm Tank deferral to 2021, \$\$ in row 66. Added due to Kessler Farm Tank deferral to 2021. The majority of this project will be occurring in 2021 due to later than
Coburn Woods (all side streets)	Replace 4400 LF of 2 inch PVC with 4 inch DIPCL.	2002685	DW17-183	26,101	2/2/2018	-	Yes	\$ 900,000 \$	150,000	\$ 118,000		Nashua	Yes	\$ 27.13	ş -	Added due to Kessler Farm Tank deferral to 2021. The majority of this project will be occurring in 2021 due to later than expected bid opening.
Pennichuck Brook Ponds Aerial Survey	Pennichuck Brook Ponds Aerial Survey	2006039	DW17-183	26,101	2/2/2018	s -	Yes	\$ - \$	21,700			Nashua	No	\$ 27.13	\$ -	Drouight response. Survey of exposed bottow of Harris and Bowers Pond.
Upgrade SCADA historian software, new hardware	Upgrade SCADA historian software, new hardware.	2000376	DW17-183	26,101	2/2/2018	\$ 65,000	Yes	\$ 65,000 \$	65,000	\$ 65,000	\$ 54,749	Nashua	Yes	\$ 27.13	\$ 1,485	
Barrer Day LOD arras	Remark Day LOD annual Co.	1901734, 1907078,		0.1 DSRR			N.T.					Violenz /Nr · ·	N.T.		e	Roman Day LOD construction
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	No No	\$ 10,000 \$ \$ 20,000 \$	10,000		,	Nashua/Merrimack Nashua/Merrimack	No No	\$ 27.83 \$ 27.83	s -	Bowers Dam LOD response engineering Deferred
Supply Pond LOD response engineering	Supply Pond LOD response engineering	1907076, 2000373		0.1 DSRR		\$ 20,000	No	\$ 20,000 \$	32,000			Nashua/Merrimack	No	\$ 27.83 \$ 27.83	ş -	Deferred
Rebuild Pump 1, Northwest, Nashua	Final costs for reinstallation and alignment.	1619402, 1701898,	DW17-183	26,101	2/2/2018	\$ 5,000	Yes	\$ 53,457 \$	3,457			Nashua	Yes			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 \$				Nashua	No	\$ 27.13 \$ 27.13		NWS Pump #2. See row 94 below.
New vehicle for we electrician	a mai costs for the up of new truck purchased in 2019.	200043/	L/W1/-103	20,101	2/2/2010	2,000	Yes	g 3,000 \$	3,000	0,000 ي	g 2,300	ı Nasnua	INO	g 2/.13	· -	D : 4000 DWW Left At A VCDC B 1 1 1 1 1 1 1 1 1
MSDC payment to MWW	MSDC payment for MSDC gallons beyond that currently purchased.	2009023	DW17-183	26,101	2/2/2018	\$ -	Yes	s - s	-	\$ 166,346	\$ 166,347	Various	No	\$ 28.45		During 2020, PWW used 47,341 MSDC gallons beyond what had been purchased. 3,450 of the MSDC gallons were purchased with cash collected via MSDC tariff. The remaining 43,891 gallons were used by existing customers.
										1	 				\$ -	105071 ganoto nece used by Calsting Customers.
n . n . 1 / 1 2 .	n . n . 1/ 1 " .	60, 61, 62 & 63	DW17-183	26,101	2/2/2018		**					**		\$ 28.45		O.D D D 1/0 1 14 14 /40/2000 1 12 14 14 14 14 14 14 14 14 14 14 14 14 14
Booster Pump replacement/rebuild Booster Pump replacement/rebuild	Booster Pump replacement/rebuild Replace Booster #1, Donald Street	workorders 2008275	DW17-183	26,101	2/2/2018	\$ 40,000 \$	Yes Yes	\$ 40,000 \$	35,000	\$ 25,000 \$ 6,000		Various Bedford	Yes Yes	\$ 24.62		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	WTP Intermediate pump #2 electric motor rebuild	2008275	DW17-183	26,101	2/2/2018	s -	Yes	ş - s	12,644			Nashua	Yes	\$ 24.62 \$ 27.13	\$ 131 \$ 343	
Well Pump replacements	Well Pump replacements	60, 61, 62 & 63	DW17-183	26,101	2/2/2018	\$ 15,000	Yes	\$ 10,000 \$; - - ,-,·	\$ 5,025		Various	Yes	\$ 28.45		2 well number repaired/replaced through 12/31/20
r .r		workorders		=,	., -,					- 5,023					\$ 431	r r .tt
Chemical Feed nump replacements	Chamical Feed pump replacements	60, 61, 62 & 63 workorders	DW17-183	26,101	2/2/2018	\$ 10,000	Yes	\$ 6,757 \$	3,500	\$ 4.939	\$ 4.939	Various	Yes	\$ 28.45	e 1	3 Chemical Pumps Repaired/Replaced through 12/31/2020.
Chemical Feed pump replacements Chemical Feed pump replacements	Chemical Feed pump replacements Rebuild Ferric Feed Pumps 2 & 3	2002269	DW17-183	26,101	2/2/2018	\$ 10,000 \$ -	Yes	\$ 6,/5/ \$ \$ 3,243 \$			4 1,500	Various	Yes	\$ 28.45	\$ 141 \$ 101	
Harris Dam raise earthen embankment, raise dike wall	Harris Dam raise earthen embankment, raise dike wall.	n/a	DW17-183	26,101	2/2/2018	\$ 965,000	Yes	\$ - \$	- Jan-13	\$ -		Nashua/Merrimack	Yes	\$ 27.83		Deferred until 2021, Engineering services in 2020, See Row 72.
Misc. Structural Improvements	Misc. Structural Improvements	n/a	DW17-183	26,101	2/2/2018	\$ 20,000	Yes	\$ 16,700 \$	-	\$ -		Various		\$ 28.52	ş -	
Misc. Structural Improvements	Replace Fire Alarm System Control Boards - Damaged by Lightning Strike.	2006032	DW17-183	26,101	2/2/2018	\$ -	Yes	s - s	15,120	\$ 15,120	\$ 14,242	Nashua	Yes	\$ 27.13	\$ 386	
											-					

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

								Estimated Projec	Estimated Project	Estimated Projec					QCPAC Eligible
Project Name / Description			Einanaina Daaltat Na	NUDIC Order No	Date of NHPUC Order	Board Approved	QCPAC Eligible?	Cost as of 6/30/2020	Cost as of 9/30/2020	Cost as of 11/30/2020	Final Project cost as of 12/31/2020	Community	Taxable	2020 Tax	Property Tax Evaluation for Change (Addition / Deletion from Reard Appeared 2020 Coper Budget
Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHFUC Order	2020 Capex Budget	Engibler	6/30/2020	9/30/2020	11/30/2020	as of 12/31/2020	Community	1 axable	Rate (1)	Expense Explanation for Change/Addition/Deletion from Board Approved 2020 Capex Budget
Misc. Structural Improvements	Replace Maple Haven Pump Station Rood.	2008269	DW17-183	26,101	2/2/2018		Yes	\$ -	\$ -	\$ 4,235	\$ 5,170	Derry	Yes	\$ 29.06	S 150
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased	n/a	DW17-183	26,101	2/2/2018	\$ 17,500	Yes	\$ 8,437	\$ 8,473	s -		Nashua	Yes	\$ 27.13	
Miscellaneous Equipment Purchased	Replace Sewage Ejection Pump, Snow Station	2003515	DW17-183	26,101	2/2/2018	S -	Yes	\$ 3,300			\$ 3,287	Nashua	Yes	\$ 27.13	
Miscellaneous Equipment Purchased	WTP Replace Filter-to-Waste Valve	1918552	DW17-183	26,101	2/2/2018	S -	Yes	\$ 2,353	\$ 2,353	\$ 2,353	\$ 2,353	Nashua	Yes	\$ 27.13	\$ 64 This was in 2019 budget, but did not go useful until 2020.
Miscellaneous Equipment Purchased	Replace Sludge Pump #2, WTP.	2004525	DW17-183	26,101	2/2/2018	S -	Yes	\$ 3,410					Yes	\$ 28.52	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	n/a	DW17-183	26,101	2/2/2018	\$ 30,000		\$ 8,500				Various	Yes	\$ 28.52	S -
Miscellaneous SCADA/Electrical	Replace VFD, Pump #3 - High Pines Booster	2003512	DW17-183	26,101	2/2/2018	S -	Yes	\$ 9,500			\$ 9,523	Nashua	Yes	\$ 27.13	\$ 258
Miscellaneous SCADA/Electrical	Install cellular SCADA device, HI and LO, Derry.	2004180	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 2,500	\$ 2,500	\$ 2,500	\$ 2,354	Derry	Yes	\$ 27.02	\$ 64
Miscellaneous SCADA/Electrical	SCADA control system, Powder Hill, Donald St.	2004989	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 9,500	\$ 9,500	\$ 9,500)	Bedford	Yes	\$ 27.02	\$ - Deferred
Miscellaneous SCADA/Electrical	Replace Intermediate Pump 3, VFD at WTP.	2008126	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ -	\$ -	\$ 5,500)	Nashua	Yes	\$ 27.13	\$ - Deferred
Rebuild NWS booster pump #2	Rebuild NWS booster pump #2.	2003436	DW17-183	26,101	2/2/2018	\$ 40,000	Yes	\$ -	\$ 50,000	\$ 50,000	\$ 43,464	Nashua	Yes	\$ 27.13	\$ 1,179
WTP Structural/HVAC	WTP Structural/HVAC	n/a	DW17-183	26,101	2/2/2018	\$ 10,000	Yes	\$ 10,000	\$ 10,000	\$ -		Nashua	Yes	\$ 27.13	s -
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	s -
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	n/a	DW17-183	26,101	2/2/2018	\$ 10,000	Yes	\$ 10,000	\$ -	\$ -		Various	Yes	\$ 27.13	\$ -
Replace Vehicle 200	Replace Vehicle 200	2007616	DW17-183	26,101	2/2/2018	\$ 40,000	Yes	\$ 40,000	\$ 35,000	\$ 35,000	\$ 31,949	Nashua	No	\$ 27.13	\$ -
Replace Vehicle 201	Replace Vehicle 201	2004137	DW17-183	26,101	2/2/2018	\$ 55,000	Yes	\$ 55,000	\$ 55,000	\$ 55,000	\$ 53,062	Nashua	No	\$ 27.13	\$ -
Replace Vehicle 63	Replace Vehicle 63	n/a	DW17-183	26,101	2/2/2018	\$ 40,000	Yes	\$ 40,000	\$ -	\$ -		Nashua	No	\$ 27.13	\$ - Deferred
Repair/Replace Soffit and Fascia, Boat House Bldg.	Repair/Replace Soffit and Fascia, Boat House Bldg.	n/a	DW17-183	26,101	2/2/2018	\$ 30,000	Yes	\$ 30,000	\$ -	\$ -		Nashua	Yes	\$ 27.13	\$ - No contractors available. Deferred until 2021.
Carbon media changeout-filters 5 & 6	Carbon media changeout-filters 5 & 6.	2003490	DW17-183	26,101	2/2/2018	\$ 500,000	Yes	\$ 500,000	\$ 450,000	\$ 450,000	\$ 495,331	Nashua	Yes	\$ 27.13	\$ 13,438
Install new Day Fuel Tank, Controller and related equip., FWPS Generator	Install new Day Fuel Tank, Controller and related equip., FWPS Generator.	n/a	DW17-183	26,101	2/2/2018	\$ 75,000	Yes	\$ 75,000	S -	ş -		Nashua	Yes	\$ 27.13	\$ - Deferred until 2021. Project scope being evluated under new code.
SCADA PLC Replacements	SCADA PLC Replacements	n/a	DW17-183	26,101	2/2/2018	\$ 75,000	Yes	\$ 75,000	-	\$ -		Nashua	Yes	\$ 27.13	
Replace 2 Hach Turbidimeters and associated control module	Replace 2 Hach Turbidimeters and associated control module.	2007545	DW17-183	26,101	2/2/2018	\$ 10,000	Yes	\$ 10,000	\$ 18,000	\$ 18,000	\$ 16,929	Nashua	Yes	\$ 27.13	\$ 459 Changed from 2 to 4 units.
Rebuild Merrimack River pump #2	Rebuild Merrimack River pump #2.	2008305	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ -	S -	\$ 93,100	\$ 93,090	Merrimack	Yes	\$ 28.86	
Supply Pond Dam Modifications per NHDES LOD	Engineering, Permitting, Design Services	2008270		0.1 DSRR		\$ -	No	\$ -	S -	\$ 69,000)	Merrimack/Nashua	. No	\$ 27.55	\$ - Engineering Design Work only
Harris Dam Raise Earthen Embankment, Dike wall	Engineering, Permitting, Design Services	2008271		0.1 DSRR		\$ -	No	\$ -	S -	\$ 90,000)	Merrimack/Nashua	. No	\$ 27.55	\$ - Engineering Design Work only
Munis FER Enhancements	Munis FER Enhancements	n/a	DW17-183	26,101	2/2/2018	\$ 35,000	Yes	\$ 35,000				Merrimack	No	\$ 28.52	\$ -
Misc Hardware	Misc Hardware	n/a	DW17-183	26,101	2/2/2018	\$ 20,000	Yes	\$ 6,945	-	, , , , , , , , , , , , , , , , , , , ,		Merrimack		\$ 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	Laptop Purchase for Regulatory Department - CAH	2002761	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 1,400				Merrimack	No	\$ 28.52	
Misc Hardware	Laptop Purchase for onboarding employees (5)	2002930	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 9,995	,			Merrimack	No	\$ 28.52	
Misc Hardware	Laptop Purchase for New Employee C. Harding	2005120	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ -	\$ 2,491					\$ 28.52	
Misc Hardware	Spare Laptop Purchase	2005238	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ -	\$ 1,005	, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,		No	\$ 28.52	
Misc Hardware	New Laptop for Accounting new hire - Payroll Admin	2006388	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ -	\$ 1,160	\$ 1,160	\$ 1,160		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	
Misc Software	Macola Development Environment for testing upgrade.	2002276	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 5,280	- /				- 10	\$ 28.52	
Misc Software	Tyler Notify	2003317	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 3,840	,	,	,	Merrimack	No	\$ 28.52	· ·
Misc Software	MSL Server License for Munis Upgrade	2005976	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ -	\$ 6,350	\$ 6,350)	Merrimack	No	\$ 28.52	
Website upgrades	Website upgrades	n/a	DW17-183	26,101	2/2/2018	\$ 8,000	Yes	\$ 8,000	\$ -	\$ -		Merrimack	No	\$ 28.52	S -
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	\$ 30,000	\$ 30,000	\$ 16,145	Merrimack	No	\$ 28.52	\$ -
Veeam Backup of O365	Backup documents stored in the cloud within Office 365.	n/a	DW17-183	26,101	2/2/2018	\$ 2,000	Yes	\$	\$ 2,000	\$ 2,000		Merrimack	No	\$ 28.52	\$ -
Client Remote Control Software	5 licenses	n/a	DW17-183	26,101	2/2/2018	\$ 1,300	Yes	\$ -	\$ 1,300	\$ 1,300)	Merrimack	No	\$ 28.52	s -
			DW17-183	26,101	2/2/2018										
CMMS replacment project	Replace Synergen/WAM with newer more cost effective/improved functionality system.	2000368	DW17 103		=,=,=	\$ 600,000	Yes	\$ 600,000	\$ 600,000	\$ 450,000	¥ 100,200	Nashua	Yes	\$ 27.13	
New Building	New Building	2001988		0.1 DSRR		\$ 78,300	No	\$ 140,000	,	,		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 sytem. New system will not work with existing hardware.	2100043		0.1 DSRR		\$ 70,000	No	\$ 60,000	\$ 60,000	\$ 60,000	\$ 77,830	Nashua	Yes	\$ 27.13	\$ 2,112
JAMF - IOS mobile Management	Software configuration support for JAMF product.	2004171	DW17-183	26,101	2/2/2018	\$ 6,000	Yes	\$ 6,000	\$ 6,000	\$ 6,000	\$ 5,400	Merrimack	No	\$ 28.52	\$ -
Document Management	Software to allow for document tracking and flow management (Accounting).	n/a	DW17-183	26,101	2/2/2018	\$ 8,000	Yes	\$ 5,400	\$ 5,400	\$ -		Merrimack	No	\$ 28.52	s -
Click Software move to MS sql	Move Click Database from Oracle to MS sql in order to retire Oracle after the WAM replacement project is complete.	2003421	DW17-183	26,101	2/2/2018	\$ 45,000	Yes	\$ 19,500	\$ 19,500	\$ 19,500	\$ 140,012	Merrimack	No	\$ 28.52	\$ -
Lemon Street, Final Restoration	2020 Carryover Costs	2000693	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 1,500				Nashua	Yes	\$ 27.13	
Lowell Street, Final Restoration	2020 Carryover Costs	2000694	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 2,500				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.	N/A	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ -	S -	\$ 162,383				\$ 27.13	
Retainage	Held on various projects listed above. Will be paid out in 2021.	N/A	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ -	S -	\$ (54,805		Nashua	Yes	\$ 27.13	
FALOC interest	Interest accrued on PWW FALOC from 5/1/2020 to 4/1/2021.	*****	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ -	S -	\$ 70,000		Various	No	\$ 28.45	
	2020 Carryover Costs	2000696	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 21,750				Nashua	Yes	\$ 27.13	
Warren Street, Final Restoration New Drum Hand Truck	2020 Carryover Costs	2000697	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ -	Yes	\$ 1,500	\$ 1,500	\$ 1,500				\$ 27.13	
	New Drum Hand Truck	2003534 2100054	DW17-183 DW17-183	26,101	2/2/2018	ə -	Yes	1	-		\$ 1,383		Yes	\$ 27.13	
Replace Sludge Discharge Pump #1 M-Scopes & Metal Detectors	Replace Sludge Discharge Pump #1 M-Scopes & Metal Detectors	2100054	DW17-183 DW17-183	26,101	2/2/2018	9 - e	Yes Yes	+			\$ 3,522 \$ 9,910	Nashua	Yes Yes	\$ 27.13 \$ 27.13	
		1806837, 1917427		0.1 DSRR	2,2,2010	\$	No	+			\$ 9,910	Nashua Nashua		\$ 27.13 \$ 27.13	
office opace Framming	Ottee Opice Finning		nnichuck Water Works Proj		al Expenditure Budget -	\$ 9,995,700	110	\$ 6.957.314	\$ 6,502,362	\$ 6.876.855					
		Fei		avao rotai Capiti		- 2,223,700		7 0,737,314	- 0,502,502	- 0,070,033	, 0,731,200	1 Tojecteu i rope	y and Exper	ussociatel	

			0.1 DSRR Funded project Total	1- \$	229,300	\$ 344,800	\$	344,800	\$	493,800	\$	849,428
		Tot	al Projected PWW QCPAC Capex for 2020	- \$	9,766,400	\$ 6,612,514	\$	6,157,562	\$	6,383,055	\$	6,101,832
		Total Projected PWW 0	QCPAC Capex for 2020 funded with Bonds	- \$	9,211,025	\$ 6,098,405	\$	5,643,453	\$	5,835,446	\$	5,605,797
		Amount funded by	DWGTF Northwest System Improvements	- \$	415,000	\$ 322,000	\$	322,000	\$	355,500	\$	355,660
		Amount fu	inded by DWGTF Merrimack River Intake	- \$	140,375	\$ 192,109	\$	192,109	\$	192,109	\$	140,375
		Project Ans	nual P&I on 2020 QCPAC eligible Projects	- \$	564,236	\$ 381,198	\$	354,706	\$	367,530	\$	351,395
imated Bond Terms (Bonds to be sold in April 2021) -	30	Years @	4.056692%	\$	536,347	\$ 355,103	ş	328,612	ş	339,791	ş	326,419
Merrimack River Intake DWGTF Terms -	30	Years @	3.38%	\$	7,518	\$ 10,289	S	10,289	\$	10,289	S	7,518
Northwest System Improvements DWGTF Terms -	30	Years @	2.704%	\$	20,371	\$ 15,806	\$	15,806	\$	17,450	S	17,458

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

Pennichuck Water Works, Inc. DW 21-023 Projected 2021 QCPAC Capital Expenditures 2/11/2021 6/30/2021 Update, Revised 9/1/21 DOE DR 2-3, Revised 9/21/21 DOE TS 2-2 11/30/2021 Update

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			!											
			Financing Docket	!	Date of NHPUC	Approved		Estimated Project	Estimated Project Cost as of	Estimated Project Final Pro Cost as of cost as			QCPAC Eligi Property Ta	
Project Name/Description	Project Description	Work Order#	No.	NHPUC Order No.	Order	Budgeted Amount (QCPAC Eligible	Cost as of 6/30/202	9/30/2021	11/30/2021 12/31/20	O21 Community	Taxable	Tax Rate (1) Expense	
Foreman Truck 2021 New Services (10)	Upfit of Foreman's Truck body at JC Madigans. Single Family, Owner Build, New Homes	2107517 Routine	DW20-157	0.1 DSRR 26,459	3/2/2021	\$ 61,000 \$ 50,000	No Yes	\$ 61,000 \$ 80,000	\$ 75,000	\$ 61,000 \$ 72,000	Merrimack Various	No Yes		1,797 12 New Services installed through 11/30/21. Projecting one installation by year end.
2021 Renewed Services (20) 2021 Hydrants (15)	Replacement of Failed Services Replacement of non-functional hydrants	Routine Routine	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 110,000 \$ 90,000	Yes Yes	\$ 60,000 \$ 60,000		\$ 64,000 \$ 48,000	Various Various	Yes Yes		1,797 18 Renewed Services installed through 11/30/21. Projecting one service renewal by year end. 1,198 6 Hydrant installed/repaired through 11/30/21. Projecting 2 more hydrant installations/repairs by year end.
2021 Gates (10)	Replacement of Failed Gate Valves	Routine	DW20-157	26,459	3/2/2021	\$ 40,000	Yes	\$ 120,000	\$ 120,000	\$ 95,000	Various	Yes	\$ 24.96 \$ 2,	2,995 22 Gates installed/repaired through 11/30/21. Projecting 2 moregate installs/repairs by year end.
2021 Radios (4250) 2021 Radios (4250)	Replacement of failed radios Yr 1 of 7 Replacment of all PWW Radios installed in 2007 (4000), New Radios for nev	Routine 2101626	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 425,000	Yes Yes	\$ 11,000 \$ 400,000	\$ 190,000	\$ 14,500 \$ 135,000	Various Various	Yes Yes	\$ 24.96 \$ 4,	275 132 failed radios installed through 11/30/21. Projecting replacing 15 more failed radios by year end. 4,742 785 Radios installed through 11/30/21. Projecting 600 more radio installs/replacements by year end.
2021 Meters (Growth) 5/8"-2" - Core & CWS (TBD) Replacement Utility Truck	New meters for new customers (250). Replacement of failed meters(250). Replacement for Truck #83 - 2011 F350, 110K miles, High maint costs & lots of body	Routine 2103610	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 50,000 \$ 70,000	Yes Yes	\$ 50,000 \$ 70,000		\$ 62,000 \$ 70,000	Various Merrimack	Yes No	\$ 24.96 \$ 1,3 \$ 22.51 \$	1,248 313 Meters installed through 11/30/21. Projecting 30 more new/replacement meters by year end.
Replacement Utility Truck	Replacement for Truck #9 - 2014 F350, 110K Miles, High maint costs & significant rus	2103609	DW20-157	26,459	3/2/2021	\$ 70,000	Yes	\$ 70,000	\$ 70,000	\$ 70,000	Merrimack	No	\$ 22.51 \$	
Replacement Full Size Pickup Replacement Full Size Pickup	Replacement for Truck #95 - 2008 Ford Ranger 110K miles did not pass inspection. Replacement for Truck # 20 - 2008 Ford Ranger 135K miles did not pass inspection.	2103612 NTD ²	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 45,000 \$ 45,000	Yes Yes	\$ 45,000 \$ -	\$ 45,000 S -	\$ 45,000 \$ -	Merrimack Merrimack	No No	\$ 22.51 \$ \$ 22.51 \$	- Deferred until 2022
Replacement SUV - Meter Reading	Replacement for vehicle #21 - 2013 Chevy Equinox 135k miles, high maint costs & sus	2103615	DW20-157	26,459	3/2/2021	\$ 35,000	Yes	\$ 35,000		\$ 35,000	Merrimack	No	\$ 22.51 \$	-
Landscape Improvements Replacement Valve/vac trailer	Irrigation system, loam & seed area at front of Distribution Building. Replacement for # 96 - 2010 EHWA Valvemate - Valve Turner not functional and can	NTD 2105021	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 15,000 \$ 65,000	Yes Yes	\$ 15,000 \$ 72,000		\$ - \$ 70,970	Merrimack Merrimack	Yes No	\$ 22.51 \$ \$ 22.51 \$	338 Deferred until 2022
Replacement Equipment Trailer Protectus Meter Upgrade	Replacement for # 53 - 14' BigTex Trailer - Excessive rust & rot and safety issues. Protectus Meter Upgrade	NTD NTD	DW20-157 DW20-157	26,459	3/2/2021	§ 7,500	Yes	\$ 7,500	\$ 7,500	S -	Merrimack	No	\$ 22.51 \$	Deferred until 2022
Valve Turner & Vac Truck	Replacement for #60 - 15 Year Vac/Valve Trailer with excessive rot, will not pass inspe	2103613	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 22,000 \$ 200,000	Yes Yes	\$ 22,000 \$ 200,000	\$ 200,000	\$ 25,000 \$ 200,000	Nashua Merrimack	Yes No	\$ 22.51 \$	-
Office Space for Const & Maint Supervisor Locker Room Deep Wash Sinks	Permanent office space for Contruction & Maintenance Supervisor Deep stainless wash sinks to replace existing sinks in male & female locker rooms.	NTD NTD	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 15,000 \$ 10,000	Yes Yes	\$ 15,000 \$ 10,000	-	S -	Merrimack Merrimack	Yes Yes	\$ 22.51 \$ \$ 22.51 \$	- Deferred until 2022 - Deferred until 2022
Locker Room Benches	Permanent Benches for Male & Female locker rooms.	NTD	DW20-157	26,459	3/2/2021	\$ 7,500	Yes	\$ 7,500		S -	Merrimack	Yes	\$ 22.51 \$ \$ 22.51 \$	- Deferred until 2022 - Deferred until 2022
Distribution Facility Bird Mitigation	Installation of 3/4" Bird Mitigation Netting to the Outside Vehicle/equipment covered sto	2105481	DW20-157	26,459	3/2/2021	s -	Yes	\$ 27,000	\$ 26,250	\$ 26,250	Merrimack	Yes	\$ 22.51 \$	Covered equipment storage area with open sides was being invaded by birds for nesting which resulted in large amount of bird feces. Netting will eliminate access of the brids to the roosting areas.
Brook Street	Replace 225 LF of 4 inch and 915 LF of 6 inch CI with 1140 LF of 8 inch DIPCL.	2102529	DW20-157	26,459	3/2/2021	\$ 103,000	Yes	\$ 100,000		\$ 83,000	Nashua	Yes	\$ 27.70 \$ 2,0	2,634 Adjusted for completed work
Hamilton Street Burritt Street	Replace 410 LF of 6 inch CI with 4 inch DIPCL. Replace 425 LF of 4 inch CI with 8 inch DIPCL.	2102528 2102532	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 33,000 \$ 24,000	Yes Yes	\$ 75,000 \$ 25,000		\$ 61,000 \$ -	Nashua Nashua	Yes Yes		1,945 Adjusted for completed work 789 Adjusted for completed work
Burritt Street	Replace 125 LF of 4 inch CI with 4 inch DIPCL.	combined with above 2102534	DW20-157 DW20-157	26,459 26,459	3/2/2021	\$ 12,000 \$ 56,000	Yes	\$ 15,000 \$ 60,000	\$ 14,300	\$ 37,000 \$ 45,000	Nashua Nashua	Yes Yes	\$ 27.70 \$	396 This budget was combined with other Burnitt Street budget.
Verona Street Sansota Ave	Replace 675 LF of 6 inch CI with 8 inch DIPCL. Replace 250 LF of 6 inch CI with 8 inch DIPCL.	2102531	DW20-157	26,459 26,459	3/2/2021	\$ 24,000	Yes	\$ 18,000	\$ 32,730	\$ 36,000	Nashua	Yes	\$ 27.70 \$	1,418 Adjusted for completed work 907 Adjusted for completed work
Merrimack River Pumping Station Kessler Farm Tank Replacement	Add third 350 horsepower pump with electrical and Structural Improvements. Replaced 4 MG painted steel water tank with 4 MG prestressed, precast water tank.	2102256 2101759	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 140,000 \$ 4,000,000	Yes Yes	\$ 140,000 \$ 4,000,000		\$ 300,000 \$ 4,344,000	Merrimack Nashua	Yes Yes		3,151 Scope increased to include the rebuild of Pump #2 (350 horsepower)
Kessler Farm Tank Replacement Coburn Woods (all side streets)	Replaced 4 MG painted steel water tank with 4 MG prestressed, precast water tank. Replace 4400 LF of 2 inch PVC with 4 inch DIPCL.	2101759 2002685 & 2101761	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 4,000,000 \$ 1,855,000	Yes Yes	\$ 4,000,000 \$ 1,855,000	*	\$ 4,344,000 \$ 700,000	Nashua Nashua	Yes Yes	Q 27.70 Q 120,	3,268 Project scope reduced to 5 of the 28 side roads do to excavation difficulties
Merrimack River Intake	Merrimack River Intake Modified Source Water Protection Plan	2101763		0.1 DSRR		\$ 30,000	No	\$ 110,000	\$ 60,000	\$ 105,000	Merrimack	No	\$ 22.51 \$	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	Replace 1240 LF 6 inch Cl with 1240 LF 8 inch DIPCL.	NTD	DW20-157	26,459	3/2/2021	\$ 294,000	Yes	\$ 294,000		S -	Nashua	Yes	\$ 22.51 \$ \$ 27.70 \$	- Deferred to 2022 for Projects associated with sewer and other utility replacement
Euclid Avenue Ash Street	Replace 425 LF 6 inch Cl with 425LF 8 inch DIPCL. Final Paving	NTD 2102530	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 100,000 \$ -	Yes Yes	\$ 100,000 \$ 30,000		\$ - \$ 30,000	Nashua Nashua	Yes Yes	\$ 27.70 \$ \$ 27.70 \$	- Deferred to 2022 for Projects associated with sewer and other utility replacement 731 Not included in original board approved budget
Fields Grove Crossing	Dropped from Lake St Ph2 project - Survey work only			0.1 DSRR		\$ -	No	\$ -	\$ 11,000	\$ 11,000	Nashua	No	\$ 27.70 \$	-
Chataqua Avenue Manatee Street	Design work for 2022 project Final Paving, Includes Pine St Interesection	2101749 2102535	DW20-157	0.1 DSRR 26,459	3/2/2021	\$ - \$ -	No Yes	\$ 10,000 \$ 16,000	\$ 13,500	\$ 7,500 \$ 5,100	Nashua Nashua	No Yes		Not included in original board approved budget. Response to Nashua sewer replacement 374 Not included in original board approved budget
Niquette Drive	2022	2103936	DW20-157	26,459	3/2/2021	S -	Yes	\$ 52,000	\$ 52,800	\$ 52,800	Nashua	Yes		1,463 Not included in original board approved budget
Miami Street	Complete main replacement and restoration in 2021 - Replace 429 LF of 2" CL pipe with 8" DIPCL	2105496		0.1 DSRR	!	S -	No	\$ 177,100		\$ 5,000	Nashua	No	\$ 27.70 \$	Not included in original board approved budget. Response to Nashua sewer replacement. Materials not available in 2021 - design only
377 Main Street Repairs	Ph 2	2105498	DW20-157	26,459	3/2/2021	S -	Yes	\$ 25,000		\$ 21,700	Nashua	Yes		665 Not included in original board approved budget
Kendrick Street	Sewer work forces replacement of outdated 6" CI pipe with 466 LF of new 6" DIPCI. Nearby sewer work forces replacement of outdated 2" CI pipe with 205 LF of new 4" C900	2105500		0.1 DSRR 0.1 DSRR		S -	No No	\$ 189,640		\$ 8,000	Nashua	No No	\$ 27.70 \$	Not included in original board approved budget. Response to Nashua sewer replacement. Materials not available in 2021 - design only Not included in original board approved budget. Response to Nashua sewer replacement. Materials not available in 2021 -
Faxon Avenue	PVC	2105579			!	\$ -	No No	\$ 85,800	-	\$ 4,000	Nashua	No	\$ 27.70 \$	design only Not included in original board approved budget. Response to Nashua sewer replacement. Materials not available in 2021-
Faxon Street Sweet Hill Internnection	Sewer work forces replacement of outdated 6" CI pipe with 528 LF of new 6" DIPCL Connecting Pipeline and Meter Pit	2105580 NTD		0.1 DSRR NHDES SRF ot DWGTF	·····	\$ -	No Yes	\$ 219,400	\$ 8,000	\$ 8,000	Nashua Plaistow	No Yes	\$ 27.70 \$ \$ 26.20 \$	- design only - Deferred to 2022 for NHSRF Funding
Twin Ridge Interconnection	Connecting Pipeline and Meter Pit	NTD		NHDES SRF ot DWGTF		\$ 100,000	Yes	\$ -	S -	S -	Plaistow	Yes	\$ 26.20 \$	- Deferred to 2022 for NHSRF Funding - Deferred to 2022 for NHSRF Funding
PWW RRA- ERP Trimble GPS and Monitoring Equipment	Engineering Evaluations to Implement Recommendations Level Monitors, Pressure Monitors and Flow Monitors	2106256 NTD	DW20-157	0.1 DSRR 26,459	3/2/2021	\$ 200,000 \$ 32,000	No Yes	\$ 200,000 \$ 32,000		\$ 40,000 \$ 25,000	Various Various	No Yes	\$ 24.96 \$ \$ 24.96 \$	700
Merrimack River Watershed Council	Grant Match with othe Stakeholders \$40k for five years.	NTD	2.1.2.10.	0.1 DSRR		\$ 40,000	No	\$ 40,000	\$ 40,000	\$ 40,000	Various	No	\$ 24.96 \$	-
Investment in Developer Services Engineering Vehicle	1x Annual Revenue SUV Replaces a 2014 vehicle with over 150,000 miles.	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		\$ 75,000 \$ -	Various Nashua	Yes No	\$ 27.70 \$	 1,997 79 Developer installed services through 11/30/21. Projecting 10 developer installed services by year end. Purchase deferred to 2022
Engineering Vehicle	SUV Relpaces (#34) 2010 with over 196,000 miles.	NTD	DW20-157	26,459 0.1 DSRR	3/2/2021	\$ 30,000	Yes	\$ 30,000	S -	\$ -	Nashua	No	\$ 27.70 \$	- Purchase deferred to 2022
Route 101A Water Main Relocation Northwest Pressure System Analysis	Route 101A Water Main Relocation Milford, NH	2008857 & 2102006 2105480	+	0.1 DSRR 0.1 DSRR		S -	No No	\$ 505,000 \$ 25,000	,	\$ 15,000 \$ 25,000	Nashua Nashua	No No	\$ 27.70 \$ \$ 27.70 \$	Engineering only for 2021, NHDOT deferred construction to 2022 Not included in original board approved budget
Distribution System Analysis - HUDSON	Hydraulic modelling and Engineering analysis of the Pennichuck Distribution system's abiltiy to	2105499	+	0.1 DSRR		8 -	110	\$ 25,000		\$ 25,000 \$ 15,000	Nashua	No		Not included in original board approved budget
Pennichuck Brook Aerial Survey	provide water to Hudson, NH Pennichuck Brook Aerial Survey	2106254	+	0.1 DSRR		8 -	No No	S -	\$ 19,500	\$ 15,000 \$	Various	No	\$ 27.70 \$ \$ 24.96 \$	1400 IRCHIEGE III (August Oane approved outget
New Building	New Building 2021 Carryover Costs	2001988 & 2101751	+	0.1 DSRR		s -	No	\$ 35,000		15,000	Nashua	Yes	\$ 27.70 \$	970 Not included in original board approved budget
COO Vehicle Bon Terrain Contractual Payment	SUV Replaces a 2014 vehicle with over 150,000 miles. Phase 1 payment per SNHWC contract with Tana Properties.	NTD NTD	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 30,000 \$ 129,200	Yes Yes	\$ - \$ 129,200	\$ - \$ 129,200	\$ - \$ \$	- Nashua Amherst	No No	\$ 27.70 \$ \$ 26.29 \$	Not needed. This payment will not happen until 2022.
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild	Routine	DW20-157	26,459	3/2/2021	\$ 40,000	Yes	\$ 30,000	\$ 54,000	\$ 5,000	Various	Yes	\$ 24.96 \$ 1,	1,348 10 Booster Pump installed/repaired through 11/30/21. Projecting 1 more booster pump install/repair by year end.
Booster Pump replacement/rebuild Booster Pump replacement/rebuild	Bowers Landing Replace VFD, Fire Pump #1 Bowers Landing Replace VFD, Fire Pump #2	2102277 2102278	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	S -	Yes Yes	\$ 4,719 \$ 4,641		\$ 4,719 \$ 4,641	Various Various	Yes Yes		118 116
Booster Pump replacement/rebuild	High Pine Ave, Replace VFD, Pump #1	2108089	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ -	\$ 8,700	\$ 8,700	Nashua	Yes	\$ 27.70 \$	241
Well Pump replacements Chemical Feed pump replacements	Well Pump replacements Chemical Feed pump replacements	Routine Routine	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 15,000 \$ 10,000	Yes Yes	\$ 24,000 \$ 4,000		\$ 16,000 \$ 1,000	Various Various	Yes Yes	\$ 24.96 \$: \$ 24.96 \$	291 3 Well Pump installed/repaired through 11/30/21. Projecting 1 more well pump install/repair by year end. 25 0 Chemical Pumps installed/repaired through 11/30/21 projecting 1 more
Supply Pond Spillway Improvements	Supply Pond Spillway Improvements	2101927	DW20-157	26,459	3/2/2021	\$ 750,000	Yes	\$ -	\$ 52,820 \$ 42,000	\$ 52,820	Merrimack/Nashua	No	\$ 25.11 \$	- Work not required due to Hazard level reclassification of Bowers Dam
Harris Dam raise earthen embankment, raise dike wall, regulatory requirement. Misc. Structural Improvements	Harris Dam raise earthen embankment, raise dike wall, regulatory requirement. Misc. Structural Improvements	2101956 NTD	DW20-157	0.1 DSRR 26,459	3/2/2021	\$ 965,000 \$ 20,000	Yes	\$ 15,515		\$ 42,000 \$ -	Merrimack/Nashua Various	No Yes	\$ 25.11 \$ \$ 24.96 \$	Deferred to 2022. Project scope will change due to Hazard level reclassification of Bowers Dam. Design only 822
Misc. Structural Improvements	Replace Sewage Ejection Pump 2, WTP	2102276	DW20-157	26,459	3/2/2021	S -	Yes	\$ 4,485	\$ 4,485	\$ 4,485	Various	Yes	\$ 24.96 \$	822 112
Miscellaneous Equipment Purchased Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased Install Softener, Farley Road Estates, Nashua	NTD 2104003	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 20,000 S -	Yes Yes	\$ 15,000 \$ 5,000		\$ 5,000 \$ 5,000	Various Various	Yes Yes	\$ 24.96 \$: \$ 24.96 \$	319 125
Miscellaneous Equipment Purchased Miscellaneous Equipment Purchased Miscellaneous SCADA/Electrical	Purchase new confined space entry winch	2107804	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ -	\$ 2,225	\$ 2,225 \$	Various	No	\$ 24.96 \$	- 123
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical Replace PLC and install cellular modem, Taylor Falls Station, Nashua	NTD 2104170	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 30,000 \$ -	Yes Yes	\$ 21,500 \$ 5,500		\$ - \$ 5,500	Various Various	Yes Yes	\$ 24.96 \$ \$ 24.96 \$	163 Some budget money was pulled into 2102309 VFD pump #3 137
Miscellaneous SCADA/Electrical Miscellaneous SCADA/Electrical	Purchase new Studio 5000 Iffx SCADA Software Purchase spare circuit boards for Rotork actuators	2105691 2107682	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	S -	Yes Yes	\$ -	\$ 4,272 \$ 4,345	\$ 4,272 \$ 4,345	Nashua Nashua	Yes Yes	\$ 27.70 \$ \$ 27.70 \$	118
Miscellaneous SCADA/Electrical	Purchase 4 new ultrasonic level sensors for WTP	2107683	DW20-157	26,459	3/2/2021	S -	Yes	\$ -	\$ 6,350	\$ 4,345 \$ 6,350	Nashua	Yes	\$ 27.70 \$	176
Miscellaneous SCADA/Electrical Rebuild 1 High lift/Intermediate pump	Replace 5 year old SCADA node computers Rebuild 1 High lift/Intermediate pump	NTD NTD	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ - \$ 25,000	Yes Yes	\$ - \$ 25,000	\$ 29,000 \$ 25,000	S -	Nashua Nashua	Yes Yes	\$ 27.70 \$ \$ 27.70 \$	803 Windows operating platform does not support new release of SCADA software. 693 Supply Chain disruption
Replace VFD, Intermediate Pump #3 WTP	Replace VFD, Intermediate Pump #3 WTP	2102309	DW20-157	26,459	3/2/2021	S -	Yes	\$ 28,000	\$ 28,000		Nashua	Yes	\$ 27.70 \$	776
WTP Structural/HVAC Purchase new lab equipment	WTP Structural/HVAC Purchase new lab equipment	NTD NTD	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 10,000 \$ 20,000	Yes Yes	\$ 10,000 \$ 20,000			Various Nashua	Yes No	\$ 24.96 \$: \$ 27.70 \$	250
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	NTD	DW20-157	26,459	3/2/2021	\$ 10,000	Yes	\$ 1,850	S -	\$ -	Various	Yes	\$ 24.96 \$	
Miscellaneous Fencing and Security projects Add Third pump - Donald Street Booster Station	Install Perimeter Fence around remote wells, Badger Hill, Milford Add Third pump - Donald Street Booster Station	2103214 NTD	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ - \$ 40,000	Yes Yes	\$ 8,150 \$ -	\$ 8,150 \$ -	\$ 8,150 \$ -	Various Bedford	Yes Yes	\$ 24.96 \$: \$ 22.08 \$	203 - deferred until 2022
Vehicle replacement	Vehicle replacement-replace vehicle 210. >160,000 miles, 3K repairs in 2020.	2108277 NTD	DW20-157	26,459	3/2/2021	\$ 55,000	Yes	\$ 55,000		\$ 45,000	Nashua	No	\$ 27.70 \$	
Vehicle replacement Replace 6 filter turbidimeters (manufacturer no longer supports current units).	Vehicle replacement - Replace vehicle 351. >163,000 miles, 6K repairs in 2020. Replace 6 filter turbidimeters (manufacturer no longer supports current units).	NTD	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 40,000 \$ 30,000	Yes Yes	\$ 40,000 \$ 30,000	\$ 30,000	S -	Nashua Nashua	No Yes		- de ferred until 2022 831 de ferred until 2022
Rebuild of Pump 2 @ Merrimack River Intake. Repair/Replace Soffit and Fascia, Boat House Bldg.	Rebuild of Pump 2 @ Merrimack River Intake. Repair/Replace Soffit and Fascia, Boat House Bldg.	2108557 2103205	DW20-157 DW20-157	26,459 26.459	3/2/2021 3/2/2021	\$ 75,000 \$ 30,000	Yes Yes	\$ 75,000 \$ 15,000		\$ 75,000 \$ -	Merrimack Nashua	Yes Yes		1,688 S49 COVID delay
Install new Day Fuel Tank, Controller and related equip. FWPS Generator	Regulatory requirement, existing equipment is malfunctioning and unreliable, Soft	NTD	DW20-157	26,459	3/2/2021	\$ 75,000	Yes	\$ -	\$ -	s -	Nashua	No	\$ 27.70 \$	Piping reconfigured and replaced as maintenance project. Scope limited.
Replace Pakscan Master Station, WTP	metals present in piping system which is not allowed. Replace Pakscan Master Station, WTP	2103886	DW20-157	26,459	3/2/2021	s -	Yes	\$ 44,000	\$ 44,082	\$ 44,082	Nashua	Yes	\$ 27.70 \$ \$ 27.70 \$ 1.1	This project was originally expected in 2020 but not completed due to production issues. Completed in 2021 but not in board 1,221 approved budget as a carryover.
New SCADA Control System, Powder Hill, Bedford	New SCADA Control System, Powder Hill, Bedford	2103888	DW20-157	26,459	3/2/2021	s	Yes	\$ 9,500	\$ 9,500	\$ 9,500	Bedford	Yes	\$ 22.08 \$	This project was originally expected in 2020 but not completed due to production issues. Completed in 2021 but not in board 210 approved budget as a carryover.
Bowers Dam 2021 Permitting and design	Bowers Dam 2021 Permitting and design	2107806		0.1 DSRR		S -	No	\$ -	\$ 154,000	\$ 154,000	Merrimack/Nashua	No	\$ 25.11 \$	- Dam construction will occur in 2022

Pennichuck Water Works, Inc. DW 21-023 Projected 2021 QCPAC Capital Expenditures 2/11/2021 6/30/2021 Update, Revised 9/1/21 DOE DR 2-3, Revised 9/21/21 DOE TS 2-2 11/30/2021 Update

					D . CANADATO	l				stimated Project Final Proje				QCPAC Eligil	
Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount	QCPAC Eligible?	Estimated Project Cost as of 6/30/2021	Cost as of 9/30/2021	Cost as of cost as of 11/30/2021 12/31/202		Taxable	Tax Rate (1)	Property Ta: Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing
CMMS replacment project (Estimate)	Replace Synergen/WAM with newer more cost effective/improved functionality system.	2101757	DW20-157	26 459	3/2/2021	S 100,000	Yes	S 100,000 S	100,000 S	100.000	Nashua	Yes	S 27.70	s 2.7	770
Infoview Licenses	Infoview Licenses	2104021	DW20-157	26,459	3/2/2021	\$ 65,000		\$ 53,450 \$	53,450 \$	53,450	Nashua	No	\$ 27.70	\$ 2,	
IIIIOVICW EIGCIISCS	The new phone system, these phone lines use the internet to make and receive	2104021	DW20-137	20,439	3/2/2021	9 05,000	103	33,430	33,430 9	33,430	Ivasiida	140	9 27.70	9	-
	telephone calls. We currently only have a single internet feed for the office and the														
	WTP/Distribution facilities. This project provides a secondary internet feed into the														
Redundant Internet	Distribution facility which internet will provide us a redundant path to the internet in	2102395	DW20-157	26,459	3/2/2021	\$ 69,000	Yes	\$ 69,000 \$	44,832 \$	44,832	Nashua	No	\$ 27.70	\$	-
	case one fails. This secondary internet feeds the internet load from the 3 major														
	locations between the 2 internet connections instead of one.														
T	Update both the Treatment plant and Distribution to the same security system that the	2402024	1200/200 4.57	24.450	2 /2 /2024	e 27.000		s 120,000 S	126,000 \$	126.000	Nashua		e 27.70	e 2.	Change of Scope for 2 remote facilities. Existing wiring at Distribution not adequate for new system. Add gate, request for
Treatment Plant and Distribution security retrofit	new HQ is using so that there is one badge procedure and system to maintain. It will	2103934	DW20-157	26,459	3/2/2021	\$ 37,000	Yes	\$ 120,000 \$	126,000	126,000	Nashua	Yes	\$ 27.70	\$ 3,4	Exit, change int keypad functionality.
	also gives us better analytics and notifications of access to each of the buildings.														
IT Storage Room / Work Room	Add tool box, work bench and parts storage to the IT room to keep things organized to	2105690	DW20-157	26,459	3/2/2021	\$ 4,000	Yes	\$ 4,000 S	4,000 S	4.000	Nashua	Yes	\$ 27.70	s	111
3	provide a place to work on physical computers and perform repairs.					,,,,,,		7	7	-,				•	
Cybernetics Disk Array	Replace 7 year of device used for system back ups. The majority of the office computers will be 5 years old in 2021. The plan is create a	2104055	DW20-157	26,459	3/2/2021	\$ 20,000	Yes	\$ 12,000 \$	20,000 \$	20,000	Nashua	Yes	\$ 27.70	\$	554
	Virtual Desktop that will support up to 50 concurrent users. By shifting the computing														
	and disk requirements to a client server will increase computer speed that will allow					1.			1				1.		
Virtual Desktops	the existing desktops to remain in service for several more years. Additionally the	2104056	DW20-157	26,459	3/2/2021	\$ 106,000	Yes	\$ 60,000 \$	96,000 \$	96,000	Nashua	No	\$ 27.70	\$	-
	client server provides more flexibility to the end user to allow them to work at other														
	locations and still got all their settings and programs to perform their job														
	There are 30 Computers that are due for replacement in 2023. These computers have														
	very slow hard drives which make these computer frustrating for the end user to use.														
Computer Updates	The systems decrease production from the user because of the time that programs	NTD	DW20-157	26.459	3/2/2021	s 6,000	Yes	\$ 6,000 S	- s	_	Nashua	No	\$ 27.70	S	- Went to all virtual syswtems instead of PC's
	open or being responsive. We should at least update these computers with new SSD				.,.,	1									
	drives to increase the productivity of the end user and give them a better end user														
Snow Station Switch Replacement	experience. Replace the outdated switch that connects the fiber optic cable from outsdie to the insid	N street			- /- /			4 4 000 4	4.000 8	4 000	27.1	.,		2	
Munis FER Enancements	Munis FER Enhancements	NTD NTD	DW20-157	26,459	3/2/2021	\$ 1,000 \$ 35,000		\$ 1,000 \$ \$ 35,000 \$	1,000 \$ 20,384 \$	1,000	Nashua Nashua	Yes No	\$ 27.70 \$ 27.70	\$	28
Munis FER Enancements	Munis FER Ennancements	NID	DW20-157	26,459	3/2/2021	\$ 35,000	Yes	\$ 35,000 \$	20,384 \$	20,384	Nashua	No	\$ 27.70	\$	-
Click to Munis Data interfaces	Implement connection between ClickSoft and Munis to reduce the need of user to		DW20-157	26,459	3/2/2021	\$ 20,000	Yes	\$ 20,000 \$	- s	_	Nashua	No			
Oliok to Maria Bata interfaces	duplicate data entery into Munis from information captured in ClickMobile.	NTD	DW20-137	20,437	3/2/2021	20,000	103	20,000			1431141	110	S 27.70	s	
CMMS PLL Implementation	Implemtation of Cityworks PLL. Cityworks PLL simplifies applications for customers an	2103213	DW20-157	26,459	3/2/2021	\$ 170,000	Yes	\$ 125,595 \$	170,000 S	170,000	Nashua	Yes	\$ 27.70	\$ 4,7	709
Cityworks PLL License	License for above (Estimate)	NTD	DW20-157	26,459	3/2/2021	\$ 40,000	Yes	\$ 13,875 \$	- S	-	Nashua	No	\$ 27.70	\$	This project got cancelled since it was only for licenses.
Misc Hardware	Misc Hardware	NTD	DW20-157	26,459	3/2/2021	\$ 20,000	Yes	\$ 8,082 \$	9,527 \$	5,000	Various	No	\$ 24.96	\$	- 1
Misc Hardware	Small MFP's at Distribution	2101826	DW20-157	26,459	3/2/2021	S -	Yes	\$ 2,195 \$	2,195 \$	2,195	Various	No	\$ 24.96	\$	-
Misc Hardware	Replacement Laptops - CS	2102671	DW20-157	26,459	3/2/2021	S -	Yes	\$ 3,500 \$	3,500 \$	3,500	Various	No	\$ 24.96	\$	
Misc Hardware	New Laptops for Engineering Interns	2103177	DW20-157	26,459	3/2/2021	S -	Yes	\$ 3,349 \$	2,454 \$	2,454	Various	No	\$ 24.96	\$	-
Misc Hardware	4 iPads & iPad cases	2105019	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 2,874 \$	2,874 \$	2,874	Various	No	\$ 24.96	\$	-
Remote User Laptops	Remote User Laptops	2104113	DW20-157	26,459	3/2/2021	S -	Yes	\$ 36,000 \$	36,000 \$	36,000	Various	No	\$ 24.96	\$	-
Misc Software	Misc Software	NTD	DW20-157	26,459	3/2/2021	\$ 12,000	Yes	\$ 12,000 \$	12,000 \$	-	Various	No	\$ 24.96	\$	-
WTP Wifi expansion	WTP Wifi expansion	NTD	DW20-157	26,459	3/2/2021	\$ 15,000		S - S	- \$	-	Nashua	No	\$ 27.70	Ÿ	 Determined that the need was not there for the use of this technology.
Redundant VPN Installation	Redundant VPN Installation	2108090	DW20-157	26,459	3/2/2021	S -	No	S - S	14,616 \$	14,616	Nashua	No	\$ 27.70	\$	- Equipment not available until 2022 so not eligible for 2021 QCPAC
Retainage	Paid out in 2020 on retainage held on 2019 projects.	N/A												\$	- To be reconciled after year end closing with Feb 2022 Filing
Retainage	Held on various projects listed above. Will be paid out in 2021.	N/A												\$	- To be reconciled after year end closing with Feb 2022 Filing
Projected short term interest on FALOC	Interest incurred to finance 2021 Capex until permanent financing is achieved	N/A	DW20-157	26.459	3/2/2021	S -	Yes	\$ 128,379 \$	128.379 S	117.000	N/A	No	S -	S	 Projected FALOC interest throughg 4/5/2023, projected Bond Sale to pay off FALOC

\$ 11,032,299 \$ 8,517,150 \$ 8,012,414 - \$ 722,500 \$ 555,500 677,290 \$ 522,881 \$ 491,894 - \$ - \$ - \$ resulting in P&I of \$ resulting in P&I of \$

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

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

2/11/2021 $6/30/2021~\mathrm{Update,\,Revised}~5/26/2021~\mathrm{per~Staff~Tech~Session~DR,\,Revised}~7/20/2021~\mathrm{Staff~DR1}$ 11/30/2021 Update

11/30/2021 Optiate													
Project Name/Description	Project Description	Work Order#	Financing Docket	NHPUC Order No.	Date of NHPUC Order	Amount	t	QCPAC Eligible?	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing
2022 New Services (10)	Single Family, Owner Build, New Homes		DW20-157	Awaiting .	* *		0,000	Yes	Various	Yes	\$ 24.96 \$	1,248	
2022 Renewed Services (20)	Replacement of Failed Services		DW20-157	Awaiting .	* *		0,000	Yes	Various	Yes	\$ 24.96 \$	2,746	
2022 Hydrants (15)	Replacement of non-functional hydrants		DW20-157	Awaiting .	* *		0,000	Yes	Various	Yes	\$ 24.96 \$	2,246	<u> </u>
2022 Gates (10)	Replacement of Failed Gate Valves		DW20-157	Awaiting .	1.1		0,000	Yes	Various	Yes	\$ 24.96 \$	998	
2022 Radios (500) 2022 Radios (4000)	Replacement of failed Radios (250), New Radios for new customers (250). Yr 2 of 7 Replacement of all PWW Radios installed in 2007 (4000) by contractor.		DW20-157 DW20-157	Awaiting Awaiting	* *		0,000	Yes Yes	Various Various	Yes Yes	\$ 24.96 \$ \$ 24.96 \$	1,248 12,979	
2022 Natios (4000) 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 A	A A		0.000	Yes	Various	Yes	\$ 24.96 \$	1,248	
Replacement Boom Truck	Replacement for #19 - 2011 Ford F450 - High Milage, Maintenance & Safety issues.		DW20-157	Awaiting A	- 1.1		0,000	Yes	Merrimack	No	\$ 22.51 \$		
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting .			0,000	Yes	Merrimack	No	\$ 22.51 \$; -	
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting .	Approval	\$ 70	0,000	Yes	Merrimack	No	\$ 22.51 \$	-	
Replacment Supervisor Pickup	New Full Sized Pickup to Replace existing high mileage/maintenance pickup.		DW20-157	Awaiting .	* *		5,000	Yes	Merrimack	No	\$ 22.51 \$	-	
Replacement Utility Van	New Utility Van to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting .			0,000	Yes	Merrimack	No	\$ 22.51 \$	-	
Protectus Meter Upgrade	Protectus Meter Upgrade		DW20-157	Awaiting .	Approval		2,000	Yes	Nashua	Yes	\$ 27.70 \$	609	
Miscellaneous Construction Equipment Balcom Street	Replace 1240 LF 6 inch Cl with 1240 LF 8 inch DIPCL.		DW20-157	0.1 DSRR	A = = ====1		73,600	No	Merrimack	No	\$ 22.51 \$ \$ 27.70 \$		
Euclid Avenue	Replace 425 LF 6 inch Cl with 425LF 8 inch DIPCL.		DW20-157 DW20-157	Awaiting Awaiting	* *	-	25,200	Yes Yes	Nashua Nashua	Yes Yes	\$ 27.70 \$		
Fairview Street	Replace 800 LF 6 inch Cl with 800 LF 8 inch DIPCL.		DW20-157	Awaiting A	**		47,000	Yes	Nashua	Yes	\$ 27.70 \$		
Temple St (south to gorman)	Replace 900 LF of 8 inch CI with 12 inch DIPCL.		DW20-157	Awaiting .	1.1		56,000	Yes	Nashua	Yes	\$ 27.70 \$		
School Street (High to W. Pearl Alleyway)	Replace 400 LF of 4 inch CI with 8 inch DIPCL.		DW20-157	Awaiting .	* *		27,000	Yes	Nashua	Yes	\$ 27.70 \$	748	
Sargent Street	Replace 1900 LF 6 inch Cl with 1900 LF 16 inch DIPCL.		DW20-157	Awaiting .	Approval	\$ 48	30,000	Yes	Nashua	Yes	\$ 27.70 \$	13,296	
Courtland Street	Replace 1170 LF 4 inch CI with 1170 LF 16 inch DIPCL.		DW20-157	Awaiting .	Approval	\$ 30	00,000	Yes	Nashua	Yes	\$ 27.70 \$	8,310	
Alld Street	Replace 1860 LF of 6 & 8 inch CI with 12 inch DIPCL.		DW20-157	Awaiting .	Approval	\$ 74	10,000	Yes	Nashua	Yes	\$ 27.70 \$	20,498	
Lawndale Avenue	Replace 1085 LF of 6 inch CI with 12 inch DIPCL.		DW20-157	Awaiting .	X X		20,000	Yes	Nashua	Yes	\$ 27.70 \$	11,634	
Benson Avenue	Replace 550 LF of 4 inch Cl with 8 inch DIPCL.		DW20-157	Awaiting .	**	-	50,000	Yes	Nashua	Yes	\$ 27.70 \$	4,432	
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	Awaiting A	**		80,000	Yes	Nashua	Yes	\$ 27.70 \$		
Spaulding Avenue	Replace 430 LF of 4 inch CI with 4 inch DIPCL. Replace 430 LF of 6, 2, & 1.25 inch CI with 4 inch DIPCL.		DW20-157 DW20-157	Awaiting Awaiting	* *	-	61,000 80,000	Yes Yes	Nashua Nashua	Yes Yes	\$ 27.70 \$	1,690 2,216	
St Lazare Street	Replace 435 LF of 2 inch CI with 4 inch DIPCL.		DW20-157	Awaiting A	* *	+	80,000	Yes	Nashua	Yes	\$ 27.70 \$		
Ingalls St (St Camille to end)	Replace 200 LF of 1.5 inch CI with 4 inch DIPCL.		DW20-157	Awaiting A	**	-	40,000	Yes	Nashua	Yes	\$ 27.70 \$	5 1,108	
Nye Avenues	Replace 400 LF of 2 & 1.5 inch CI with 4 inch DIPCL.		DW20-157	Awaiting .	**		73,000	Yes	Nashua	Yes	\$ 27.70 \$	2,022	
Copp Street	Replace 350 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting .	* *		03,000	Yes	Nashua	Yes	\$ 27.70 \$	2,853	-
Fairview Street	Replace 800 LF 6 inch Cl with 800 LF 8 inch DIPCL.		DW20-157	Awaiting .	Approval	\$ 18	39,000	Yes	Nashua	Yes	\$ 27.70 \$	5,235	
Gray Avenue	Replace 360 LF of 6 inch CI with 6 inch DIPCL.		DW20-157	Awaiting .	Approval	\$ 8	35,000	Yes	Nashua	Yes	\$ 27.70 \$	2,355	
Additional Water Main Replacement	To be determined		DW20-157	Awaiting .	* *	, , ,	00,000	Yes	Nashua	Yes	\$ 27.70 \$	30,470	
2022 Nashua City Sewer Projects	To be determined		DW20-157	Awaiting .	* *	-	00,000	Yes	Nashua	Yes	\$ 27.70 \$	24,930	
PWW RRA- ERP	Implement Structural Recommendations Evaluated in 2021		DW20-157	Awaiting .	Approval	\$ 50	00,000	Yes	Various	Yes	\$ 24.96 \$	12,480	
Merrimack River Watershed Council	Grant Match with other Stakeholders \$40k for five years for land conservation/protection in the Merrimack River Watershed.			0.1 DSRR		\$ 4	40,000	No	Various	No	\$ 24.96 \$		
Investment in Developer Services	1x Annual Rvenue		DW20-157	Awaiting .	* *	+	90,000	Yes	Various	Yes	\$ 24.96 \$	2,246	
Replace Engineering Pickup	Replace vehicle with high mileage.		DW20-157	Awaiting .	**	-	40,000	Yes	Nashua	No	\$ 27.70 \$	-	
Replace Engineering Pickup Milford Booster Station	Replace vehicle with high mileage. Replace/Relocate/Upgrade the Milford Booster Station (>4MGD)		DW20-157	Awaiting .	**	-	40,000	Yes	Nashua Amherst	No	\$ 27.70 \$	21,032	
Temple St (south to gorman)	Replace 900 LF of 8 inch CI with 12 inch DIPCL.		DW20-157 DW20-157	Awaiting Awaiting	1.1		00,000 63,000	No Yes	Nashua	Yes Yes	\$ 26.29 \$ \$ 27.70 \$	5 21,032 5 7,285	
School Street (High to W. Pearl Alleyway)	Replace 400 LF of 4 inch Cl with 8 inch DIPCL.		DW20-157	Awaiting A		-	08.000	Yes	Nashua	Yes	\$ 27.70 \$	3 2,992	
Linwood Street	Replace 960 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting A	1.1	-	83,800	Yes	Nashua	Yes	\$ 27.70 \$		
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild		DW20-157	Awaiting .	**	-	40,000	Yes	Various	Yes	\$ 24.96 \$		
Well Pump replacements	Well Pump replacements		DW20-157	Awaiting .	Approval	\$ 1	15,000	Yes	Various	Yes	\$ 24.96 \$	374	
Chemical Feed pump replacements	Chemical Feed pump replacements		DW20-157	Awaiting .	Approval	\$ 1	10,000	Yes	Various	Yes	\$ 24.96 \$	250	
Install/replace treatment systems in small CWS.	Install/replace treatment systems in small CWS.		DW20-157	Awaiting .	Approval		15,000	Yes	Various	Yes	\$ 24.96 \$		
Misc. Structural Improvements	Misc. Structural Improvements		DW20-157	Awaiting .			15,000	Yes	Various	Yes	\$ 24.96 \$		
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased		DW20-157	Awaiting .	* *		20,000	Yes	Various	Yes	\$ 24.96 \$	499	
Miscellaneous SCADA/Electrical Well Rehabilitation	Miscellaneous SCADA/Electrical Well Rehabilitation		DW20-157	Awaiting .	* *		30,000	Yes	Various	Yes	\$ 24.96 \$		
WTP Structural/HVAC	WTP Structural/HVAC		DW20-157 DW20-157	Awaiting Awaiting	* *		50,000 10,000	Yes Yes	Various Nashua	Yes Yes	\$ 24.96 \$ \$ 27.70 \$	1,248 277	
Bowers Pond Spillway Improvements	Bowers Pond Spillway Improvements to bypass revised NHDES flows		DW20-157	Awaiting A			00,000	Yes	Merrimack/Nashua	Yes	\$ 25.11 5		ork required to expand Spill due to NHDES Hazard reclassification of Bowers Dam
Purchase new lab equipment	Purchase new lab equipment		DW20-157	Awaiting A	* *	7	20,000	Yes	Nashua	Yes	\$ 27.70 \$		orpina opin dae to 1.111/20/11a/ard reciassification of bowers Dam
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	1	DW20-157	Awaiting .	* *	+	10,000	Yes	Nashua	Yes	\$ 27.70 \$		
Re-paint FWPS ceiling	Re-paint FWPS ceiling		DW20-157	Awaiting .	A A	\$ 2	20,000	Yes	Nashua	Yes	\$ 27.70 \$		
WTP Replace Vehicle	Replace High Mileage Vehicle.		DW20-157	Awaiting .	* *	\$ (55,000	Yes	Nashua	No	\$ 27.70 \$		
WTP Replace Vehicle	Replace High Mileage Vehicle.		DW20-157	Awaiting .	Approval	-	40,000	Yes	Nashua	No	\$ 27.70 \$		
Misc Hardware	Misc Hardware			0.1 DSRR			20,000	No	Nashua	No	\$ 27.70 \$		
Misc Software	Misc Software	-	Davie o 155	0.1 DSRR	Α 1		12,000	No	Nashua	No	\$ 27.70 \$		
Network Hardawre infrastructure improvements Major Software Replacement Project	Update aging network infrustructure.	 	DW20-157	Awaiting . 0.1 DSRR	Approval	+	80,000 60,000	Yes No	Nashua Nashua	No No	\$ 27.70 \$		
Munis Enhancements	Munis Enhancements	+	DW20-157	0.1 DSRR Awaiting	Approval	-	35,000	Yes	Nashua Nashua		\$ 27.70 \$ \$ 27.70 \$		
	1	Pennichuck Wa	ter Works Projected 2		**		8,600	100			ty Tax Expense -		

11,208,600 10,236,600 800,000 for Milford Booster. Milford to pay the 1.1x P&I 172,000

Projected Property Tax Expense - \$

Total Projected Bond funded PWW QCPAC Capex for 2022 - \$
Total Projected NHDES SRF/DWGTF funded PWW QCPAC Capex for 2022 - \$

Total for 0.1 DSRR Projects - \$ Estimated Bond Terms (Bonds to be sold in April 2022) -Years @ 4.5% resulting in P&I of \$ 628,441

PWW QCPAC Filing Exhibit DLW-1 Page 5

											QCPAC	
											Eligible	
			Financing Docket NH	HPUC Order D	Date of NHPUC	Approved Budgeted					Property Tax	
Project Name/Description	Project Description	Work Order #	No.	No.	Order	Amount	QCPAC Eligible?	Community	Taxable	Tax Rate (1)	Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing

Pennichuck Water Works, Inc. DW 21-023 Projected 2023 QCPAC Capital Expenditures 2/11/2021 Revised 6/16/2020 per Staff Tech DR-1 11/30/2021 Update

			F:	NAMANGO I	CAMPAIG		OCPLO				QCPAC Eligible	E I di G CI (ANY) (E I di E I 2001
Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order Date No.	e 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
2023 New Services (10)	Single Family, Owner Build, New Homes		DW20-157	Awaiting Appro	oval	\$ 50,000	Yes	Various	Yes	\$ 24.96	\$ 1,248	
2023 Renewed Services (20)	Replacement of Failed Services		DW20-157	Awaiting Appro		\$ 110,000	Yes	Various	Yes	\$ 24.96		
2023 Hydrants (15)	Replacement of non-functional hydrants		DW20-157	Awaiting Appro		\$ 90,000	Yes	Various	Yes	\$ 24.96	-	
2023 Gates (10)	Replacement of Failed Gate Valves		DW20-157	Awaiting Appro		\$ 40,000	Yes	Various	Yes	\$ 24.96		
2023 Radios (500) 2023 Radios (4000)	Replacement of failed Radios (250), New Radios for new customers (250). Yr 2 of 7 Replacement of all PWW Radios installed in 2007 (4000) by contractor.		DW20-157 DW20-157	Awaiting Appro Awaiting Appro		\$ 50,000 \$ 520,000	Yes	Various Various	Yes	\$ 24.96 \$ 24.96	\$ 1,248 \$ 14,795	
2023 Radios (4000) 2023 Meters (Growth) 5/8"-2" - Core & CWS (TBD)	New meters for new customers, including PFOA (250). Replacement of failed meters(250).		DW20-157	Awaiting Appro		\$ 50,000	Yes Yes	Various	Yes Yes	\$ 24.96	,	
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting Appro		\$ 70,000	Yes	Merrimack	No	\$ 22.51		
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting Appro		\$ 70,000	Yes	Merrimack	No	\$ 22.51		
Replacment Supervisor Pickup	New Full Sized Pickup to Replace existing high mileage/maintenance pickup.		DW20-157	Awaiting Appro	oval	\$ 45,000	Yes	Merrimack	No	\$ 22.51	\$ -	
Replacement Utility Van	New Utility Van to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting Appro	oval	\$ 40,000	Yes	Merrimack	No	\$ 22.51	\$ -	
Protectus Meter Upgrade	Protectus Meter Upgrade		DW20-157	Awaiting Appro	oval	\$ 22,000	Yes	Nashua	No	\$ 27.70	-	
Miscellaneous Construction Equipment	Miscellaneous Construction Equipment			0.1 DSRR		\$ 40,000	Yes	Merrimack	No	\$ 22.51	-	
PWW RRA- ERP	Implement Structural Recommendations Evaluated in 2021.		DW20-157	Awaiting Appro		\$ 500,000	Yes	Various	Yes	\$ 24.96		
Sargent Street Courtland Street	Replace 1900 LF 6 inch CI with 1900 LF 16 inch DIPCL. Replace 1170 LF 4 inch CI with 1170 LF 16 inch DIPCL.		DW20-157 DW20-157	Awaiting Appro Awaiting Appro		\$ 84,000 \$ 52,000	Yes Yes	Nashua Nashua	Yes Yes	\$ 27.70 \$ 27.70		
Alld Street	Replace 1860 LF of 6 & 8 inch CI with 12 inch DIPCL.		DW20-157	Awaiting Appro		\$ 32,000	Yes	Nashua	Yes	\$ 27.70		
Lawndale Avenue	Replace 1085 LF of 6 inch CI with 12 inch DIPCL.		DW20-157	Awaiting Appro		\$ 73,000	Yes	Nashua	Yes	\$ 27.70	, ,,,,	
Benson Avenue	Replace 550 LF of 4 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Appro		\$ 28,000	Yes	Nashua	Yes	\$ 27.70		
Spaulding Street	Replace 950 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Appro		\$ 48,000	Yes	Nashua	Yes	\$ 27.70		
Alstead Avenue	Replace 240 LF of 4 inch Cl with 4 inch DIPCL.		DW20-157	Awaiting Appro	oval	\$ 11,000	Yes	Nashua	Yes	\$ 27.70	\$ 305	
Spaulding Avenue	Replace 430 LF of 6, 2, & 1.25 inch Cl with 4 inch DIPCL.		DW20-157	Awaiting Appro		\$ 14,000	Yes	Nashua	Yes	\$ 27.70		
St Lazare Street	Replace 415 LF of 2 inch Cl with 4 inch DIPCL.		DW20-157	Awaiting Appro		\$ 14,000	Yes	Nashua	Yes	\$ 27.70	-	
Ingalls St (St Camille to end)	Replace 200 LF of 1.5 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Appro		\$ 6,000	Yes	Nashua	Yes	\$ 27.70		
Nye Avenues	Replace 400 LF of 2 & 1.5 inch Cl with 4 inch DIPCL.		DW20-157	Awaiting Appro		\$ 13,000	Yes	Nashua	Yes	\$ 27.70		
Copp Street Gray Avenue	Replace 350 LF of 6 inch CI with 8 inch DIPCL. Replace 360 LF of 6 inch CI with 6 inch DIPCL.		DW20-157 DW20-157	Awaiting Appro		\$ 18,000 \$ 15,000	Yes Yes	Nashua Nashua	Yes Yes	\$ 27.70 \$ 27.70	-	
2022 Nashua City Sewer Projects	To be detremined (Paving)		DW20-157 DW20-157	Awaiting Appro		\$ 13,000	Yes	Nashua	Yes	\$ 27.70	-	
Fairview Street	Replace 800 LF 6 inch CI with 800 LF 8 inch DIPCL.		DW20-157	Awaiting Appro		\$ 47,000	Yes	Nashua	Yes	\$ 27.70		
Water Main Replacement Additional Paving Carry Over	TBD from 2022		DW20-157	Awaiting Appro		\$ 400,000	Yes	Nashua	Yes	\$ 27.70		
Booster Station Replacement/Upgrade	To be determined		DW20-157	Awaiting Appro	oval	\$ 800,000	Yes	Nashua	Yes	\$ 27.70	\$ 22,160	
Water Main Replacement	To be determined		DW20-157	Awaiting Appro	oval	\$ 3,700,000	Yes	Nashua	Yes	\$ 27.70	\$ 102,490	
2023 Nashua City Sewer Projects	To be determined		DW20-157	Awaiting Appro	oval	\$ 900,000	Yes	Nashua	Yes	\$ 27.70	,	
Merrimack River Watershed Council	Grant Match with other Stakeholders \$40k for five years.			0.1 DSRR		\$ 40,000	No	Various	No	\$ 24.96	-	
Trimble GPS and Monitoring Equipment	Level Monitors, Pressure Monitors and Flow Monitors		DW20-157	Awaiting Appro		\$ 32,000	Yes	Merrimack	No	\$ 22.51	-	
Investment in Developer Services	1x Annual Rvenue		DW20-157	Awaiting Appro		\$ 90,000 \$ 30,000	Yes	Various	Yes	\$ 24.96		
Replace Engineering SUV Replace Engineering Pickup	Replace vehicle with high mileage. Replace vehicle with high mileage.		DW20-157 DW20-157	Awaiting Appro		\$ 30,000 \$ 40,000	Yes No	Various Various	No No	\$ 24.96 \$ 24.96	-	
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild		DW20-157	Awaiting Appro		\$ 40,000	Yes	Various	Yes	\$ 24.96		
Well Pump replacements	Well Pump replacements		DW20-157	Awaiting Appro		\$ 15,000	Yes	Various	Yes	\$ 24.96	-	
Chemical Feed pump replacements	Chemical Feed pump replacements		DW20-157	Awaiting Appro	oval	\$ 15,000	Yes	Various	Yes	\$ 24.96	\$ 374	
Carbon media changeout-filters 1 & 2 (Spring of 2023)	Carbon media changeout-filters 1 & 2		DW20-157	Awaiting Appro	oval	\$ 500,000	Yes	Nashua	Yes	\$ 27.70	\$ 13,850	
Install/replace treatment systems in small CWS.	Install/replace treatment systems in small CWS.		DW20-157	Awaiting Appro		\$ 15,000	Yes	Various	Yes	\$ 24.96		
Misc. Structural Improvements	Misc. Structural Improvements		DW20-157	Awaiting Appro		\$ 20,000	Yes	Various	Yes	\$ 24.96		
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased		DW20-157	Awaiting Appro		\$ 20,000	Yes	Various	Yes	\$ 24.96	-	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical Well Rehabilitation		DW20-157 DW20-157	Awaiting Appro		\$ 30,000 \$ 50,000	Yes Yes	Various	Yes Yes	\$ 24.96		
Well Rehabilitation WTP Structural/HVAC	WTP Structural/HVAC		DW20-157 DW20-157	Awaiting Appro		\$ 50,000	Yes	Various Nasnua	Yes	\$ 24.96 \$ 27.70		
Purchase new lab equipment	Purchase new lab equipment.		DW20-157	Awaiting Appro		\$ 20,000	Yes	Nashua	No	\$ 27.70		
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects		DW20-157	Awaiting Appro		\$ 10,000	Yes	Various	Yes	\$ 24.96		
Replace Vehicle	Replace High Mileage Vehicle.		DW20-157	Awaiting Appro		\$ 65,000	Yes	Nashua	No	\$ 27.70	-	
Carbon media chageout - 3 & 4 (Fall of 2023)	Carbon media chageout - 3 & 4		DW20-157	Awaiting Appro		\$ 500,000	Yes	Nasnua	Yes	\$ 27.70		
Replace Vehicle	Replace High Mileage Vehicle.		DW20-157	Awaiting Appro	oval	\$ 40,000	Yes	Nashua	No	\$ 27.70	\$ -	
Misc Hardware	Misc Hardware			0.1 DSRR		\$ 20,000	No	Nashua	No	\$ 27.70		
Misc Software	Misc Software			0.1 DSRR		\$ 12,000	No	Nashua	No	\$ 27.70		
Network Hardware infrastructure improvements	Update aging network infrustructure.		DW20-157	Awaiting Appro	oval	\$ 80,000	Yes	Nashua	No	\$ 27.70	-	
Major Software Replacement Project	Munis Enhancements			0.1 DSRR 0.1 DSRR		\$ 60,000	No	Nashua	No	\$ 27.70	-	
Munis Enhancements Misc Computer replacements	wunis Ennancements			0.1 DSRR 0.1 DSRR		\$ 35,000 \$ 15,000	No No	Nashua Nashua	No No	\$ 27.70 \$ 27.70		
mice computer replacements		Pennichuck Wat	er Works Projected 2	2023 Total Capital Expendi	iture Rudget		110		Projected Propert			
		- connection wat	a. works riojected 2	2020 Total Capital Expellu	Dauget -	10,007,000		ı <u>r</u>	Tojected Fropert	, zaz Expense -	¥ 255,005	

9,832,000

Total Projected Bond funded PWW QCPAC Capex for 2023 - \$
Total Projected NHDES SRF/DWGTF funded PWW QCPAC Capex for 2023 - \$
Total for 0.1 DSRR Projects - \$

222,000

Estimated Bond Terms (Bonds to be sold in April 2024) -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