

Pennichuck Water Works, Inc.
DW 21-023
 2021 QCPAC - Qualified Capital Project Adjustment Charge
 Responses to DOE Data Requests –Set 2

Date Request Received: 8/11/21
 Request No. DOE 2-1

Date of Response: 9/1/21
 Witness: Donald L. Ware

REQUEST:

Re: Company's Response to DOE 1-4:

- a) Please provide documentation in support of the Company's prior purchase of 569,005 gpd of MSDC capacity.
- b) Please provide documentation in support of the requirement on the Company to purchase additional MSDC capacity at \$3.79 per gpd.

RESPONSE:

- a) Please see Attachment DOE DR 2-1a). Please see the 2016 tab of the Excel Spreadsheet attachment (Page 5 of 9 in PDF copy) in support of the Company's prior purchase amount of 569,005 gallons MSDC capacity. This spreadsheet is prepared annually by Manchester Water Works (MWW) and is based on the meter readings and the resultant usage at each of PWW interconnections with Manchester Water Works. The meter readings from each metered location between MWW and PWW are found in the lower portion of the spreadsheet.
- b) Please see Attachment DOE DR 2-1b which is a copy of the MWW-PWW Purchase Water Agreement. In regard to the MSDC requirement, please see Article 3, Section 303 (Pages 14-15 of the Attachment) for the obligation of PWW to pay MWW for incremental increases in the MSDC usage at the MSDC rate in effect that the incremental increase occurs. The MSDC charge in 2020 was \$3.90 per gallon. Please see Attachment DOE 2-1c) specifically page 39 of Manchester Water Works tariff (Page 11 of the Attachment) which defines the MSDC charges in effect at the end of 2020. This was a 3% increase over the rate charged for MSDC in 2019 of \$3.79 per gallon.

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Date Request Received: 8/11/21
 Request No. DOE 2-2

Date of Response: 9/1/21
 Witness: John J. Boisvert

REQUEST:

Re: Company's Response to DOE 1-8:

- a) How many feet of interconnecting main are involved in each case?
- b) Has the cost of water to be purchased from Plaistow been established? Please explain.
- c) Has a cap on the amount of water to be purchased been established? Please explain.
- d) Will payment of an additional MSDC fee be required? Please explain.

RESPONSE:

- a) Sweet Hill: Approximately 1,500 linear feet plus a meter vault.

Twin Ridge: Approximately 300 linear feet plus a meter vault.

- b) No. Final water rates for what Plaistow will charge the Company have not been established because Plaistow has not completed all system improvements and has not yet hired a system operator. Both of these projects require the Company to submit a financing petition with the Commission. Plaistow has not been ready/available to discuss rates and fees. The Company will include those, once determined, as part of the financing petition.
- c) A volume cap remains a subject for discussion/agreement. The results of that discussion/agreement will be included with the financing petition.
- c) Yes. All usage from the Southern New Hampshire Regional Pipeline are subject to MSDC charges.

Note: Due to delays in Plaistow completing work to establish their public water system, the earliest the two projects could go to construction would be in the second half of 2022, pending financing approvals and closing on the NHDES SRF loan.

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Date Request Received: 8/11/21
 Request No. DOE 2-3

Date of Response: 9/1/21
 Witness: Donald L. Ware

REQUEST:

Re: Company's Response to DOE 1-10: Please explain why it appears that the changes indicated in the Company's response were not included in revised Exhibit DLW-1, Page 4. Specifically:

- a) The schedule still appears to indicate that the Merrimack River Watershed Council (Grant Match) for \$40,000 (Line 37) will be funded via the 2021 Bond instead of 0.1-DSRR funds.
- b) 'Column H' still appears to indicate that the two vehicle replacements of \$55,000 and \$40,000 (Lines 63-64), as well as the Infoview Licenses for \$65,000 (Line 70) are not QCPAC eligible.

RESPONSE:

- a) Please see Attachment DOE DR 2-3 for a correction of this apparent oversight to the Merrimack River Watershed Council (Grant Match) (Line 58). Attachment DOE DR 2-3 is built upon the Company's recently submitted 6-30-2021 PWW QCPAC Update, Exhibit DLW-1 Pages 1-6.
- b) Please see Attachment DOE DR 2-3 for a correction of this apparent oversight to the vehicle replacements (Lines 88-89) and Infoview Licenses (Line 97). Attachment DOE DR 2-3 is built upon the Company's recently submitted 6-30-2021 PWW QCPAC Update, Exhibit DLW-1 Pages 1-6.

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2021 QCPAC – Qualified Capital Project Adjustment Charge
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Date Request Received: 8/11/21
Request No. DOE 2-4

Date of Response: 9/1/21
Witness: Donald L. Ware

REQUEST:

Re: Attachment DOE 1-13 (apparently mislabeled from DOE 1-15):

If the descriptions in the last two lines of the spreadsheet remain in place, please confirm the numbers (5.23, 2.4) should be swapped.

RESPONSE:

Please find Attachment DOE DR 2-4, which is a revised and corrected version of Attachment DOE 1-13 with various corrections made to row labels. The correct Attachment details a change of a complete carbon changeout as \$1,650,000 versus the original amount in Attachment DOE 1-13 of \$2,250,000 which resulted from a formula error which used the estimated cost to change out 2 of the 6 carbon beds as \$750,000 instead of the current, actual projected amount of \$550,000 to change out 2 of the 6 carbon beds. The bottom line of the Attachment DOE DR 2-4 is that the use of Pennichuck Brook as the primary raw water supply, based on PFOA treatment, is about 2.1 times more expensive than using the Merrimack River as the primary raw water supply.

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**2021 QCPAC - Qualified Capital Project Adjustment Charge
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Date Request Received: 8/11/21
Request No. DOE 2-5

Date of Response: 9/1/21
Witness: John J. Boisvert

REQUEST:

Re: Company's Response to DOE 1-16 b):

The partial listing of 2020 main replacements on pages 9 and 10 of Mr. Boisvert's testimony appears to add to 4,582 linear feet. Please explain why a smaller number of feet (4,237) was actually replaced.

RESPONSE:

In order to clarify the data in regards to water main replacement in 2020, please see attachment DOE DR 2-5 for a compilation of water main replaced in 2020 (Please see yellow highlighted cells). Per the attachment, a total of 4,786 LF of water main was replaced and supplemented with 4,996 LF of new water main at a total cost of \$1,415,039.

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Date Request Received: 8/11/21
Request No. DOE 2-6

Date of Response: 9/1/21
Witness: John J. Boisvert

REQUEST:

Re: Company's Response to DOE 1-18 c):

Was the consultant chosen on qualifications alone, or was the work put out to bid? Please explain.

RESPONSE:

The consultant, Geosyntec, was selected based on qualifications and a review of comparable hourly billing rates of similar consultants working for the Company to establish that billing rates were comparable. Since there was no required scope of work or defined contents of the Modified Source Water Protection Plan from the NHDES, there was no way to define what was to be "bid". The consultant had to be engaged to work with the company to negotiate/define the scope with the NHDES, then carry out the work as mutually agreed.

Pennichuck Water Works, Inc.

DW 21-023

**2021 QCPAC - Qualified Capital Project Adjustment Charge
Responses to DOE Data Requests –Set 2**

Date Request Received: 8/11/21
Request No. DOE 2-7

Date of Response: 9/1/21
Witness: Donald L. Ware

REQUEST:

Re: Company's Response to DOE 1-21: Please revise Exhibit DLW-1, Page 4 to reflect the inclusion of the anticipated short-term interest that will be incurred relative to the Company's 2021 CapEx. If this amount is different from the amount of \$128,379 indicated in the Company's previous response, please provide supporting documentation for the revised amount.

RESPONSE:

A line has been added to Attachment DOE DR 2-3 DLW Exh 1, Page 4 to reflect a projected \$128,379 in FALOC interest.

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Date Request Received: 8/11/21
 Request No. DOE 2-8

Date of Response: 9/1/21
 Witness: Donald L. Ware

REQUEST:

Re: Cover letter to August 9, 2021 quarterly update:

- a) Please provide documentation of the reclassification of Bowers Dam as a high hazard.
- b) Please explain how rebuilding of the Bowers Dam will reduce or eliminate work on the two downstream dams (Harris and Supply).

RESPONSE:

- a) The Bowers Dam has always been classified as a High Hazard Dam (See attachment DOE DR 2-8a). Based on the last round of inspections by the NHDES Dam Bureau and changes due to the flow that a high hazard dam must pass (Return Year storm flows have been increased by the NHDES due to climatic changes and impacts on rainfall amounts). The increased flows resulted in the need to increase the spillway capacity of Pennichuck's dams to pass these flows. In response to the NHDES changes the Company hired H.L Turner (HLT) to assess the Company's options in regard to improvements to its dams to bring them into compliance with the new high flow passage requirements. HLT initially believed that if the Bower's Pond dam could be reclassified from a High Hazard to a Significant Hazard dam, the Company could reduce the overall cost of the required improvements to the Supply Pond, Harris Pond and the Bowers Dams. Based upon a more detailed analysis and interaction with the NHDES, it was ultimately determined that the least cost solution to the required improvements to the Dams was not to change the Hazard classification of Bowers. Please see Attachment DOE DR 2-8b which details that the estimated cost of improvements required to the Supply Pond, Harris Pond and Bower's Pond dams, if Bowers was reclassified from a High Hazard to a Significant Hazard, would be \$2,693,500. If the classification of Bowers Dam remains as a High Hazard, there would only be improvements required to the Bowers Dam and a small portion of Harris Dam with a projected cost of \$1,762,800. Based on HLT's estimates, the Company abandoned the reclassification of the Bowers Pond Dam from a High Hazard to a Significant Hazard Dam since the overall improvements required to the dams were the least if Bowers was not reclassified.
- b) Under the initial scenario, the reclassification of the Bowers Dam from a High Hazard to a Significant hazard, the Harris and Supply spillways and earthen structures needed to be improved to bypass the high flows associated with a failure of the Bowers Dam. If Bowers Dam is rebuilt to pass the High Hazard flows, rather than fail during those flows, then the Harris and Supply Pond Dams, which have already been built to pass these flows will not need to be rebuilt.

Manchester Water Works Schedule of Pennichuck 60 day average daily consumption 2020				
	Total	PEU Portion	PWW Portion	
Average Daily Flow (Gal.) - Max. allowed -	2,100,000			
Average Daily Flow (Gal.) -	1,356,078	787,073	569,005	
Average Daily Flow (Gal.) -	1,436,355	863,900	572,455	
Increase in 2020 (Gal.) -	80,277	76,827	3,450	
Current MSDC rate per gallon -	3.79	\$ 3.79	\$ 3.79	
MSDC additional charge (Paid from Collected MSDC fees) -	\$ 304,250	\$ 291,174	\$ 13,076	
MSDC Flow purchased as of 12/29/2020 (Gal.) -	1,436,355	863,900	572,455	
MSDC utilized in 2020 (Gal.) -	1,513,757	897,411	616,346	
Additional MSDC that must be purchased for 2020 (Gal.) -	77,402	33,511	43,891	
MSDC additional 2020 charge -	\$ 293,355	\$ 127,009	\$ 166,346	

	Consumption (Gal.):	# days in billing cycle	Total		PEU Consumption	CP Consumption	Total		PEU Consumption	CP Consumption	Two (2) month		PWW		PEU	
			current period	CP Consumption			prior period	CP Consumption			CP Consumption	Average Daily flow	Two (2) month Average Daily flow	Two (2) month Average Daily flow		
2020	Month:															
	January	31	20,520,246	3,764,853	16,755,393	-	-	-	-	-	16,755,393	16,755,393	537,929	109,457	501,251	
	February	29	16,122,279	2,802,587	13,319,692	20,520,246	3,764,853	16,755,393	610,709	109,457	501,251					
	March	31	17,155,280	3,059,320	14,095,960	16,122,279	2,802,587	13,319,692	554,626	97,698	456,928					
	April	30	18,383,446	3,927,680	14,455,766	17,155,280	3,059,320	14,095,960	582,602	114,541	468,061					
	May	31	28,475,363	8,825,221	19,650,141	18,383,446	3,927,680	14,455,766	768,177	209,064	559,113					
	June	30	45,630,335	18,129,509	27,500,826	28,475,363	8,825,221	19,650,141	1,214,847	441,681	772,967					
	July	31	46,369,613	19,554,270	26,815,343	45,630,335	18,129,509	27,500,826	1,508,196	617,767	890,429					
	August	31	47,483,342	18,659,174	28,824,167	46,369,613	19,554,270	26,815,343	1,513,787	616,346	897,411					77,402
	September	30	37,399,874	15,424,276	21,974,798	47,483,342	18,659,174	28,824,167	1,391,515	558,745	832,770					
	October	31	26,204,478	7,096,508	19,107,970	37,399,874	15,424,276	21,974,798	1,042,681	369,193	673,488					
	November	27	17,132,940	3,419,856	13,713,084	26,204,478	7,096,508	19,107,970	747,197	181,317	565,880					
December	-	-	-	-	-	17,132,940	3,419,856	13,713,084	634,553	126,661	507,892					

Pennichuck East Utility, Inc. (PEU)												Pennichuck Water Works, Inc. (PWW)														
Cust #95593			Cust #95563			Cust #95615			Cust #95741			Cust #143619			PEU CCF			Cust #95683			Cust #107225			PWW & PEU		
Loc #69634			Loc #69604			Loc #69656			Loc #64798			Loc #207920			Loc #69736			Loc #200376			PWW			PWW & PEU		
Joanne Dr.			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Gallons			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Coteville Rd			Meter Pit			Patten and			County Rd.			Donald Street			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
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Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald Street			Total			Total		
Smythwoods			Harvey Rd.			Mammoth Rd.			Rockingham @			Pine Ave			County Rd.			Donald								

Cust #95683 Loc #69736 Patten and County Rd. with fire protection	Beg Date	End Date	Days	CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec
	26-Dec	24-Jan	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	24-Jan	24-Feb	31	31	700	7	24	5	25	6	24	27	4	30	6	18
	24-Feb	25-Mar	30	30	700											
	25-Mar	24-Apr	30	30	900											
	24-Apr	27-May	33	33	2,100											
	27-May	6-Jul	40	40	6,760											
	6-Jul	24-Jul	18	18	4,600											
	24-Jul	25-Aug	32	32	6,030											
	25-Aug	29-Sep	35	35	5,600											
	29-Sep	28-Oct	29	29	2,500											
	28-Oct	27-Nov	30	30	1,580											
	27-Nov	26-Dec	29	-												
					32,000	31	29	31	30	31	30	31	31	30	27	-

	217	203	217	210	217	210	220	217	210	217	189	-
	31.00	29.00	31.00	30.00	31.00	30.00	31.43	31.00	30.00	31.00	27.00	0.00

Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	
930.00	-	-	-	-	-	-	-	-	-	-	-	930
158.06	541.94	-	-	-	-	-	-	-	-	-	-	700
-	116.67	583.33	-	-	-	-	-	-	-	-	-	700
-	-	100.00	400.00	-	-	-	-	-	-	-	-	900
-	-	-	391.92	1,718.18	-	-	-	-	-	-	-	2,100
-	-	-	-	676.00	5,070.00	1,014.00	-	-	-	-	-	6,760
-	-	-	-	-	-	4,600.00	-	-	-	-	-	4,600
-	-	-	-	-	-	1,318.06	4,710.94	-	-	-	-	6,030
-	-	-	-	-	-	-	960.00	4,640.00	-	-	-	5,600
-	-	-	-	-	-	-	-	86.21	2,413.79	-	-	2,500
-	-	-	-	-	-	-	-	-	158.00	1,422.00	-	1,580
-	-	-	-	-	-	-	-	-	-	-	-	-
1,088	699	683	782	2,394	5,070	6,933	5,671	4,726	2,572	1,422	-	32,000

Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	
3,200.00	-	-	-	-	-	-	-	-	-	-	-	3,200
745.16	2,554.84	-	-	-	-	-	-	-	-	-	-	3,300
-	533.33	2,666.67	-	-	-	-	-	-	-	-	-	3,200
-	-	740.00	2,960.00	-	-	-	-	-	-	-	-	3,700
-	-	-	1,509.09	6,790.91	16,986.67	-	-	-	-	-	-	8,300
-	-	-	-	2,613.33	2,180.65	14,719.35	-	-	-	-	-	16,900
-	-	-	-	-	-	4,489.66	16,034.48	-	-	-	-	20,524
-	-	-	-	-	-	-	3,240.00	15,660.00	-	-	-	18,900
-	-	-	-	-	-	-	-	234.48	6,565.52	-	-	6,800
-	-	-	-	-	-	-	-	-	350.00	3,150.00	-	3,500
-	-	-	-	-	-	-	-	-	-	-	-	-
3,945	3,088	3,407	4,469	9,404	19,167	19,209	19,274	15,894	6,916	3,150	-	107,924

Pennichuck Water Works, Inc.
DW 21-023 2021 QGPAC
Attachment DOE DR 2-1a)
Page 2 of 9

Manchester Water Works
Schedule of Pennichuck 60 day average daily consumption
2019

	Total	PEU Portion	PWW Portion
Average Daily Flow (Gal.) - Max. allowed	2,100,000		
Average Daily Flow (Gal.) -	1,356,078	718,602	502,704
Average Daily Flow (Gal.)	-	-	-
Increase in 2016 (Gal.)	-	-	-
Current MSDC rate per gallon -	\$ 3.37	\$ 3.37	\$ 3.37
MSDC additional charge	\$ -	\$ -	\$ -

Purchased 1,356,078 in 2016

Consumption (Gal.):	# days in billing cycle	Consumption current period	Consumption prior period	Two (2) month Average Daily flow
Month:				
2019				
January	30	19,955,072	-	665,169
February	28	15,697,874	19,955,072	614,706
March	28	16,912,032	15,697,874	582,320
April	31	17,179,873	16,912,032	577,825
May	32	20,962,960	17,179,873	605,439
June	32	24,398,148	20,962,960	708,767
July	30	33,702,665	24,398,148	937,110
August	29	33,986,570	33,702,665	1,147,275
September	32	30,274,427	33,986,570	1,053,459
October	30	25,277,860	30,274,427	896,005
November	33	18,397,060	25,277,860	693,253
December	30	14,905,324	18,397,060	528,609

Pennichuck East Utility, Inc. (PEU)								Pennichuck Water Works, Inc. (PWW)								PEU CCF Total	PWW CCF Total	Gallons Total
Cust #95593	Cust #95563	Cust #95615	Cust #95741	Cust #143619	Cust #95683	Cust #107225		Cust #95563	Cust #95683	Cust #107225								
Loc #69634	Loc #69604	Loc #69656	Loc #64798	Loc #207920	Loc #69736	Loc #200376		Loc #69736	Loc #69736	Loc #200376								
Joanne Dr.	Harvey Rd.	Mammoth Rd.	Rockingham @ Coteville Rd	Pine Ave. Meter Pit	Patten and County Rd.	Donald Street												
Month:																		
2019																		
January	30	865	3,537	16,026	1,030	152	1,110	3,958	21,610	5,068	19,955,072							
February	28	667	2,301	13,181	758	144	882	3,052	17,052	3,935	15,697,874							
March	28	651	2,531	14,576	445	204	863	3,240	18,407	4,203	16,912,032							
April	31	665	2,545	14,537	1,065	180	865	3,595	18,308	4,659	17,179,873							
May	32	660	3,255	15,904	406	195	1,406	6,199	20,420	7,605	20,962,960							
June	32	807	4,290	15,665	460	146	1,141	10,108	21,369	11,249	24,398,148							
July	30	848	2,901	23,548	635	176	1,410	15,539	28,108	16,949	33,702,665							
August	29	871	1,599	23,411	1,063	193	1,389	16,910	27,138	18,299	33,986,570							
September	32	735	3,363	20,283	938	176	1,212	13,767	25,496	14,978	30,274,427							
October	30	676	3,009	18,147	780	214	1,089	9,878	22,826	10,968	25,277,860							
November	33	632	2,429	14,839	585	191	984	4,935	18,676	5,919	18,397,060							
December	30	562	2,188	12,581	590	148	839	3,019	16,069	3,858	14,905,324							
365		8,640	33,947	202,700	8,070	2,121	13,490	94,200	255,478	107,690	271,649,664							
proof		8,640	33,947	202,700	8,070	2,121	13,490	94,200										

Londonderry Tank								Wellington Tank Low Service Tanks								Londonderry Tank CCF Total	Wellington Tank CCF Total	Low Service Tank CCF Total
Cust #95563	Cust #95615	Cust #95741	Cust #95593	Cust #143619	Cust #95683	Cust #107225		Cust #95563	Cust #95615	Cust #95741	Cust #95593	Cust #143619	Cust #95683	Cust #107225				
Loc #69604	Loc #69656	Loc #64798	Loc #69634	Loc #207920	Loc #69736	Loc #200376		Loc #69736	Loc #69736	Loc #200376								
Harvey Rd.	Mammoth Rd.	Rockingham @ Coteville Rd	Joanne Dr.	Pine Ave. Meter Pit	Patten and County Rd.	Donald Street												
Month:																		
2019																		
January	30	865	3,537	16,026	1,030	152	1,110	3,958	20,593	865	5,220							
February	28	667	2,301	13,181	758	144	882	3,052	16,241	667	4,079							
March	28	651	2,531	14,576	445	204	863	3,240	17,552	651	4,407							
April	31	665	2,545	14,537	1,065	180	865	3,595	17,463	665	4,840							
May	32	660	3,255	15,904	406	195	1,406	6,199	19,565	660	7,801							
June	32	807	4,290	15,665	460	146	1,141	10,108	20,415	807	11,396							
July	30	848	2,901	23,548	635	176	1,410	15,539	27,084	848	17,125							
August	29	871	1,599	23,411	1,063	193	1,389	16,910	26,073	871	18,492							
September	32	735	3,363	20,283	938	176	1,212	13,767	24,585	735	15,154							
October	30	676	3,009	18,147	780	214	1,089	9,878	21,936	676	11,182							
November	33	632	2,429	14,839	585	191	984	4,935	17,852	632	6,111							
December	30	562	2,188	12,581	590	148	839	3,019	15,359	562	4,006							
365		8,640	33,947	202,700	8,070	2,121	13,490	94,200	244,717	8,640	109,811							
proof		-	-	-	-	-	-	-	-	-	-							

				365	30	28	28	31	32	32	30	29	32	30	33	30	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	
Cust #95593	Beg Date	End Date	Days	CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	
Loc #69634 Joanne Dr. Smythwoods w/o fire protection	27-Dec	25-Jan	29	720	29	-	-	-	-	-	-	-	-	-	-	-	720.00	-	-	-	-	-	-	-	-	-	-	720	
	25-Jan	25-Feb	31	750	6	25	-	-	-	-	-	-	-	-	-	-	145.16	604.84	-	-	-	-	-	-	-	-	-	750	
	25-Feb	26-Mar	29	600	-	3	26	-	-	-	-	-	-	-	-	-	-	62.07	537.93	-	-	-	-	-	-	-	-	600	
	26-Mar	25-Apr	30	680	-	-	5	25	-	-	-	-	-	-	-	-	-	-	113.33	566.67	-	-	-	-	-	-	-	680	
	25-Apr	24-May	29	570	-	-	-	5	24	-	-	-	-	-	-	-	-	-	-	98.28	471.72	-	-	-	-	-	-	570	
	24-May	25-Jun	32	860	0	-	7	-	-	25	-	-	-	-	-	-	-	-	-	-	188.13	671.88	-	-	-	-	-	860	
	25-Jun	26-Jul	31	840	0	0	-	-	5	26	-	-	-	-	-	-	-	-	-	-	-	135.48	704.52	-	-	-	840		
	26-Jul	26-Aug	31	890	0	0	0	-	-	0	5	26	-	-	-	-	-	-	-	-	-	-	143.55	746.45	-	-	-	890	
	26-Aug	25-Sep	30	750	0	-	0	0	0	0	0	-	5	25	0	0	0	-	-	-	-	-	-	125.00	625.00	-	-	750	
	25-Sep	25-Oct	30	660	0	-	-	-	-	-	0	-	-	5	25	-	-	-	-	-	-	-	-	110.00	550.00	-	-	660	
	25-Oct	25-Nov	31	650	0	-	-	-	-	-	-	-	-	-	6	25	-	-	-	-	-	-	-	-	125.81	524.19	-	650	
	25-Nov	26-Dec	31	670	-	-	-	-	-	-	-	-	-	-	-	5	26	-	-	-	-	-	-	-	-	108.06	561.94	670	
	26-Dec	26-Jan	31	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	
				8,640	35	28	31	30	31	30	31	31	30	31	30	30	865.16	666.91	651.26	664.94	659.85	807.36	848.06	871.45	735.00	675.81	632.26	561.94	8,640
Cust #95563	Beg Date	End Date	Days	CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	
Loc #69604 Harvey Rd. with fire protection	27-Dec	25-Jan	29	3,043	29	-	-	-	-	-	-	-	-	-	-	-	3,043.20	-	-	-	-	-	-	-	-	-	-	3,043	
	25-Jan	25-Feb	31	2,551	6	25	-	-	-	-	-	-	-	-	-	-	493.70	2,057.10	-	-	-	-	-	-	-	-	-	2,551	
	25-Feb	26-Mar	29	2,357	-	3	26	-	-	-	-	-	-	-	-	-	-	243.85	2,113.35	-	-	-	-	-	-	-	-	2,357	
	26-Mar	25-Apr	30	2,504	-	-	5	25	-	-	-	-	-	-	-	-	-	-	417.33	2,086.67	-	-	-	-	-	-	-	2,504	
	25-Apr	24-May	29	2,657	-	-	-	5	24	-	-	-	-	-	-	-	-	-	-	458.14	2,199.06	-	-	-	-	-	-	2,657	
	24-May	25-Jun	32	1,498	0	-	7	-	-	25	-	-	-	-	-	-	-	-	-	-	327.60	1,170.00	-	-	-	-	-	1,498	
	24-May	26-Jul	63	6,551	0	0	7	-	-	30	26	-	-	-	-	-	-	-	-	-	727.89	3,119.52	2,703.59	-	-	-	-	6,551	
	26-Jul	26-Aug	31	1,225	0	0	0	-	-	0	5	26	-	-	-	-	-	-	-	-	-	-	197.58	1,027.42	-	-	-	1,225	
	26-Aug	25-Sep	30	3,429	0	-	0	0	0	0	0	-	5	25	0	0	0	-	-	-	-	-	-	571.50	2,857.50	-	-	3,429	
	25-Sep	25-Oct	30	3,033	0	-	-	-	-	-	0	-	-	5	25	-	-	-	-	-	-	-	-	-	505.50	2,527.50	-	-	3,033
	25-Oct	25-Nov	31	2,490	0	-	-	-	-	-	0	-	-	-	6	25	-	-	-	-	-	-	-	-	-	481.94	2,008.06	-	2,490
	25-Nov	26-Dec	31	2,609	0	-	-	-	-	-	-	-	-	-	-	5	26	-	-	-	-	-	-	-	-	-	420.81	2,188.19	2,609
	26-Dec	26-Jan	31	-	-	0	-	-	-	-	0	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	
				33,947	35	28	31	30	38	55	31	31	30	31	30	30	3,536.90	2,300.95	2,530.69	2,544.80	3,254.55	4,289.52	2,901.17	1,598.92	3,363.00	3,009.44	2,428.87	2,188.19	33,947
Cust #95615	Beg Date	End Date	Days	CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	
Loc #69656 Mammoth Rd. with fire protection	27-Dec	25-Jan	29	13,200	29	-	-	-	-	-	-	-	-	-	-	-	13,200.00	-	-	-	-	-	-	-	-	-	-	13,200	
	25-Jan	25-Feb	31	14,600	6	25	-	-	-	-	-	-	-	-	-	-	2,825.81	11,774.19	-	-	-	-	-	-	-	-	-	14,600	
	25-Feb	26-Mar	29	13,600	-	3	26	-	-	-	-	-	-	-	-	-	-	1,406.90	12,193.10	-	-	-	-	-	-	-	-	13,600	
	26-Mar	25-Apr	30	14,300	-	-	5	25	-	-	-	-	-	-	-	-	-	-	2,383.33	11,916.67	-	-	-	-	-	-	-	14,300	
	25-Apr	24-May	29	15,200	-	-	-	5	24	-	-	-	-	-	-	-	-	-	-	2,620.69	12,579.31	-	-	-	-	-	-	15,200	
	24-May	25-Jun	32	15,200	0	-	7	-	-	25	-	-	-	-	-	-	-	-	-	-	3,325.00	11,875.00	-	-	-	-	-	-	15,200
	25-Jun	26-Jul	31	23,500	0	0	-	-	5	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23,500	
	26-Jul	26-Aug	31	23,800	0	0	0	-	-	0	5	26	-	-	-	-	-	-	-	-	-	3,790.32	19,709.68	-	-	-	-	23,800	
	26-Aug	25-Sep	30	20,700	-	-	0	0	0	0	0	-	5	25	0	0	0	-	-	-	-	-	-	3,450.00	17,250.00	-	-	20,700	
	25-Sep	25-Oct	30	18,200	-	-	-	-	-	0	0	-	-	5	25	-	-	-	-	-	-	-	-	-	3,033.33	15,166.67	-	-	18,200
	25-Oct	25-Nov	31	15,400	0	-	-	-	-	-	0	-	-	-	6	25	-	-	-	-	-	-	-	-	-	2,980.65	12,419.35	-	15,400
	25-Nov	26-Dec	31	15,000	0	-	-	-	-	-	0	-	-	-	-	5	26	-	-	-	-	-	-	-	-	-	2,419.35	12,580.65	15,000
	26-Dec	26-Jan	31	-	-	0	-	-	-	-	0	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	
				202,700	35	28	31	30	31	30	31	31	30	31	30	30	16,025.81	13,181.09	14,576.44	14,537.36	15,904.31	15,665.32	23,548.39	23,411.29	20,283.33	18,147.31	14,838.71	12,580.65	202,700
Cust #95741	Beg Date	End Date	Days	CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	
Loc #69798 Rockingham @ Coteville Rd with fire protection	27-Dec	25-Jan	29	859	29	-	-	-	-	-	-	-	-	-	-	-	859.00	-	-	-	-	-	-	-	-	-	-	859	
	25-Jan	25-Feb	31	886	6	25	-	-	-	-	-	-	-	-	-	-	171.48	714.52	-	-	-	-	-	-	-	-	-	886	
	25-Feb	26-Mar	29	425	-	3	26	-	-	-	-	-	-	-	-	-	-	43.97	381.03	-	-	-	-	-	-	-	-	425	
	26-Mar	25-Apr	30	381	-	-	5	25	-	-	-	-	-	-	-	-	-	-	63.50	317.50	-	-	-	-	-	-	-	381	

	25-Apr	24-May	29	29	365	-			5	24	-						-	-	-	62.93	302.07	-	-	-	-	-	-	365	
	24-May	25-Jun	32	32	475	0				7	25						-	-	-	-	103.91	-	371.09	-	-	-	475		
	25-Jun	26-Jul	31	31	550	0	0					26					-	-	-	-	-	88.71	461.29	-	-	-	550		
	26-Jul	26-Aug	31	31	1,075	0	0	0				5	26				-	-	-	-	-	-	173.39	901.61	-	-	1,075		
	26-Aug	25-Sep	30	30	966			0	0	0	0		5	25		0	0	0	-	-	-	-	-	161.00	805.00	-	966		
	25-Sep	25-Oct	30	30	800						0			25					-	-	-	-	-	-	133.33	666.67	800		
	25-Oct	25-Nov	31	31	584	0					0			6	25				-	-	-	-	-	-	113.03	470.97	584		
	25-Nov	26-Dec	31	31	704	0					0				5	26			-	-	-	-	-	-	-	113.55	590.45	704	
	26-Dec	26-Jan	31	4	-	0					0					4			-	-	-	-	-	-	-	-	-		
					8,070	35	28	31	30	31	30	31	31	30	31	30	1,030	758	445	380	406	460	635	1,063	938	780	585	590	8,070
					</																								

Manchester Water Works
Schedule of Pennichuck 60 day average daily consumption
2018

Consumption (Gal.):

Pennichuck East Utility, Inc. (PEU)				Pennichuck Water Works, Inc. (PWW)			
Cust #95593	Cust #95563	Cust #95615	Cust #95741	Cust #143619	Cust #95683	Cust #107225	
Loc #69634	Loc #69604	Loc #69656	Loc #64798	Loc #207920	Loc #69736	Loc #200376	
Joanne Dr.			Rockingham @	Pine Ave.	Patten and		
Smythwoods	Harvey Rd.	Mammoth Rd.	Cotleville Rd.	Meter Pit	County Rd.	Donald Street	

Londonderry Tank			Wellington Tank Low Service Tanks					Londonderry	Wellington	Low Service
Cust #95563	Cust #95615	Cust #95741	Cust #95893	Cust #143619	Cust #95683	Cust #107225		Tank	Tank	Tank
Loc #69604	Loc #69656	Loc #64798	Loc #69634	Loc #207920	Loc #69736	Loc #200376		CCF	CCF	CCF
Harvey Rd.	Mammoth Rd.	Rockingham @ Cottleville Rd.	Joanne Dr. Smythwoods	Pine Ave. Meter Pit	Patten and County Rd.	Donald Street		Total	Total	Total

Cust #95593
Loc #69634
Joanne Dr.
Smythwoods

Cust #95563
Loc #69604
Harvey Rd.

Cust #95615
Loc #69656
Mammoth Rd.

Cust #95741
Loc #69798
Rockingham @
Coteville Rd

	23-Apr	14-Jun	52	52	2,289	-			7	31	14							308.13	1,364.60	616.27	-	-	-	-	-	-	2,289				
	14-Jun	26-Jun	12	12	705	0				0	12							-	-	705.00	-	-	-	-	-	-	705				
	26-Jun	26-Jul	30	30	1,678	0	0				0							-	-	-	1,454.27	-	-	-	-	-	1,454				
	26-Jul	24-Aug	29	29	1,153		0	0			26		24					-	-	-	198.79	954.21	-	-	-	-	1,153				
	24-Aug	25-Sep	32	32	1,291			0	0		5		7		25	5	0	0	0	-	-	282.41	1,008.59	-	-	-	1,291				
	25-Sep	25-Oct	30	30	651										5	25	6	27		-	-	-	108.50	542.50	-	-	651				
	25-Oct	27-Nov	33	33	460	0					0					6	27	3		-	-	-	-	83.64	376.36	-	460				
	27-Nov	27-Dec	30	30	845	0					0						27	3		-	-	-	-	-	84.50	760.50	845				
	27-Dec	26-Jan	30	4	-	0					0						4			-	-	-	-	-	-	-	-				
					12,408	31	28	31	30	31	26	31	31	30	31	30	31	927	792	840	965	1,365	1,321	1,653	1,237	1,117	626	461	761	12,064	
Cust #143619 Pine Ave. Meter Pit	Beg Date	End Date	Days		CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec		
	27-Dec	26-Jan	30	30	187	26	-	-	-	-	-	-	-	-	-	-	-	162.07									-	-	162		
	26-Jan	23-Feb	28	28	154	5	23	-	-	-	-	-	-	-	-	-	-	27.50	126.50								-	-	154		
	23-Feb	23-Mar	28	28	151	-	5	23	-	-	-	-	-	-	-	-	-		26.96	124.04							-	-	151		
	23-Mar	23-Apr	31	31	161	-		8	23	-	-	-	-	-	-	-	-			41.55	119.45						-	-	161		
	23-Apr	25-May	32	32	177	-			7	25	-	-	-	-	-	-	-				38.72	138.28					-	-	177		
	25-May	26-Jun	32	32	199	0				6	26	-	-	-	-	-	-					37.31	161.69				-	-	199		
	26-Jun	26-Jul	30	30	191	0	0				7	26											44.57	165.53			-	-	210		
	26-Jul	24-Aug	29	29	159		0	0				5	24			0	0	0	-	-				27.41	131.59		-	-	159		
	24-Aug	25-Sep	32	32	182			0	0				7	25			0	-	-						39.81	142.19		-	182		
	25-Sep	25-Oct	30	30	160									5	25		6	-	-							26.67	133.33	-	160		
	25-Oct	27-Nov	33	33	188	0					0					6	27	-	-								34.18	153.82	-	188	
	27-Nov	27-Dec	30	30	166	0					0						3	-	-									16.60	149.40	166	
	27-Dec	26-Jan	30	4	-	0					0						4	-	-								-	-	-		
					2,075	31	28	31	30	31	33	31	31	30	31	30	31	190	153	166	158	176	206	193	171	169	168	170	149	2,069	
Cust #95683 Loc #69736 Patten and County Rd.	Beg Date	End Date	Days		CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage June	Usage July	Usage August	Usage Sept	Usage Sept	Usage June	Usage July	Usage August	Usage Sept	Usage Sept	Usage Sept	Usage Sept		
	27-Dec	26-Jan	30	26	2,230	26	-	-	-	-	-	-	-	-	-	-	-	1,932.67										-	1,933		
	26-Jan	23-Mar	56	56	500	5	28	23	-	-	-	-	-	-	-	-	-	44.64	250.00	205.36							-	-	500		
	23-Mar	23-Apr	31	31	-	-	-																					-	-		
	23-Apr	25-May	31	31	1,090	-		8	23	-	-	-	-	-	-	-	-										-	-	1,090		
	23-Apr	25-May	32	32	2,460	-			7	25	-	-	-	-	-	-	-			281.29							-	-	2,460		
	25-May	26-Jun	32	32	4,530	0				6	26	-	-	-	-	-	-				538.13	1,921.88					-	-	4,530		
	26-Jun	26-Jul	30	30	4,620	0	0				7	26										849.38	3,680.63				-	-	5,082		
	26-Jul	24-Aug	29	29	-		0	0				26	5	24									1,078.00	4,004.00			-	-	-		
	24-Aug	25-Sep	32	32	1,370			0	0	0				7	25		0	0	0	-	-						-	-	1,370		
	25-Sep	23-Oct	28	30	900										5		25		-	-							299.69	1,070.31	964		
	23-Oct	27-Nov	35	35	1,070	0					0					8	27	-	-									160.71	803.57	-	1,070
	27-Nov	27-Dec	30	30	970	0					0						3	-	-									244.57	825.43	-	970
	27-Dec	26-Jan	30	4	-	0					0						4	-	-										97.00	873.00	970
					19,740	31	28	31	30	31	33	31	31	30	33	30	31	1,977	250	487	1,347	2,771	4,759	4,004	300	1,231	1,048	922	873	19,969	
Cust #107225 Loc #200376 Donald Street	Beg Date	End Date	Days		CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage June	Usage July	Usage August	Usage Sept	Usage Sept	Usage June	Usage July	Usage August	Usage Sept	Usage Sept	Usage Sept	Usage Sept		
	27-Dec	26-Jan	30	26	3,400	26	-	-	-	-	-	-	-	-	-	-	-	2,946.67										-	2,947		
	26-Jan	23-Feb	28	28	3,200	5	23	-	-	-	-	-	-	-	-	-	-	571.43	2,628.57								-	-	3,200		
	23-Feb	23-Mar	28	28	3,000	-	5	23	-	-	-	-	-	-	-	-	-		535.71	2,464.29							-	-	3,000		
	23-Mar	23-Apr	31	31	3,300	-		8	23	-	-	-	-	-	-	-	-			851.61	2,448.39						-	-	3,300		
	23-Apr	7-Jun	45	45	12,200	-			7	31	-	-	-	-	-	-	-				1,897.78	8,404.44	1,897.78				-	-	12,200		
	7-Jun	26-Jun	19	19	11,500	0				0	19																-	-	-		
	26-Jun	26-Jul	30	30	16,000	0	0					26															-	-	-		
	26-Jul	24-Aug	29	29	10,400		0	0				5	24			0	0	0	-	-				13,866.67			-	-	13,867		
	24-Aug	25-Sep	32	32	12,100			0	0				7	25				-	-					1,793.10	8,606.90		-	-	10,400		
	25-Sep	25-Oct	30	30	4,900									5	25			-	-						2,646.88	9,453.13		-	12,100		
	25-Oct	27-Nov	33	33	4,000	0					0					6	27	-	-									816.67	4,083.33	-	4,900
	27-Nov	27-Dec	30	30	3,600	0					0						3	-	-										3,272.73	-	4,000
	27-Dec	26-Jan	30	4	-	0					0						4	-	-										360.00	3,240.00	3,600
					87,600	31	28	31	30	31	26	31	31	30	31	30	31	3,518	3,164	3,316	4,346	8,404	1,898	15,660	11,254	10,270	4,811	3,633	3,240	73,513	
						217	196	217	210	217	211	217	217	210	217	210	217														
						31.00	28.00	31.00	30.00	31.00	30.14	31.00	31.00	30.00	31.29	30.00	31.00														

Manchester Water Works
Schedule of Pennichuck 60 day average daily consumption
2017

	Total	PEU Portion	PWW Portion
Average Daily Flow (Gal.) - Max. allowed	2,100,000		
Average Daily Flow (Gal.) - (2016)	1,356,078	718,602	502,704
Average Daily Flow (Gal.)	-		
Increase in 2016 (Gal.)	-	-	-
Current MSDC rate per gallon -2016	\$ 3.37	\$ 3.37	\$ 3.37
MSDC additional charge	\$ -	\$ -	\$ -

Purchased 1,356,078 in 2016

Consumption (Gal.):	# days in billing cycle	Consumption current period	Consumption prior period	Two (2) month Average Daily flow
Month:				
2017 January	31	17,425,209	-	562,104
February	28	12,913,237	17,425,209	514,211
March	31	15,362,601	12,913,237	479,251
April	30	15,640,712	15,362,601	508,251
May	31	20,894,561	15,640,712	598,939
June	30	27,549,052	20,894,561	794,158
July	31	30,853,311	27,549,052	957,416
August	31	28,935,429	30,853,311	964,335
September	30	26,403,735	28,935,429	907,199
October	31	21,791,585	26,403,735	790,087
November	30	15,864,609	21,791,585	617,315
December	31	21,489,874	15,864,609	612,369

Pennichuck East Utility, Inc. (PEU)						Pennichuck Water Works, Inc. (PWW)						PEU CCF Total	PWW CCF Total	Gallons Total
Month:	Cust #95593 Loc #69634 Joanne Dr. Smythwoods	Cust #95563 Loc #69604 Harvey Rd.	Cust #95615 Loc #69656 Mammoth Rd.	Cust #95741 Loc #64798 Rockingham @ Coteville Rd	Cust #143619 Loc #207920 Pine Ave. Meter Pit	Cust #95683 Loc #69736 Patten and County Rd.	Cust #107225 Loc #200376 Donald Street							
January	31	439	1,664	15,443	720	158	833	4,040	18,423	4,873	17,425,209			
February	28	324	1,271	11,606	521	112	691	2,738	13,835	3,429	12,913,237			
March	31	420	1,530	13,757	614	142	831	3,244	16,463	4,076	15,362,601			
April	30	414	1,533	13,281	643	157	957	3,924	16,029	4,881	15,640,712			
May	31	471	2,415	15,545	928	171	1,482	6,922	19,529	8,405	20,894,561			
June	30	555	3,259	18,174	1,306	152	2,017	11,367	23,446	13,384	27,549,052			
July	31	645	2,974	19,919	1,431	174	2,527	13,577	25,143	16,105	30,853,311			
August	31	653	1,754	19,098	1,374	185	2,606	15,619	28,935,429	15,619	28,935,429			
September	30	604	3,542	17,482	904	168	2,199	12,598	26,403,735	12,598	26,403,735			
October	31	581	3,262	15,602	941	178	1,738	6,832	20,564	8,570	21,791,585			
November	30	509	2,587	12,615	686	180	1,214	3,419	16,577	4,632	15,864,609			
December	31	493	3,408	13,331	799	202	6,852	3,644	18,234	10,496	21,489,874			
proof	365	6,109	29,200	185,854	10,866	1,979	23,949	83,118	234,008	107,067	255,123,913			

Londonderry Tank						Wellington Tank Low Service Tanks						Londonderry Tank CCF Total	Wellington Tank CCF Total	Low Service Tank CCF Total
Month:	Cust #95563 Loc #69604 Harvey Rd.	Cust #95615 Loc #69656 Mammoth Rd.	Cust #95741 Loc #64798 Rockingham @ Coteville Rd	Cust #95593 Loc #69634 Joanne Dr. Smythwoods	Cust #143619 Loc #207920 Pine Ave. Meter Pit	Cust #95683 Loc #69736 Patten and County Rd.	Cust #107225 Loc #200376 Donald Street							
January	31	439	1,664	15,443	720	158	833	4,040	18,423	4,873	17,425,209			
February	28	324	1,271	11,606	521	112	691	2,738	13,835	3,429	12,913,237			
March	31	420	1,530	13,757	614	142	831	3,244	16,463	4,076	15,362,601			
April	30	414	1,533	13,281	643	157	957	3,924	16,029	4,881	15,640,712			
May	31	471	2,415	15,545	928	171	1,482	6,922	19,529	8,405	20,894,561			
June	30	555	3,259	18,174	1,306	152	2,017	11,367	23,446	13,384	27,549,052			
July	31	645	2,974	19,919	1,431	174	2,527	13,577	25,143	16,105	30,853,311			
August	31	653	1,754	19,098	1,374	185	2,606	15,619	28,935,429	15,619	28,935,429			
September	30	604	3,542	17,482	904	168	2,199	12,598	26,403,735	12,598	26,403,735			
October	31	581	3,262	15,602	941	178	1,738	6,832	20,564	8,570	21,791,585			
November	30	509	2,587	12,615	686	180	1,214	3,419	16,577	4,632	15,864,609			
December	31	493	3,408	13,331	799	202	6,852	3,644	18,234	10,496	21,489,874			
proof	365	6,109	29,200	185,854	10,866	1,979	23,949	83,118	234,008	107,067	255,123,913			

Cust #95593 Loc #69634 Joanne Dr. Smythwoods	Beg Date	End Date	Days	366	31	29	31	30	31	30	31	31	30	31	30	31	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	
	Days	CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec															
	23-Dec	23-Jan	31 23	470	23	-	-	-	-	-	-	-	-	-	-	348.71	-	-	-	-	-	-	-	-	-	-	-	349	
	23-Jan	24-Feb	32 32	360	8	24	-	-	-	-	-	-	-	-	-	90.00	270.00	-	-	-	-	-	-	-	-	-	-	360	
	24-Feb	27-Mar	31 31	420	-	4	27	-	-	-	-	-	-	-	-	-	54.19	365.81	-	-	-	-	-	-	-	-	-	420	
	27-Mar	24-Apr	28 28	380	-	-	4	24	-	-	-	-	-	-	-	-	-	54.29	325.71	-	-	-	-	-	-	-	-	380	
	24-Apr	26-May	32 32	470	0	-	6	26	-	-	-	-	-	-	-	-	-	-	88.13	381.88	-	-	-	-	-	-	-	470	
	26-May	23-Jun	28 28	500	0	-	-	5	23	-	-	-	-	-	-	-	-	-	-	89.29	410.71	-	-	-	-	-	-	500	
	23-Jun	24-Jul	31 31	640	0	0	0	7	24	-	-	-	-	-	-	-	-	-	-	-	144.52	495.48	-	-	-	-	-	640	
	24-Jul	24-Aug	31 31	660	0	0	0	0	7	24	-	-	-	-	-	-	-	-	-	-	-	149.03	510.97	-	-	-	-	660	
	24-Aug	25-Sep	32 32	650	0	-	0	0	0	7	24	25	0	0	0	-	-	-	-	-	-	-	-	507.81	-	-	-	650	
	25-Sep	24-Oct	29 29	560	0	-	-	-	0	-	-	5	24	7	-	-	-	-	-	-	-	-	-	96.55	463.45	-	-	560	
	24-Oct	28-Nov	35 35	590	0	-	-	-	0	-	-	5	24	7	28	-	-	-	-	-	-	-	-	-	118.00	472.00	-	590	
	28-Nov	27-Dec	29 29	530	-	-	-	-	0	-	-	-	-	2	27	-	-	-	-	-	-	-	-	-	-	36.55	493.45	530	
	27-Dec	26-Jan	30 4	540	-	-	-	-	0	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	72.00	493.45	72	
				4,670	31	28	31	30	31	30	31	30	31	30	31	438.71	324.19	420.09	413.84	471.16	555.23	644.52	653.16	604.36	581.45	508.55	493.45	6,109	

	Beg Date	End Date	Days	CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	
Cust #95563	23-Dec	23-Jan	31	23	1,761	23	-	-	-	-	-	-	-	-	-	-	1,306.55	-	-	-	-	-	-	-	-	-	-	1,307	
Loc #69604	23-Jan	24-Feb	32	32	1,429	8	24	-	-	-	-	-	-	-	-	-	357.25	1,071.75	-	-	-	-	-	-	-	-	-	1,429	
Harvey Rd.	24-Feb	27-Mar	31	31	1,546	-	4	27	-	-	-	-	-	-	-	-	-	199.48	1,346.52	-	-	-	-	-	-	-	-	1,546	
	27-Mar	25-Apr	29	29	1,327	-	-	27	25	-	-	-	-	-	-	-	-	-	183.03	-	-	-	-	-	-	-	-	1,327	
	25-Apr	31-May	36	36	2,804	-	-	4	5	31	-	-	-	-	-	-	-	-	-	1,143.97	2,414.56	-	-	-	-	-	-	2,804	
	31-May	23-Jun	23	23	2,470	0	-	-	0	23	-	-	-	-	-	-	-	-	-	-	-	2,470.00	-	-	-	-	-	2,470	
	23-Jun	24-Jul	31	31	3,495	0	0	-	7	24	-	-	-	-	-	-	-	-	-	-	789.19	2,705.81	-	-	-	-	-	3,495	
	24-Jul	24-Aug	31	31	1,186	0	0	0	-	7	24	-	-	-	-	-	-	-	-	-	-	-	267.81	918.19	-	-	-	1,186	
	24-Aug	25-Sep	32	32	3,822	0	-	0	0	0	7	24	25	0	0	0	-	-	-	-	-	-	-	836.06	2,985.94	-	-	3,822	
	25-Sep	24-Oct	29	29	3,227	0	-	-	-	-	-	-	5	24	7	-	-	-	-	-	-	-	-	-	556.38	2,670.62	-	3,227	
	24-Oct	28-Nov	35	35	2,956	0	-	-	0	-	-	-	-	-	28	-	-	-	-	-	-	-	-	-	-	591.20	2,364.80	2,956	
	28-Nov	27-Dec	29	29	3,229	0	-	-	0	-	-	-	-	-	2	27	-	-	-	-	-	-	-	-	-	-	2,364.80	3,229	
	27-Dec	26-Jan	30	4	3,015	0	-	-	0	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	402.00	402	
					32,267	31	28	31	30	31	30	31	30	31	30	31	1,663.80	1,271.23	1,529.55	1,533.41	2,414.56	3,259.19	2,973.61	1,754.26	3,542.32	3,261.82	2,587.49	3,408.31	29,200

Cust #95615 Loc #69656 Mammoth Rd.	Beg Date	End Date	Days	CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	
	23-Dec	23-Jan	31	23	16,400	23	-	-	-	-	-	-	-	-	-	-	12,167.74	-	-	-	-	-	-	-	-	-	-	12,168	
	23-Jan	24-Feb	32	13,100	8	24	-	-	-	-	-	-	-	-	-	-	3,275.00	9,825.00	-	-	-	-	-	-	-	-	13,100		
	24-Feb	27-Mar	31	13,800	-	4	27	-	-	-	-	-	-	-	-	-	-	1,780.65	12,019.35	-	-	-	-	-	-	-	13,800		
	27-Mar	25-Apr	29	12,600	-	-	4	25	-	-	-	-	-	-	-	-	-	-	1,737.93	10,862.07	-	-	-	-	-	-	12,600		
	25-Apr	26-May	31	15,000	-	-	-	26	-	-	-	-	-	-	-	-	-	-	-	2,419.35	12,580.65	-	-	-	-	-	15,000		
	26-May	23-Jun	28	16,600	0	-	-	5	23	-	-	-	-	-	-	-	-	-	-	-	2,964.29	13,635.71	-	-	-	-	16,600		
	23-Jun	24-Jul	31	20,100	0	0	-	-	7	24	-	-	-	-	-	-	-	-	-	-	-	15,561.29	-	-	-	-	20,100		
	24-Jul	24-Aug	31	19,300	-	0	0	-	-	-	7	24	-	-	-	-	-	-	-	-	-	4,358.06	14,941.94	-	-	-	19,300		
	24-Aug	25-Sep	32	19,000	-	-	-	0	0	-	-	7	25	0	0	0	-	-	-	-	-	-	4,156.25	14,843.75	-	-	19,000		
	25-Sep	28-Oct	29	15,300	-	-	-	-	-	-	-	-	5	24	-	-	-	-	-	-	-	-	-	2,637.93	12,862.07	-	15,300		
	28-Oct	28-Nov	35	14,700	0	-	-	-	-	0	-	-	-	7	28	-	-	-	-	-	-	-	-	-	2,940.00	11,760.00	14,700		
	28-Nov	27-Dec	29	12,400	0	-	-	-	-	0	-	-	-	-	2	27	-	-	-	-	-	-	-	-	-	855.17	11,544.83		
	27-Dec	26-Jan	30	13,400	0	-	-	-	-	0	-	-	-	-	0	4	-	-	-	-	-	-	-	-	-	-	1,786.67		
				201,700	31	28	31	30	31	30	31	31	30	31	30	31	15,442.74	11,605.65	13,757.29	13,281.42	15,544.93	18,174.42	19,919.35	19,098.19	17,481.68	15,602.07	12,615.17	13,331.49	185,854

Manchester Water Works
Schedule of Pennichuck 60 day average daily consumption
2016

	Total	PEU Portion	PWW Portion
Average Daily Flow (Gal.) - Max. allowed	2,100,000		
Average Daily Flow (Gal.) - (2011)	1,221,306	718,602	502,704
Average Daily Flow (Gal.)	1,356,078	787,073	569,005
Increase in 2016 (Gal.)	134,772	68,471	66,301
Current MSDC rate per gallon -2016	\$ 3.37	\$ 3.37	\$ 3.37
MSDC additional charge	\$ 454,182	\$ 230,747	\$ 223,435

Purchased 1,356,078 in 2016

Consumption (Gal.):	# days in billing cycle	Consumption current period	Consumption prior period	Two (2) month Average Daily flow
Month:				
2016 January	31	14,537,131	-	468,940
February	28	13,309,144	14,537,131	471,971
March	31	14,205,246	13,309,144	466,346
April	30	15,242,434	14,205,246	482,749
May	31	26,623,996	15,242,434	686,335
June	30	39,843,351	26,623,996	1,089,629
July	31	42,877,420	39,843,351	1,356,078
August	31	37,666,073	42,877,420	1,299,689
September	30	29,953,003	37,666,073	1,108,509
October	31	17,969,054	29,953,003	785,607
November	30	14,737,320	17,969,054	536,170
December	31	16,249,140	14,737,320	507,975

Pennichuck East Utility, Inc. (PEU)						Pennichuck Water Works, Inc. (PWW)				
Cust #95593 Loc #69634 Joanne Dr. Smythwoods	Cust #95563 Loc #69604 Harvey Rd.	Cust #95615 Loc #69656 Mammoth Rd.	Cust #95741 Loc #64798 Rockingham @ Coteville Rd	Cust #143619 Loc #207920 Pine Ave. Meter Pit	Cust #95683 Loc #69736 Patten and County Rd.	Cust #107225 Loc #200376 Donald Street	PEU CCF Total	PWW CCF Total	Gallons Total	
Month:										
January	31	407	1,318	12,681	574	150	3,572	15,130	4,304	14,537,131
February	29	431	1,124	11,670	529	129	3,117	13,884	3,909	13,309,144
March	31	379	1,250	12,229	591	136	3,516	14,584	4,407	14,205,246
April	30	382	1,455	12,332	684	133	1,182	14,987	5,391	15,242,434
May	31	576	2,734	17,184	1,236	158	2,205	11,500	13,706	26,623,996
June	30	782	4,192	23,613	1,620	189	3,616	30,396	22,871	39,843,351
July	31	842	4,322	26,715	1,691	220	3,589	33,791	23,532	42,877,420
August	31	31	3,498	24,861	1,599	265	16,469	30,892	19,464	37,666,073
September	30	553	2,657	20,315	1,263	46	2,525	12,684	15,209	29,953,003
October	31	384	1,375	14,058	807	151	1,244	6,004	7,248	17,969,054
November	30	360	1,175	12,917	752	137	839	15,340	4,362	14,737,320
December	31	397	1,473	14,429	470	147	912	16,916	4,807	16,249,140
proof	366	6,163	26,573	203,003	11,816	1,863	21,524	249,417	129,211	283,213,314

Londonerry Tank		Wellington Tank		Low Service Tanks			Londonderry		Wellington		Low Service	
Cust #95563 Loc #69604	Cust #95615 Loc #69656	Cust #95741 Loc #64798 Rockingham @ Coteville Rd	Cust #95593 Joanne Dr. Smythwoods	Cust #143619 Loc #207920 Pine Ave. Meter Pit	Cust #95683 Loc #69736 Patten and County Rd.	Cust #107225 Loc #200376 Donald Street	Tank CCF Total		Tank CCF Total		Tank CCF Total	
Month:												
January	31	407	1,318	12,681	574	150	3,572	14,573	407	14,573	407	4,455
February	29	431	1,124	11,670	529	129	3,117	13,323	431	13,323	431	4,039
March	31	379	1,250	12,229	591	136	3,516	14,070	379	14,070	379	4,543
April	30	382	1,455	12,332	684	133	1,182	14,472	382	14,472	382	5,524
May	31	576	2,734	17,184	1,236	158	2,205	21,154	576	21,154	576	13,864
June	30	782	4,192	23,613	1,620	189	3,616	29,425	782	29,425	782	23,059
July	31	842	4,322	26,715	1,691	220	3,589	32,728	842	32,728	842	23,752
August	31	31	3,498	24,861	1,599	265	16,469	29,958	31	29,958	31	19,729
September	30	553	2,657	20,315	1,263	46	2,525	12,684	553	12,684	553	15,256
October	31	384	1,375	14,058	807	151	1,244	6,004	384	6,004	384	7,399
November	30	360	1,175	12,917	752	137	839	14,843	360	14,843	360	4,499
December	31	397	1,473	14,429	470	147	912	16,371	397	16,371	397	4,955
proof	366	6,163	26,573	203,003	11,816	1,863	21,524	241,391	6,163	241,391	6,163	131,073

Cust #95593 Loc #69634 Joanne Dr. Smythwoods	Beg Date	End Date	Days	366	31	29	31	30	31	30	31	31	30	31	30	31	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	
	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec					
	28-Dec	28-Jan	31	28	400	28	-	-	-	-	-	-	-	-	-	-	361.29	-	-	-	-	-	-	-	-	-	-	361	
	28-Jan	26-Feb	29	29	440	3	26	-	-	-	-	-	-	-	-	-	45.52	394.48	-	-	-	-	-	-	-	-	-	440	
	26-Feb	29-Mar	32	32	390	-	3	29	-	-	-	-	-	-	-	-	-	36.56	353.44	-	-	-	-	-	-	-	-	390	
	29-Mar	29-Apr	31	31	390	-	-	2	29	-	-	-	-	-	-	-	-	-	25.16	364.84	-	-	-	-	-	-	-	390	
	29-Apr	27-May	28	28	490	-	-	1	27	-	-	-	-	-	-	-	-	-	-	17.50	472.50	-	-	-	-	-	-	490	
	27-May	28-Jun	32	32	830	0	-	-	4	28	-	-	-	-	-	-	-	-	-	-	103.75	726.25	-	-	-	-	-	830	
	28-Jun	27-Jul	29	29	810	0	0	-	-	2	27	-	-	-	-	-	-	-	-	-	-	55.86	754.14	-	-	-	-	810	
	27-Jul	26-Aug	30	30	660	0	0	0	-	0	4	26	-	-	-	-	-	-	-	-	-	-	88.00	572.00	-	-	-	660	
	26-Aug	26-Sep	31	31	600	0	-	0	0	0	-	5	26	-	0	0	-	-	-	-	-	-	-	96.77	503.23	-	-	600	
	26-Sep	24-Oct	28	28	350	0	-	-	-	0	-	-	4	24	7	23	-	-	-	-	-	-	-	50.00	-	300.00	-	350	
	24-Oct	23-Nov	30	30	360	0	-	-	-	0	-	-	-	-	23	23	-	-	-	-	-	-	-	-	84.00	276.00	-	360	
	23-Nov	23-Dec	30	30	360	0	-	-	-	0	-	-	-	-	7	23	-	-	-	-	-	-	-	-	-	84.00	276.00	360	
	23-Dec	23-Jan	31	8	470	-	-	-	-	-	-	-	-	-	8	23	-	-	-	-	-	-	-	-	-	121.29	-	121	
					4,440	31	29	31	30	31	31	30	31	31	30	31	407	431	379	382	576	782	842	669	553	384	360	397	6,163

Cust #95563 Loc #69604 Harvey Rd.	Beg Date	End Date	Days		CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	
	28-Dec	28-Jan	31	28	1,331	28	-	-	-	-	-	-	-	-	-	-	-	1,202.19	-	-	-	-	-	-	-	-	0	0	1,202	
	28-Jan	26-Feb	29	29	1,121	3	26	-	-	-	-	-	-	-	-	-	-	115.97	1,005.03	-	-	-	-	-	-	-	0	0	1,121	
	26-Feb	28-Mar	31	31	1,230	-	3	28	-	-	-	-	-	-	-	-	-	-	119.03	1,110.97	-	-	-	-	-	-	0	0	1,230	
	28-Mar	28-Apr	31	31	1,433	-	-	3	28	-	-	-	-	-	-	-	-	-	-	138.68	1,294.32	-	-	-	-	-	0	0	1,433	
	28-Apr	27-May	29	29	2,337	-	-	-	2	27	-	-	-	-	-	-	-	-	-	-	161.17	2,175.83	-	-	-	-	0	0	2,337	
	27-May	28-Jun	32	32	4,464	0	-	-	-	4	28	-	-	-	-	-	-	-	-	-	-	558.00	3,906.00	-	-	-	0	0	4,464	
	28-Jun	27-Jul	29	29	4,148	-	0	-	-	-	2	27	-	-	-	-	-	-	-	-	-	286.07	3,861.93	-	-	-	0	0	4,148	
	27-Jul	26-Aug	30	30	3,451	0	0	0	-	-	0	4	26	-	-	-	-	-	-	-	-	-	-	460.13	2,990.87	-	0	0	3,451	
	26-Aug	23-Sep	28	28	2,840	-	-	-	0	0	0	-	5	23	-	0	0	-	-	-	-	-	-	-	507.14	2,332.86	-	0	0	2,840
	23-Sep	24-Oct	31	31	1,436	0	-	-	-	-	0	-	-	7	24	7	23	-	-	-	-	-	-	-	324.26	1,111.74	0	0	1,436	
	24-Oct	23-Nov	30	30	1,128	-	-	-	-	-	-	-	-	-	-	23	-	-	-	-	-	-	-	-	-	263.20	864.80	-	1,128	
	23-Nov	23-Dec	30	30	1,328	-	-	-	-	-	-	-	-	-	-	7	23	-	-	-	-	-	-	-	-	-	309.87	1,018.13	1,328	
	23-Dec	23-Jan	31	8	1,761	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	454.45	454	
					28,008	31	29	31	30	31	30	31	31	30	31	30	31	1,318	1,124	1,250	1,455	2,734	4,192	4,322	3,498	2,657	1,375	1,175	1,473	26,573

Cust #95615 Loc #69656 Mammoth Rd.	Beg Date	End Date	Days	CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	
	28-Dec	28-Jan	31	28	12,700	28	-	-	-	-	-	-	-	-	-	-	11,470.97	-	-	-	-	-	-	-	-	-	0	0	11,471
	28-Jan	26-Feb	29	29	11,700	3	26	-	-	-	-	-	-	-	-	-	1,210.34	10,489.66	-	-	-	-	-	-	-	-	0	0	11,700
	26-Feb	28-Mar	31	31	12,200	-	3	28	-	-	-	-	-	-	-	-	-	1,180.65	11,019.35	-	-	-	-	-	-	-	0	0	12,200
	28-Mar	28-Apr	31	31	12,500	-	-	3	28	-	-	-	-	-	-	-	-	-	1,209.68	11,290.32	-	-	-	-	-	-	0	0	12,500
	28-Apr	27-May	29	29	15,100	-	-	-	27	-	-	-	-	-	-	-	-	-	-	14,058.62	-	-	-	-	-	0	0	15,100	
	27-May	28-Jun	32	32	25,000	0	-	2	4	28	-	-	-	-	-	-	-	-	-	3,125.00	21,875.00	-	-	-	-	0	0	25,000	
	28-Jun	27-Jul	29	29	25,200	0	0	-	-	2	27	-	-	-	-	-	-	-	-	-	1,737.93	23,462.07	-	-	-	-	0	0	25,200
	27-Jul	26-Aug	30	30	24,400	-	0	0	-	4	5	23	0	0	0	-	-	-	-	-	-	3,253.33	21,146.67	-	-	0	0	24,400	
	26-Aug	23-Sep	28	28	20,800	-	-	0	0	-	-	5	-	-	-	-	-	-	-	-	-	-	3,714.29	17,085.71	-	-	0	0	20,800
	23-Sep	24-Oct	31	31	14,300	-	-	-	-	-	-	-	7	24	7	-	-	-	-	-	-	-	-	3,229.03	11,070.97	-	-	14,300	
	24-Oct	23-Nov	30	30	12,800	0	-	-	-	-	-	-	-	-	23	-	-	-	-	-	-	-	-	2,986.67	9,813.33	-	-	12,800	
	23-Nov	23-Dec	30	30	13,300	0	-	-	-	-	-	-	-	-	7	23	-	-	-	-	-	-	-	-	10,196.67	-	-	13,300	
	23-Dec	23-Jan	31	8	16,400	0	-	-	-	0	-	-	-	-	8	-	-	-	-	-	-	-	-	-	4,232.26	-	-	4,232	
					216,400	31	29	31	30	31	30	31	30	31	30	31	12,681	11,670	12,229	12,332	17,184	23,613	26,715	24,861	20,315	14,058	12,917	14,429	203,003

	28-Apr	27-May	29	29	1,096	-			2	27	-					75.59	1,020.41	-	-	-	-	0	0	1,096						
	27-May	28-Jun	32	32	1,726						28					-	215.75	1,510.25	-	-	-	0	0	1,726						
	28-Jun	27-Jul	29	29	1,591	0	0			4	28					-	-	-	-	-	-	0	0	1,591						
	27-Jul	26-Aug	30	30	1,572		0	0			2	27				-	-	109.72	1,481.28	-	-	0	0	1,572						
	26-Aug	23-Sep	28	28	1,324			0	0	0		4	26			-	-	-	209.60	1,362.40	1,087.57	0	0	1,324						
	23-Sep	24-Oct	31	31	779							7	23	0	0	0	-	-	-	236.43	175.90	603.10	0	779						
	24-Oct	23-Nov	30	30	873	0					0			7	23		-	-	-	-	-	204	669	-	873					
	23-Nov	23-Dec	30	30	353	0					0				7	23	-	-	-	-	-	-	82	271	353					
	23-Dec	23-Jan	31	8	772	0					0					8	-	-	-	-	-	-	-	-	199	772				
					12,444	31	29	31	30	31	30	31	31	30	31	574	629	591	684	1,236	1,620	1,691	1,599	1,263	807	752	470	11,816		
Cust #143619	Beg Date	End Date	Days		CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	
Pine Ave.	28-Dec	27-Jan	30	27	147	27	-	-	-	-	-	-	-	-	-	-	-	132.30		-	-	-	-	-	-	-	0	0	132	
Meter Pit	27-Jan	26-Feb	30	30	134	4	26											17.87	116.13		-	-	-	-	-	0	0	134		
	26-Feb	28-Mar	31	31	136	-	3	28										-	13.16	122.84		-	-	-	-	0	0	136		
	28-Mar	28-Apr	31	31	136	-		3	28									-	13.16	136		-	-	-	-	0	0	136		
	28-Apr	27-May	29	29	143	-			2	27								-	-	133.14	9.86	-	-	-	-	0	0	143		
	27-May	28-Jun	30	32	188	0				4	28							-	-	-	25.07	175.47	-	-	-	0	0	201		
	28-Jun	27-Jul	29	29	193	0	0				2	27						-	-	-	-	13.31	179.69	-	-	0	0	193		
	27-Jul	26-Aug	30	30	303		0	0				4	26		0	0	0	-	-	-	-	-	40.40	262.60	-	0	0	303		
	26-Aug	23-Sep	28	28	14			0	0				5	23				-	-	-	-	-	-	2.50	11.50	0	0	14		
	23-Sep	24-Oct	31	31	154							7		24				-	-	-	-	-	-	-	34.77	119	-	154		
	24-Oct	23-Nov	30	30	138	0					0			7		23		-	-	-	-	-	-	-	-	32	106	-	138	
	23-Nov	23-Dec	30	30	135	0									7	23		-	-	-	-	-	-	-	-	-	32	104	135	
	23-Dec	23-Jan	31	8	170	0					0					8		-	-	-	-	-	-	-	-	-	-	44	44	
					1,991	31	29	31	30	31	30	31	31	30	31	30	31	150	129	136	133	158	189	220	265	46	151	137	147	1,863
Cust #95683	Beg Date	End Date	Days		CCF	Days June	Days July	Days August	Days Sept	Days Sept	Days June	Days July	Days August	Days Sept	Days Sept	Days Sept	Days Sept	Usage June	Usage July	Usage August	Usage Sept	Usage Sept	Usage June	Usage July	Usage August	Usage Sept	Usage Sept	Usage Sept	Usage Sept	
Patten and County Rd.	28-Dec	28-Jan	31	28	720	28	-	-	-	-	-	-	-	-	-	-	-	650.32		-	-	-	-	-	-	-	0	0	650	
	28-Jan	26-Feb	29	29	790	3	26											81.72	708.28		-	-	-	-	-	-	0	0	790	
	26-Feb	29-Mar	32	32	900	-	3	29										-	84.38	815.63		-	-	-	-	-	0	0	900	
	29-Mar	28-Apr	30	30	1,130	-		2	28									-	-	75.33	1,054.67	-	-	-	-	-	0	0	1,130	
	28-Apr	27-May	29	29	1,850	-			2	27								-	-	-	127.59	1,722.41	-	-	-	-	0	0	1,850	
	27-May	28-Jun	30	32	3,620	0				4	28							-	-	-	-	482.67	3,378.67	-	-	-	0	0	3,861	
	28-Jun	27-Jul	29	29	3,440	0	0				2	27						-	-	-	-	-	237.24	3,202.76	-	-	0	0	3,440	
	27-Jul	26-Aug	30	30	2,900		0	0				4	26					-	-	-	-	-	-	386.67	2,513.33	-	0	0	2,900	
	26-Aug	23-Sep	28	28	2,700			0	0				5	23	0	0	0	-	-	-	-	-	-	-	482.14	2,217.86	-	0	2,700	
	23-Sep	24-Oct	31	31	1,360									7	24			-	-	-	-	-	-	-	-	307.10	1,053	-	1,360	
	24-Oct	23-Nov	30	30	820	0									7		23	-	-	-	-	-	-	-	-	191	629	-	820	
	23-Nov	23-Dec	30	30	900	0										7	23	-	-	-	-	-	-	-	-	-	210	690	900	
	23-Dec	23-Jan	31	8	860	0											8	-	-	-	-	-	-	-	-	-	-	222	860	
					21,990	31	29	31	30	31	30	31	31	30	31	30	31	732	793	891	1,182	2,205	3,616	3,589	2,995	2,525	1,244	839	912	21,524
Cust #107225	Beg Date	End Date	Days		CCF	Days June	Days July	Days August	Days Sept	Days Sept	Days June	Days July	Days August	Days Sept	Days Sept	Days Sept	Days Sept	Usage June	Usage July	Usage August	Usage Sept	Usage Sept	Usage June	Usage July	Usage August	Usage Sept	Usage Sept	Usage Sept	Usage Sept	
Loc #69736	28-Dec	28-Jan	31	28	3,600	28	-	-	-	-	-	-	-	-	-	-	-	3,251.61		-	-	-	-	-	-	-	0	0	3,252	
Donald Street	28-Jan	26-Feb	29	29	3,100	3	26											320.69	2,779.31		-	-	-	-	-	-	0	0	3,100	
	26-Feb	29-Mar	32	32	3,600	-	3	29										-	337.50	3,262.50		-	-	-	-	-	0	0	3,600	
	29-Mar	28-Apr	30	30	3,800	-		2	28									-	-	253.33	3,546.67	-	-	-	-	-	0	0	3,800	
	28-Apr	27-May	29	29	9,600	-			2	27								-	-	-	662.07	8,937.93	-	-	-	-	0	0	9,600	
	27-May	28-Jun	32	32	20,500	0				4	28							-	-	-	-	2,562.50	17,937.50	-	-	-	0	0	17,938	
	28-Jun	27-Jul	29	29	19,100	0	0				2	27						-	-	-	-	-	1,317.24	17,782.76	-	-	0	0	19,100	
	27-Jul	26-Aug	30	30	16,200		0	0				4	26		0	0	0	-	-	-	-	-	-	2,160.00	14,040.00	-	0	0	16,200	
	26-Aug	23-Sep	28	28	13,600			0	0				5	23				-	-	-	-	-	-	-	2,428.57	11,171.43	-	0	13,600	
	23-Sep	24-Oct	31	31	6,700									7	24			-	-	-	-	-	-	-	-	1,512.90	5,187	-	6,700	
	24-Oct	23-Nov	30	30	3,500	0					0				7		23	-	-	-	-	-	-	-	-	-	817	2,683	-	3,500
	23-Nov	23-Dec	30	30	3,600	0										7	23	-	-	-	-	-	-	-	-	-	-	840	-	3,600
	23-Dec	23-Jan	31	8	4,400	0											8	-	-	-	-	-	-	-	-	-	-	-	1,135	4,400
					111,300	31	29	31	30	31	30	31	31	30	31	30	31	3,572	3,117	3,516	4,209	11,500	19,255	19,943	16,469	12,684	6,004	3,523	3,895	105,125
						217	203	217	210	217	210	217	217	210	217	210	217													
						31	29	31	30	31	30	31	31	30	31	30	31													

Consumption (Gal.):	# days in billing cycle	Consumption current period	Consumption prior period	Two (2) month Average Daily flow
Month:				
January	31	14,688,108	-	473,810
February	28	12,947,818	14,688,108	466,711
March	31	15,376,375	12,947,818	478,376
April	30	16,682,598	15,376,375	525,557
May	31	30,653,923	16,682,598	776,009
June	30	31,426,377	30,653,923	1,017,710
July	31	32,254,027	31,426,377	1,043,941
August	31	37,590,027	32,254,027	1,150,000
September	30	31,926,580	37,590,334	1,139,622
October	31	19,956,462	31,926,580	850,542
November	30	13,801,613	19,956,462	553,411
December	31	14,735,738	13,801,613	467,825

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Manchester Water Works
Schedule of Pennichuck 60 day average daily consumption
2014

	Total	PEU Portion	PWW Portion
Average Daily Flow (Gal.) - Max. allowed	2,100,000		
Average Daily Flow (Gal.) - (2011)	1,221,306	718,602	502,704
Average Daily Flow (Gal.)	1,087,848	673,885	413,963
Increase in 2016 (Gal.)	-	-	-
Current MSDC rate per gallon -2016	\$ 3.37	\$ 3.37	\$ 3.37
MSDC additional charge	\$ -	\$ -	\$ -

Consumption (Gal.):	# days in billing cycle	Consumption current period	Consumption prior period	Two (2) month Average Daily flow
Month:				
2014 January	31	17,227,526	-	555,727
February	28	15,403,045	17,227,526	553,061
March	31	16,912,476	15,403,045	547,721
April	30	15,551,293	16,912,476	532,193
May	31	22,274,739	15,551,293	620,099
June	30	32,383,815	22,274,739	896,042
July	31	33,974,908	32,383,815	1,087,848
August	31	31,197,053	33,974,908	1,051,161
September	30	27,070,751	31,197,053	955,210
October	31	21,917,397	27,070,751	803,084
November	30	14,400,557	21,917,397	595,376
December	31	14,871,229	14,400,557	479,865

Pennichuck East Utility, Inc. (PEU)						Pennichuck Water Works, Inc. (PWW)				
Cust #95593 Loc #69634 Joanne Dr. Smythwoods	Cust #95563 Loc #69604 Harvey Rd.	Cust #95615 Loc #69656 Mammoth Rd.	Cust #95741 Loc #64798 Rockingham @ Coteville Rd	Cust #143619 Loc #207920 Pine Ave. Meter Pit	Cust #95683 Loc #69736 Patten and County Rd.	Cust #107225 Loc #200376 Donald Street	PEU CCF Total	PWW CCF Total	Gallons Total	
Month:										
January	31	470	1,410	15,200	1,186	910	18,383	4,648	17,227,526	
February	28	403	1,203	14,000	1,014	605	16,736	3,857	15,403,045	
March	31	449	1,461	15,407	1,114	793	18,202	4,408	16,912,476	
April	30	440	1,430	13,500	660	136	16,165	4,625	15,551,293	
May	31	525	2,150	16,700	958	136	20,468	9,311	22,274,739	
June	30	784	3,728	21,194	1,493	166	27,365	15,929	32,383,815	
July	31	730	3,652	21,800	1,246	163	27,591	17,830	33,974,908	
August	31	746	3,217	19,400	1,218	144	24,726	16,982	31,197,053	
September	30	537	2,630	17,840	1,107	141	22,254	13,936	27,070,751	
October	31	393	1,790	13,547	719	140	16,589	12,712	21,917,397	
November	30	382	1,634	11,807	777	148	14,748	4,504	14,400,557	
December	31	429	1,619	12,294	671	159	15,173	4,709	14,871,229	
365	6,287	25,923	192,687	11,821	1,682	15,711	238,400	113,451	263,184,789	
proof	6,287	25,923	193,668	11,821	1,682	15,711				

Londonberry Tank		Wellington Tank		Low Service Tanks						
Cust #95563 Loc #69604	Cust #95615 Loc #69656	Cust #95741 Loc #64798 Rockingham @ Coteville Rd	Cust #95593 Joanne Dr. Smythwoods	Cust #143619 Loc #207920 Pine Ave. Meter Pit	Cust #95683 Loc #69736 Patten and County Rd.	Cust #107225 Loc #200376 Donald Street	Londonberry Tank CCF Total	Wellington Tank CCF Total	Low Service Tank CCF Total	
Month:										
January	1,410	15,200	1,186	470	910	3,739	17,796	470	4,766	
February	1,203	14,000	1,014	403	605	3,252	16,217	403	3,972	
March	1,461	15,407	1,114	449	793	3,615	17,640	449	4,522	
April	1,430	13,500	660	440	136	3,593	15,589	440	4,761	
May	2,150	16,700	958	525	136	8,001	19,807	525	9,447	
June	3,728	21,194	1,493	784	166	2,090	33,839	784	16,095	
July	3,652	21,800	1,246	730	163	2,330	36,898	730	17,993	
August	3,217	19,400	1,218	746	144	1,975	23,835	746	17,126	
September	2,630	17,840	1,107	537	141	1,851	21,577	537	14,077	
October	1,790	13,547	719	393	140	1,107	16,056	393	12,852	
November	1,634	11,807	777	382	148	805	14,217	382	4,652	
December	1,619	12,294	671	429	159	902	14,584	429	4,868	
	25,923	192,687	11,821	6,287	1,682	15,711	230,432	6,287	115,133	
proof	-	-	-	-	-	-				

Cust #95593 Loc #69634 Joanne Dr. Smythwoods	Beg Date	End Date	Days	365	31	28	31	30	31	30	31	31	30	31	30	31	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	
	2-Dec	2-Jan	31	2	460	2	29	29	440	29	28	4	2	28	2	1	29.68	-	-	-	-	-	-	-	-	-	-	30	
	2-Jan	31-Jan	29	29	440	29	-	-	-	-	-	-	-	-	-	-	440.00	-	-	-	-	-	-	-	-	-	0	440	
	31-Jan	4-Mar	32	32	460	-	28	4	-	-	-	-	-	-	-	-	-	402.50	57.50	-	-	-	-	-	-	0	0	460	
	4-Mar	2-Apr	29	29	420	-	-	27	2	-	-	-	-	-	-	-	-	-	391.03	28.97	-	-	-	-	-	0	0	420	
	2-Apr	2-May	30	30	440	-	-	-	28	2	-	-	-	-	-	-	-	-	-	410.67	29.33	-	-	-	-	0	0	440	
	2-May	30-May	28	28	470	-	-	-	-	28	-	-	-	-	-	-	-	-	-	-	470.00	-	-	-	-	0	0	470	
	30-May	30-Jun	31	31	810	0	-	1	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	810	
	30-Jun	31-Jul	31	31	730	0	0	-	0	31	-	-	-	-	-	-	-	-	-	26.13	783.87	-	730.00	-	-	0	0	730	
	31-Jul	29-Aug	29	29	710	0	0	0	0	0	29	-	-	-	-	-	-	-	-	-	-	-	-	710.00	-	-	710		
	29-Aug	29-Sep	31	31	560	0	0	0	0	0	2	29	0	0	0	0	-	-	-	-	-	-	-	36.13	523.87	-	-	560	
	29-Sep	29-Oct	30	30	380	0	-	-	0	0	-	1	29	-	-	-	-	-	-	-	-	-	-	12.67	367.33	-	-	380	
	29-Oct	28-Nov	30	30	380	0	-	-	0	0	-	-	2	28	-	-	-	-	-	-	-	-	-	-	25.33	354.67	-	380	
	28-Nov	29-Dec	31	31	430	0	-	-	0	0	-	-	2	29	-	-	-	-	-	-	-	-	-	-	-	402.26	430		
	29-Dec	29-Jan	31	2	420	0	-	-	0	0	-	-	0	2	-	-	-	-	-	-	-	-	-	-	-	27.10	27		
					7,110	31	28	31	30	31	31	30	31	30	31	470	403	449	440	525	784	730	746	537	393	382	429	6,287	

Cust #95563 Loc #69604 Harvey Rd.	Beg Date	End Date	Days	CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	
	2-Dec	2-Jan	31	2	1,334	29	-	-	-	-	-	-	-	-	-	-	-	86.06	-	-	-	-	-	-	-	-	-	86	
	2-Jan	31-Jan	29	29	1,324	-	-	-	-	-	-	-	-	-	-	-	1,324.00	-	-	-	-	-	-	-	-	0	0	1,324	
	31-Jan	3-Mar	31	31	1,332	-	28	3	-	-	-	-	-	-	-	-	-	1,203.10	128.90	-	-	-	-	-	0	0	1,332		
	3-Mar	2-Apr	30	30	1,427	-	-	28	2	-	-	-	-	-	-	-	-	-	1,331.87	95.13	-	-	-	-	0	0	1,427		
	2-Apr	2-May	30	30	1,430	-	-	-	28	2	-	-	-	-	-	-	-	-	-	1,334.67	95.33	-	-	-	0	0	1,430		
	2-May	30-May	28	28	1,930	-	-	-	28	-	-	-	-	-	-	-	-	-	-	-	1,930.00	-	-	-	0	0	1,930		
	30-May	30-Jun	31	31	3,652	0	0	0	1	30	-	-	-	-	-	-	-	-	-	-	124.26	3,727.74	-	-	-	0	0	3,652	
	30-Jun	31-Jul	31	31	3,652	0	0	0	0	0	31	-	-	-	-	-	-	-	-	-	-	-	3,652.00	-	-	0	0	3,652	
	31-Jul	29-Aug	29	29	3,040	0	0	0	0	0	0	29	-	-	-	-	-	-	-	-	-	-	-	3,040.00	-	-	3,040		
	29-Aug	29-Sep	31	31	2,749	0	0	0	0	0	0	2	29	0	0	0	-	-	-	-	-	-	-	177.35	2,571.65	-	-	2,749	
	29-Sep	29-Oct	30	30	1,739	0	-	-	-	0	0	-	1	29	-	-	-	-	-	-	-	-	-	-	57.97	1,681.03	-	1,739	
	29-Oct	28-Nov	30	30	1,637	0	-	-	-	0	0	-	-	2	28	-	-	-	-	-	-	-	-	-	-	1,527.87	-	1,637	
	28-Nov	29-Dec	31	31	1,639	0	-	-	-	0	0	-	-	2	29	-	-	-	-	-	-	-	-	-	-	105.74	1,533.26	1,639	
	29-Dec	29-Jan	31	2	1,333	0	-	-	-	0	0	-	-	0	2	-	-	-	-	-	-	-	-	-	-	-	86.00	86	
					28,418	31	28	31	30	31	31	31	30	31	30	31	1,410	1,203	1,461	1,430	2,150	3,728	3,652	3,217	2,630	1,790	1,634	1,619	25,923

Cust #95615 Loc #69656 Mammoth Rd.	Beg Date	End Date	Days	CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	
	2-Dec	2-Jan	31	2	15,200	2											980.65	-	-	-	-	-	-	-	-	-	-	981	
	2-Jan	31-Jan	29	29	15,200	29	-	-	-	-	-	-	-	-	-	-	15,200.00	-	-	-	-	-	-	-	-	-	0	0	
	31-Jan	3-Mar	31	31	15,500	-	28	3		-								14,000.00	1,500.00				-	-	-	0	0		
	3-Mar	2-Apr	30	30	14,900	-	-	28	2									-	13,906.67	993.33		-	-	-	-	0	0		
	2-Apr	2-May	30	30	13,400			-	28									-		12,506.67	893.33		-	-	-	0	0		
	2-May	30-May	28	28	15,100				28									-	-		15,100.00		-	-	-	0	0		
	30-May	30-Jun	31	31	21,900	0			1	30								-	-		706.45	21,193.55	-	-	-	0	0		
	30-Jun	31-Jul	31	31	21,800	0	0			0	31							-	-	-			21,800.00	-	-	0	0		
	31-Jul	29-Aug	29	29	18,200	0	0			0	0	29						-	-	-	-		18,200.00	-	-	-	18,200		
	29-Aug	29-Sep	31	31	18,600	0		0		0	0	2	29	0	0	0		-	-	-	-		1,200.00	17,400.00	-	-	18,600		
	29-Sep	29-Oct	30	30	13,200	0				0			1	29				-	-	-	-		-	440.00	12,760.00	-	-	13,200	
	29-Oct	28-Nov	30	30	11,800	0				0				2	28			-	-	-	-		-	-	786.67	11,013.33	-	11,800	
	28-Nov	29-Dec	31	31	12,300	0				0					2	29		-	-	-	-		-	-	-	-	11,506.45	12,300	
	29-Dec	29-Jan	31	2	12,200	0				0					0	2		-	-	-	-		-	-	-	-	787.10	787	
					219,300	31	28	31	30	31	30	31	30	31	30	31	15,200	14,000	15,407	13,500	16,700	21,194	21,800	19,400	17,840	13,547	11,807	12,294	193,668

Rockingham @ Coteville Rd	2-Jan	31-Jan	29	29	1,112	29	-	-	-	-	-	-	-	-	-	-	1,112.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	1,112	
	31-Jan	3-Mar	31	31	1,123	-	28	3	-	-	-	-	-	-	-	-	-	1,014.32	108.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	1,123	
	3-Mar	2-Apr	30	30	711	-	-	28	2	-	-	-	-	-	-	-	-	-	663.60	47.40	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	711	
	2-Apr	2-May	30	30	656	-	-	-	28	2	-	-	-	-	-	-	-	-	-	612.27	43.73	-	-	-	-	-	-	-	-	-	-	-	-	0	0	656	
	2-May	30-May	28	28	864	-	-	-	-	28	-	-	-	-	-	-	-	-	-	-	864.00	-	-	-	-	-	-	-	-	-	-	-	-	0	0	864	
	30-May	30-Jun	31	31	1,543	0	-	-	-	1	30	-	-	-	-	-	-	-	-	-	49.77	1,493.23	-	-	-	-	-	-	-	-	-	-	-	0	0	1,543	
	30-Jun	31-Jul	31	31	1,246	0	0	-	-	-	0	31	-	-	-	-	-	-	-	-	-	-	1,246.00	-	-	-	-	-	-	-	-	-	-	0	0	1,246	
	31-Jul	29-Aug	29	29	1,143	0	0	0	-	-	0	0	29	-	-	-	-	-	-	-	-	-	-	1,143.00	-	-	-	-	-	-	-	-	-	-	0	0	1,143
	29-Aug	29-Sep	31	31	1,159	0	-	0	0	0	0	0	2	29	0	0	0	-	-	-	-	-	-	-	74.77	1,084.23	-	-	-	-	-	-	-	-	1,159		
	29-Sep	29-Oct	30	30	690	0	-	-	-	-	0	0	-	-	1	29	-	-	-	-	-	-	-	-	-	-	23.00	667.00	-	-	-	-	-	-	690		
	29-Oct	28-Nov	30	30	787	0	-	-	-	-	0	0	-	-	-	2	28	-	-	-	-	-	-	-	-	-	-	-	52.47	734.53	-	-	-	-	787		
	28-Nov	29-Dec	31	31	656	0	-	-	-	-	0	0	-	-	-	2	0	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	613.68	656			
	29-Dec	29-Jan	31	2	890	0	-	-	-	-	0	0	-	-	-	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57.42	890			
					13,727	31	28	31	30	31	30	31	31	30	31	1,186	1,014	772	660	958	1,493	1,246	1,218	1,107	719	777	671	11,821									

Cust #143619 Loc #207920 Pine Ave. Meter Pit	Beg Date	End Date	Days	CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec		
	2-Dec	2-Jan	31	2	129	2											8.32											8		
	2-Jan	31-Jan	29	29	109	29	-	-	-	-	-	-	-	-	-	-	109.00										0	0		
	31-Jan	3-Mar	31	31	128	-	28	3										115.61		12.39							0	0		
	3-Mar	2-Apr	30	30	109	-	-	28	2										101.73		7.27						0	0		
	2-Apr	2-May	30	30	138	-	-	-	28	2																	0	0		
	2-May	30-May	28	28	121				-	28											128.80	9.20					0	0		
	30-May	30-Jun	31	31	172	0				1	30											121.00					0	0		
	30-Jun	31-Jul	31	31	163	0	0				0	31											5.55	166.45			172	0		
	31-Jul	29-Aug	29	29	135	0	0	0				0	29										163.00			0	0	163		
	29-Aug	29-Sep	31	31	146	0	0	0	0	0	0	0	2	29	0	0	0							135.00			-	135		
	29-Sep	29-Oct	30	30	135	0									29									9.42	136.58			146		
	29-Oct	28-Nov	30	30	148	0							1		2	28									4.50	130.50			135	
	28-Nov	29-Dec	31	31	160	0										2	29									9.87	138.13			148
	29-Dec	29-Jan	31	2	150	0					0					0	2										10.32	149.68	10	
					1,943	31	28	31	30	31	30	31	30	31	30	31	117	116	114	136	136	166	163	144	141	140	148	159	1,682	

Cust #95683 Loc #69736 Patten and County Rd.	Beg Date	End Date	Days	CCF	Days June	Days July	Days August	Days Sept	Days Sept	Days June	Days July	Days August	Days Sept	Days Sept	Days Sept	Days Sept	Usage June	Usage July	Usage August	Usage Sept	Usage Sept	Usage June	Usage July	Usage August	Usage Sept	Usage Sept	Usage Sept	Usage Sept					
	2-Dec	2-Jan	31	2	770	2	-	-	-	-	-	-	-	-	-	-	49.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50
	2-Jan	31-Jan	29	29	860	29	-	-	-	-	-	-	-	-	-	-	860.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	860
	31-Jan	3-Mar	31	31	670	-	28	3	-	-	-	-	-	-	-	-	-	605.16	64.84	-	-	-	-	-	-	-	-	-	-	-	-	-	670
	3-Mar	2-Apr	30	30	780	-	-	28	2	-	-	-	-	-	-	-	-	-	728.00	52.00	-	-	-	-	-	-	-	-	-	-	-	-	780
	2-Apr	2-May	30	30	1,050	-	-	-	28	2	-	-	-	-	-	-	-	-	-	980.00	70.00	-	-	-	-	-	-	-	-	-	-	-	1,050
	2-May	30-May	28	28	1,170	-	-	-	28	-	-	-	-	-	-	-	-	-	-	-	1,170.00	-	-	-	-	-	-	-	-	-	-	-	1,170
	30-May	30-Jun	31	31	2,160	0	-	-	1	30	-	-	-	-	-	-	-	-	-	-	69.68	2,090.32	-	-	-	-	-	-	-	-	-	-	2,160
	30-Jun	31-Jul	31	31	2,330	0	0	-	-	0	31	-	-	-	-	-	-	-	-	-	-	-	2,330.00	-	-	-	-	-	-	-	-	-	2,330
	31-Jul	29-Aug	29	29	1,850	0	0	0	-	0	0	29	29	0	0	0	-	-	-	-	-	-	-	1,850.00	-	-	-	-	-	-	-	-	1,850
	29-Aug	29-Sep	31	31	1,940	0	0	0	0	0	0	2	29	1	0	0	-	-	-	-	-	-	-	125.16	1,814.84	-	-	-	-	-	-	-	1,940
	29-Sep	29-Oct	30	30	1,090	0	-	-	-	0	0	-	-	29	-	-	-	-	-	-	-	-	-	-	36.33	1,053.67	-	-	-	-	-	-	1,090
	29-Oct	28-Nov	30	30	800	0	-	-	-	0	0	-	-	2	28	-	-	-	-	-	-	-	-	-	-	53.33	746.67	-	-	-	-	-	800
	28-Nov	29-Dec	31	31	910	0	-	-	-	0	0	-	-	2	0	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	851.29	910
	29-Dec	29-Jan	31	2	790	0	-	-	-	0	0	-	-	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50.97	790
					17,170	31	28	31	30	31	30	31	31	30	31	910	605	793	1,032	1,310	2,090	2,330	1,975	1,851	1,107	805	902	15,711					

Cust #107225 Loc #200376 Donald Street	Beg Date	End Date	Days	CCF	Days June	Days July	Days August	Days Sept	Days Sept	Days June	Days July	Days August	Days Sept	Days Sept	Days Sept	Days Sept	Usage June	Usage July	Usage August	Usage Sept	Usage Sept	Usage June	Usage July	Usage August	Usage Sept	Usage Sept	Usage Sept	Usage Sept	Usage Sept	
	2-Dec	2-Jan	31	2	3,700		2										238.71	-	-	-	-	-	-	-	-	-	-	-	239	
	2-Jan	31-Jan	29	29	3,500	29	-	-	-	-	-	-	-	-	-	-	3,500.00	-	-	-	-	-	-	-	-	-	0	0	3,500	
	31-Jan	3-Mar	31	31	3,600	-	28	3	-	-	-	-	-	-	-	-	-	3,251.61	348.39	-	-	-	-	-	-	-	0	0	3,600	
	3-Mar	2-Apr	30	30	3,500	-	-	28	2	-	-	-	-	-	-	-	-	-	3,266.67	233.33	-	-	-	-	-	-	0	0	3,500	
	2-Apr	2-May	30	30	3,600	-	-	-	28	2	-	-	-	-	-	-	-	-	-	3,360.00	240.00	-	-	-	-	-	0	0	3,600	
	2-May	30-May	28	28	7,300	-	-	-	28	-	-	-	-	-	-	-	-	-	-	-	7,300.00	-	-	-	-	-	0	0	7,300	
	30-May	30-Jun	31	31	14,300	0	-	-	1	30	-	-	-	-	-	-	-	-	-	-	461.29	13,838.71	-	-	-	-	0	0	14,300	
	30-Jun	31-Jul	31	31	15,500	0	0	-	-	0	31	-	-	-	-	-	-	-	-	-	-	-	15,500.00	-	-	-	0	0	15,500	
	31-Jul	29-Aug	29	29	14,200	0	0	-	-	0	0	29	-	-	-	-	-	-	-	-	-	-	-	-	14,200.00	-	0	14,200		
	29-Aug	29-Sep	31	31	12,500	0	0	0	0	0	0	2	29	0	0	0	-	-	-	-	-	-	-	-	-	806.45	-	-	12,500	
	29-Sep	29-Oct	30	30	11,750	0	-	-	-	0	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	391.67	11,358.33	-	11,750	
	29-Oct	28-Nov	30	30	3,700	0	-	-	-	0	-	-	-	2	28	-	-	-	-	-	-	-	-	-	-	-	246.67	3,453.33	3,700	
	28-Nov	29-Dec	31	31	3,800	0	-	-	-	0	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	245.16	3,800	
	29-Dec	29-Jan	31	2	3,900	0	-	-	-	0	-	-	-	-	0	2	-	-	-	-	-	-	-	-	-	-	-	-	251.61	252
					104,850	31	28	31	30	31	30	31	30	31	30	31	3,739	3,252	3,615	3,593	8,001	13,839	15,500	15,006	12,085	11,605	3,698	3,806	97,740	

Manchester Water Works
Schedule of Pennichuck 60 day average daily consumption
2013

	Total	PEU Portion	PWW Portion
Average Daily Flow (Gal.) - Max. allowed	2,100,000		
Average Daily Flow (Gal.) - (2011)	1,221,306	718,602	502,704
Average Daily Flow (Gal.)	1,068,220	663,496	404,724
Increase in 2016 (Gal.)	-	-	-
Current MSDC rate per gallon -2016	\$ 3.37	\$ 3.37	\$ 3.37
MSDC additional charge	\$ -	\$ -	\$ -

Consumption (Gal.):	# days in billing cycle	Consumption current period	Consumption prior period	Two (2) month Average Daily flow
Month:				
2013 January	31	17,581,114	-	567,133
February	28	18,262,647	17,581,114	607,521
March	31	23,518,691	18,262,647	708,158
April	30	26,265,767	23,518,691	816,139
May	31	16,958,369	26,265,767	708,592
June	30	24,558,524	16,958,369	680,605
July	31	32,313,112	24,558,524	932,322
August	31	33,916,534	32,313,112	1,068,220
September	30	28,190,896	33,916,534	1,018,155
October	31	21,262,795	28,190,896	810,716
November	30	16,506,917	21,262,795	619,176
December	31	18,660,573	16,506,917	576,516

Pennichuck East Utility, Inc. (PEU)						Pennichuck Water Works, Inc. (PWW)				
Cust #95593 Loc #69634 Joanne Dr. Smythwoods	Cust #95563 Loc #69604 Harvey Rd.	Cust #95615 Loc #69656 Mammoth Rd.	Cust #95741 Loc #64798 Rockingham @ Coteville Rd.	Cust #143619 Loc #207920 Pine Ave. Meter Pit	Cust #95683 Loc #69736 Patten and County Rd.	Cust #107225 Loc #200376 Donald Street	PEU CCF Total	PWW CCF Total	Gallons Total	
Month:										
January	31	468	2,780	15,125	517	102	18,991	4,513	17,581,114	January
February	28	413	5,965	13,548	469	93	20,488	3,927	18,262,647	February
March	31	463	10,425	15,317	563	105	26,873	4,569	23,518,691	March
April	30	527	11,547	15,951	734	110	28,868	6,247	26,265,767	April
May	31	642	(12,523)	19,982	1,176	131	9,408	13,264	16,958,369	May
June	30	598	(1,610)	19,600	1,042	123	21,299	13,080	24,558,524	June
July	31	666	3,753	21,643	1,035	135	27,232	15,967	32,313,112	July
August	31	651	3,422	22,341	1,217	133	27,764	17,579	33,916,534	August
September	30	495	2,249	20,616	1,142	137	24,638	13,050	28,190,896	September
October	31	444	1,689	17,498	984	131	20,746	14,507	21,262,795	October
November	30	407	1,394	14,303	892	128	17,124	4,944	16,506,917	November
December	31	457	3,554	15,168	1,132	129	20,441	4,507	18,660,573	December
proof	365	6,229	32,645	211,093	10,903	1,455	262,325	109,328	277,995,939	

Londonderry Tank		Wellington Tank		Low Service Tanks						
Cust #95563 Loc #69604	Cust #95615 Loc #69656	Cust #95741 Loc #64798 Rockingham @ Coteville Rd	Cust #95593 Loc #69634 Joanne Dr. Smythwoods	Cust #143619 Loc #207920 Pine Ave. Meter Pit	Cust #95683 Loc #69736 Patten and County Rd.	Cust #107225 Loc #200376 Donald Street	Londonderry Tank CCF Total	Wellington Tank CCF Total	Low Service Tank CCF Total	
Month:										
January	31	468	2,780	15,125	517	102	18,422	468	4,614	January
February	28	413	5,965	13,548	469	93	19,983	413	4,020	February
March	31	463	10,425	15,317	563	105	26,305	463	4,674	March
April	30	527	11,547	15,951	734	110	28,232	527	6,356	April
May	31	642	(12,523)	19,982	1,176	131	8,636	642	13,394	May
June	30	598	(1,610)	19,600	1,042	123	10,953	598	13,202	June
July	31	666	3,753	21,643	1,035	135	26,431	666	16,103	July
August	31	651	3,422	22,341	1,217	133	26,980	651	17,712	August
September	30	495	2,249	20,616	1,142	137	24,007	495	13,187	September
October	31	444	1,689	17,498	984	131	20,171	444	7,811	October
November	30	407	1,394	14,303	892	128	16,589	407	5,072	November
December	31	457	3,554	15,168	1,132	129	19,854	457	4,636	December
proof	365	6,229	32,645	211,093	10,903	1,455	254,641	6,229	110,783	

Cust #95593 Loc #69634 Joanne Dr. Smythwoods	Beg Date	End Date	Days	365	31	28	31	30	31	30	31	31	30	31	30	31	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	
	Date	Date		CCF	Jan	Feb	Mar	Apr	May	June	July	August	Sept	Oct	Nov	Dec													
	5-Dec	4-Jan	30	4	440	4											58.67	-	-	-	-	-	-	-	-	-	59		
	4-Jan	4-Feb	31	31	470	27	4	-	-	-	-	-	-	-	-	-	409.35	60.65	-	-	-	-	-	-	-	0	0	470	
	4-Feb	6-Mar	30	30	440	-	24	6	-	-	-	-	-	-	-	-	-	352.00	88.00	-	-	-	-	-	-	0	0	440	
	6-Mar	5-Apr	30	30	450	-	-	25	5	-	-	-	-	-	-	-	-	-	375.00	75.00	-	-	-	-	-	0	0	450	
	5-Apr	6-May	31	31	560	-	-	-	25	6	-	-	-	-	-	-	-	-	-	451.61	108.39	-	-	-	-	0	0	560	
	6-May	5-Jun	30	30	640	-	-	-	-	25	5	-	-	-	-	-	-	-	-	-	533.33	106.67	-	-	-	0	0	640	
	5-Jun	3-Jul	28	28	550	0			0	25	3	-	-	-	-	-	-	-	-	-	491.07	58.93	-	-	-	0	0	550	
	3-Jul	2-Aug	30	30	650	0	0			0	28	2	-	-	-	-	-	-	-	-	-	606.67	43.33	-	-	0	0	650	
	2-Aug	3-Sep	32	32	670		0	0			0	29	3	-	-	-	-	-	-	-	-	-	607.19	62.81	-	-	0	670	
	3-Sep	3-Oct	30	30	480	0		0			0	27	3	0	0	0	-	-	-	-	-	-	-	432.00	48.00	-	-	480	
	3-Oct	1-Nov	29	29	410	0					0	28	1	2	-	-	-	-	-	-	-	-	-	-	395.86	14.14	-	410	
	1-Nov	2-Dec	31	31	420	0					0	29	0	2	-	-	-	-	-	-	-	-	-	-	-	392.90	27.10	420	
	2-Dec	2-Jan	31	29	460	0					0	29	0	29	-	-	-	-	-	-	-	-	-	-	-	-	430.32	430	
	2-Jan	22-Jan	20	-	0	0					0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					6,640	31	28	31	30	31	30	31	31	30	31	31	468	413	463	527	642	598	666	651	495	444	407	457	6,229

Cust #95563 Loc #69604 Harvey Rd.	Beg Date	End Date	Days	CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	
	5-Dec	4-Jan	30	4	2,360	4											314.67											315	
	4-Jan	4-Feb	31	31	2,830	27	4	-	-	-	-	-	-	-	-	-	2,464.84	365.16								0	0	2,830	
	4-Feb	6-Mar	30	30	7,000	-	24	6										5,600.00	1,400.00							0	0	7,000	
	6-Mar	5-Apr	30	30	10,830		-	25	5										9,025.00	1,805.00						0	0	10,830	
	5-Apr	6-May	31	31	12,080	-		-	25	6									9,741.94	2,338.06						0	0	12,080	
	6-May	7-Jun	32	32	(19,022)	-		-	25	7										(14,860.94)	(4,161.06)					0	0	(19,022)	
	7-Jun	3-Jul	26	26	2,884	0			0	23	3										2,551.23					0	0	2,884	
	3-Jul	5-Aug	33	33	4,031		0			0	28	5										3,420.24		610.76		0	0	4,031	
	5-Aug	3-Sep	29	29	3,136	0	0	0		0	0	26	3										2,811.59		324.41		-	3,136	
	3-Sep	3-Oct	30	30	2,138	0		0	0	0	0	27	3	0	0	0								1,924.20	213.80		-	2,138	
	3-Oct	1-Nov	29	29	1,528					0	0	0	0	28	1	2								1,475.31		52.69	-	1,528	
	1-Nov	2-Dec	31	31	1,434	0				0	0	0	0	29	2	2									1,341.48		92.52	1,434	
	2-Dec	2-Jan	31	29	3,700	0				0	0	0	0	29	0	29											3,461.29	3,461	
	2-Jan	22-Jan	20	-	-	0				0					0	0											-	-	
					34,929	31	28	31	30	31	30	31	30	31	30	31	2,780	5,965	10,425	11,547	(12,523)	(1,610)	3,753	3,422	2,249	1,689	1,394	3,554	32,645

Cust #95615 Loc #69656 Mammoth Rd.	Beg Date	End Date	Days	CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec		
	5-Dec	4-Jan	30	4	14,800	4											1,973.33											1,973		
	4-Jan	4-Feb	31	31	15,100	27	4	-	-	-	-	-	-	-	-	-	13,151.61	1,948.39								0	0	15,100		
	4-Feb	6-Mar	30	30	14,500	-	24	6	-	-	-	-	-	-	-	-		11,600.00	2,900.00							0	0	14,500		
	6-Mar	5-Apr	30	30	14,900	-	-	25	5	-	-	-	-	-	-	-			12,416.67	2,483.33						0	0	14,900		
	5-Apr	6-May	31	31	16,700	-	-	-	25	6	-	-	-	-	-	-				13,467.74	3,232.26					0	0	16,700		
	6-May	5-Jun	30	30	20,100	0	-	0	25	5	-	-	-	-	-	-					16,750.00	3,350.00				0	0	20,100		
	5-Jun	3-Jul	28	28	18,200	0	-	-	0	5	-	-	-	-	-	-						16,250.00	1,950.00			0	0	18,200		
	3-Jul	2-Aug	30	30	21,100	0	0	0	0	25	3	-	-	-	-	-							19,693.33	1,406.67			0	0	21,100	
	2-Aug	3-Sep	32	32	23,100	0	0	0	0	0	0	2	3	0	0	0								20,934.38	2,165.63			23,100		
	3-Sep	3-Oct	30	30	20,500	0	0	0	0	0	0	0	27	3	0	0									18,450.00	2,050.00			20,500	
	3-Oct	1-Nov	29	29	16,000	0	0	0	0	0	0	0	0	28	1	0									15,448.28	551.72			16,000	
	1-Nov	2-Dec	31	31	14,700	0	0	0	0	0	0	0	0	0	29	2										13,751.61	948.39			14,700
	2-Dec	2-Jan	31	29	15,200	0	0	0	0	0	0	0	0	0	0	29											14,219.35			14,219
	2-Jan	22-Jan	20	-	-	0	0	0	0	0	0	0	0	0	0	0													-	
					224,900	31	28	31	30	31	30	31	30	31	30	31	15,125	13,548	15,317	15,951	19,982	19,600	21,643	22,341	20,616	17,498	14,303	15,168	211,093	

Rockingham @ Coteville Rd	4-Jan	4-Feb	31	31	516	27	4	-	-	-	-	-	-	-	-	-	449.42	66.58	-	-	-	-	-	-	-	-	0	0	516	
	4-Feb	6-Mar	30	30	503	-	24	6	-	-	-	-	-	-	-	-	-	402.40	-	100.60	-	-	-	-	-	-	0	0	503	
	6-Mar	5-Apr	30	30	555	-	-	25	5	-	-	-	-	-	-	-	-	-	462.50	92.50	-	-	-	-	-	-	0	0	555	
	5-Apr	6-May	31	31	795	-	-	-	25	6	-	-	-	-	-	-	-	-	-	-	641.13	153.87	-	-	-	-	0	0	795	
	6-May	5-Jun	30	30	1,227	-	-	-	-	25	5	-	-	-	-	-	-	-	-	-	-	1,022.50	204.50	-	-	-	-	0	0	1,227
	5-Jun	3-Jul	28	28	938	0	-	-	0	25	3	2	-	-	-	-	-	-	-	-	-	-	837.50	100.50	-	-	0	0	938	
	3-Jul	2-Aug	30	30	1,001	0	0	-	0	0	28	2	-	-	-	-	-	-	-	-	-	934.27	66.73	-	-	-	0	0	1,001	
	2-Aug	3-Sep	32	32	1,269	0	0	0	-	0	0	29	3	0	0	-	-	-	-	-	-	-	-	1,150.03	118.97	-	-	1,269		
	3-Sep	3-Oct	30	30	1,137	0	0	0	0	0	0	0	27	0	3	0	0	-	-	-	-	-	-	-	1,023.30	113.70	-	-	1,137	
	3-Oct	1-Nov	29	29	901	0	-	-	0	0	0	0	0	28	1	2	-	-	-	-	-	-	-	-	-	869.93	31.07	-	901	
	1-Nov	2-Dec	31	31	920	0	-	-	0	0	0	0	0	29	0	0	-	-	-	-	-	-	-	-	-	-	860.65	59.35	920	
	2-Dec	2-Jan	31	29	1,147	0	-	-	0	0	0	0	0	0	29	0	-	-	-	-	-	-	-	-	-	-	-	1,073.00	1,073	
	2-Jan	22-Jan	20	-	-	0	-	-	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					11,418	31	28	31	30	31	30	31	31	30	31	517	469	563	734	1,176	1,042	1,035	1,217	1,142	984	892	1,132	10,903		

Cust #143619 Loc #207920 Pine Ave. Meter Pit	Beg Date	End Date	Days		CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	
	5-Dec	4-Jan	30	4	109	4												14.53		-	-	-	-	-	-	-	-	-	15	
	4-Jan	4-Feb	31	31	100	27	4	-	-	-	-	-	-	-	-	-	-	87.10	12.90	-	-	-	-	-	-	-	0	0	100	
	4-Feb	6-Mar	30	30	100	-	24	6	-	-	-	-	-	-	-	-	-	-	80.00	20.00	-	-	-	-	-	-	0	0	100	
	6-Mar	5-Apr	30	30	102	-	-	25	5	-	-	-	-	-	-	-	-	-	-	85.00	17.00	-	-	-	-	-	0	0	102	
	5-Apr	6-May	31	31	115	-	-	-	25	6	-	-	-	-	-	-	-	-	-	-	92.74	22.26	-	-	-	-	0	0	115	
	6-May	5-Jun	30	30	130	-	-	-	-	25	5	-	-	-	-	-	-	-	-	-	-	108.33	21.67	-	-	-	0	0	130	
	5-Jun	3-Jul	28	28	113	0	-	-	-	0	25	3	2	-	-	-	-	-	-	-	-	-	100.89	12.11	-	-	0	0	113	
	3-Jul	2-Aug	30	30	132	0	0	-	-	-	0	28	2	-	-	-	-	-	-	-	-	-	-	123.20	8.80	-	-	0	0	132
	2-Aug	3-Sep	32	32	137	0	0	0	-	0	0	0	29	3	0	0	-	-	-	-	-	-	-	-	124.16	12.84	-	-	137	
	3-Sep	3-Oct	30	30	138	0	0	0	0	0	0	0	0	27	1	0	0	-	-	-	-	-	-	-	-	124.20	13.80	-	138	
	3-Oct	1-Nov	29	29	121	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	116.83	4.17	-	121	
	1-Nov	2-Dec	31	31	132	0	-	-	-	-	-	-	-	-	-	-	29	2	-	-	-	-	-	-	-	-	123.48	8.52	132	
	2-Dec	2-Jan	31	29	129	0	-	-	-	-	-	-	-	-	-	-	0	29	-	-	-	-	-	-	-	-	-	120.68	121	
	2-Jan	22-Jan	20	-	-	0	-	-	-	-	-	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	
					1,558	31	28	31	30	31	30	31	31	30	31	30	31	102	93	105	110	131	123	135	133	137	131	128	129	1,455

Cust #95683 Loc #69736 Patten and County Rd.	Beg Date	End Date	Days	CCF	Days June	Days July	Days August	Days Sept	Days Sept	Days June	Days July	Days August	Days Sept	Days Sept	Days Sept	Days Sept	Usage June	Usage July	Usage August	Usage Sept	Usage Sept	Usage June	Usage July	Usage August	Usage Sept	Usage Sept	Usage Sept	Usage Sept	Usage Sept
	5-Dec	4-Jan	30	4	1,120	4											149.33												149
	4-Jan	4-Feb	31	31	1,320	27	4	-	-	-	-	-	-	-	-	-	1,149.68	170.32									0	0	1,320
	4-Feb	6-Mar	30	30	1,180	-	24	6	-	-	-	-	-	-	-	-		944.00									0	0	1,180
	6-Mar	5-Apr	30	30	1,280	-	-	25	5	-	-	-	-	-	-	-			236.00								0	0	1,280
	5-Apr	6-May	31	31	1,620	-	-	-	25	6	-	-	-	-	-	-			1,066.67								0	0	1,620
	6-May	6-Jun	31	31	2,310	-	-	-	25	6	-	-	-	-	-	-											0	0	2,310
	3-Jul	2-Aug	27	27	1,890	0	-	-	-	0	24	3	2	-	-	-											0	0	1,890
	2-Aug	3-Jul	30	30	2,140	0	0	-	-	0	0	28	2	-	-	-											0	0	2,140
	2-Aug	3-Sep	32	32	2,540	0	0	0	-	0	0	29	3	0	0	0											0	0	2,540
	3-Sep	3-Oct	30	30	2,300	0	0	0	0	0	0	0	27	3	0	0											-	-	2,300
	3-Oct	1-Nov	29	29	1,550	0	-	-	-	0	0	0	28	1	2	2											1,496.55	-	1,550
	1-Nov	2-Dec	31	31	1,340	0	-	-	-	0	0	0	0	29	0	0											1,253.55	86.45	1,340
	2-Dec	2-Jan	31	29	770	0	-	-	-	0	0	0	0	29	0	0											-	720.32	720
	2-Jan	22-Jan	20	-	-	0	-	-	-	0	0	0	0	0	0	0											-	-	
					21,360	31	28	31	30	31	30	31	31	30	31	31	1,299	1,114	1,303	1,520	2,176	2,127	2,207	2,445	2,308	1,727	1,307	807	20,340

Cust #107225 Loc #200376	Beg Date	End Date	Days		CCF	Days June	Days July	Days August	Days Sept	Days Sept	Days June	Days July	Days August	Days Sept	Days Sept	Days Sept	Usage June	Usage July	Usage August	Usage Sept	Usage Sept	Usage June	Usage July	Usage August	Usage Sept	Usage Sept	Usage Sept	Usage Sept	
Donald Street	5-Dec	4-Jan	30	4	3,200	4											426.67											427	
	4-Jan	4-Feb	31	31	3,200	27	4	-	-	-	-	-	-	-	-	-	2,787.10	412.90								0	0	3,200	
	4-Feb	6-Mar	30	30	3,000	-	24	6										2,400.00	600.00							0	0	3,000	
	6-Mar	5-Apr	30	30	3,200		-	25	5										2,666.67	533.33						0	0	3,200	
	5-Apr	6-May	31	31	5,200	-		-	25	6										4,193.55	1,006.45					0	0	5,200	
	6-May	6-Jun	31	31	12,500	-			25	6											10,080.65	2,419.35				0	0	12,500	
	6-Jun	3-Jul	27	27	9,600	0				0	24	3										8,533.33	1,066.67				0	9,600	
	3-Jul	2-Aug	30	30	13,600	0	0			0	0	28	2													0	0	13,600	
	2-Aug	3-Sep	32	32	15,700	0	0	0		0	0	0	29	3	0	0						12,693.33	906.67		14,228.13	1,471.88	0	15,700	
	3-Sep	3-Oct	30	30	10,300	0		0	0	0	0	0	0	27	3	0										9,270.00	1,030.00	-	10,300
	3-Oct	1-Nov	29	29	5,100	0				0	0	0	0	28	1	0										175.86		5,100	
	1-Nov	2-Dec	31	31	3,700	0				0	0	0	0	0	29	2										4,924.14	238.71	3,700	
	2-Dec	2-Jan	31	29	3,700	0				0	0	0	0	0	29	0										3,461.29		3,700	
	2-Jan	22-Jan	20	-	-	0				0	0	0	0	0	0	0												3,461	
					92,000	31	28	31	30	31	30	31	31	30	31	31	3,214	2,813	3,267	4,727	11,087	10,953	13,760	15,135	10,742	5,954	3,637	3,700	88,988

217	196	217	210	217	210	217	217	210	217	210	217
31.00	28.00	31.00	30.00	31.00	30.00	31.00	31.00	30.00	31.00	30.00	31.00

Consumption (Gal.)	# days in billing cycle	Consumption current period	Consumption prior period	Two (2) month Average Daily flow
Month:				
January	31	16,338,293	-	527,042
February	28	15,406,284	16,338,293	538,044
March	31	16,757,501	15,406,284	545,149
April	30	21,873,373	16,757,501	633,293
May	31	24,981,623	21,873,373	768,115
June	30	30,340,633	24,981,623	906,922
July	31	40,446,894	30,340,633	1,160,448
August	31	34,711,737	40,446,894	1,212,233
September	30	26,495,029	34,711,737	1,003,544
October	31	19,252,099	26,495,029	749,907
November	30	16,609,067	19,252,099	587,888
December	31	17,345,571	16,609,067	556,633

[illegible]

Cust #95615 Loc #69656 Mammoth Rd.	Beg Date	End Date	Days		CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec				
	2-Dec	10-Jan	39	10	12,900	10												3,307.69		-	-	-	-	-	-	-	-	-	-	3,308			
	10-Jan	10-Feb	31	31	16,200	21	10	-	-	-	-	-	-	-	-	-	-	10,974.19	5,225.81	-	-	-	-	-	-	-	-	0	-	16,200			
	10-Feb	9-Mar	28	28	11,300	-	19	9											7,667.86	3,632.14	-	-	-	-	-	-	-	0	-	11,300			
	9-Mar	11-Apr	33	33	16,500	-	-	22	11											11,000.00	5,500.00	-	-	-	-	-	-	0	-	16,500			
	11-Apr	8-May	27	27	13,700	-		-	19	8											9,840.74	4,059.26	-	-	-	-	-	0	-	13,700			
	8-May	7-Jun	30	30	16,800	-				23	7													-	-	-	-	0	-	16,800			
	7-Jun	6-Jul	29	29	19,100					0	23	6										12,880.00	3,920.00	-	-	-	-	0	-	19,100			
	6-Jul	9-Aug	34	34	26,000	0	0					23		9									15,148.28	3,951.72	-	-	-	0	-	26,000			
	9-Aug	5-Sep	27	27	17,900	0		0				0	22	5										19,117.65	6,882.35	-	-	0	-	17,900			
	5-Sep	4-Oct	29	29	17,600	0	0	0		0	0	0	0	25	4	0	0								14,585.19	-	-	-	-	17,600			
	4-Oct	5-Nov	32	32	16,500	0			0					0	27	5										15,172.41	2,427.59	-	-	16,500			
	5-Nov	5-Dec	30	30	14,500	0									0	25	5										13,921.88	2,578.13	-	-	14,500		
	5-Dec	4-Jan	30	26	14,800	0										0	26											12,083.33	2,416.67	-	-	14,800	
	4-Jan	22-Jan	18	-	-	0					0					0	0												12,826.67	12,827	-	-	14,800
					213,800	31	29	31	30	31	30	31	31	30	31	30	31	14,282	12,894	14,632	15,141	16,939	19,068	23,069	21,468	18,487	16,349	14,661	15,243	202,234			

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Rockingham @ Coteville Rd	9-Jan	9-Feb	31	31	485	22	9	-	-	-	-	-	-	-	-	-	-	344.19	140.81	-	-	-	-	-	-	-	-	0	0	485		
	9-Feb	9-Mar	29	29	724	-	20	9	-	-	-	-	-	-	-	-	-	-	499.31	-	224.69	-	-	-	-	-	-	0	0	724		
	9-Mar	9-Apr	31	31	1,186	-	-	22	9	-	-	-	-	-	-	-	-	-	-	-	841.68	344.32	-	-	-	-	-	-	0	0	1,186	
	9-Apr	8-May	29	29	4,712	-	-	-	21	8	-	-	-	-	-	-	-	-	-	-	-	3,412.14	1,299.86	-	-	-	-	-	0	0	4,712	
	8-May	7-Jun	30	30	833	-	-	-	-	23	7	-	-	-	-	-	-	-	-	-	-	-	638.63	194.37	-	-	-	-	0	0	833	
	7-Jun	6-Jul	29	29	1,007	0	-	-	-	0	23	6	-	-	-	-	-	-	-	-	-	-	-	798.66	208.34	-	-	-	-	0	0	1,007
	6-Jul	6-Aug	31	31	1,370	0	0	-	-	0	0	25	6	-	-	-	-	-	-	-	-	-	-	-	1,104.84	265.16	-	-	0	0	1,370	
	6-Aug	5-Sep	30	30	1,106	0	0	0	-	0	0	0	25	5	-	-	-	-	-	-	-	-	-	-	921.67	184.33	-	-	-	-	1,106	
	5-Sep	4-Oct	29	29	866	0	-	0	-	0	0	0	0	25	0	-	-	-	-	-	-	-	-	-	-	746.55	119.45	-	-	-	-	866
	4-Oct	5-Nov	32	32	524	0	-	-	-	-	0	0	0	0	27	5	-	-	-	-	-	-	-	-	-	-	442.13	81.88	-	-	524	
	5-Nov	5-Dec	30	30	472	0	-	-	-	-	0	0	0	0	0	25	-	-	-	-	-	-	-	-	-	-	-	-	393.33	78.67	472	
	5-Dec	4-Jan	30	26	509	0	-	-	-	-	0	0	0	0	0	0	26	-	-	-	-	-	-	-	-	-	-	-	-	-	441.13	441
	4-Jan	22-Jan	18	-	-	0	-	-	-	-	0	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					14,311	31	29	31	30	31	30	31	31	30	31	30	31	467	640	1,066	3,756	1,938	993	1,313	1,187	931	562	475	520	13,849		

Cust #143619 Loc #207920 Pine Ave. Meter Pit	Beg Date	End Date	Days	CCF	Days Jan	Days Feb	Days Mar	Days Apr	Days May	Days June	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	
	2-Dec	9-Jan	38		9	79	9											18.71											
	9-Jan	9-Feb	31	31	86	22	9	-	-	-	-	-	-	-	-	-	61.03	24.97								0	0	19	
	9-Feb	14-Mar	34	34	91	-	20	14										53.53	37.47							0	0	86	
	14-Mar	12-Apr	29	29	76	-	-	17											44.55							0	0	91	
	12-Apr	8-May	26	26	89	-			12											31.45						0	0	76	
	8-May	7-Jun	30	30	287	-	30	-	18											61.62						0	0	89	
	7-Jun	6-Jul	29	29	732	0			23												220.03	66.97				0	0	287	
	6-Jul	9-Aug	34	34	501	0	0		0		23	6									580.55	151.45				0	0	732	
	9-Aug	5-Sep	27	27	316	0		0		0	25	9										368.38	132.62			0	0	501	
	5-Sep	4-Oct	29	29	291	0	0			0	0	22	5										257.48		58.52		-	316	
	4-Oct	5-Nov	32	32	113	0		0	0	0		0	25	4	0	0								250.86	40.14		-	291	
	5-Nov	5-Dec	30	30	106	0				0			0	27	5										95.34	17.66		113	
	5-Dec	4-Jan	30	26	109	0				0			0		25	5										88.33	17.67	106	
	4-Jan	22-Jan	18	-		0				0				0	26												94.47	94	
					2,876	31	29	31	30	31	31	31	30	31	30	31	80	78	82	93	247	648	520	390	309	135	106	112	2,801

Cust #95683 Loc #69736 Patten and County Rd.	Beg Date	End Date	Days	CCF	Days June	Days July	Days August	Days Sept	Days Sept	Days June	Days July	Days August	Days Sept	Days Sept	Days Sept	Days Sept	Usage June	Usage July	Usage August	Usage Sept	Usage Sept	Usage June	Usage July	Usage August	Usage Sept	Usage Sept	Usage Sept	Usage Sept	
	2-Dec	9-Jan	38	9	1,200	9											284.21											284	
	9-Jan	9-Feb	31	31	1,460	22	9	-	-	-	-	-	-	-	-	-	1,036.13	423.87								0	0	1,460	
	9-Feb	9-Mar	29	29	1,100	-	20	9	-	-	-	-	-	-	-	-		758.62	341.38							0	0	1,100	
	9-Mar	9-Apr	31	31	1,320	-		22	9	-	-	-	-	-	-	-			936.77	383.23						0	0	1,320	
	9-Apr	8-May	29	29	1,870	-			8	-	-	-	-	-	-	-				1,354.14	515.86					0	0	1,870	
	8-May	7-Jun	30	30	1,780	-			23	7	-	-	-	-	-	-					1,364.67	415.33				0	0	1,780	
	7-Jun	6-Jul	29	29	2,490	0			0	23	6	6	-	-	-	-						1,974.83	515.17				0	0	2,490
	6-Jul	6-Aug	31	31	3,610	0	0		0	0	25	6	5	-	-	-							2,911.29	698.71		0	0	3,610	
	6-Aug	5-Sep	30	30	2,480	0	0	0		0	0	25	0	5	-	-								2,066.67	413.33		-	2,480	
	5-Sep	4-Oct	29	29	2,000	0		0	0	0	0	0	25	4	0	0										1,724.14	275.86	2,000	
	4-Oct	5-Nov	32	32	1,420	0				0	0	0	0	27	5	-										1,198.13		1,420	
	5-Nov	5-Dec	30	30	1,260	0				0	0	0	0	25	5	-											221.88	-	1,260
	5-Dec	4-Jan	30	26	1,120	0				0	0	0	0	26	-	-											1,050.00	210.00	971
	4-Jan	22-Jan	18	-	-	0				0				0	0	-											-	-	-
					23,110	31	29	31	30	31	30	31	31	30	31	31	1,320	1,182	1,278	1,737	1,881	2,390	3,426	2,765	2,137	1,474	1,272	1,181	22,045

Cust #107225 Loc #200376 Donald Street	Beg Date	End Date	Days	CCF	Days June	Days July	Days August	Days Sept	Days Sept	Days June	Days July	Days August	Days Sept	Days Sept	Days Sept	Days Sept	Usage June	Usage July	Usage August	Usage Sept	Usage Sept	Usage June	Usage July	Usage August	Usage Sept	Usage Sept	Usage Sept	Usage Sept	Usage Sept						
	2-Dec	9-Jan	38	9	3,300	9											781.58												782						
	9-Jan	9-Feb	31	31	3,200	22	9	-	-	-	-	-	-	-	-	-	2,270.97	929.03									0	0	3,200						
	9-Feb	9-Mar	29	29	2,800	-	20	9	-	-	-	-	-	-	-	-		1,931.03	868.97								0	0	2,800						
	9-Mar	9-Apr	31	31	3,300	-	-	22	9	-	-	-	-	-	-	-			2,341.94	958.06							0	0	3,300						
	9-Apr	8-May	29	29	6,300	-	-	-	21	8	-	-	-	-	-	-				4,562.07	1,737.93						0	0	6,300						
	8-May	7-Jun	30	30	8,300	-	-	-	23	7	-	-	-	-	-	-					6,363.33	1,936.67					0	0	8,300						
	7-Jun	6-Jul	29	29	13,400	0	-	-	0	23	6	6	-	-	-	-						10,627.59	2,772.41				0	0	13,400						
	6-Jul	6-Aug	31	31	19,600	0	0	-	0	0	25	6	5	-	-	-										15,806.45	3,793.55	0	0	19,600					
	6-Aug	5-Sep	30	30	13,800	0	0	0	-	0	0	25	0	5	-	-											11,500.00	2,300.00	-	-	13,800				
	5-Sep	4-Oct	29	29	8,300	0	-	0	0	0	0	0	25	0	4	0	0												7,155.17	1,144.83	-	-	8,300		
	4-Oct	5-Nov	32	32	3,800	0	-	-	-	0	0	0	0	27	5	-												-	593.75	-	-	3,800			
	5-Nov	5-Dec	30	30	3,100	0	-	-	-	0	0	0	0	0	25	5												-	3,206.25	2,583.33	-	-	3,100		
	5-Dec	4-Jan	30	26	3,200	0	-	-	-	0	0	0	0	0	26	-												-	-	-	2,773.33	516.67	-	-	3,200
	4-Jan	22-Jan	18	-	-	0	-	-	-	0	-	-	-	0	0	-												-	-	-	-	-	-	-	-
					92,400	31	29	31	30	31	30	31	30	31	30	31	3,053	2,860	3,211	5,520	8,101	12,564	18,579	15,294	9,455	4,351	3,177	3,290	89,455						

SW-file

21-023, 2022-03-08, exh. 7
BOARD OF WATER COMMISSIONERS



MANCHESTER WATER WORKS

281 LINCOLN ST., MANCHESTER, NEW HAMPSHIRE 03103-5093 Tel. (603) 624-6494

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Asst. Director

May 19, 2003

Mr. Stephen J. Densberger
Executive Vice President
Pennichuck Water
PO Box 448
Nashua, NH 03061-0448

RE: AMENDED WHOLESALE WATER AGREEMENT

Dear Steve:

Enclosed is a fully executed copy of the subject Agreement.

MWW looks forward to continuing our relationship as your wholesale provider.

Sincerely,

Thomas M. Bowen, P.E.
Director

Enclosure

**AMENDED PENNICHUCK WATER WORKS, INC.
WHOLESALE WATER AGREEMENT**

Agreement made and entered into this 21st day of March, 1997 ("Agreement"), and amended as of Feb 3rd, 2003 by and between the MANCHESTER WATER WORKS ("MWW"), a duly established municipal water works, and Pennichuck Water Works, Inc. ("Pennichuck"), a New Hampshire corporation.

Recitals.

1. MWW and Pennichuck have existing waterworks systems;
2. Pennichuck desires to purchase from MWW certain volumes of water on a wholesale basis;
3. MWW has supplied water to Consumers New Hampshire Water Company and subsequently Pennichuck under a Wholesale Water Contract dated October 29, 1987 amended May 25, 1988, March 25, 1989 and March 21, 1997, and due to expire March 21, 2022, which contract each party wishes to terminate;
4. In or around November 1997, Consumers assigned its rights under the Wholesale Water Contract to the Town of Hudson, to which MWW consented. In or around April 1998, the Town of Hudson assigned its rights under the Wholesale Water Contract to Pennichuck, to which MWW consented.
5. MWW and Pennichuck have determined to enter into this legally binding Agreement to establish the conditions for wholesale supply of water.
6. The terms of this Agreement will be submitted to the NHPUC for and subject to its approval.

NOW THEREFORE, in consideration of the mutual promises and covenants herein set forth, and in order to secure the services described below, the parties hereto, each binding itself, its respective representatives, successors, and assigns, agree as follows:

ARTICLE 1. SHORT TITLE, DEFINITIONS AND INTERPRETATIONS

Section 101. Short Title. This Agreement may be referred to as the "Pennichuck Wholesale Water Agreement".

Section 102. Meanings and Construction.

102.1. Definitions. For all purposes of this Agreement, including any amendments, the terms shall have the meanings set forth below.

102.1.1. "Anniversary Date" means the day and month on which the Agreement was signed in each year.

102.1.2. "Average Daily Flow" means the total volume of water measured in gallons or cubic feet at a metering station or stations during two consecutive monthly billing periods divided by the actual number of days in the two billing periods.

102.1.3. "Fire Flow" means the flow described in section 201.3.1.

102.1.4. "Maximum Daily Flow" means the highest total volume of water measured in gallons or cubic feet at a metering station or stations over any consecutive twenty-four (24) hour period.

102.1.5. "MSDC" means the Merrimack Source Development Charge which is a capital charge for contribution for the development of new water sources to maintain and extend service in circumstances of growing demand.

102.1.6. "NHPUC" means the Public Utilities Commission of the

State of New Hampshire.

102.1.7. "Period" means any length of time.

102.1.8. "Person" means any individual, firm, company, association, society, corporation, political subdivision, fire district, or group.

102.1.9. "Waterworks" means facilities for collection, storage, supply, distribution, treatment, pumping, metering, or transmission of water.

Section 103. Construction. This Agreement, except where the context clearly indicates otherwise, shall be construed as follows:

103.1 Definitions include both singular and plural;

103.2 Pronouns include both singular and plural and include both genders.

Section 104. Governing Law. This Agreement shall be governed by the laws of the State of New Hampshire.

ARTICLE 2. TERMS OF SUPPLY

Section 201. Obligations of Pennichuck. Pennichuck agrees to the following obligations and limitations made in return for MWW's agreement to permit connection and supply of water into Pennichuck's waterworks.

201.1. Limitation of Rights. Nothing in this Agreement is intended as a grant by MWW of any exclusive right or privilege.

201.2. Charges and Fees. Pennichuck shall make timely payment of all charges described in this Agreement in accordance with Sections 305, 306 and 307 below.

201.3 Quantity of Water. Pennichuck shall limit its usage of MWW's waterworks to the following:

Average Daily Flow - 2.1 Million Gallons Per Day

Maximum Daily Flow - 3.5 Million Gallons Per Day

MWW shall have no responsibility to supply water in excess of these stated amounts.

201.3.1 Fire Flow. In consideration of the rate per million gallons charged to Pennichuck pursuant to Section 302.1, MWW shall take reasonable measures to provide Fire Flow to Pennichuck of 750 gallons per minute. MWW shall have no obligation to provide Fire Flows in excess of 750 gallons per minute nor does it guarantee adequate Fire Flow or any aspect of fire service.

201.4 Assignment and Sale. Pennichuck may (i) assign its contract right to the quantities of water specified in Section 201.3 to another Person or (ii) sell water purchased pursuant to this Agreement to Persons located outside of or transporting water outside of the geographic areas for which it has or obtains NHPUC water service franchise authority, only with MWW's written consent, which consent shall not be unreasonably withheld.

201.5. Control of System Leaks and Wasteful Use. Pennichuck shall operate and maintain its waterworks in accordance with customary engineering practices and with the guidelines set forth below.

201.5.1. Pennichuck shall minimize any wasteful use of water within its service area.

201.5.2. In any period in which Pennichuck receives water pursuant to this Agreement, Pennichuck shall impose the same voluntary or mandatory restrictions on water use by its customers (e.g. sprinkling bans) as MWW shall impose on its customers within one week of such imposition by MWW. The imposition and re-

removal of any restrictions shall be within the sole and exclusive discretion of MWW, but nothing in this Agreement shall prevent Pennichuck from imposing its own restrictions which are more restrictive than those imposed by MWW.

201.6. Conformance of Law. Pennichuck shall comply and shall ensure that its customers and any private water systems connected to Pennichuck waterworks comply with all applicable laws of the United States and of the State of New Hampshire, including but not limited to all rules and regulations of the New Hampshire Department of Environmental Services, and all applicable rules and regulations of the NHPUC. If Pennichuck fails to comply with this Section 201 after written notice from MWW, MWW may discontinue all services to Pennichuck until such time as Pennichuck demonstrates its compliance with this Section.

201.7. Quality of Water. MWW shall supply water meeting the drinking water quality criteria established from time to time by the United States Environmental Protection Agency and the State of New Hampshire.

Section 202. Obligations of MWW. MWW agrees to the following obligations and limitations in return for the timely payment by Pennichuck of the charges specified in this Agreement.

202.1. Metering Point. MWW shall supply water to Pennichuck at one or more of the following locations subject to the limitations contained herein.

- A. The intersection of Joanne Dr. and Londonderry Turnpike, Hooksett.
- B. The intersection of Harvey Rd. and Burton Dr., Londonderry.
- C. The intersection of Mammoth Rd. and Rockingham Rd., Londonderry.
- D. The intersection of Seasons Lane and Rockingham Rd., Londonderry.

- E. The intersection of County Road and Patton Road, Bedford.
- F. To the east of the intersection of Donald Street and Route 114 at the Donald Street pumping station, Bedford.

Additional metering points may be added by mutual agreement and subject to the provisions of this Agreement.

202.2 Measurement of Flows. The measurement of water delivered to Pennichuck shall be undertaken by MWW. Such flow measurements shall be made by one or more metering devices placed at locations selected by MWW.

202.3. Construction of Connection. Any and all connections between MWW's waterworks and Pennichuck's waterworks, including modifications or upgrades which may be necessary to effectuate this Agreement, including but not limited to meter vaults and metering devices, shall be designed by MWW, reviewed with Pennichuck for reasonableness, and constructed by MWW, and/or any subcontractors as MWW shall choose to employ, such decision to be made at MWW's sole discretion. The cost of all construction undertaken to construct, modify or upgrade the connection of MWW's waterworks to Pennichuck's waterworks, including the purchase of metering devices and appurtenances, shall be paid by Pennichuck. The necessity of and selection of all materials and equipment and the location thereof shall be within the sole discretion of MWW.

202.4. Ownership of Connection Facilities. MWW shall own all pipes laid from its presently existing waterworks to within ten (10) feet of the outside wall of the metering vault and it shall own the metering device. All other waterworks, piping, and vaults constructed to make the connection necessary to effectuate this Agreement shall be the property of Pennichuck and shall be maintained by Pennichuck in a manner satisfactory to MWW.

202.5. Maintenance of Metering Devices.

202.5.1. Any and all metering devices installed pursuant to this Agreement shall be inspected and calibrated in the manner provided by regulations of the NHPUC at MWW expense. A copy of any inspection and calibration reports shall be filed at MWW's offices and shall be available for examination by Pennichuck at the offices of MWW during normal business hours.

202.5.2. Pennichuck may request MWW to test and certify as to the accuracy of any metering device at any time. If the metering device reads within specifications accepted by the NHPUC, the cost of such tests shall be borne by Pennichuck. If the average error over different test rates is greater than that allowed by the NHPUC, the cost of the tests shall be paid by MWW. Any adjustments will be made in accordance with NHPUC regulations.

202.5.3. In the case of missing or inaccurate flow records, due to faulty metering device operation or other circumstances, an estimate of flow shall be made by MWW based on past records for a comparable period. The estimates shall be used by MWW to calculate the payments due from Pennichuck. Such payments shall be subject to the provisions of Sections 303, 304, 305, 306 and 307 hereof below.

202.6 Record, Accounts and Audits. MWW shall maintain records of all financial transactions with Pennichuck, and these records shall be available for inspection by Pennichuck or any customer of Pennichuck at the office of MWW during normal business hours. Said records shall be available for inspection by other parties only upon presentation to MWW of a written authorization from Pennichuck. The financial statements of MWW shall be available for inspection by Pennichuck within a reasonable time after it has been accepted by the MWW's Board of Water Commissioners.

Section 203. Responsibility for System Operation and Maintenance. MWW as-

sumes no responsibility for operation and maintenance of waterworks constructed and owned by Pennichuck including those described in Sections 202.3 and 202.4 hereof. MWW's sole duty hereunder shall be to supply water up to the maximum amounts specified in Section 201.3 at the locations specified in Section 202.1 subject to the terms and conditions contained herein.

Section 204. Limitation of Liability.

204.1 Liability for Non-Negligent Acts. If MWW shall be unable to supply some or all of the water demanded by Pennichuck under this Agreement for any reason other than MWW's own negligence, MWW shall not be liable to Pennichuck for any damages arising out of such failure to supply water. Pennichuck hereby waives any rights it might have to any damages.

204.2 Impairment of Supply. Existing customers of MWW have first right to any water supplied by MWW, and this Agreement shall not impair the supply of water to them. If MWW is unable to supply both its other customers and Pennichuck with water for any reason other than the negligence of MWW, Pennichuck cannot compel MWW to supply it with water, nor shall it be entitled to any damages as a result of MWW's failure to supply it with water. In addition, MWW cannot be compelled to furnish Pennichuck with water if MWW's waterworks or the source upon which MWW is dependent for its supply of water is impaired, and Pennichuck shall be entitled to no damages as a result of MWW's failure to supply it with water. MWW shall be the sole judge as to whether the water available to it is adequate to supply both Pennichuck and MWW's other customers and whether MWW's waterworks or source of supply is impaired. MWW judgment shall be reasonable. MWW's decision shall be final and binding on Pennichuck. Notwithstanding the foregoing, if MWW reduces the amount of

water which it supplies to Pennichuck pursuant to this Section 204.2, such reduction shall be proportionally equal to reductions made to other wholesale customer of MWW, based on the average amount of water received by each wholesale customer during the ninety (90) days preceding such reduction.

204.3 Liability for Accident. Neither MWW nor Pennichuck shall be liable in damages or otherwise for failure to perform any obligation under this Agreement, which failure is occasioned by or in consequence of any act of God, act of public enemy, wars, blockades, insurrections, riots, epidemics, landslides, lightning, earthquakes, drought, fires, storms, floods, winter freeze, washouts, vandalism, arrests and restraints of rulers and peoples, civil disturbances, labor strikes, power failures, explosions, breakage or accident to machinery or lines of pipe, failure or want of water supply, the binding order of any court or governmental authority which has been resisted in good faith by all reasonable legal means, and any other cause, whether of the kind herein enumerated or otherwise, not within the control of such party and which act, omission or circumstances such party is unable to prevent or overcome by the exercise of reasonable care.

204.4 Liability Resulting from Negligence. Neither Pennichuck nor MWW shall be relieved of liability for loss resulting from its negligence, intentional actions, or its failure to use due diligence to remedy the situation and remove the cause in an adequate manner and with all reasonable dispatch, nor shall such causes or contingencies affecting performance relieve Pennichuck from its obligations to make payments of amounts then due with respect to water theretofore supplied.

204.5 Pennichuck's Liability for Capital Expenditures and for Water Supplied. Nothing herein shall be construed as relieving Pennichuck under any circum-

stances from its duty to pay for capital expenditures made by MWW pursuant to Section 202.3 hereof or for water supplied pursuant to this Agreement.

Section 205. Indemnification and Insurance. Pennichuck shall exonerate, indemnify and save harmless MWW from all claims and demands for injuries to Persons, loss of life, damage to property or other losses arising out of or connected with the performance of this Agreement in Londonderry and Hooksett, New Hampshire, which MWW is legally bound to pay excepting, however, such claims and demands as shall result from negligence on the part of MWW. The phrase "claims and demands" shall include, but shall not be limited to, damages, judgments, settlements, costs and defense of legal actions, claims or proceedings and appeal therefrom. Pennichuck shall maintain liability insurance in the amount of \$1,000,000 bodily injury and property damage (each occurrence), together with a \$1,000,000 umbrella policy. Pennichuck agrees to furnish certificate(s) of the above-mentioned insurance to the City of Manchester within fourteen (14) days from the date of this agreement and, with respect to the renewals of the current insurance policies, at least thirty (30) days in advance of each renewal date. Such certificates shall name the City of Manchester and the Manchester Water Works as an additional insured (except Workers Compensation) and shall state that in the event of cancellation or material change, written notice shall be given to the City of Manchester, Manchester Water Works, 281 Lincoln Street, Manchester, New Hampshire, 03103, at least thirty (30) days in advance of such cancellation or change. For its part, MWW agrees to and does exonerate, indemnify and save harmless Pennichuck from all claims or demands for injuries to Persons, loss of life, damage to property or other losses arising out of or connected with the performance of this Agreement to the extent such claims and demands resulted from the negligence or fault of MWW.

Section 206. Notices. All notices and other writings sent pursuant to this

Agreement shall be addressed to the Director of MWW at:

Manchester Water Works
Attention: Director
281 Lincoln Street
Manchester, NH 03103

and to Pennichuck at:

Pennichuck Water Works
Attention: President
4 Water Street P.O. Box 448
Nashua, NH 03061-0448

or at such other address as is indicated by written notice to the other party.

ARTICLE 3. PAYMENTS FOR SERVICES

Section 301. Basis for Payments. Pennichuck shall pay MWW for each gallon of water supplied to Pennichuck at the locations stated in Section 202.1 hereof at the rate specified in Section 302 and 304 and subject to the Merrimack Source Development Charge (MSDC) specified in Section 303 hereof. Payment shall be made in accordance with the provisions of Sections 305, 306 and 307 hereof. The volume of water supplied to Pennichuck shall be determined by means of one or more metering devices which shall meet all the requirements of Federal and State law, and which shall be owned, installed and maintained by MWW at one or more locations selected by it in its discretion.

Section 302. Rates.

302.1 Rate Per Gallon. The rate charged for water supplied to Pennichuck shall be \$0.778 per hundred cubic feet (\$1,040.13 per million gallons) at those sites where MWW provides Fire Flow capacity and shall be \$0.596 per hundred cubic feet (\$796.86 per million gallons) at those sites where MWW does not provide Fire Flow capacity.

At such time as Pennichuck constructs facilities for the purpose of providing its own Fire Flow capacity such that it no longer requires the Fire Flow established in Section 201.3.1 at a site, the rate charged for water at that site shall be adjusted to a rate of \$0.595 per CCF (\$796.07 per million gallons). Pennichuck shall provide to MWW written documentation of the completion of such construction and of the date of its completion.

302.2 Service Charge. The monthly charge shall be as follows in accordance with MWW rate schedule and based upon the size of the meter or meters required by Pennichuck.

3"	\$ 24.95
4"	\$ 35.53
6"	\$ 59.14
8"	\$100.25

302.3 Adjustments in Rate. The rates and charge established in Section 302.1 and 302.2 shall be adjusted each time MWW establishes a new permanent rate for MWW's customers being served outside the City of Manchester. The adjustment in the rate charged under this Agreement shall be equal to the percentage by which the order of the MWW Board of Water Commissioners increases or decreases the monthly total of the metered water rate and other charges that would be charged to an industrial customer of MWW located outside the City of Manchester who uses 2.1 million gallons per day and whose water from MWW is metered at a single location by the same number and size of water meters that are used to meter the water transported to Pennichuck by MWW at the date of the order of the MWW Board of Water Commissioners. Such increases in the rate charged under the Agreement shall be effective as of the same date on which the increase in rates charged to customers residing outside the City of Manchester is effective.

Section 303. MSDC. Pennichuck shall pay MWW a source development charge of \$1.14 for each gallon of the 2.1 million gallons of the average daily flow specified in Section 201.3 ("MSDC"), in accordance with and subject to the following:

303.1 Payment. Beginning in 1997 and for the duration of this Agreement, Pennichuck shall pay MSDC annually, on or before January 15 of each year, for additional Average Daily Flow at a rate of \$1.14 per gallon. Such amount shall be determined annually based upon Pennichuck's estimate of the increase in the Average Daily Flow from the Average Daily Flow for which Pennichuck has previously made MSDC payment, but in no event shall the estimated increase in Average Daily Flow equal less than 3% of the Average Daily Flow for which Pennichuck has previously made MSDC payment. Should the actual Average Daily Flow for which payment was made in January of that year exceed the estimated Average Daily Flow for which payment was made in January of that year, Pennichuck will promptly pay MSDC for the full amount of the difference between the estimated increase and the actual increase in Average Daily Flow. Should the actual increase in Average Daily Flow be less than the estimated increase, the difference between the two will be credited against the MSDC payment for the succeeding year. Payments shall be made by Pennichuck for the duration of this Agreement until the contractual limit of Average Daily Flow capacity is reached.

The 1997 refund, if any, due Pennichuck from MWW pursuant to the October 29, 1987 Wholesale Water Agreement, as amended, shall be made within forty-five (45) days of receipt of notice of NHPUC approval of this Agreement. Except as specified in the preceding sentence and in paragraph 303.3 of this Agreement, no refund of MSDC payments shall be required of MWW.

303.2 It is intended that the total payments to MWW under this Section

303 shall not exceed \$2,394,000, representing 2.1 MGD unless the \$1.14 per gallon rate is adjusted by the MWW Board of Water Commissioners for all customers subject to the MSDC. MWW shall provide Pennichuck ninety (90) days written notice of any proposed change to the MSDC rate. Within this 90 day period, Pennichuck shall have the option to purchase any or all of its remaining 2.1 MGD allotment at the rate of \$1.14 per gallon.

303.3 Under no circumstances shall Pennichuck be entitled to any reimbursement of any payment made under this Section 303, except to the extent and in the manner that customers of MWW receive reimbursement of the Merrimack Source Development Charge or in accordance with an order of the NHPUC.

Section 304. Emergency Use. Should Pennichuck require water from MWW in excess of the limits allocated in Section 201.3 and MWW in its absolute discretion agrees to supply such water to Pennichuck, Pennichuck shall pay a rate equal to two (2) times the rate specified in Section 302.1 for each gallon in excess of the Average Daily Flow or Maximum Daily Flow, as the case may be, allocated in Section 201.3 which Pennichuck consumes. Nothing in this section, however, shall be construed as giving Pennichuck a right to any water in excess of the limits specified. MWW shall have sole and exclusive discretion as to the determination of the availability of water in excess of the amount stated in Section 201.3, and the determination of the length of any prolonged emergency use.

Section 305. Billing Cycle. MWW shall bill Pennichuck on a monthly basis in arrears for amounts due under Section 302. Payment on bills shall be due upon presentation.

Section 306. Delinquent Bills. Bills remaining unpaid for thirty (30) days or longer from the billing date shall be subject to one and one-half (1 1/2) percent interest

per month on the unpaid balance from the original due date. If bills or payments to be made pursuant to this agreement remain unpaid for thirty (30) days or longer after the due date, MWW may issue a notice of intent to discontinue service to Pennichuck and to the NHPUC. If the bill remains unpaid for five (5) days or longer after the date of the notice of intent to discontinue service described above, all supply of water by MWW to Pennichuck shall cease and said supply shall not be renewed until all outstanding bills are paid in full at the office of MWW. In lieu of such discontinuance, MWW may require Pennichuck to post a deposit and make payments more frequently than at monthly intervals.

Section 307. Charge for Resumption of Service. If MWW ceases to supply water to Pennichuck pursuant to Section 201.6 or Section 306 above, MWW may impose a reasonable charge for resumption of said supply of water.

Section 308. Expansion and/or Upgrading of MWW. In all cases, MWW shall be the sole judge as to all improvements, additions or expansions to its waterworks, provided that the undertaking of such improvements, additions or expansions does not impair the ability of MWW to provide water to Pennichuck pursuant to this Agreement.

Section 309. Capital Expenditures. Pennichuck shall pay for any capital expenditures made by MWW which MWW reasonably believes are necessary or advisable in order to provide or continue services to Pennichuck under this Agreement, whether or not such expenditures are made within or without the boundaries of Pennichuck; provided, however, that MWW shall give written notice to Pennichuck of any such capital expenditure at least six months prior to the need for funds to be available. Said notice shall include a brief description of the purpose of the capital expenditure, its total costs and Pennichuck's pro rata share of the total costs. Pennichuck shall have sixty (60) days from the date of said notice in which to commit itself to pay or to refuse to pay its

pro rata share of the capital expenditure as stated in said notice. A refusal by Pennichuck to pay its pro rata share of the capital expenditure as stated in said notice must be made in writing in accordance with Section 206 hereof. Failure by Pennichuck to notify MWW in writing within sixty (60) days after the date of said notice that Pennichuck refuses to pay its pro rata share of the capital expenditure as stated in said notice shall constitute a commitment by Pennichuck to pay said pro rata share. If Pennichuck has failed to properly notify MWW and refuses to pay its pro rata share of the capital expenditure, this Agreement shall terminate at the end of the quarter in which such refusal shall be made in accordance with Section 407 hereof.

ARTICLE 4. ASSIGNMENT, AMENDMENT AND TERMINATION

Section 401. Amendment. The provisions, terms and conditions of this Agreement may be modified only by written amendments, executed with the same formality as this Agreement.

Section 402. Assignment. Except as provided in section 201.4, no assignment by Pennichuck of its rights or duties under this Agreement shall be binding on MWW, unless MWW consents to such an assignment in writing.

Section 403. Waiver. Failure of either party hereto to exercise any right hereunder shall not be deemed a waiver of such party to exercise at some future time said rights or another right it may have hereunder.

Section 404. Date Effective, Supersession and Duration. Subject to approval of the NHPUC, this Agreement shall be effective as of the date first written above. Upon receipt of NHPUC approval, this Agreement shall supersede and replace all prior agreements between the parties with respect to the subject matter hereto, including the Southern New Hampshire Water Company Wholesale Water Agreement dated October

29, 1987, as amended, which shall be considered terminated and have no further force or effect from the date of execution of this Agreement (or such later date as may be determined by the NHPUC), except with respect to any refund of MSDC payments due in 1997. This Agreement does not supersede and replace the Southern New Hampshire Water Company Wholesale Water Connection Construction Agreement dated as of October 29, 1987. This Agreement shall be in full force and effect and shall be exclusive and binding on the parties for 25 years from _____, 2003, as long as Pennichuck is not in default of its obligations hereunder. It is the intent of both parties that on or before the expiration of the term of this Agreement, this Agreement will be renegotiated and extended upon terms mutually agreeable to both parties. The parties agree to meet to discuss renewal at least three (3) years in advance of the termination of this Agreement. In the event that the parties cannot agree to terms of renewal, and so long as Pennichuck remains a regulated public utility, the matter shall be submitted to the NHPUC, which may act as a mediator in an effort to have the parties reach an agreement.

Section 405. Termination. In the event of unforeseen circumstances which materially alter the circumstances upon which this Agreement is based, either party shall have the right to terminate this Agreement without liability to the other of any sort upon approval by the NHPUC of a petition requesting authority to so terminate this Agreement. Termination of this Agreement by Pennichuck under this Section 405 shall not relieve Pennichuck of its obligation to pay MWW for any services rendered, capital expenditures made pursuant to this Agreement prior to the date of termination or the MSD charge specified in Section 303.

Section 406. Breach. Either party may terminate this Agreement prior to the time specified in Section 404 if the other party has violated any of the covenants un-

dertaken herein, or any of the duties imposed upon it by this Agreement; provided that the party seeking to terminate for such cause shall give the offending party sixty (60) days written notice, specifying the particulars of the violation claimed; and if at the end of such time the party so notified has not removed the cause of complaint, or remedied the purported violation, then the termination of this Agreement shall be deemed complete.

Section 407. Termination Pursuant to Section 309. If this Agreement is terminated pursuant to Section 309 hereof by Pennichuck's refusal to pay its pro rata share of a capital expenditure, Pennichuck shall not be relieved of its obligation to pay MWW for any services rendered or capital expenditures made pursuant to this Agreement prior to its termination, other than those capital expenditures for which Pennichuck refused to pay pursuant to Section 309.

ARTICLE 5. MISCELLANEOUS PROVISIONS

Section 501. Severability. If any clause or provision of this Agreement or application thereof shall be held unlawful or invalid, no other clause or provision or its application shall be affected, and this Agreement shall be construed and enforced as if such unlawful or invalid clause or provision had not been contained herein.

Section 502. Exercise of Judgment. Where MWW is directly or implicitly authorized to exercise its judgment under this Agreement, its judgment shall be valid unless clearly unreasonable.

Section 503. Status of Legal Representatives, Successors, and Assigns. The benefits and burdens of this Agreement shall inure to and be binding upon the respective legal successors to the parties hereto.

Section 504. Third Parties. MWW assumes no responsibility for any facility not included in its waterworks, and in the event that a facility of a third party shall be involved in the furnishing of service to, or the receipt of service from Pennichuck, Pennichuck shall look solely to such third party for any such services. Pennichuck assumes sole responsibility for compliance with this Agreement by all third party users or customers of its waterworks. MWW shall deal directly with Pennichuck which shall, in turn, make certain that all users and customers comply with this Agreement and with all applicable rules and regulations.

Section 505. Disputes, Arbitration. Disputes, including but not limited to those related to supply of water, connection facilities, operation and maintenance, impairment of supply, and charges and payment, shall be submitted to the NHPUC.

IN WITNESS WHEREOF, this Amended Agreement is executed in multiple counterparts each of which shall be deemed an original this 3rd day of February, 2003.

In the Presence of:

Stephany DenBurger
Witness

T. Thomas Brown
Witness

agreement\pww wholesale agr final4-15

PENNICHUCK WATER WORKS, INC.
By its President ~~President~~ CEO

John Kreick

MANCHESTER WATER WORKS
By the Board of Water Commissioners
President

C. Arthur Soucy
C. Arthur Soucy

GENERAL

GENERAL SERVICE, METERED/MANCHESTER RATE SCHEDULE "GM-M"

AVAILABILITY

These rates are available for general metered service in the City of Manchester.

WATER USAGE RATE

\$1.639 per 100 Cubic Feet (CCF)

SERVICE CHARGE

<u>Meter Size</u>	<u>Quarterly Billing</u>	<u>Monthly Billing</u>
5/8	\$27.50	\$15.02
3/4	35.34	17.61
1	41.70	19.72
1½	69.82	29.12
2	94.48	37.32
3	127.26	48.27
4	188.42	68.64
6	324.94	114.13
8	562.59	193.38
10	938.40	312.76

TERMS OF PAYMENT

- (a) Bills shall be rendered either quarterly or monthly and shall be due and payable upon presentation.
- (b) Where a Utility bill exceeds \$1,000 per quarter, or at the sole discretion of the Utility, bills shall be rendered monthly.
- (c) Late payment charges and other expenses shall be computed as specified under Miscellaneous Charges.

SENIOR DISCOUNT

A 50% discount shall be applied to qualified low income disabled and elderly customers residing in the City of Manchester in accordance with criteria established by the City of Manchester Assessors Office for property tax exemption.

Issued: June 25, 2020

Effective: October 1, 2020

GENERAL

GENERAL SERVICE, METERED/TOWNS RATE SCHEDULE "GM-T"

AVAILABILITY

These rates are available for general metered service in all areas served outside the City of Manchester.

WATER USAGE RATE

\$1.877 per 100 Cubic Feet (CCF)

SERVICE CHARGE

<u>Meter Size</u>	<u>Quarterly Billing</u>	<u>Monthly Billing</u>
5/8	\$31.62	\$17.27
3/4	40.64	20.25
1	47.95	22.67
1½	80.28	33.48
2	108.64	42.91
3	146.35	55.51
4	216.68	78.92
6	373.68	131.24
8	646.98	222.38
10	1,079.15	359.67

TERMS OF PAYMENT

- (a) Bills shall be rendered either quarterly or monthly and shall be due and payable upon presentation.
- (b) Where a Utility bill exceeds \$1,000 per quarter, or at the sole discretion of the Utility, bills shall be rendered monthly.
- (c) Late payment charges and other expenses shall be computed as specified under Miscellaneous Charges.

SENIOR DISCOUNT

A 50% discount shall be applied to qualified low income disabled and elderly customers residing outside the City of Manchester in accordance with criteria established by the City of Manchester Assessors Office for property tax exemption.

Issued: June 25, 2020

Effective: October 1, 2020

FIRE PROTECTION – PRIVATE/MANCHESTER

RATE SCHEDULE – “FP-P-M”

AVAILABILITY

This rate is available for private fire service in the City of Manchester.

RATES

Rates are based on the size of each fire service pipe as it enters each building and each private fire hydrant on the premises.

	<u>Service Size (in)</u>	<u>Per Quarter</u>	<u>Per Month</u>
For each:	1½ or less	\$ 3.83	\$ 1.24
	2	8.19	2.69
	2½	14.72	4.89
	3	23.83	7.92
	4	50.79	16.90
	5	91.37	30.45
	6	147.59	49.18
	8	314.57	104.83
	10	565.71	188.57
	12	913.80	304.59

TERMS

- (a) Bills shall be rendered either quarterly or monthly, and shall be due and payable upon presentation.
- (b) Late payment charges and other expenses shall be computed as specified under Miscellaneous Charges.

Issued: June 25, 2020

Effective: October 1, 2020

FIRE PROTECTION – PRIVATE/TOWNS

RATE SCHEDULE – “FP-P-T”

AVAILABILITY

This rate is available for private fire service in all areas served outside the City of Manchester.

RATES

Rates are based on the size of each fire service pipe as it enters each building and each private fire hydrant on the premises.

	<u>Service Size (in)</u>	<u>Per Quarter</u>	<u>Per Month</u>
For each:	1½ or less	\$ 4.40	\$ 1.42
	2	9.42	3.09
	2½	16.93	5.62
	3	27.38	9.11
	4	58.41	19.44
	5	105.07	34.99
	6	169.73	56.56
	8	361.76	120.55
	10	650.57	216.86
	12	1,050.87	350.27

TERMS

- (a) Bills shall be rendered either quarterly or monthly, and shall be due and payable upon presentation.
- (b) Late payment charges and other expenses shall be computed as specified under Miscellaneous Charges.

Issued: June 25, 2020

Effective: October 1, 2020

FIRE PROTECTION – MUNICIPAL/TOWNS

RATE SCHEDULE – “FP-M-T”

AVAILABILITY

This rate is available for municipal fire protection in communities served outside of Manchester.

RATE

The charge, billed quarterly in arrears, for municipal fire service to the Town shall be as follows:

Rate per Quarter

\$169.74 per Hydrant

TERMS OF PAYMENT

- (a) Bills shall be rendered quarterly (April, July, October, January), and are due and payable upon presentation.
- (b) Late payment charges and other expenses shall be computed as specified under Miscellaneous Charges.

Issued: June 25, 2020

Effective: October 1, 2020

MISCELLANEOUS SERVICE CHARGES

RATE SCHEDULE – “MSC”

1. **Applicability**

The charge shall apply to regular service and private fire service provided to all customers.

2. **Application Fee for Fire and Domestic Service**

(1)	Water Service	\$100.00
(2)	Private Fire Protection	\$ 50.00

3. **Late Payment Charge**

- (a) A late payment charge shall be added to any bill where payment therefor has not been received by the Utility within thirty (30) days of issuance, and shall be five percent (5%) of any unpaid balance of one dollar (\$1.00) or more.
- (b) The late payment charge shall be applied on a monthly or quarterly basis depending upon the customer's regular billing period.
- (c) Bills are due and payable when rendered and subject to the same shutoff provisions as for nonpayment of bills. Terms are Net 30 Days. A finance charge of 1½% (18% per year) will be charged 30 days after the date of bills.

4. **Seasonal Use**

A charge of fifty-five dollars (\$55.00) shall be applied to the customer's bill for installing the meter and turning on the water, and a separate charge of fifty-five dollars (\$55.00) shall be applied to the customer's bill for removing the meter and turning off the water.

5. **Restoration of Service**

A charge of seventy-five dollars (\$75.00) will be collected from a customer when water service or private fire service is restored after being shut off for non-payment of a Utility bill, fraudulent use, or for any other reason specified in this tariff.

Restoration of service “after normal work hours” will be collected from a customer at a charge of two hundred twenty-five dollars (\$225.00).

6. **Repairs to Frozen Meters**

The Customer shall be charged the full costs of repairing a frozen meter located on his premises, but in no case shall such charge be less than one hundred seventy dollars (\$170.00) for each repair.

Issued: November 21, 2019

Effective: November 21, 2019

7. Collection of Delinquent Bills

A charge of fifty dollars (\$50.00) will be collected from a customer whenever a Utility agent makes collection at a customer's premises for a delinquent bill.

8. Bad Checks

A charge of thirty dollars (\$30.00) shall be applied to a customer's bill whenever the Utility receive a check which is not immediately cleared for deposit by the Utility's financial institution.

9. Testing of Backflow Prevention Devices

A charge shall be applied to a customer's bill for each test conducted by the Utility of the customer's backflow prevention device as follows:

PVB	\$30.00
RPZ	\$75.00
DCVA	\$75.00

10. Hydrants or Other Temporary Service

- (a) The charge for water supplied from the connection in the Utility yard on Lincoln Street or from a hydrant shall be applied as follows:

\$3.00 per 1,000 gallons

In addition, a \$25.00 per load processing charge shall be added to the cost for each load of water taken regardless of the volume.

- (b) The charges for use of any hydrant or other temporary water source shall be as follows:

(1) Application Fee \$ 15.00

(2) Adapter deposit (excluding pool filling):

(i)	Hydrant meter	\$1,500.00
(ii)	2 ½ inch adapter	\$ 250.00
(iii)	¾ inch adapter	\$ 50.00

(3) Adapter Installation or Removal During Normal Working Hours

(i) All adapters and hydrant meter \$ 30.00

- (4) Per diem charges for unmetered use
 - (i) 3/4 inch adapter \$ 15.00
 - (ii) 2½ inch adapter \$ 45.00
 - (iii) Hydrant meter \$ 20.00 plus water used
 - (iv) Water for any other use: the Utility may enter an agreement based on prevailing rates.

- (c) Hydrant Flow Test \$200.00

11. Main Extension Charges

- (a) Application fee for main installation \$200.00
- (b) Administrative fee for non-participating abutters of property under assessment requesting connection to a main pipe previously installed unless covered by specific contract terms and conditions. \$150.00

12. Connection of Service Pipe to a Main Extension

- (A) The following connection charges shall be paid at the time of service application by all customers. The charges, as specified below, shall be based upon the size of the service pipe and meter to be installed.

- (1) The cost of service pipe installation, including labor, material, equipment and overhead expenses. A deposit reflecting such estimated cost shall be paid at the time of service application and any difference shall be refunded to the customer or billed by the Utility.

- (2) A charge for installation of the meter are as follows:

<u>Meter Size</u>	<u>Charge</u>	<u>Frozen</u>
5/8 x 3/4 inch	\$ 280.00	\$ 170.00
3/4 inch	\$ 340.00	\$ 230.00
1 inch	\$ 400.00	\$ 300.00
1½ inch	\$1,140.00	\$ 640.00
2 inch	\$1,270.00	\$ 770.00
>2 inch	AT COST	AT COST

For meters larger than 2 inches, the charge shall equal the cost of the meter and the cost of installation of the meter.

- (3) For meter interface units, meter horns and check valves, the charge shall equal the cost of the equipment plus 10% markup.

- (4) A building charge, representing the cost of water used for a billing period during construction prior to meter installation, as follows:

<u>Meter Size</u>	<u>Charge</u>
5/8 x 3/4 inch	\$ 45.00
3/4 inch	\$ 65.00
1 inch	\$105.00
1½ inch	\$210.00
2 inch	\$340.00
>2 inch	\$500.00

13. Miscellaneous Charges

The following charges shall be applied by the Utility for services rendered:

- | | | |
|-----|--|-----------|
| (a) | Final billing on ownership change | \$ 30.00 |
| | Final meter reading charge for ownership change | \$ 30.00 |
| | Reversal of final bill (in event of change to closing) | \$ 30.00 |
| (b) | Home inspections – leaks for unaccounted water during Utility’s regular working hours (No charge for first visit within the calendar year) | \$ 30.00 |
| (c) | Emergency request by customer to turn on or shut off water service outside the Utility’s regular working hours | \$ 225.00 |
| (d) | Customer requested meter test | \$ 50.00 |
| | If meter found to over-register by more than 3% or under-register per PUC 605-03(d) | NO COST |
| (e) | Duplicate bill fee | \$ 30.00 |
| (f) | Special request fee (i.e. payment history for tax prep) | \$ 15.00 |
| (g) | Check by phone processing charge | \$ 5.00 |
| (h) | Liens –administrative fee | \$ 30.00 |
| | Liens – Recording fee | \$ 12.50 |
| | Liens – Discharge fee | \$ 17.50 |
| (i) | Reading – irrigation water meters – cost per reading | \$ 2.50 |
| (j) | Photocopying – plans – per sheet | \$ 3.00 |
| (k) | 2 nd no show (once the technician leaves the property) | \$ 30.00 |

Issued: October 24, 2019

Effective: October 24, 2019

Manchester Water Works
 Rules and Regulations

(n) Water samples:

	<u>Method Used</u>	<u>Price</u>	<u>Container</u>	<u>Turnaround Time (normal)</u>
<u>Metals:</u>				
By Furnace	SM 3113 B	\$12/sample	1L Plastic	7 – 14 days
By Flame	SM 3111 B	\$12/sample	1L Plastic	7 – 14 days
<u>Inorganics and others:</u>				
pH	SM 4500 H+ B	\$7/sample	P or G	2 days
Anions (Nitrate Nitrite, O-phosphate, Sulfate)	HACH methods	\$7/each	P or G	5 – 10 days
Conductivity	SM 2510 B	\$7/sample	P or G	2 days
Turbidity	SM 2310 B	\$10/sample	P or G	2 days
Color	HACH Method	\$7/sample	P or G	2 days
Alkalinity	HACH Method	\$13/sample	P or G	5 – 10 days
Hardness, T	HACH Method	\$13/sample	P or G	5 – 10 days
Hardness, Ca	HACH Method	\$13/sample	P or G	5 – 10 days
Residual Cl2 (Free or total)	HACH Method	\$7/each	P or G	On-site
Mono & NH3	HACH Method	\$10/sample	P or G	On-site
UV-254	HACH Method	\$7/sample	P or G	5 – 10 days
Fluoride	HACH 8029	\$10/sample	P	5 – 10 days
<u>Microbiology:</u>				
Colilert P/A 100 mls	SM 9223 + UV	\$13/sample	Sterile bottle	2 days
18 Hour P/A	SM 9223 + UV	\$13/sample	Sterile bottle 100 mls	2 days
Colilert MPN	SM 9223 MPN	\$20/sample	Sterile bottle 100 mls	2 days
Standard Plate Count	SM 9215 B	\$15/sample	Sterile container	3 days
<u>Carbon analysis:</u>				
Apparent Density		\$55/sample	Plastic	14 – 21 days
Iodine Number		\$125/single	P	14 – 21 days
		\$175/2		
Ash		\$30/sample		14 – 21 days

14. Service Disconnection

Upon request by the customer for termination of service, the Utility shall, in its sole discretion, determine if the disconnection poses risk or liability to either the Utility or the public. If it determines risk or liability is possible, the Utility may, at the Customer's expense, take such actions as may be appropriate to reduce the risk or liability.

Issued: November 29, 2018

Effective: January 1, 2019

MERRIMACK SOURCE DEVELOPMENT CHARGE

RATE SCHEDULE – “MSDC”

CHARACTER OF SERVICE

The Merrimack Source Development Charge ("MSDC") is assessed in accordance with RSA 38:27 and RSA 38:28 for the purpose of constructing, acquiring, improving, enlarging and/or operating the Manchester Water Works' system. Specifically, all funds collected from the Charge will be utilized to develop the Merrimack River as an additional source of supply for the Water Works.

RATES

The one-time charge will be based on the size of the water meter that is required to meet flow requirements at the installation.

<u>Meter Size</u>	<u>MSD CHARGE</u>
5/8"	\$1,157
3/4"	\$2,256
1"	\$3,321
1½"	\$8,712
2"	\$15,388

For installations 3" and larger, the charge will be \$3.90 per gallon, per day. The flow, gallons/day, will be determined by the Utility. For installations where an oversized meter is necessary due to pressure considerations, the charge will be based on the size of the meter required under normal pressure conditions, as determined by the Utility. In accordance with the financial plan adopted by the Utility, the MSDC shall be increased 3% annually effective each January 1st.

TERMS:

Bills for this service shall be rendered in advance and payment shall be received before main and services are installed.

Issued: December 17, 2020

Effective: January 1, 2021

WATER USE RESTRICTIONS AND PENALTIES

The following penalties for violations of water use restrictions are applicable only during a severe drought or other water supply shortage during a declared Emergency or Disaster by the Board of Water Commissioners of the Manchester Water Works. Once declared, the need for continuation of such restrictions shall be reviewed monthly by the utility and notice of which shall be published in the Manchester Union Leader. The primary purpose of such declaration and issuing penalties by the Board of Water Commissioners shall be to protect, preserve and maintain the public health, safety and welfare of the customers and communities served.

Declared Emergency – Level III

After continued violation of restriction confirmed by Manchester Water Works following written warning, the customer shall be assessed a penalty in the amount of \$50.00/day. Continued violations shall result in service termination in accordance with Commission Rules.

Declared Disaster – Level IV

After confirmation by Manchester Water Works of violation of restriction, the customer shall be assessed a penalty in the amount of \$100.00/day and service shall be immediately terminated in accordance with Commission Rules.

Restrictions that include but shall not be limited or restricted to which may be imposed by the Board of Water Commissioners depending on the drought severity are lawn irrigation, curbside vehicle washing, pool filling, hosing of hard surfaces and use of water from public or private hydrants for non-emergency purposes.

Issued: May 29, 2002

Effective: May 29, 2002

FRONT FOOT CHARGE

The front foot charge shall be used in conjunction with Article 14 for all Main Pipe Extensions. The charge shall be adjusted annually utilizing the previous December ENR Construction Cost Index.

December 2020
ENR/CCI

11,579

2021 Front Foot Charge

\$44.26

Issued: December 17, 2020

Effective: January 1, 2021

	Approved DW19-084 Revenues per Order#			QCPAC For 2019 Capital Additions		QCPAC For 2020 Capital Additions pro forma			QCPAC Surcharge for 2020 Capital Additions			QCPAC For 2021 Capital Additions pro forma			QCPAC Surcharge for 2021 Capital Additions			QCPAC For 2022 Capital Additions pro forma			QCPAC Surcharge for 2022 Capital Addition			QCPAC For 2023 Capital Additions pro forma			QCPAC Surcharge for 2023 Capital Additions			
City Bond Fixed Revenue Requirement (CBFRR)	\$	7,729,032		\$	-		\$	7,729,032	\$	-		\$	7,729,032	\$	-		\$	7,729,032	\$	-		\$	7,729,032		\$	7,729,032		\$	7,729,032	
DW19-084 Operating Expense Revenue Requirement	\$	21,296,618	(1)	\$	416,593		\$	21,713,211	\$	155,083	(4)	\$	21,868,294	\$	268,528	(4)	\$	22,136,822	(4)	\$	290,383		\$	22,427,204		\$	257,112		\$	22,684,316
DW19-084 Annual Principal and Interest Payments	\$	6,176,477	(2)	\$	854,442		\$	7,030,919	\$	351,395	(5)	\$	7,382,314	\$	637,999		\$	8,020,313		\$	591,984		\$	8,612,297		\$	568,586		\$	9,180,882
Principal and Interest Coverage Requirement		1.10	(3)					1.10					1.10					1.10					1.10							1.10
DW19-084 Principal and Interest Revenue Requirement	\$	6,794,124					\$	7,734,011				\$	8,120,546				\$	8,822,344				\$	9,473,526					\$	10,098,970	
DW19-084 Revenue Requirement	\$	35,819,774					\$	37,176,254				\$	37,717,871				\$	38,688,198				\$	39,629,763					\$	40,512,318	
DW19-084 Revenue Requirement less Other Revenues	\$	35,399,062	(12)				\$	36,755,541				\$	37,297,159				\$	38,267,486				\$	39,209,050					\$	40,091,606	
DW19-084 Revenue Requirement less Other Revenues less Fixed Special Contract Revenues	\$	34,792,618	(8)				\$	36,149,098				\$	36,690,716	(8)			\$	37,661,042	(8)			\$	38,602,607					\$	39,485,163	
Percent QCPAC Surcharge (9)								3.90%					1.56%					2.79%					2.71%						2.54%	
Cumulative QCPAC Surcharge (13)								3.90%					5.46%					8.24%					10.95%						13.49%	
Cumulative QCPAC monthly increase in average single family residential bill.							\$	2.17				\$	3.04				\$	4.59				\$	6.09					\$	7.51	
Average monthly single family residential bill with QCPAC.	\$	55.65					\$	57.82				\$	58.69				\$	60.24				\$	61.75					\$	63.16	

Notes:

- (1) Operating Expense Revenue requirement is the sum of the Total Operating Expenses, Property Tax Expense, Amortization Expense and Payroll Tax Expenses approved in NHPUC Order #26,425.
- (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 30 year bond with interest rate of 4.056692% based on a bond issuance in April 2021
- (6) QCPAC Principal and Interest expenses are based on 30 year bond with interest rate of 4.00% for 2021 through 2023 Capital Expenditures unless funding is via an SRF/DWGTf financing.
- (7) QCPAC percent revenue surcharges based on increase in revenues from the revenues granted in DW19-084
- (8) Reduction in revenues associated with fixed contracts as follows: Hudson Annual Fixed Chg \$ 32,800 Milford Annual Fixed Chg \$ 81,000 A-B Annual Fixed Chg \$ 371,430 PEU Annual Fixed Chg \$ 121,213
- (9) QCPAC Principal and Interest expenses for DWGTf financing are based on a 30 year bond with interest rate of 2.704% for the Nothwest system projects and 3.38% for the Merrimakck River Intake project.
- (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 \$ 420,712
- (13) QCPAC percent revenue surcharges based on revenues approved in DW19-084.

Impact on Single Family Residential Home:	DW19-084
Monthly meter charge approved in DW19-084 -	\$ 24.34
Average Single Family Consumption per DW19-084 (CCF) -	7.77
Volumetric Charge approved in DW#19-084 -	\$ 4.03
Ave. Single Family monthly bill with rates approved in DW19-084 -	\$ 55.65

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

PWW QCPAC Filing
Exhibit DLW-1
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Project Name/Description	Project Description	Work Order #	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	Tax Rate (l)	QCPAC Eligible Property Tax Expense (Based on Qrly Update)	Explanation for Change/Addition/Deletion since Petition Filing
New Services (10)	Single Family, Owner Build, New Homes	20 workorders	DW17-183	26,101	2/2/2018	\$ 46,000	\$ 46,000	Yes	\$ 69,936	Various	Yes	\$ 27.02	\$ 1,890	12 installed through 12/31.
Renewed Services (20)	Replacement of failed services	21, 22 & 23 workorders	DW17-183	26,101	2/2/2018	\$ 92,000	\$ 92,000	Yes	\$ 101,648	Various	Yes	\$ 27.02	\$ 2,747	29 installed through 12/31.
Hydrants (10)	Replacement of non-functional hydrants	30 & 31 workorders	DW17-183	26,101	2/2/2018	\$ 50,000	\$ 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	2/2/2018	\$ 40,000	\$ 40,000	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	\$ 30,000	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 (Growth) 5/8"-2" - Core & CWS (480)	50 workorders	DW17-183	26,101	2/2/2018	\$ 48,000	\$ 48,000	Yes	\$ 207,025	Various	Yes	\$ 27.02	\$ 5,594	1732 installed/repalced through 12/31.
Meters 5/8"-6" Lead Meter Exchange - Core & CWS (3000)	Meters 5/8"-6" Lead Meter Exchange - Core & CWS (3000)	50 workorders	DW17-183	26,101	2/2/2018	\$ 300,000	\$ 300,000	Yes		Various	Yes	\$ 27.02	\$ -	
Entrance Security Gate & Perimeter Fence	Entrance Security Gate & Perimeter Fence	1901598	DW17-183	26,101	2/2/2018	\$ 75,000	\$ 75,000	Yes	\$ 66,204	Merrimack	Yes	\$ 28.86	\$ 1,911	
Replace 13 yr Vac Trailer - Safety & Maint issue	Replace 13 yr Vac Trailer - Safety & Maintenance issue	1917721	DW17-183	26,101	2/2/2018	\$ 100,000	\$ -	Yes	\$ 29,710	Merrimack	Yes	\$ 28.86	\$ 857	Then Company was leasing a vac machine for 2019. It was decided to buy out the lease.
Protectus Meter Upgrade	Spitbrook Rd Protectus Meter Upgrade	n/a	DW17-183	26,101	2/2/2018	\$ 21,000	\$ 21,000	Yes	\$ -	Nashua	Yes	\$ 26.23	\$ -	Deferred until 2020.
Pipe Freeze Kits (2)	RoFrost Turbo 2 Electric Pipe Freeze Kits	1915135	DW17-183	26,101	2/2/2018	\$ -	\$ 7,400	Yes	\$ 6,970	Nashua	No	\$ 26.23	\$ -	Existing I'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	\$ -	\$ 17,500	Yes	\$ 15,888	Nashua	No	\$ 26.23	\$ -	Existing units have failed and parts for repair are not available.
Network Digital Display for Distribution Department	Relocate & network display to Assignment room & new 75" display in Conference Room.	1917719	0.1 DSRR			\$ 2,700		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			Yes	\$ 7,460	Merrimack	No	\$ 28.86	\$ -	
2018 Dodge Ram 2500 (#313)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907613	0.1 DSRR			\$ -	\$ 1,969	No	\$ 1,969	Merrimack	No	\$ 28.86	\$ -	
2018 Dodge Ram 2500 (#314)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907612	0.1 DSRR			\$ -	\$ 1,969	No	\$ 1,969	Merrimack	No	\$ 28.86	\$ -	
2018 Dodge Ram 2500 (#315)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907615	0.1 DSRR			\$ -	\$ 2,542	No	\$ 2,542	Merrimack	No	\$ 28.86	\$ -	
2018 Dodge Ram Promaster 1500 Cargo Van (#347)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907987	0.1 DSRR			\$ -	\$ 1,060	No	\$ 1,060	Merrimack	No	\$ 28.86	\$ -	
2018 Dodge Ram Promaster 1500 Cargo Van (#348)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907988	0.1 DSRR			\$ -	\$ 1,060	No	\$ 1,060	Merrimack	No	\$ 28.86	\$ -	
2018 Dodge Ram Promaster 1500 Cargo Van (#349)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907989	0.1 DSRR			\$ -	\$ 1,060	No	\$ 1,060	Merrimack	No	\$ 28.86	\$ -	
Meter Data Logging Equipment	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907885	0.1 DSRR			\$ -	\$ 2,849	No	\$ 2,850	Various	Yes	\$ 27.02	\$ 77	Equipment used in leak detection.
Gilman Street	Replace 1470 LF of 8 inch CI with 12 inch DIPCL.	1607377, 1702856, 1806433, 1901176	DW17-183	26,101	2/2/2018	\$ 550,000	\$ 615,000	Yes	\$ 661,270	Nashua	Yes	\$ 26.23	\$ 17,345	Pavement contribution to the City of Nashua paid in 2018 (\$127,264).
Elm Street	Replace 875 LF of 6 inch CI with 12 inch DIPCL.	1702871, 1812907, 1901599	DW17-183	26,101	2/2/2018	\$ 559,350	\$ 255,000	Yes	\$ 373,328	Nashua	Yes	\$ 26.23	\$ 9,792	Pavement contribution to City of Nashua of \$67,650 included.
Monroe Street	Replace 310 LF of 4 inch CI with 8 inch DIPCL.	1702866, 1812908, 1901602	DW17-183	26,101	2/2/2018	\$ 122,270	\$ 120,000	Yes	\$ 97,541	Nashua	Yes	\$ 26.23	\$ 2,558	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	\$ 1,624	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 Sunday nights. 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	\$ 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	DWGTIF Financing DW18-133	26,197	12/3/2018	\$ 660,000	\$ 660,000	Yes	\$ 507,141	Nashua	Yes	\$ 26.23	\$ 13,302	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				\$ 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				\$ 522,500	\$ 522,500	Yes	\$ 369,378	Nashua	Yes	\$ 26.23	\$ 9,689	Adjusted cost based on final installed materials in 2020 - some work will carry over into 2021.
NWS Improvements - 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	Add 2200 LF of 12 inch DIPCL to close two loop major dead ends.	1901611				\$ 484,000	\$ 484,000	Yes	\$ -	Nashua	Yes	\$ 26.23	\$ -	Project cancelled and replaced with piping in projects above.
NWS Improvements - Engineering Design and Inspection	Engineering and Inspection of NW System watermain improvements.		0.1 DSRR			Included in NWS Improvements above	Included in NWS Improvements above	No	\$ 174,347	Nashua	Yes	\$ 26.23	\$ 4,573	
City of Nashua Sewer - Chase Street	Replace 470 LF of 6 inch CIP with 470 LF of 6 inch DIPCL.	1829925, 1900484	DW17-183	26,101	2/2/2018	\$ 176,000	\$ 190,000	Yes	\$ 175,570	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	\$ 1,710,500	Yes	\$ 1,608,850	Nashua	Yes	\$ 26.23	\$ 42,200	Pavement contribution to City of Nashua of \$344,000 included.
City of Nashua Paving - Vina 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	\$ -	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	Nashua	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 parallel 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 - Ferrylls 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	\$ 1,364	Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - 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	Nashua	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	2/2/2018	\$ -	\$ 13,000	Yes	\$ 6,549	Nashua	Yes	\$ 26.23	\$ 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	2/2/2018	\$ -	\$ 1,400	Yes	\$ 486	Nashua	Yes	\$ 26.23	\$ 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	2/2/2018	\$ -	\$ 215,100	Yes	\$ 174,754	Nashua	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	2/2/2018	\$ -	\$ 24,500	Yes	\$ 1,402	Nashua	Yes	\$ 26.23	\$ 37	Final paving bill for this project.
City of Nashua Paving - Lemon St - Carry over from 2017	Paving only - Carry over from 2017.	1702875, 1915858	DW17-183	26,101	2/2/2018	\$ -	\$ 24,850	Yes	\$ 18,316	Nashua	Yes	\$ 26.23	\$ 480	Final paving bill for this project.
City of Nashua Paving - Lowell St - Carry over from 2017	Paving only - Carry over from 2017.	1915857	DW17-183	26,101	2/2/2018	\$ -	\$ 37,000	Yes	\$ 37,084	Nashua	Yes	\$ 26.23	\$ 973	Final paving bill for this project.
City of Nashua Paving - Green St - Carry over from 2017	Paving only - Carry over from 2017.	1915844	DW17-183	26,101	2/2/2018	\$ -	\$ 10,000	Yes	\$ 8,906	Nashua	Yes	\$ 26.23	\$ 234	Final paving bill for this project.
City of Nashua Paving - Beard St - Carry over from 2017	Paving only - Carry over from 2017.	1915845	DW17-183	26,101	2/2/2018	\$ -	\$ 25,900	Yes	\$ 21,689	Nashua	Yes	\$ 26.23	\$ 569	Final paving bill for this project.
City of Nashua Paving - Terrace St - Carry over from 2017	Paving only - Carry over from 2018.	1915843	DW17-183	26,101	2/2/2018	\$ -	\$ 20,500	Yes	\$ 10,600	Nashua	Yes	\$ 26.23	\$ 278	Final paving bill for this project.
City of Nashua Paving - Warren St - Carry over from 2017	Paving only - Carry over from 2017.	1702870, 1915842	DW17-183	26,101	2/2/2018	\$ -	\$ 19,500	Yes	\$ 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, 1901612, 1908505	DWGTIF Financing DW19-026	26,247	5/3/2019	\$ 5,500,000	\$ 6,600,000	Yes	\$ 6,299,764	Merrimack	Yes	\$ 28.86	\$ 181,811	Bids higher than Engineers estimate due to tight contractor market and changes in final permit requirements that impacted initial design that engineers estimate was based on. An estimated amount of \$362,000 of clean up work to be carried into 2020.
Asset Management Outside GIS Consulting Services	Outside GIS Consulting Services	1900414	DW17-183	26,101	2/2/2018	\$ 60,000	\$ 60,000	Yes	\$ 7,961	Various	No	\$ 27.02	\$ -	
Asset Management Water Modeling Consulting	Water Modeling Consulting	1900414	DW17-183	26,101	2/2/2018	\$ 36,000	\$ 36,000	Yes	\$ -	Various	No	\$ 27.02	\$ -	
Asset Management Trimble R2 Units	Trimble R2 Units	1900414	DW17-183	26,101	2/2/2018	\$ 14,000	\$ 14,000	Yes	\$ -	Various	Yes	\$ 27.02	\$ -	
WAM/Synergen Upgrade Cost & Functionality Study	WAM/Synergen Upgrade Cost & Functionality Study	1900568, 1910219	0.1 DSRR			\$ -	\$ 45,000	No	\$ 27,804	Various	No	\$ 27.02	\$ -	Study to select replacement of Synergn CMMS system which goes unsupported at the end of 2020.
Investment in developer installed services at 1xannual revenue	Per tariff	n/a	DW17-183	26,101	2/2/2018	\$ 60,000	\$ 60,000	Yes	\$ 90,434	Various	Yes	\$ 27.02	\$ 2,444	
2019 Ford Escape	Replace Totaled 2015 Ford Escape	1907481	DW17-183	26,101	2/2/2018	\$ -	\$ 23,998	Yes	\$ 23,998	Merrimack	No	\$ 28.86	\$ -	Vehicle in accident. Vehicle totalled and needed to be replaced.
Bower Dam reconstruction and engineering	Bower Dam reconstruction and engineering	1824545, 1900432	0.1 DSRR			\$ 25,000	\$ 25,000	No	\$ -	Merrimack	No	\$ 28.86	\$ -	Design Engineering Work for 2020 Dam rehabilitation
Bowers Dam Letter of Deficiency 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 Deficiency 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 Defiency design/analysis	Perform Hydraulic and Hydrology analysis, design improvements to address spillway capacity.	1907077	0.1 DSRR				\$ 35,000	No	\$ -	Merrimack	No	\$ 28.86	\$ -	Letter of deficiency issued by the NHDES Dam Bureau regarding inadequate spill

Well Pump replacements	Well Pump replacements	60, 61, 62 & 63 workorders	DW17-183	26,101	2/2/2018	\$ 15,000	\$ 15,000	Yes	\$ 16,995	Various	Yes	\$ 27.02	\$ 459	4 replaced through 12/31/2019.
Chemical Feed pump replacements	Chemical Feed pump replacements	60, 61, 62 & 63 workorders	DW17-183	26,101	2/2/2018	\$ 10,000	\$ 10,000	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	Plastow	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	\$ -	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	\$ -	\$ 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.
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased	n/a	DW17-183	26,101	2/2/2018	\$ 17,500	\$ 9,928	Yes	\$ -	Various	Yes	\$ 27.02	\$ -	
Miscellaneous Equipment Purchased	Purchase 2 Gas Monitors for WS Confined Space Program.	1907611	DW17-183	26,101	2/2/2018	\$ -	\$ 4,568	Yes	\$ 4,568	Nashua	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	\$ -	\$ 3,004	Yes	\$ 3,004	Nashua	Yes	\$ 26.23	\$ 79	Routine Miscellaneous Equipment purchase
Miscellaneous Equipment Purchased	Replace Chlorine Analyzer, Twin Ridge	1915362	DW17-183	26,101	2/2/2018	\$ -	\$ -	Yes	\$ 4,449	Nashua	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	\$ -	\$ -	Yes	\$ 2,118	Various	Yes	\$ 27.02	\$ 57	
WTP Structural/HVAC	WTP Structural/HVAC	n/a	DW17-183	26,101	2/2/2018	\$ 10,000	\$ 10,000	Yes	\$ -	Nashua	Yes	\$ 26.23	\$ -	
WTP Structural/HVAC	Replace Heat Exchanger, WTP Office	1917470	DW17-183	26,101	2/2/2018	\$ -	\$ -	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	\$ -	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.
Carbon media changeout-filters 1 & 2.	Carbon media changeout-filters 1 & 2	1901614 & 1916780	DW17-183	26,101	2/2/2018	\$ 1,000,000	\$ 1,050,000	Yes	\$ 990,662	Nashua	Yes	\$ 26.23	\$ 25,985	New PFAS regulations require that all filter media be changed out to ensure compliance with the new PFOA standard which is slated to go into effect on October 1, 2019. Filter media replacement being staged over 6 month intervals. 8 of 12 filters to be replaced in 2019, remaining four filters to be replaced in Spring 2020.
Add 3rd pump at Main Dunstable Booster, replace 1 existing.	Add 3rd pump at Main Dunstable Booster, replace 1 existing.	n/a	DW17-183	26,101	2/2/2018	\$ 120,000	\$ -	Yes	\$ -	Nashua	Yes	\$ 26.23	\$ -	Addition of 3rd pump deferred or eliminated 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	\$ -	\$ -	Yes	\$ 15,995	Nashua	Yes	\$ 26.23	\$ 420	
Replace Kessler Farm booster pump package.	Replace 20 year old package booster station pumps and piping. Piping is steel which is beginning to pit.	n/a	DW17-183	26,101	2/2/2018	\$ 75,000	\$ 75,000	Yes	\$ -	Nashua	Yes	\$ 26.23	\$ -	Project deferred until 2020
Stump Pond Subwatershed assessment	Stump Pond Subwatershed assessment	n/a	0.1 DSRR			\$ 25,000	\$ 25,000	No	\$ -	Merrimack	No	\$ 28.86	\$ -	Study - Pay for with 0.1 DSRR
Stump Pond Stormwater BMP	Stump Pond Stormwater BMP	1908373	0.1 DSRR			\$ 20,000	\$ 20,000	No	\$ 1,310	Merrimack	No	\$ 28.86	\$ -	Study - Pay for with 0.1 DSRR
Public Education -Watershed signage	Public Education -Watershed signage	n/a	0.1 DSRR			\$ 20,000	\$ 20,000	No		Merrimack	No	\$ 28.86	\$ -	Study - Pay for with 0.1 DSRR
Replace 2 Hach Turbidimeters and associated control module	Replace 2 Hach Turbidimeters and associated control module.	1901618	DW17-183	26,101	2/2/2018	\$ 10,000	\$ 10,000	Yes	\$ 7,978	Nashua	Yes	\$ 26.23	\$ 209	
Camera System Upgrade	Carryover Costs from 2018 Project.	1819073, 1900413	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 Comcast Ethernet line to one of the buildings.	1901619	DW17-183	26,101	2/2/2018	\$ 40,000	\$ 40,000	Yes	\$ 22,896	Nashua	Yes	\$ 26.23	\$ 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.
KVM for Data Center	Keyboard Video Mouse for Data Center so that multiple servers can be accessed by one console without having to move the Monitor/Keyboards/ Mouse connections each time.	n/a	DW17-183	26,101	2/2/2018	\$ 2,500	\$ -	Yes	\$ -	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	\$ -	Merrimack	No	\$ 28.86	\$ -	
Digital Signage for Distribution	Digital Signage for Distribution allowing notices and schedules to be more prominently displayed.	1908376	0.1 DSRR	26,101	2/2/2018	\$ 2,000	\$ 1,270	No	\$ -	Merrimack	No	\$ 28.86	\$ -	
VDI Pilot	A pilot to determine whether a Virtual Desktop Infrastructure would be feasible for our environment.	n/a	DW17-183	26,101	2/2/2018	\$ 12,000	\$ -	Yes	\$ -	Merrimack	No	\$ 28.86	\$ -	
Misc Hardware	Misc Hardware	n/a	DW17-183	26,101	2/2/2018	\$ 20,000	\$ 20,000	Yes	\$ -	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			\$ -	\$ -	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	\$ -	Merrimack	No	\$ 28.86	\$ -	
Website upgrades	Website upgrades	n/a	DW17-183	26,101	2/2/2018	\$ 8,000	\$ 8,000	Yes	\$ -	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	\$ -	Merrimack	No	\$ 28.86	\$ -	Deferred
Click Resource Assistant	Allow for the moving of customer Appointment from an generic resource to a named resource.	1907952	0.1 DSRR			\$ -	\$ 22,828	No	\$ 22,828	Merrimack	No	\$ 28.86	\$ -	
Database Server License for GIS and other Apps	Purchase Server license for Virtual Environment.	1915920	DW17-183	26,101	2/2/2018	\$ -	\$ -	Yes	\$ 7,305	Merrimack	No	\$ 28.86	\$ -	Previously licensed software was not suitable for Virtual environment.
Veeam Backup Software	Replacement of existing backup software due to exorbitant vendor fees to keep original system running.	1909216	0.1 DSRR			\$ -	\$ 25,550	No	\$ 15,530	Merrimack	No	\$ 28.86	\$ -	
New RCO Manager Computer	New RCO Manager Computer	1917001	0.1 DSRR			\$ -		No	\$ 1,797	Merrimack	No	\$ 28.86	\$ -	Replace failed desktop computer.
Kessler Farm Tank Design	Kessler Farm Tank Design	1915117	0.1 DSRR	26,101	2/2/2018	\$ -		No	\$ 36,355	Nashua	No	\$ 26.23	\$ -	Engineering for tank to be constructed in 2020.
Retainage	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.
Short term interest on the PWW Fixed Asset Line of Credit.	Capitalized interest incurred on FALOC draws to fund 2019 Capex from 1/1/2019 thru 4/2/2020.		DW17-183	26,101	2/2/2018	\$ -	\$ -	Yes	\$ 230,645	Various	No		\$ -	
Performance Management Platform Implementation & Technical Integration	Performance Management Platform Implementation & Technical Integration	1916551	DW17-183	26,101	2/3/2018	\$ -	\$ -	Yes	\$ 13,804	Merrimack	No	\$ 28.86	\$ -	
Papercut MF Software for copiers	Papercut MF Software for copiers	1918363	DW17-183	26,101	2/3/2018	\$ -	\$ -	Yes	\$ 3,708	Merrimack	No	\$ 28.86	\$ -	
Pennichuck Water Works Projected 2019 Total Capital Expenditure Budget -						\$ 14,968,170	\$ 16,902,524		\$ 15,801,867	Projected Property Tax Expense associated with		\$ 416,593		

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

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

12/31/2019			
\$ 427,640	The 12/31/2019 0.1 DSRR amount has been increased by	\$ 21,175	
	to reflect the Staff DR21 response indicating that		
	of the project costs being funded with DWGTF is being funded with 0.1 DSRR monies.		
30 year bond with an actual total all in interest rate of	4.261869%	resulting in annual P&I expenses of	\$ 427,022
30 year bond with interest rate of	2.704%	resulting in annual P&I expenses of	\$ 140,376
30 year bond with interest rate of	3.380%	resulting in annual P&I expenses of	\$ 287,045

3. 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
4. QCPAC Principal and Interest expenses for DWGTF financing for the North West System improvements are based on a
5. QCPAC Principal and Interest expenses for DWGTF financing for the Merrimack River Intake are based on a

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Board Approved 2020 Capex Budget	QCPAC Eligible?	Estimated Project Cost as of 11/30/2020	Final Project cost as of 12/31/2020	Community	Taxable	2020 Tax Rate (%)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion from Board Approved 2020 Capex Budget
New Services (10)	Single Family, Owner Build, New Homes	20 workorders	DW17-183	26,101	2/2/2018	\$ 50,000	Yes	\$ 31,090	\$ 36,746	Various	Yes	\$ 28.45	\$ 1,045	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	\$ 68,052	\$ 68,052	Various	Yes	\$ 28.45	\$ 1,936	19 Renewed Services Installed through 12/31/2020.
Hydrants (10)	Replacement of non-functional hydrants (Run rate) (8 YTD)	30 & 31 workorders	DW17-183	26,101	2/2/2018	\$ 60,000	Yes	\$ 48,000	\$ 41,401	Various	Yes	\$ 28.45	\$ 1,178	9 Hydrants Repaired/Replaced through 12/31/2020.
Gates (10)	Replacement of Failed Gate Valves	12 & 13 workorders	DW17-183	26,101	2/2/2018	\$ 40,000	Yes	\$ 40,000	\$ 43,189	Various	Yes	\$ 28.45	\$ 1,229	12 Gates Repaired/Replaced through 12/31/2020.
Radios (560)	Replacement of out of Warrantee Failed Radios (280), New Meters for new customers (280).	54 workorders	DW17-183	26,101	2/2/2018	\$ 58,000	Yes	\$ 51,000	\$ 50,832	Various	Yes	\$ 28.45	\$ 1,446	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	\$ 96,000	\$ 94,393	Various	Yes	\$ 28.45	\$ 2,686	631 Meters Installed/Replaced through 12/31/2020.
Meters 5/8"-6" - Replace failed meters - Core & CWS (200)	Meters 5/8"-6" - Replace failed meters - Core & CWS (200)	50 workorders	DW17-183	26,101	2/2/2018	\$ 21,000	Yes	-	-	Various	Yes	\$ 28.45	\$ -	Total included in row above.
Replace Mud sucker pump	Replace 15+ year old ditch pump.	2005200	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 6,356	\$ 6,356	Various	Yes	\$ 28.45	\$ 181	
Replacement Utility Truck	Replacement for #47 - 2006 Ford F-350, 130K miles Does not pass inspection.	2006391	DW17-183	26,101	2/2/2018	\$ 70,000	Yes	\$ 70,000	\$ 66,969	Merrimack	No	\$ 28.52	\$ -	
Replacement Utility Truck	Replacement 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	\$ 68,951	Merrimack	No	\$ 28.52	\$ -	
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	\$ 7,000	\$ 68,429	Merrimack	No	\$ 28.52	\$ -	
Valve Turner & Vac Truck	Replacemnt for #60 - 14 Year Vac Trailer w/excessive rot, will not pass inspection.	n/a	DW17-183	26,101	2/2/2018	\$ 160,000	Yes	\$ -	-	Merrimack	No	\$ 28.52	\$ -	Deferred. Not avialable due to impact of COVID19 on manufacturing.
Foreman's Truck	Replacement for #59 - 2011 International, 120K Miles, High Hours, Electrical, body issues.	2004436	DW17-183	26,101	2/2/2018	\$ 140,000	Yes	\$ 140,000	\$ 79,206	Merrimack	No	\$ 28.52	\$ -	Deferred until 2020.
Locker Room Benches @ Distribution Facility	Permanent Benches for Male & Female locker rooms.	n/a	DW17-183	26,101	2/2/2018	\$ 7,500	Yes	\$ -	-	Merrimack	Yes	\$ 28.52	\$ -	Deferred 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	\$ -	-	Merrimack	Yes	\$ 28.52	\$ -	Deferred until 2021 due to COVID19 delays.
Office Space for Const & Maint Supervisor	Permanent office space for Construction & Maintenance Supervisor.	n/a	DW17-183	26,101	2/2/2018	\$ 12,000	Yes	-	-	Merrimack	Yes	\$ 28.52	\$ -	Deferred until 2020 due to COVID19 delays.
Landscape improvements	Repair Hill Sides @ 16 DWH and overseed with erosion mix.	2008276	DW17-183	26,101	2/2/2018	\$ 12,000	Yes	\$ 12,550	\$ 15,350	Merrimack	Yes	\$ 28.52	\$ 438	
Automatic Entrance Gate @ Distribution Facility	Replace manual gate @ Distribution facility with automatic gate.	2000718		0.1 DSRRL		\$ 10,000	No	\$ -	\$ 3,083	Merrimack	Yes	\$ 28.52	\$ 88	Work delayed on long range gate reader until 2021, due to COVID19.
Emergency Gas Detection Meters	Emergency Gas Detection Meters	2006033	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 10,411	\$ 10,411	Merrimack	Yes	\$ 28.52	\$ 297	Replace existing failed trictector.
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	\$ 6,994	\$ 4,995	Merrimack	No	\$ 28.52	\$ -	
West Hollis Street Check Valve Pit	Install at the intersection of W. Hollis St and Panther Dr.	n/a	DW17-183	26,101	2/2/2018	\$ 88,000	Yes	\$ -	-	Nashua	Yes	\$ 27.13	\$ -	Deferred
NWS Improvements - Manchester Street	Install 1700 LF of 24 inch DI and new Fencing.	2000383		DW GTTF		\$ 125,000	Yes	\$ 86,000	\$ 85,059	Nashua	Yes	\$ 27.13	\$ 2,308	
NWS Improvements - Deerwood Dr. Northwest Blvd Loop	Add 3400 LF of 20 inch HDPE including RR pipe jacking.	2000386		DW GTTF		\$ 40,000	Yes	\$ 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		DW GTTF		\$ 125,000	Yes	\$ 125,000	\$ 125,566	Nashua	Yes	\$ 27.13	\$ 3,407	
NWS Improvements Tinker Road Paving and restoration	NWS Improvements Tinker Road Paving and restoration.	2000385		DW GTTF		\$ 125,000	Yes	\$ 126,000	\$ 125,458	Nashua	Yes	\$ 27.13	\$ 3,404	
Simon & Will Street - Paving	Simon & Will Street - Paving	2000387	DW17-183	26,101	2/2/2018	\$ 30,000	Yes	\$ -	-	Nashua	Yes	\$ 27.13	\$ -	Deferred
Garden Street - Final Paving	Garden Street - Final Paving	2000388	DW17-183	26,101	2/2/2018	\$ 18,000	Yes	\$ -	-	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	\$ -	\$ 10,589	Nashua	Yes	\$ 27.13	\$ 287	
Merrimack River Intake	Year Round Raw Water Intake from Merrimack River	2000380	DWGTTF Financing DW19-026	26,247	5/3/2019	\$ 140,375	Yes	\$ 192,109	\$ 140,375	Merrimack	Yes	\$ 28.52	\$ 4,003	Amount of MRI raw water intake funds still avialable from DWGTTF.
Merrimack River Intake	Year Round Raw Water Intake from Merrimack River	2000380	DW17-183	26,101	2/2/2018	\$ 221,625	Yes	\$ 260,000	\$ 253,590	Merrimack	Yes	\$ 28.52	\$ 7,232	Project cost increased by \$80,000 to develop Source Water Protection plan required by NHDES.
Replace Kessler Farm booster pump package	Replace 31 year old package booster station pumps and piping.	2000389	DW17-183	26,101	2/2/2018	\$ 75,000	Yes	\$ 188,000	\$ 190,901	Nashua	Yes	\$ 27.13	\$ 5,179	Budget to be increased as a portion of site work for the Kessler Farm Tank was transferred to this project. Winning project bid was higher than engineer's estimate.
Risk and Resilience Assessment and Emergency Response Plan	Complete Risk and Resilience Assessment and Emergency Response Plan as required by the USEPA.	2002053	DW17-183	26,101	2/2/2018	\$ 120,000	Yes	\$ 120,000	\$ 117,274	Various	No	\$ 28.45	\$ -	
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	\$ 56,448	Merrimack	Yes	\$ 28.52	\$ 1,610	
Brook 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.	1502511, 2003423	DW17-183	26,101	2/2/2018	\$ 380,000	Yes	\$ 276,000	\$ 257,109	Nashua	Yes	\$ 27.13	\$ 6,975	Restoration work slated for 2021 was completed in 2020.
Hamilton Street (Lake St Area PH2)	Replace 410 LF of 6 inch CI with 4 inch DIPCL.	1502512, 2003422	DW17-183	26,101	2/2/2018	\$ 87,000	Yes	\$ 137,000	\$ 126,068	Nashua	Yes	\$ 27.13	\$ 3,420	
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	\$ 146,800	\$ 134,733	Nashua	Yes	\$ 27.13	\$ 3,655	
Burritt Street (Lake St Area PH2)	Replace 125 LF of 4 inch CI with 4 inch DIPCL.	n/a	DW17-183	26,101	2/2/2018	\$ 38,000	Yes	\$ -	-	Nashua	Yes	\$ 27.13	\$ -	Included in row above.
Verona Street (Lake St Area PH2)	Replace 675 LF of 6 inch CI with 8 inch DIPCL.	2007542	DW17-183	26,101	2/2/2018	\$ 226,000	Yes	\$ 205,100	\$ 182,847	Nashua	Yes	\$ 27.13	\$ 4,961	Required the use of temporary main that was not initially part of the design.
Sarasota Ave (Lake St Area PH2)	Replace 250 LF of 6 inch CI with 8 inch DIPCL.	n/a	DW17-183	26,101	2/2/2018	\$ 83,000	Yes	\$ 70,000	-	Nashua	Yes	\$ 27.13	\$ -	
Amherst Dodge Rd Watermain Abandonment	Abandon Approx. 700 LF of AC Main, Transfer 2 services & 1 Hyd to parallel 8" DIPCL water main.	2001229	DW17-183	26,101	2/2/2018	\$ 20,000	Yes	\$ 146,000	\$ 149,710	Amherst	No	\$ 32.93	\$ -	Scope of job expanded to replace multiple broken or leaking valves discovered during the shutdown process.
Kessler Farm Tank Replacement	Replaced 4 MG painted steel water tank with 4 MG prestressed, precast water tank.	2000379		0.1 DSRRL		\$ 3,388,000	No	\$ 60,000	\$ 65,161	Nashua	No	\$ 27.13	\$ -	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	\$ 24,431	\$ 23,470	Merrimack	No	\$ 28.52	\$ -	
Replace Engineering SUV #34	2020 Ford Escape SE - Replace Vehicle #401	2006755	DW17-183	26,101	2/2/2018	\$ 30,000	Yes	\$ 24,474	\$ 24,432	Merrimack	No	\$ 28.52	\$ -	
Investment in developer installed services at 1xannual revenue	Per tariff	n/a	DW17-183	26,101	2/2/2018	\$ 60,000	Yes	\$ 80,000	\$ 79,591	Various	Yes	\$ 28.45	\$ 2,265	136 Developer Installed Services through 12/31/2020.
Asset Management Trimble R2 Units	Add two new GPS units for additional staff.	2003535	DW17-183	26,101	2/2/2018	\$ 24,000	Yes	\$ 24,000	\$ 21,963	Merrimack	No	\$ 28.52	\$ -	
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	\$ 600,000	\$ 485,114	Merrimack	Yes	\$ 28.52	\$ 13,835	Added Pump Station roof hatches and roofing to facilitate pump replacement in the future. Bid price received for new pump was higher than anticipated. Added Electrical system upgrades for code and redundancy. There will be an additional \$140,000 of 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	\$ 39,000	-	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.		DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 15,000	\$ 54,705	Nashua	Yes	\$ 27.13	\$ -	Added due to Kessler Farm Tank deferral to 2021.
School Street	Replace 400 LF of 4 inch CI with 680lf of 6 inch DIPCL.(creates a looped system).	2003533	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 267,000	\$ 270,734	Nashua	Yes	\$ 27.13	\$ 7,345	Added due to Kessler Farm Tank deferral to 2021, restoration work that was planned for 2021 was completed in 2020.
Fulton Street(Lake St Area PH2)	Replace 180 LF of 2" CL with 4" DIPCL - addiion to Lake St Ph 2 project.	2007556	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 92,900	\$ 80,801	Nashua	Yes	\$ 27.13	\$ 2,192	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	\$ 54,500	\$ 49,820	Nashua	Yes	\$ 27.13	\$ 1,352	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	\$ 164,300	\$ 149,975	Nashua	Yes	\$ 27.13	\$ 4,069	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	\$ 20,000	-	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.	2007541	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 31,500	\$ 90,922	Nashua	Yes	\$ 27.13	\$ 2,467	Intersection work associated with Sarasota and Manatee projects.
Ingalls St - complete in 2020	Emergency water main replacement - 175' of Galv (1921) replaced with 4" PVC.	2007544	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 37,000	\$ 33,471	Nashua	Yes	\$ 27.13	\$ 908	Added due to Kessler Farm Tank deferral to 2021.
Walnut St - water main (added to crescent/school st project)	Paving related to water main replacement - replace 56' of 12" CI and 230' of 8" CI (1925-unlined) with 286' of 12" DIP.	2006558	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 84,000	\$ 74,774	Nashua	Yes	\$ 27.13	\$ 2,029	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	\$ -	-	Nashua	Yes	\$ 27.13	\$ -	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.
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	\$ 118,000	-	Nashua	Yes	\$ 27.13	\$ -	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	\$ -	Yes	\$ 21,700	\$ 2,209	Nashua	No	\$ 27.13	\$ -	Drought response. Survey of exposed bottom 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	\$ 54,749	Nashua	Yes	\$ 27.13	\$ 1,485	
Bowers Dam LOD response engineering	Bowers Dam LOD response engineering	1901734, 1907078, 2000373		0.1 DSRRL		\$ 10,000	No	\$ 10,000	\$ 6,761	Nashua/Merrimack	No	\$ 27.83	\$ -	Bowers Dam LOD response engineering
Harris LOD response engineering	Harris LOD response engineering	1907076, 2000375		0.1 DSRRL		\$ 20,000	No	\$ 20,000	\$ 25,535	Nashua/Merrimack	No	\$ 27.83	\$ -	Deferred
Supply Pond LOD response engineering	Supply Pond LOD response engineering	1907077, 2000374		0.1 DSRRL		\$ 32,000	No	\$ 32,000	\$ 15,788	Nashua/Merrimack	No	\$ 27.83	\$ -	Deferred
Rebuild Pump 1, Northwest, Nashua	Final costs for reinstallation and alignment.	1619402, 1701898, 1918550, 2000438	DW17-183	26,101	2/2/2018	\$ 5,000	Yes	\$ 3,457	\$ 53,457	Nashua	Yes	\$ 27.13	\$ 1,450	Previous Year work was instrumental in the completion of the rebuild of NW Pump #1, remaining \$50,000 for the rebuild of NWS Pump #2. See row 94 below.
New Vehicle for WS electrician	Final costs for fir up of new truck purchased in 2019.	2000437	DW17-183	26,101	2/2/2018	\$ 3,000	Yes	\$ 3,000	\$ 2,360	Nashua	No	\$ 27.13	\$ -	
MSDC payment to MWW	MSDC payment for MSDC gallons beyond that currently purchased.	2009023	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 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.
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild	60, 61, 62 & 63 workorders	DW17-183	26,101	2/2/2018	\$ 40,000	Yes	\$ 25,000	\$ 33,239	Various	Yes	\$ 28.45	\$ 946	9 Booster Pumps Repaired/Replaced through 11/30/2020. 1 additional rebuilds projected by end of year.
Booster Pump replacement/rebuild	Replace Booster #1, Donald Street	2008275	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 6,000	\$ 5,319	Bedford	Yes	\$ 24.62	\$ 131	
Booster Pump replacement/rebuild	WTP Intermediate pump #2 electric motor rebuild	2007216	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 12,644	\$ 12,644	Nashua	Yes	\$ 27.13	\$ 343	

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Board Approved 2020 Capex Budget	QCPAC Eligible?	Estimated Project Cost as of 11/30/2020	Final Project cost as of 12/31/2020	Community	Taxable	2020 Tax Rate (I)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion from Board Approved 2020 Capex Budget
Chemical Feed pump replacements	Rebuild Ferric Feed Pumps 2 & 3	2002269	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 3,243	\$ 3,541	Various	Yes	\$ 28.45	\$ 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	\$ -		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	\$ -		Various	Yes	\$ 28.52	\$ -	
Misc. Structural Improvements	Replace Fire Alarm System Control Boards - Damaged by Lightning Strike.	2006032	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 15,120	\$ 14,242	Nashua	Yes	\$ 27.13	\$ 386	
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	\$ 150	
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased	n/a	DW17-183	26,101	2/2/2018	\$ 17,500	Yes	\$ -		Nashua	Yes	\$ 27.13	\$ -	
Miscellaneous Equipment Purchased	Replace Sewage Ejection Pump, Snow Station	2003515	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 3,300	\$ 3,287	Nashua	Yes	\$ 27.13	\$ 89	
Miscellaneous Equipment Purchased	WTP Replace Filter-to-Waste Valve	1918552	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 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	\$ -	Yes	\$ 3,410	\$ 3,406	Various	Yes	\$ 28.52	\$ 97	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	n/a	DW17-183	26,101	2/2/2018	\$ 30,000	Yes	\$ -		Various	Yes	\$ 28.52	\$ -	
Miscellaneous SCADA/Electrical	Replace VFD, Pump #3 - High Pines Booster	2003512	DW17-183	26,101	2/2/2018	\$ -	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	\$ 2,354	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		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	\$ 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	\$ -		Nashua	Yes	\$ 27.13	\$ -	
Purchase new lab equipment	Purchase new lab equipment.	n/a	DW17-183	26,101	2/2/2018	\$ 20,000	Yes	\$ 5,000		Nashua	Yes	\$ 27.13	\$ -	
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	n/a	DW17-183	26,101	2/2/2018	\$ 10,000	Yes	\$ -		Various	Yes	\$ 27.13	\$ -	
Replace Vehicle 200	Replace Vehicle 200	2007616	DW17-183	26,101	2/2/2018	\$ 40,000	Yes	\$ 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	\$ 53,062	Nashua	No	\$ 27.13	\$ -	
Replace Vehicle 63	Replace Vehicle 63	n/a	DW17-183	26,101	2/2/2018	\$ 40,000	Yes	\$ -		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	\$ -		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	\$ 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	\$ -		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	\$ -		Nashua	Yes	\$ 27.13	\$ -	Deferred until 2021.
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	\$ 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	\$ 93,100	\$ 93,090	Merrimack	Yes	\$ 28.86	\$ 2,687	
Supply Pond Dam Modifications per NHDES LOD	Engineering, Permitting, Design Services	2008270		0.1 DSRR		\$ -	No	\$ 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	\$ 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	\$ 1,500		Merrimack	No	\$ 28.52	\$ -	
Misc Hardware	Laptop Purchase for Regulatory Department - JK	2001987	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 1,660	\$ 1,397	Merrimack	No	\$ 28.52	\$ -	Purchase to accommodate work from home created by COVID19.
Misc Hardware	Laptop Purchase for Regulatory Department - CAH	2002761	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 1,400	\$ 1,397	Merrimack	No	\$ 28.52	\$ -	Purchase to accommodate work from home created by COVID19.
Misc Hardware	Laptop Purchase for onboarding employees (5)	2002930	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 9,995	\$ 9,913	Merrimack	No	\$ 28.52	\$ -	Purchase to accommodate work from home created by COVID19.
Misc Hardware	Laptop Purchase for New Employee C. Harding	2005120	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 2,491	\$ 2,491	Merrimack	No	\$ 28.52	\$ -	Purchase to accommodate work from home created by COVID19.
Misc Hardware	Spare Laptop Purchase	2005238	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 1,005	\$ 1,005	Merrimack	No	\$ 28.52	\$ -	Purchase to accommodate work from home created by COVID19.
Misc Hardware	New Laptop for Accounting new hire - Payroll Admin	2006388	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 1,160	\$ 1,160	Merrimack	No	\$ 28.52	\$ -	Purchase to accommodate work from home created by COVID19.
Misc Software	Misc Software	n/a	DW17-183	26,101	2/2/2018	\$ 12,000	Yes	\$ -		Merrimack	No	\$ 28.52	\$ -	
Misc Software	Macola Development Environment for testing upgrade.	2002276	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 5,280	\$ 6,400	Merrimack	No	\$ 28.52	\$ -	
Misc Software	Tyler Notify	2003317	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 3,840	\$ 3,024	Merrimack	No	\$ 28.52	\$ -	
Misc Software	MSL Server License for Munis Upgrade	2005976	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 6,350		Merrimack	No	\$ 28.52	\$ -	Deferred
Website upgrades	Website upgrades	n/a	DW17-183	26,101	2/2/2018	\$ 8,000	Yes	\$ -		Merrimack	No	\$ 28.52	\$ -	
Salmon Replacement at WTP	The server at WTP is over 7 years old and should be replaced. I am recommending to replace the server with a VM host for ease of use and reliability.	2003704	DW17-183	26,101	2/2/2018	\$ 15,000	Yes	\$ 15,000	\$ 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	\$ 2,060	Merrimack	No	\$ 28.52	\$ -	
Meraki Wireless AP's for WTP	The current AP's at WTP are tied into the wireless at HQ. We will be changing to the Maraki solution for HQ so these will need to be replaced.	2003426	DW17-183	26,101	2/2/2018	\$ 3,000	Yes	\$ 3,000	\$ 3,252	Merrimack	No	\$ 28.52	\$ -	
Storage Replacement for PS6110 Array	Nimble addon shelf ~ 33tb usable	2003425	DW17-183	26,101	2/2/2018	\$ 57,000	Yes	\$ 30,000	\$ 16,145	Merrimack	No	\$ 28.52	\$ -	
Vecam 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		Merrimack	No	\$ 28.52	\$ -	
Client Remote Control Software	5 licenses	n/a	DW17-183	26,101	2/2/2018	\$ 1,300	Yes	\$ 1,300		Merrimack	No	\$ 28.52	\$ -	
CMMS replacment project	Replace Synergen/WAM with newer more cost effective/improved functionality system.	2000368	DW17-183	26,101	2/2/2018	\$ 600,000	Yes	\$ 450,000	\$ 433,263	Nashua	Yes	\$ 27.13	\$ 11,754	Project implementation has been slowed due to COVID19. Project \$\$ not used in 2020 will carry over into 2021.
New Building	New Building	2001988		0.1 DSRR		\$ 78,300	No	\$ 140,000	\$ 610,337	Nashua	Yes	\$ 27.13	\$ 16,558	
New Building - Server Room Networking	Routers/Switches/Racks/Patch Panels	2100047		0.1 DSRR		\$ 19,000	No	\$ 12,800	\$ 14,888	Nashua	Yes	\$ 27.13	\$ 404	
New Building - Phone System	Replacement of existing Phone system. New system will not work with existing hardware.	2100043		0.1 DSRR		\$ 70,000	No	\$ 60,000	\$ 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	\$ 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	\$ -		Merrimack	No	\$ 28.52	\$ -	
Click Software move to MS sql	Move Click Database from Oracle to MS sql in order to retire Oracle after the WAM replacement project is complete.	2003421	DW17-183	26,101	2/2/2018	\$ 45,000	Yes	\$ 19,500	\$ 140,012	Merrimack	No	\$ 28.52	\$ -	
Lemon Street, Final Restoration	2020 Carryover Costs	2000693	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 1,500	\$ 1,500	Nashua	Yes	\$ 27.13	\$ 41	Not included in approved 2020 Budget.
Lowell Street, Final Restoration	2020 Carryover Costs	2000694	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 2,500		Nashua	Yes	\$ 27.13	\$ -	Not included in approved 2020 Budget.
West Pearl Street, Final Restoration	2020 Carryover Costs	2000695	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 12,750	\$ 12,750	Nashua	Yes	\$ 27.13	\$ 346	Not included in approved 2020 Budget.
Retainage	Paid out in 2020 on retainage held on 2019 projects.	N/A	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 162,383	\$ 164,061	Nashua	Yes	\$ 27.13	\$ 4,451	
Retainage	Held on various projects listed above. Will be paid out in 2021.	N/A	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ (54,805)	\$ (35,292)	Nashua	Yes	\$ 27.13	\$ (957)	
FALOC interest	Interest accrued on PWW FALOC from 5/1/2020 to 4/1/2021.	26,101	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 70,000	\$ 68,066	Various	No	\$ 28.45	\$ -	Projected interest accrued on FALOC \$\$ for funding of 2020 Capex projects.
Elm Street, Final Restoration	2020 Carryover Costs	2000696	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 21,750	\$ 21,750	Nashua	Yes	\$ 27.13	\$ 590	Not included in approved 2020 Budget.
Warren Street, Final Restoration	2020 Carryover Costs	2000697	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 1,500	\$ 1,500	Nashua	Yes	\$ 27.13	\$ 41	Not included in approved 2020 Budget.
New Drum Hand Truck	New Drum Hand Truck	2003534	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 1,383	\$ 1,383	Nashua	Yes	\$ 27.13	\$ 38	
Replace Sludge Discharge Pump #1	Replace Sludge Discharge Pump #1	2100054	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 3,522		Nashua	Yes	\$ 27.13	\$ 96	
M-Scopes & Metal Detectors	M-Scopes & Metal Detectors	2100055	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 9,910		Nashua	Yes	\$ 27.13	\$ 269	
Office Space Planning	Office Space Planning	1806837, 1917427		0.1 DSRR		\$ -	No	\$ 30,045		Nashua	No	\$ 27.13	\$ -	

Pennichuck Water Works Projected 2020 Total Capital Expenditure Budget -						\$ 9,995,700		\$ 6,876,855	\$ 6,951,260	Projected Property Tax Expense associated with				\$ 155,083
0.1 DSRR Funded project Total -						\$ 229,300		\$ 334,800	\$ 849,428					
Total Projected PWW QCPAC Capex for 2020 -						\$ 9,766,400		\$ 6,542,055	\$ 6,101,832					
Total Projected PWW QCPAC Capex for 2020 funded with Bonds -						\$ 9,211,025		\$ 5,994,446	\$ 5,605,797					
Amount funded by DWGTF Northwest System Improvements -						\$ 415,000		\$ 355,500	\$ 355,660					
Amount funded by DWGTF Merrimack River Intake -						\$ 140,375		\$ 192,109	\$ 140,375					
Project Annual P&I on 2020 QCPAC eligible Projects -						\$ 564,236		\$ 376,789	\$ 351,395					

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Board Approved 2020 Capex Budget	QCPAC Eligible?	Estimated Project Cost as of 11/30/2020	Final Project cost as of 12/31/2020	Community	Taxable	2020 Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion from Board Approved 2020 Capex Budget
	Estimated Bond Terms (Bonds to be sold in April 2021) -	30	Years @	4.056692%		\$ 536,347		\$ 349,050	\$ 326,419					
	Merrimack River Intake DWGTF Terms -	30	Years @	3.38%		\$ 7,518		\$ 10,289	\$ 7,518					
	Northwest System Improvements DWGTF Terms -	30	Years @	2.704%		\$ 20,371		\$ 17,450	\$ 17,458					

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

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 6/30/2020	Community	Taxable	Tax Rate (l)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing
Foreman Truck	Upfit of Foreman's Truck body at JC Madigans.	NTD		0.1 DSRR		\$ 61,000	No	\$ 61,000	Merrimack	No	\$ 28.52	\$ -	
2021 New Services (10)	Single Family, Owner Build, New Homes	Routine	DW20-157	Awaiting Approval		\$ 50,000	Yes	\$ 80,000	Various	Yes	\$ 28.45	\$ 2,276	7 New Services installed through 06/30/21, projecting 3 more
2021 Renewed Services (20)	Replacement of Failed Services	Routine	DW20-157	Awaiting Approval		\$ 110,000	Yes	\$ 60,000	Various	Yes	\$ 28.45	\$ 1,707	8 Renewed Services installed through 06/30/21, projecting 12 more
2021 Hydrants (15)	Replacement of non-functional hydrants	Routine	DW20-157	Awaiting Approval		\$ 90,000	Yes	\$ 60,000	Various	Yes	\$ 28.45	\$ 1,707	1 Hydrant installed/repared through 06/30/21, projecting 9 more
2021 Gates (10)	Replacement of Failed Gate Valves	Routine	DW20-157	Awaiting Approval		\$ 40,000	Yes	\$ 120,000	Various	Yes	\$ 28.45	\$ 3,414	18 Gates installed/epaired through 06/30/21, projecting 10 more
2021 Radios (250)	Replacement of failed radios	Routine	DW20-157	Awaiting Approval		\$ 425,000	Yes	\$ 11,000	Various	Yes	\$ 28.45	\$ 313	47 Radios installed through 06/30/21 projecting 70 more
2021 Radios (4250)	Yr 1 of 7 Replacment of all PWW Radios installed in 2007 (4000), New Radios for new customers (250)	2101626	DW20-157	Awaiting Approval			Yes	\$ 400,000	Various	Yes	\$ 28.45	\$ 11,381	525 Radios installed through 06/30/21 projecting 3500 more
2021 Meters (Growth) 5/8"-2" - Core & CWS (TBD)	New meters for new customers (250). Replacement of failed meters(250).	Routine	DW20-157	Awaiting Approval		\$ 50,000	Yes	\$ 50,000	Various	Yes	\$ 28.45	\$ 1,423	154 Meters installed through 06/30/21, projecting 200 more
Replacement Utility Truck	Replacement for Truck #83 - 2011 F350, 110K miles, High maint costs & lots of body rust/rot.	2103610	DW20-157	Awaiting Approval		\$ 70,000	Yes	\$ 70,000	Merrimack	No	\$ 28.52	\$ -	
Replacement Utility Truck	Replacement for Truck #9 - 2014 F350, 110K Miles, High maint costs & significant rust.	2103609	DW20-157	Awaiting Approval		\$ 70,000	Yes	\$ 70,000	Merrimack	No	\$ 28.52	\$ -	
Replacement Full Size Pickup	Replacement for Truck #95 - 2008 Ford Ranger 110K miles did not pass inspection.	2103612	DW20-157	Awaiting Approval		\$ 45,000	Yes	\$ 45,000	Merrimack	No	\$ 28.52	\$ -	
Replacement Full Size Pickup	Replacement for Truck # 20 - 2008 Ford Ranger 135K miles did not pass inspection.	NTD	DW20-157	Awaiting Approval		\$ 45,000	Yes	\$ -	Merrimack	No	\$ 28.52	\$ -	Deferred until 2022
Replacement SUV - Meter Reading	Replacement for vehicle #21 - 2013 Chevy Equinox 135k miles, high maint costs & suspension issues.	2103615	DW20-157	Awaiting Approval		\$ 35,000	Yes	\$ 35,000	Merrimack	No	\$ 28.52	\$ -	
Landscape Improvements	Irrigation system, loam & seed area at front of Distribution Building.	NTD	DW20-157	Awaiting Approval		\$ 15,000	Yes	\$ 15,000	Merrimack	Yes	\$ 28.52	\$ 428	
Replacement Valve/vac trailer	Replacement for # 96 - 2010 EHWa Valvemate - Valve Turner not functional and cannot get parts.	2105021	DW20-157	Awaiting Approval		\$ 65,000	Yes	\$ 72,000	Merrimack	No	\$ 28.52	\$ -	
Replacement Equipment Trailer	Replacement for # 53 - 14' BigTex Trailer - Excessive rust & rot and safety issues.	NTD	DW20-157	Awaiting Approval		\$ 7,500	Yes	\$ 7,500	Merrimack	No	\$ 28.52	\$ -	
Protectus Meter Upgrade	Protectus Meter Upgrade	NTD	DW20-157	Awaiting Approval		\$ 22,000	Yes	\$ 22,000	Nashua	Yes	\$ 27.13	\$ 597	
Valve Turner & Vac Truck	Replacement for #60 - 15 Year Vac/Valve Trailer with excessive rot, will not pass inspection.	2103613	DW20-157	Awaiting Approval		\$ 200,000	Yes	\$ 200,000	Merrimack	No	\$ 28.52	\$ -	
Office Space for Const & Maint Supervisor	Permanent office space for Contruction & Maintenance Supervisor	NTD	DW20-157	Awaiting Approval		\$ 15,000	Yes	\$ 15,000	Merrimack	Yes	\$ 28.52	\$ 428	
Locker Room Deep Wash Sinks	Deep stainless wash sinks to replace existing sinks in male & female locker rooms.	NTD	DW20-157	Awaiting Approval		\$ 10,000	Yes	\$ 10,000	Merrimack	Yes	\$ 28.52	\$ 285	
Locker Room Benches	Permanent Benches for Male & Female locker rooms.	NTD	DW20-157	Awaiting Approval		\$ 7,500	Yes	\$ 7,500	Merrimack	Yes	\$ 28.52	\$ 214	
Distribution Facility Bird Mitigation	Installation of 3/4" Bird Mitigation Netting to the Outside Vehicle/equipment covered storage area	2105481				\$ -	Yes	\$ 27,000	Merrimack	Yes	\$ 28.52	\$ 770	Level of Birds nesting and bird excrement required addition of this netting for health and safety
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	Awaiting Approval		\$ 103,000	Yes	\$ 100,000	Nashua	Yes	\$ 27.13	\$ 2,713	
Hamilton Street	Replace 410 LF of 6 inch CI with 4 inch DIPCL.	2102528	DW20-157	Awaiting Approval		\$ 33,000	Yes	\$ 75,000	Nashua	Yes	\$ 27.13	\$ 2,035	
Burnitt Street	Replace 425 LF of 4 inch CI with 8 inch DIPCL.	2102532	DW20-157	Awaiting Approval		\$ 24,000	Yes	\$ 25,000	Nashua	Yes	\$ 27.13	\$ 678	
Burnitt Street	Replace 125 LF of 4 inch CI with 4 inch DIPCL.	combined with above	DW20-157	Awaiting Approval		\$ 12,000	Yes	\$ 15,000	Nashua	Yes	\$ 27.13	\$ 407	This budget was combined with other Burnitt Street budget.
Verona Street	Replace 675 LF of 6 inch CI with 8 inch DIPCL.	2102534	DW20-157	Awaiting Approval		\$ 56,000	Yes	\$ 60,000	Nashua	Yes	\$ 27.13	\$ 1,628	
Sarasota Ave	Replace 250 LF of 6 inch CI with 8 inch DIPCL.	2102531	DW20-157	Awaiting Approval		\$ 24,000	Yes	\$ 18,000	Nashua	Yes	\$ 27.13	\$ 488	
Merrimack River Pumping Station	Add third 350 horsepower pump with electneal and Structural Improvements.	2102256	DW20-157	Awaiting Approval		\$ 140,000	Yes	\$ 140,000	Merrimack	Yes	\$ 28.52	\$ 3,993	
Kessler Farm Tank Replacement	Replaced 4 MG painted steel water tank with 4 MG prestressed, precast water tank.	2101759	DW20-157	Awaiting Approval		\$ 4,000,000	Yes	\$ 4,000,000	Nashua	Yes	\$ 27.13	\$ 108,520	
Coburn Woods (all side streets)	Replace 4400 LF of 2 inch PVC with 4 inch DIPCL.	2002685 & 2101761	DW20-157	Awaiting Approval		\$ 1,855,000	Yes	\$ 1,855,000	Nashua	Yes	\$ 27.13	\$ 50,326	
Merrimack River Intake	Merrimack River Intake Modified Source Water Protection Plan	2101763		0.1 DSRR		\$ 30,000	No	\$ 110,000	Merrimack	No	\$ 28.52	\$ -	Budget increased based on the results of risk analysis and the resulting actions required by the NHDES.
Balcom Street	Replace 1240 LF 6 inch CI with 1240 LF 8 inch DIPCL.	NTD	DW20-157	Awaiting Approval		\$ 294,000	Yes	\$ 294,000	Nashua	Yes	\$ 27.13	\$ 7,976	Deferred to 2022 for Projects associated with sewer and other utility replacement
Euclid Avenue	Replace 425 LF 6 inch CI with 425LF 8 inch DIPCL.	NTD	DW20-157	Awaiting Approval		\$ 100,000	Yes	\$ 100,000	Nashua	Yes	\$ 27.13	\$ 2,713	Deferred to 2022 for Projects associated with sewer and other utility replacement
Ash Street	Final Paving	2102530	DW20-157	Awaiting Approval		\$ -	Yes	\$ 30,000	Nashua	Yes	\$ 27.13	\$ 814	Not included in original board approved budget
Chataqua Avenue	Design work for 2022 project	2101749		0.1 DSRR		\$ -	No	\$ 10,000	Nashua	No	\$ 27.13	\$ -	Not included in original board approved budget. Response to Nashua sewer replacement
Manatee Street	Final Paving, Includes Pine St Intersection	2102535	DW20-157	Awaiting Approval		\$ -	Yes	\$ 16,000	Nashua	Yes	\$ 27.13	\$ 434	Not included in original board approved budget
Niquette Drive	Emergency water main replacement across E. Dunstable Rd for continued main replacement in 2022	2103936	DW20-157	Awaiting Approval		\$ -	Yes	\$ 52,000	Nashua	Yes	\$ 27.13	\$ 1,411	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	DW20-157	Awaiting Approval		\$ -	Yes	\$ 177,100	Nashua	Yes	\$ 27.13	\$ 4,805	Not included in original board approved budget. Response to Nashua sewer replacement
377 Main Street Repairs	Damaged sewer lateral that only surfaced 2 years after completion of the project - Main St Area Ph 2	2105498	DW20-157	Awaiting Approval		\$ -	Yes	\$ 25,000	Nashua	Yes	\$ 27.13	\$ 678	Not included in original board approved budget
Kendrick Street	Sewer work forces replacement of outdated 6" CI pipe with 466 LF of new 6" DIPCL.	2105500	DW20-157	Awaiting Approval		\$ -	Yes	\$ 189,640	Nashua	Yes	\$ 27.13	\$ 5,145	Not included in original board approved budget. Response to Nashua sewer replacement
Faxon Avenue	Nearby sewer work forces replacement of outdated 2" CI pipe with 205 LF of new 4" C900 PVC.	2105579	DW20-157	Awaiting Approval		\$ -	Yes	\$ 85,800	Nashua	Yes	\$ 27.13	\$ 2,328	Not included in original board approved budget. Response to Nashua sewer replacement
Faxon Street	Sewer work forces replacement of outdated 6" CI pipe with 528 LF of new 6" DIPCL.	2105580	DW20-157	Awaiting Approval		\$ -	Yes	\$ 219,400	Nashua	Yes	\$ 27.13	\$ 5,952	Not included in original board approved budget. Response to Nashua sewer replacement
Sweet Hill Internnection	Connecting Pipeline and Meter Pit	NTD		NHDES SRF or DWGTF		\$ 250,000	Yes	\$ -	Plaistow	Yes	\$ 28.45	\$ -	Deferred to 2022 for NHSRF Funding
Twin Ridge Interconnection	Connecting Pipeline and Meter Pit	NTD		NHDES SRF or DWGTF		\$ 100,000	Yes	\$ -	Plaistow	Yes	\$ 28.45	\$ -	Deferred to 2022 for NHSRF Funding
PWW RRA- ERP	Engineering Evaluations to Implement Recommendations	NTD		0.1 DSRR		\$ 200,000	No	\$ 200,000	Various	No	\$ 28.45	\$ -	
Trimble GPS and Monitoring Equipment	Level Monitors, Pressure Monitors and Flow Monitors	NTD	DW20-157	Awaiting Approval		\$ 32,000	Yes	\$ 32,000	Various	Yes	\$ 28.45	\$ 910	
Merrimack River Watershed Council	Grant Match with othe Stakeholders \$40k for five years.	NTD		0.1 DSRR		\$ 40,000	No	\$ 40,000	Various	No	\$ 28.45	\$ -	
Investment in Developer Services	1x Annual Revenue	Routine	DW20-157	Awaiting Approval		\$ 90,000	Yes	\$ 140,000	Various	Yes	\$ 28.45	\$ 3,983	27 Developer installed services through 06/30/21 projecting 80 more.
Engineering Vehicle	SUV Replaces a 2014 vehicle with over 150,000 miles.	NTD	DW20-157	Awaiting Approval		\$ 30,000	Yes	\$ 30,000	Nashua	No	\$ 27.13	\$ -	
Engineering Vehicle	SUV Relpaces (#34) 2010 with over 196,000 miles.	NTD	DW20-157		26,459 3/2/2021	\$ 30,000	Yes	\$ 30,000	Nashua	No	\$ 27.13	\$ -	
Route 101A Water Main Relocation	Route 101A Water Main Relocation	2008857 & 2102006	DW20-157		26,459 3/2/2021	\$ -	Yes	\$ 505,000	Nashua	Yes	\$ 27.13	\$ 13,701	Not included in original board approved budget. Relocation required by NHDOT
Northwest Pressure System Analysis	Hydraulic analysis of the Northwest Pressure Systems to provide for increase demands from Milford, NH	2105480		0.1 DSRR		\$ -	Yes	\$ 25,000	Nashua	No	\$ 27.13	\$ -	Not included in original board approved budget
Distribution System Analysis - HUDSON	Hydraulic modelling and Engineering analysis of the Pennichuck Distribution system's ability to provide water to Hudson, NH	2105499	0.1 DSRR			\$ -	Yes	\$ 25,000	Nashua	No	\$ 27.13	\$ -	Not included in original board approved budget
New Building	New Building 2021 Carryover Costs	2001988 & 2101751		0.1 DSRR		\$ -	No	\$ 35,000	Nashua	Yes	\$ 27.13	\$ 950	Not included in original board approved budget
COO Vehicle	SUV Replaces a 2014 vehicle with over 150,000 miles.	NTD	DW20-157		26,459 3/2/2021	\$ 30,000	Yes	\$ -	Nashua	No	\$ 27.13	\$ -	Not needed. COO to provide own vehicle.
Bon Terrain Contractual Payment	Phase 1 payment per SNHWC contract with Tana Properties.	NTD	DW20-157		26,459 3/2/2021	\$ 129,200	Yes	\$ 129,200	Amherst	No	\$ 32.93	\$ -	
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild	Routine	DW20-157		26,459 3/2/2021	\$ 40,000	Yes	\$ 30,000	Various	Yes	\$ 28.45	\$ 854	6 Booster Pump installed/repared through 06/30/21 projecting 6 more.
Booster Pump replacement/rebuild	Bowers Landing Replace VFD, Fire Pump #1	2102277	DW20-157		26,459 3/2/2021	\$ -	Yes	\$ 4,719	Various	Yes	\$ 28.45	\$ 134	
Booster Pump replacement/rebuild	Bowers Landing Replace VFD, Fire Pump #2	2102278	DW20-157		26,459 3/2/2021	\$ -	Yes	\$ 4,641	Various	Yes	\$ 28.45	\$ 132	
Well Pump replacements	Well Pump replacements	Routine	DW20-157		26,459 3/2/2021	\$ 15,000	Yes	\$ 24,000	Various	Yes	\$ 28.45	\$ 683	3 Well Pump installed/repared through 06/30/21, projecting 3 more
Chemical Feed pump replacements	Chemical Feed pump replacements	Routine	DW20-157		26,459 3/2/2021	\$ 10,000	Yes	\$ 4,000	Various	Yes	\$ 28.45	\$ 114	0 Chemical Pumps installed/repared through 06/30/21 projecting 2 more
Supply Pond Spillway Improvements	Supply Pond Spillway Improvements	2101927	DW20-157		26,459 3/2/2021	\$ 750,000	Yes	\$ -	Merrimack/Nashua	Yes	\$ 27.83	\$ -	Work not required due to Hazard level reclassification of Bowers Dam
Harris Dam raise earthen embankment, raise dike wall, regulatory requirement.	Harris Dam raise earthen embankment, raise dike wall, regulatory requirement.	2101956	DW20-157		26,459 3/2/2021	\$ 965,000	Yes	\$ -	Merrimack/Nashua	Yes	\$ 27.83	\$ -	Deferred to 2022. Project scope will change due to no change to Hazard level classification of Bowers Dam
Misc. Structural Improvements	Misc. Structural Improvements	NTD	DW20-157		26,459 3/2/2021	\$ 20,000	Yes	\$ 15,515	Various	Yes	\$ 28.45	\$ 441	
Misc. Structural Improvements	Replace Sewage Ejection Pump 2, WTP	2102276	DW20-157		26,459 3/2/2021	\$ -	Yes	\$ 4,485	Various	Yes	\$ 28.45	\$ 128	Pump failed
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased	NTD	DW20-157		26,459 3/2/2021	\$ 20,000	Yes	\$ 15,000	Various	Yes	\$ 28.45	\$ 427	
Miscellaneous Equipment Purchased	Install Softener, Farley Road Estates, Nashua	2104003	DW20-157		26,459 3/2/2021	\$ -	Yes	\$ 5,000	Various	Yes	\$ 28.45	\$ 142	Water level hardness has increased and requires treatment
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	NTD	DW20-157		26,459 3/2/2021	\$ 30,000	Yes	\$ 21,500	Various	Yes	\$ 28.45	\$ 612	Some budget money was pulled into 2102309 VFD pump #3
Miscellaneous SCADA/Electrical	Replace PLC and install cellular modem, Taylor Falls Station, Nashua	2104170	DW20-157		26,459 3/2/2021	\$ 30,000	Yes	\$ 5,500	Various	Yes	\$ 28.45	\$ 156	Needed to allow Station to communicate with water tank in Hudson. Needed to allow for automatic tank fills required by shuttering of Dame well due to PFAS.
Rebuild 1 High lift/Intermediate pump	Rebuild 1 High lift/Intermediate pump	NTD	DW20-157		26,459 3/2/2021	\$ 25,000	Yes	\$ 25,000	Nashua	Yes	\$ 27.13	\$ 678	
Replace VFD, Intermediate Pump #3 WTP	Replace VFD, Intermediate Pump #3 WTP	2102309	DW20-157		26,459 3/2/2021	\$ -	Yes	\$ 28,000	Nashua	Yes	\$ 27.13	\$ 760	VFD failed
WTP Structural/HVAC	WTP Structural/HVAC	NTD	DW20-157		26,459 3/2/2021	\$ 10,000	Yes	\$ 10,000	Various	Yes	\$ 28.45	\$ 285	
Purchase new lab equipment	Purchase new lab equipment	NTD	DW20-157		26,459 3/2/2021	\$ 20,000	Yes	\$ 20,000	Nashua	Yes	\$ 27.13	\$ 543	
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	NTD	DW20-157		26,459 3/2/2021	\$ 10,000	Yes	\$ 1,850	Various	Yes	\$ 28.45	\$ 53	
Miscellaneous Fencing and Security projects	Install Perimeter Fence around remote wells, Badger Hill, Milford	2103214	DW20-157		26,459 3/2/2021	\$ -	Yes	\$ 8,150	Various	Yes	\$ 28.45	\$ 232	Added due to vandalism
Add Third pump - Donald Street Booster Station	Add Third pump - Donald Street Booster Station	NTD	DW20-157		26,459 3/2/2021	\$ 40,000	Yes	\$ -	Bedford	Yes	\$ 24.62	\$ -	deferred until 2022
Vehicle replacement	Vehicle replacement-replace vehicle 210. >160,000 miles, 3K repairs in 2020.	NTD	DW20-157		26,459 3/2/2021	\$ 55,000	Yes	\$ 55,000	Nashua	No	\$ 27.13	\$ -	
Vehicle replacement	Vehicle replacement - Replace vehicle 351. >163,000 miles, 6K repairs in 2020.	NTD	DW20-157		26,459 3/2/2021	\$ 40,000	Yes	\$ 40,000	Nashua	No	\$ 27.13	\$ -	
Replace 6 filter turbidimeters (manufacturer no longer supports current units).	Replace 6 filter turbidimeters (manufacturer no longer supports current units).	NTD	DW20-157		26,459 3/2/2021	\$ 30,000	Yes	\$ 30,000	Nashua	Yes	\$ 27.13	\$ 814	
Rebuild of Pump 2 @ Merrimack River Intake.	Rebuild of Pump 2 @ Merrimack River Intake.	NTD	DW20-157		26,459 3/2/2021	\$ 75,000	Yes	\$ 75,000	Merrimack	Yes	\$ 28.52	\$ 2,139	

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 6/30/2020	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing
Repair/Replace Soffit and Fascia, Boat House Bldg.	Repair/Replace Soffit and Fascia, Boat House Bldg.	2103205	DW20-157	26,459	3/2/2021	\$ 30,000	Yes	\$ 15,000	Nashua	Yes	\$ 27.13	\$ 407	
Install new Day Fuel Tank, Controller and related equip. FWPS Generator	Regulatory requirement, existing equipment is malfunctioning and unreliable, Soft metals present in piping system which is not allowed.	NTD	DW20-157	26,459	3/2/2021	\$ 75,000	Yes	\$ -	Nashua	No	\$ 27.13	\$ -	Piping reconfigured and replaced as maintenance project. Scope limited.
Replace Pakscan Master Station, WTP	Replace Pakscan Master Station, WTP	2103886	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 44,000	Nashua	Yes	\$ 27.13	\$ 1,194	This project was originally expected in 2020 but not completed due to production issues. Completed in 2021 but not in board approved budget as a carryover.
New SCADA Control System, Powder Hill, Bedford	New SCADA Control System, Powder Hill, Bedford	2103888	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 9,500	Bedford	Yes	\$ 24.62	\$ 234	This project was originally expected in 2020 but not completed due to production issues. Completed in 2021 but not in board approved budget as a carryover.
CMMS replacment project (Estimate)	Replace Synergen/WAM with newer more cost effective/improved functionality system.	2101757	DW20-157	26,459	3/2/2021	\$ 100,000	Yes	\$ 100,000	Nashua	Yes	\$ 27.13	\$ 2,713	
Infoview Licenses	Infoview Licenses	2104021	DW20-157	26,459	3/2/2021	\$ 65,000	Yes	\$ 53,450	Nashua	No	\$ 27.13	\$ -	
Redundant Internet	The new phone system, these phone lines use the internet to make and receive 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 Distribution facility which internet will provide us a redundant path to the internet in case one fails. This secondary internet feeds the internet load from the 3 major locations between the 2 internet connections instead of one.	2102395	DW20-157	26,459	3/2/2021	\$ 69,000	Yes	\$ 69,000	Nashua	No	\$ 27.13	\$ -	
Treatment Plant and Distribution security retrofit	Update both the Treatment plant and Distribution to the same security system that the new HQ is using so that there is one badge procedure and system to maintain. It will also gives us better analytics and notifications of access to each of the buildings.	2103934	DW20-157	26,459	3/2/2021	\$ 37,000	Yes	\$ 120,000	Nashua	Yes	\$ 27.13	\$ 3,256	Change of Scope for 2 remote facilities. Existing wiring at Distribution not adequate for new system. Add gate, request for Exit, change int keypad functionality.
IT Storage Room / Work Room	Add tool box, work bench and parts storage to the IT room to keep things organized to provide a place to work on physical computers and perform repairs.	NTD	DW20-157	26,459	3/2/2021	\$ 4,000	Yes	\$ 4,000	Nashua	Yes	\$ 27.13	\$ 109	
Cybernetics Disk Array	Replace 7 year of device used for system back ups.	2104055	DW20-157	26,459	3/2/2021	\$ 20,000	Yes	\$ 12,000	Nashua	Yes	\$ 27.13	\$ 326	
Virtual Desktops	The majority of the office computers will be 5 years old in 2021. The plan is create a 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 the existing desktops to remain in service for several more years. Additionally the client server provides more flexibility to the end user to allow them to work at other locations and still get all their settings and programs to perform their job.	2104056	DW20-157	26,459	3/2/2021	\$ 106,000	Yes	\$ 60,000	Nashua	No	\$ 27.13	\$ -	
Computer Updates	There are 30 Computers that are due for replacement in 2023. These computers have very slow hard dr	NTD	DW20-157	26,459	3/2/2021	\$ 6,000	Yes	\$ 6,000	Nashua	No	\$ 27.13	\$ -	
Snow Station Switch Replacement	Replace the outdated switch that connects the fiber optic cable from outside to the inside of the WTP.	NTD	DW20-157	26,459	3/2/2021	\$ 1,000	Yes	\$ 1,000	Nashua	Yes	\$ 27.13	\$ 27	
Munis FER Enhancements	Munis FER Enhancements	NTD	DW20-157	26,459	3/2/2021	\$ 35,000	Yes	\$ 35,000	Nashua	No	\$ 27.13	\$ -	
Click to Munis Data interfaces	Implement connection between ClickSoft and Munis to reduce the need of user to duplicate data entery into Munis from information captured in ClickMobile.	NTD	DW20-157	26,459	3/2/2021	\$ 20,000	Yes	\$ 20,000	Nashua	No	\$ 27.13	\$ -	
CMMS PLL Implementation	Implemtation of Cityworks PLL. Cityworks PLL simplifies applications for customers and streamlines wo	2103213	DW20-157	26,459	3/2/2021	\$ 170,000	Yes	\$ 125,595	Nashua	Yes	\$ 27.13	\$ 3,407	
Cityworks PLL License	License for above (Estimate)	NTD	DW20-157	26,459	3/2/2021	\$ 40,000	Yes	\$ 13,875	Nashua	No	\$ 27.13	\$ -	This project got cancelled since it was only for licenses.
Misc Hardware	Misc Hardware	NTD	DW20-157	26,459	3/2/2021	\$ 20,000	Yes	\$ 8,082	Various	No	\$ 28.45	\$ -	
Misc Hardware	Small MFP's at Distribution	2101826	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 2,195	Various	No	\$ 28.45	\$ -	
Misc Hardware	Replacement Laptops - CS	2102671	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 3,500	Various	No	\$ 28.45	\$ -	Replaced outdated desktop computers
Misc Hardware	Replacement Laptops - CS	2103177	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 3,349	Various	No	\$ 28.45	\$ -	Replaced outdated desktop computers
Misc Hardware	4 iPads & iPad cases	2105019	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 2,874	Various	No	\$ 28.45	\$ -	Replacements for failed units
Remote User Laptops	Remote User Laptops	2104113	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 36,000	Various	No	\$ 28.45	\$ -	Needed to provide remote access into office network to allow employees to work offsite if necessary
Misc Software	Misc Software	NTD	DW20-157	26,459	3/2/2021	\$ 12,000	No	\$ 12,000	Various	No	\$ 28.45	\$ -	
WTP Wifi expansion	WTP Wifi expansion	NTD	DW20-157	26,459	3/2/2021	\$ 15,000	Yes	\$ -	Nashua	No	\$ 27.13	\$ -	Determined that the need was not there for the use of this technology.
Projected short term interest on F/ALOC	Interest incurred to finance 2021 Capex until permanent financing is achieved	N/A	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 128,379	N?A	No			
Pennichuck Water Works Projected 2021 Total Capital Expenditure Budget -						\$ 12,045,200		\$ 11,538,299	Projected Property Tax Expense associated with			\$ 268,528	

Total Projected Bond funded PWW QCPAC Capex for 2021 - \$ 11,404,200 \$ 11,032,299
Total Projected NHDES SRF/DWGTf funded PWW QCPAC Capex for 2021 - \$ 350,000 \$ -
Total for 0.1 DSRR Projects - \$ 291,000 \$ 506,000

Estimated Bond Terms (Bonds to be sold in April 2022) - 30 Years @ 4.0% resulting in P&I of \$ 659,506 \$ 637,999
DWGTf Terms - 30 Years @ 3.38% resulting in P&I of \$ 18,745 \$ -

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

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount	QCPAC Eligible?	Community	Taxable	Tax Rate (l)	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 Approval		\$ 50,000	Yes	Various	Yes	\$ 28.45	\$ 1,423	
2022 Renewed Services (20)	Replacement of Failed Services		DW20-157	Awaiting Approval		\$ 110,000	Yes	Various	Yes	\$ 28.45	\$ 3,130	
2022 Hydrants (15)	Replacement of non-functional hydrants		DW20-157	Awaiting Approval		\$ 90,000	Yes	Various	Yes	\$ 28.45	\$ 2,561	
2022 Gates (10)	Replacement of Failed Gate Valves		DW20-157	Awaiting Approval		\$ 40,000	Yes	Various	Yes	\$ 28.45	\$ 1,138	
2022 Radios (500)	Replacement of failed Radios (250), New Radios for new customers (250).		DW20-157	Awaiting Approval		\$ 50,000	Yes	Various	Yes	\$ 28.45	\$ 1,423	
2022 Radios (4000)	Yr 2 of 7 Replacment of all PWW Radios installed in 2007 (4000) by contractor.		DW20-157	Awaiting Approval		\$ 520,000	Yes	Various	Yes	\$ 28.45	\$ 14,795	
2022 Meters (Growth) 5/8"-2" - Core & CWS (TBD)	New meters for new customers, including PFOA (250). Replacement of failed meters(250).		DW20-157	Awaiting Approval		\$ 50,000	Yes	Various	Yes	\$ 28.45	\$ 1,423	
Replacement Boom Truck	Replacement for #19 - 2011 Ford F450 - High Milage, Maintenance & Safety issues.		DW20-157	Awaiting Approval		\$ 150,000	Yes	Merrimack	No	\$ 28.52	\$ -	
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting Approval		\$ 70,000	Yes	Merrimack	No	\$ 28.52	\$ -	
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting Approval		\$ 70,000	Yes	Merrimack	No	\$ 28.52	\$ -	
Replacment Supervisor Pickup	New Full Sized Pickup to Replace existing high mileage/maintenance pickup.		DW20-157	Awaiting Approval		\$ 45,000	Yes	Merrimack	No	\$ 28.52	\$ -	
Replacement Utility Van	New Utility Van to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting Approval		\$ 40,000	Yes	Merrimack	No	\$ 28.52	\$ -	
Protectus Meter Upgrade	Protectus Meter Upgrade		DW20-157	Awaiting Approval		\$ 22,000	Yes	Nashua	Yes	\$ 27.13	\$ 597	
Miscellaneous Construction Equipment				0.1 DSRR		\$ 40,000	Yes	Merrimack	Yes	\$ 28.52	\$ 1,141	
Balcom Street	Replace 1240 LF 6 inch CI with 1240 LF 8 inch DIPCL.		DW20-157	Awaiting Approval		\$ 73,600	Yes	Nashua	Yes	\$ 27.13	\$ 1,997	
Euclid Avenue	Replace 425 LF 6 inch CI with 425LF 8 inch DIPCL.		DW20-157	Awaiting Approval		\$ 25,200	Yes	Nashua	Yes	\$ 27.13	\$ 684	
Fairview Street	Replace 800 LF 6 inch CI with 800 LF 8 inch DIPCL.		DW20-157	Awaiting Approval		\$ 47,000	Yes	Nashua	Yes	\$ 27.13	\$ 1,275	
Temple St (south to gorman)	Replace 900 LF of 8 inch CI with 12 inch DIPCL.		DW20-157	Awaiting Approval		\$ 66,000	Yes	Nashua	Yes	\$ 27.13	\$ 1,791	
School Street (High to W. Pearl Alleyway)	Replace 400 LF of 4 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval		\$ 27,000	Yes	Nashua	Yes	\$ 27.13	\$ 733	
Sargent Street	Replace 1900 LF 6 inch CI with 1900 LF 16 inch DIPCL.		DW20-157	Awaiting Approval		\$ 480,000	Yes	Nashua	Yes	\$ 27.13	\$ 13,022	
Courtland Street	Replace 1170 LF 4 inch CI with 1170 LF 16 inch DIPCL.		DW20-157	Awaiting Approval		\$ 300,000	Yes	Nashua	Yes	\$ 27.13	\$ 8,139	
Ald Street	Replace 1860 LF of 6 & 8 inch CI with 12 inch DIPCL.		DW20-157	Awaiting Approval		\$ 740,000	Yes	Nashua	Yes	\$ 27.13	\$ 20,076	
Lawndale Avenue	Replace 1085 LF of 6 inch CI with 12 inch DIPCL.		DW20-157	Awaiting Approval		\$ 420,000	Yes	Nashua	Yes	\$ 27.13	\$ 11,395	
Benson Avenue	Replace 550 LF of 4 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval		\$ 160,000	Yes	Nashua	Yes	\$ 27.13	\$ 4,341	
Spaulding Street	Replace 950 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval		\$ 280,000	Yes	Nashua	Yes	\$ 27.13	\$ 7,596	
Alstead Avenue	Replace 240 LF of 4 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval		\$ 61,000	Yes	Nashua	Yes	\$ 27.13	\$ 1,655	
Spaulding Avenue	Replace 430 LF of 6, 2, & 1.25 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval		\$ 80,000	Yes	Nashua	Yes	\$ 27.13	\$ 2,170	
St Lazare Street	Replace 415 LF of 2 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval		\$ 80,000	Yes	Nashua	Yes	\$ 27.13	\$ 2,170	
Ingalls St (St Camille to end)	Replace 200 LF of 1.5 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval		\$ 40,000	Yes	Nashua	Yes	\$ 27.13	\$ 1,085	
Nye Avenues	Replace 400 LF of 2 & 1.5 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval		\$ 73,000	Yes	Nashua	Yes	\$ 27.13	\$ 1,980	
Copp Street	Replace 350 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval		\$ 103,000	Yes	Nashua	Yes	\$ 27.13	\$ 2,794	
Fairview Street	Replace 800 LF 6 inch CI with 800 LF 8 inch DIPCL.		DW20-157	Awaiting Approval		\$ 189,000	Yes	Nashua	Yes	\$ 27.13	\$ 5,128	
Gray Avenue	Replace 360 LF of 6 inch CI with 6 inch DIPCL.		DW20-157	Awaiting Approval		\$ 85,000	Yes	Nashua	Yes	\$ 27.13	\$ 2,306	
Additional Water Main Replacement	To be determined		DW20-157	Awaiting Approval		\$ 1,100,000	Yes	Nashua	Yes	\$ 27.13	\$ 29,843	
2022 Nashua City Sewer Projects	To be determined		DW20-157	Awaiting Approval		\$ 900,000	Yes	Nashua	Yes	\$ 27.13	\$ 24,417	
PWW RRA- ERP	Implement Recommendations Evaluated in 2021		DW20-157	Awaiting Approval		\$ 500,000	Yes	Various	Yes	\$ 28.45	\$ 14,226	
Merrimack River Watershed Council	Grant Match with other Stakeholders \$40k for five years for land conservation/protection in the Merrimack River Watershed.			0.1 DSRR		\$ 40,000	No	Various	No	\$ 28.45	\$ -	
Investment in Developer Services	1x Annual Revenue		DW20-157	Awaiting Approval		\$ 90,000	Yes	Various	Yes	\$ 28.45	\$ 2,561	
Replace Engineering Pickup	Replace vehicle with high mileage.		DW20-157	Awaiting Approval		\$ 40,000	Yes	Nashua	No	\$ 27.13	\$ -	
Replace Engineering Pickup	Replace vehicle with high mileage.		DW20-157	Awaiting Approval		\$ 40,000	Yes	Nashua	No	\$ 27.13	\$ -	
Milford Booster Station	Replace/Relocate/Upgrade the Milford Booster Station (>4MGD)		DW20-157	Awaiting Approval		\$ 800,000	No	Amherst	Yes	\$ 32.93	\$ 26,344	
Temple St (south to gorman)	Replace 900 LF of 8 inch CI with 12 inch DIPCL.		DW20-157	Awaiting Approval		\$ 263,000	Yes	Nashua	Yes	\$ 27.13	\$ 7,135	
School Street (High to W. Pearl Alleyway)	Replace 400 LF of 4 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval		\$ 108,000	Yes	Nashua	Yes	\$ 27.13	\$ 2,930	
Linwood Street	Replace 960 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval		\$ 283,800	Yes	Nashua	Yes	\$ 27.13	\$ 7,699	
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild		DW20-157	Awaiting Approval		\$ 40,000	Yes	Various	Yes	\$ 28.45	\$ 1,138	
Well Pump replacements	Well Pump replacements		DW20-157	Awaiting Approval		\$ 15,000	Yes	Various	Yes	\$ 28.45	\$ 427	
Chemical Feed pump replacements	Chemical Feed pump replacements		DW20-157	Awaiting Approval		\$ 10,000	Yes	Various	Yes	\$ 28.45	\$ 285	
Install/replace treatment systems in small CWS.	Install/replace treatment systems in small CWS.		DW20-157	Awaiting Approval		\$ 15,000	Yes	Various	Yes	\$ 28.45	\$ 427	
Misc. Structural Improvements	Misc. Structural Improvements		DW20-157	Awaiting Approval		\$ 15,000	Yes	Various	Yes	\$ 28.45	\$ 427	
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased		DW20-157	Awaiting Approval		\$ 20,000	Yes	Various	Yes	\$ 28.45	\$ 569	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical		DW20-157	Awaiting Approval		\$ 30,000	Yes	Various	Yes	\$ 28.45	\$ 854	
Well Rehabilitation	Well Rehabilitation		DW20-157	Awaiting Approval		\$ 50,000	Yes	Various	Yes	\$ 28.45	\$ 1,423	
WTP Structural/HVAC	WTP Structural/HVAC		DW20-157	Awaiting Approval		\$ 10,000	Yes	Nashua	Yes	\$ 27.13	\$ 271	
Bowers Pond Spillway Improvements	Bowers Pond Spillway Improvements to bypass revised NHDES flows		DW20-157	Awaiting Approval		\$ 1,800,000	Yes	Merrimack/Nashua	Yes	\$ 27.83	\$ 50,085	Work required to expand Spillway due to NHDES retention of High Hazard classification of Bowers Dam
Purchase new lab equipment	Purchase new lab equipment		DW20-157	Awaiting Approval		\$ 20,000	Yes	Nashua	Yes	\$ 27.13	\$ 543	
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects		DW20-157	Awaiting Approval		\$ 10,000	Yes	Nashua	Yes	\$ 27.13	\$ 271	
Re-paint FWPS ceiling	Re-paint FWPS ceiling		DW20-157	Awaiting Approval		\$ 20,000	Yes	Nashua	Yes	\$ 27.13	\$ 543	
WTP Replace Vehicle	Replace High Mileage Vehicle.		DW20-157	Awaiting Approval		\$ 65,000	Yes	Nashua	No	\$ 27.13	\$ -	
WTP Replace Vehicle	Replace High Mileage Vehicle.		DW20-157	Awaiting Approval		\$ 40,000	Yes	Nashua	No	\$ 27.13	\$ -	
Misc Hardware	Misc Hardware			0.1 DSRR		\$ 20,000	No	Nashua	No	\$ 27.13	\$ -	
Misc Software	Misc Software			0.1 DSRR		\$ 12,000	No	Nashua	No	\$ 27.13	\$ -	
Network Hardawre infrastructure improvements	Update aging network infrastructure.		DW20-157	Awaiting Approval		\$ 80,000	Yes	Nashua	No	\$ 27.13	\$ -	
Major Software Replacement Project				0.1 DSRR		\$ 60,000	No	Nashua	No	\$ 27.13	\$ -	
Munis Enhancements	Munis Enhancements		DW20-157	Awaiting Approval		\$ 35,000	Yes	Nashua	No	\$ 27.13	\$ -	
Pennichuck Water Works Projected 2022 Total Capital Expenditure Budget -						\$ 11,208,600		Projected Property Tax Expense associated with		\$ 290,383		

Total Projected Bond funded PWW QCPAC Capex for 2021 - \$ 10,236,600 less \$ 800,000 for Milford Booster. Milford to pay the 1.1x P&I
Total Projected NHDES SRF/DWGTf funded PWW QCPAC Capex for 2021 - \$ -
Total for 0.1 DSRR Projects - \$ 172,000

Estimated Bond Terms (Bonds to be sold in April 2022) - 30 Years @ 4.0% resulting in P&I of \$ 591,984

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

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount	QCPAC Eligible?	Community	Taxable	Tax Rate (l)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing
2023 New Services (10)	Single Family, Owner Build, New Homes		DW20-157	Awaiting Approval		\$ 50,000	Yes	Various	Yes	\$ 28.45	\$ 1,423	
2023 Renewed Services (20)	Replacement of Failed Services		DW20-157	Awaiting Approval		\$ 110,000	Yes	Various	Yes	\$ 28.45	\$ 3,130	
2023 Hydrants (15)	Replacement of non-functional hydrants		DW20-157	Awaiting Approval		\$ 90,000	Yes	Various	Yes	\$ 28.45	\$ 2,561	
2023 Gates (10)	Replacement of Failed Gate Valves		DW20-157	Awaiting Approval		\$ 40,000	Yes	Various	Yes	\$ 28.45	\$ 1,138	
2023 Radios (500)	Replacement of failed Radios (250), New Radios for new customers (250).		DW20-157	Awaiting Approval		\$ 50,000	Yes	Various	Yes	\$ 28.45	\$ 1,423	
2023 Radios (4000)	Yr 2 of 7 Replacement of all PWW Radios installed in 2007 (4000) by contractor.		DW20-157	Awaiting Approval		\$ 520,000	Yes	Various	Yes	\$ 28.45	\$ 14,795	
2023 Meters (Growth) 5/8"-2" - Core & CWS (TBD)	New meters for new customers, including PFOA (250). Replacement of failed meters(250).		DW20-157	Awaiting Approval		\$ 50,000	Yes	Various	Yes	\$ 28.45	\$ 1,423	
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting Approval		\$ 70,000	Yes	Merrimack	No	\$ 28.52	\$ -	
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting Approval		\$ 70,000	Yes	Merrimack	No	\$ 28.52	\$ -	
Replacment Supervisor Pickup	New Full Sized Pickup to Replace existing high mileage/maintenance pickup.		DW20-157	Awaiting Approval		\$ 45,000	Yes	Merrimack	No	\$ 28.52	\$ -	
Replacement Utility Van	New Utility Van to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting Approval		\$ 40,000	Yes	Merrimack	No	\$ 28.52	\$ -	
Protectus Meter Upgrade	Protectus Meter Upgrade		DW20-157	Awaiting Approval		\$ 22,000	Yes	Nashua	No	\$ 27.13	\$ -	
Miscellaneous Construction Equipment	Miscellaneous Construction Equipment			0.1 DSRR		\$ 40,000	Yes	Merrimack	Yes	\$ 28.52	\$ 1,141	
PWW RRA- ERP	Implement Recommendations Evaluated in 2021.		DW20-157	Awaiting Approval		\$ 500,000	Yes	Various	Yes	\$ 28.45	\$ 14,226	
Sargent Street	Replace 1900 LF 6 inch CI with 1900 LF 16 inch DIPCL.		DW20-157	Awaiting Approval		\$ 84,000	Yes	Nashua	Yes	\$ 27.13	\$ 2,279	
Courtland Street	Replace 1170 LF 4 inch CI with 1170 LF 16 inch DIPCL.		DW20-157	Awaiting Approval		\$ 52,000	Yes	Nashua	Yes	\$ 27.13	\$ 1,411	
Ald Street	Replace 1860 LF of 6 & 8 inch CI with 12 inch DIPCL.		DW20-157	Awaiting Approval		\$ 130,000	Yes	Nashua	Yes	\$ 27.13	\$ 3,527	
Lawndale Avenue	Replace 1085 LF of 6 inch CI with 12 inch DIPCL.		DW20-157	Awaiting Approval		\$ 73,000	Yes	Nashua	Yes	\$ 27.13	\$ 1,980	
Benson Avenue	Replace 550 LF of 4 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval		\$ 28,000	Yes	Nashua	Yes	\$ 27.13	\$ 760	
Spaulding Street	Replace 950 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval		\$ 48,000	Yes	Nashua	Yes	\$ 27.13	\$ 1,302	
Alstead Avenue	Replace 240 LF of 4 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval		\$ 11,000	Yes	Nashua	Yes	\$ 27.13	\$ 298	
Spaulding Avenue	Replace 430 LF of 6, 2, & 1.25 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval		\$ 14,000	Yes	Nashua	Yes	\$ 27.13	\$ 380	
St Lazare Street	Replace 415 LF of 2 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval		\$ 14,000	Yes	Nashua	Yes	\$ 27.13	\$ 380	
Ingalls St (St Camille to end)	Replace 200 LF of 1.5 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval		\$ 6,000	Yes	Nashua	Yes	\$ 27.13	\$ 163	
Nye Avenues	Replace 400 LF of 2 & 1.5 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval		\$ 13,000	Yes	Nashua	Yes	\$ 27.13	\$ 353	
Copp Street	Replace 350 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval		\$ 18,000	Yes	Nashua	Yes	\$ 27.13	\$ 488	
Gray Avenue	Replace 360 LF of 6 inch CI with 6 inch DIPCL.		DW20-157	Awaiting Approval		\$ 15,000	Yes	Nashua	Yes	\$ 27.13	\$ 407	
2022 Nashua City Sewer Projects	To be detremined (Paving)		DW20-157	Awaiting Approval		\$ 200,000	Yes	Nashua	Yes	\$ 27.13	\$ 5,426	
Fairview Street	Replace 800 LF 6 inch CI with 800 LF 8 inch DIPCL.		DW20-157	Awaiting Approval		\$ 47,000	Yes	Nashua	Yes	\$ 27.13	\$ 1,275	
Water Main Replacement Additional Paving Carry Over	TBD from 2022		DW20-157	Awaiting Approval		\$ 400,000	Yes	Nashua	Yes	\$ 27.13	\$ 10,852	
Booster Station Replacement/Upgrade	To be determined		DW20-157	Awaiting Approval		\$ 800,000	Yes	Nashua	Yes	\$ 27.13	\$ 21,704	
Water Main Replacement	To be determined		DW20-157	Awaiting Approval		\$ 3,700,000	Yes	Nashua	Yes	\$ 27.13	\$ 100,381	
2023 Nashua City Sewer Projects	To be determined		DW20-157	Awaiting Approval		\$ 900,000	Yes	Nashua	Yes	\$ 27.13	\$ 24,417	
Merrimack River Watershed Council	Grant Match with other Stakeholders \$40k for five years.			0.1 DSRR		\$ 40,000	No	Various	No	\$ 28.45	\$ -	
Trimble GPS and Monitoring Equipment	Level Monitors, Pressure Monitors and Flow Monitors		DW20-157	Awaiting Approval		\$ 32,000	Yes	Merrimack	No	\$ 28.52	\$ -	
Investment in Developer Services	1x Annual Rvenue		DW20-157	Awaiting Approval		\$ 90,000	Yes	Various	Yes	\$ 28.45	\$ 2,561	
Replace Engineering SUV	Replace vehicle with high mileage.		DW20-157	Awaiting Approval		\$ 30,000	Yes	Various	Yes	\$ 28.45	\$ 854	
Replace Engineering Pickup	Replace vehicle with high mileage.		DW20-157	Awaiting Approval		\$ 40,000	No	Various	Yes	\$ 28.45	\$ 1,138	
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild		DW20-157	Awaiting Approval		\$ 40,000	Yes	Various	Yes	\$ 28.45	\$ 1,138	
Well Pump replacements	Well Pump replacements		DW20-157	Awaiting Approval		\$ 15,000	Yes	Various	Yes	\$ 28.45	\$ 427	
Chemical Feed pump replacements	Chemical Feed pump replacements		DW20-157	Awaiting Approval		\$ 15,000	Yes	Various	Yes	\$ 28.45	\$ 427	
Carbon media changeout-filters 1 & 2 (Spring of 2023)	Carbon media changeout-filters 1 & 2		DW20-157	Awaiting Approval		\$ 500,000	Yes	Nashua	Yes	\$ 27.13	\$ 13,565	
Install/replace treatment systems in small CWS.	Install/replace treatment systems in small CWS.		DW20-157	Awaiting Approval		\$ 15,000	Yes	Various	Yes	\$ 28.45	\$ 427	
Misc. Structural Improvements	Misc. Structural Improvements		DW20-157	Awaiting Approval		\$ 20,000	Yes	Various	Yes	\$ 28.45	\$ 569	
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased		DW20-157	Awaiting Approval		\$ 20,000	Yes	Various	Yes	\$ 28.45	\$ 569	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical		DW20-157	Awaiting Approval		\$ 30,000	Yes	Various	Yes	\$ 28.45	\$ 854	
Well Rehabilitation	Well Rehabilitation		DW20-157	Awaiting Approval		\$ 50,000	Yes	Various	Yes	\$ 28.45	\$ 1,423	
WTP Structural/HVAC	WTP Structural/HVAC		DW20-157	Awaiting Approval		\$ 10,000	Yes	Nasnua	Yes	\$ 27.13	\$ 271	
Purchase new lab equipment	Purchase new lab equipment.		DW20-157	Awaiting Approval		\$ 20,000	Yes	Nashua	No	\$ 27.13	\$ -	
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects		DW20-157	Awaiting Approval		\$ 10,000	Yes	Various	Yes	\$ 28.45	\$ 285	
Replace Vehicle	Replace High Mileage Vehicle.		DW20-157	Awaiting Approval		\$ 65,000	Yes	Nashua	No	\$ 27.13	\$ -	
Carbon media chageout - 3 & 4 (Fall of 2023)	Carbon media chageout - 3 & 4		DW20-157	Awaiting Approval		\$ 500,000	Yes	Nasnua	Yes	\$ 27.13	\$ 13,565	
Replace Vehicle	Replace High Mileage Vehicle.		DW20-157	Awaiting Approval		\$ 40,000	Yes	Nashua	No	\$ 27.13	\$ -	
Misc Hardware	Misc Hardware			0.1 DSRR		\$ 20,000	No	Nashua	No	\$ 27.13	\$ -	
Misc Software	Misc Software			0.1 DSRR		\$ 12,000	No	Nashua	No	\$ 27.13	\$ -	
Network Hardware infrastructure improvements	Update aging network infrustructure.		DW20-157	Awaiting Approval		\$ 80,000	Yes	Nashua	No	\$ 27.13	\$ -	
Major Software Replacement Project				0.1 DSRR		\$ 60,000	No	Nashua	No	\$ 27.13	\$ -	
Munis Enhancements	Munis Enhancements			0.1 DSRR		\$ 35,000	No	Amherst	No	\$ 32.93	\$ -	
Misc Computer replacements				0.1 DSRR		\$ 15,000	No	Nashua	No	\$ 27.13	\$ -	
Pennichuck Water Works Projected 2020 Total Capital Expenditure Budget -						\$ 10,054,000		Projected Property Tax Expense associated with		\$ 257,112		

Total Projected Bond funded PWW QCPAC Capex for 2021 - \$ 9,832,000
Total Projected NHDES SRF/DWGTF funded PWW QCPAC Capex for 2021 - \$ -
Total for 0.1 DSRR Projects - \$ 222,000

Estimated Bond Terms (Bonds to be sold in April 2022) - 30 Years @ 4.0% resulting in P&I of \$ 568,586

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

Pennichuck Water Works
 2021 PWW QCPAC filing
 DW 21-023
 Attachment DOE DR 2-4
 Comparison of Electrical vs. Carbon Expenses
 7/21/2021
 8/23/2021

Comparsion based on treating 11.975 MGD. This is the average daily pumpage through
 the WTP over the past 5 years

	350 HP for one Merrimack River Pump	
	0.746 Kw per HP	
	261.1 KW - electrical draw for one Merrimack River Pump	
	8000 gpm - Average flow rate for 1 MRI pump	
	11.53 MGD - Average flow rate for 1 MRI pump	
\$	0.1206 Unit electrical Cost per KW-Hr - Based on 2020 WTP electrical expenses	
\$	755.73 to run one 350 HP pump 24 hours	
\$	65.56 Electrical cost per MG	
\$	286,552 Additional electrical cost per year to pump from the Merrimack River	
\$	1,650,000 Cost of complete Carbon Change out	
	1.5 Expected Carbon life in years with Pennichuck Brook at average PFOA levels of	18 PPT
	6.75 Expected Carbon life in years with Merrimack River at average PFOA levels of	4 PPT
	MRI carbon life controlled by Taste and Odor or by loss of PFOA adsorption.	
\$	1,100,000 Annual expense of Carbon bed change out if Pennichuck Brook is used as the raw water supply	
\$	244,444 Annual expense of Carbon bed change out if the Merrimack River is used as the raw water supply	
\$	530,996 Annual cost of using MRI (electric + Carbon)	
	3.84 Comparison of PB Carbon Change out to MRI electrical cost	
	2.1 Comparison of PB Carbon Change out to MRI electrical and Carbon Change out cost	

From: Countie, Chris <chris.countie@PENNICHUCK.com>
Sent: Wednesday, August 25, 2021 3:36 PM
To: Ware, Don
Subject: FW: [EXTERNAL] RE: Bowers Dam, confirmation of Hazard Classification



Chris Countie
Director, Water Supply and Community Systems
Pennichuck Water
25 Walnut St.
Nashua, New Hampshire 03061-0428
Ph: (603) 913-2372

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From: Findon-Henry, Jonathan <Jonathan.D.Findon-Henry@des.nh.gov>
Sent: Wednesday, August 25, 2021 3:34 PM
To: Countie, Chris <chris.countie@PENNICHUCK.com>
Subject: [EXTERNAL] RE: Bowers Dam, confirmation of Hazard Classification

Chris, correct. NHDES classifies Bowers Pond Dam as a High Hazard Potential Dam in accordance with Env-Wr 101.21 (copied below). The justification is that the 1991 breach analysis (most recent approved analysis) by H.L Turner estimates that a breach of Bowers Pond Dam during the 100-year flood event would result in high hazard impacts in accordance with Env-Wr 101.21 to some of the condominiums located downstream, to the east of NH-3.

I have attached our rules and definitions with this email. If you are looking for information related to the classifications and/or appeals process, you can look at Env-Wr 303.02 and 303.03, and Env-Wr 402.05 (although this is more applicable to construction/reconstruction projects).

Hope this is helpful, but if not, I am happy to answer other questions or discuss.

Env-Wr 101.21 “High hazard structure” means a dam that has a high hazard potential because it is in a location and of a size that failure or misoperation of the dam would result in probable loss of human life as a result of:

(a) Water levels and velocities causing the structural failure of a foundation of a habitable residential structure or a commercial or industrial structure which is occupied under normal conditions;

(b) Water levels rising above the first floor elevation of a habitable residential structure or a commercial or industrial structure which is occupied under normal conditions when the rise due to dam failure is greater than one foot;

(c) Structural damage to an interstate highway which could render the roadway impassable or otherwise interrupt public safety services;

(d) The release of a quantity and concentration of materials which qualify as “hazardous waste” as defined in RSA 147-A:2, VII; or

Thanks,

Jonny

Jonny Findon-Henry, PE
Dam Safety Engineer
Dam Bureau
Water Division
New Hampshire Department of Environmental Services
29 Hazen Drive
Concord, NH 03302

Telephone:
(603) 271-7507 – desk
(603) 848-8982 – cell
Jonathan.D.Findon-Henry@des.nh.gov

<https://www.des.nh.gov/water/dam-maintenance-and-management>

From: Countie, Chris <chris.countie@PENNICHUCK.com>
Sent: Wednesday, August 25, 2021 10:14 AM
To: Findon-Henry, Jonathan <Jonathan.Findon-Henry@des.nh.gov>
Subject: Bowers Dam, confirmation of Hazard Classification

EXTERNAL: Do not open attachments or click on links unless you recognize and trust the sender.

Good morning Jonny,

We’ve been asked to provide proof that Bowers Dam is classified as High Hazard, according to NHDES, Dam Bureau regulations. By response to this e-mail, could you please confirm this classification?

Best regards,

Chris



Chris Countie
Director, Water Supply and Community Systems
Pennichuck Water
25 Walnut St.
Nashua, New Hampshire 03061-0428
Ph: (603) 913-2372

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BOWERS Reduced to a Significant Hazard Dam									
ITEM 1. August 30, 2021 Letter									
OPINION OF COST 19-May-21									
PENNICHUCK									
ITEM									
Supply Pond Harris Pond Harris Dike Bowers Pond Dam									
A. Earthwork & General Construction									
Erosion and Sedimentation Control	L.S.	\$	30,000	\$	20,000	\$	20,000		
Silt Fence (Install, Maintain & Remove)	L.S.	\$	20,000	\$	16,000	\$	20,000		
Silt Sock (Install, Maintain & Remove)	L.S.	\$	10,000	\$	15,000	\$	8,000		
Topsoil Removal & Stockpile	L.S.	\$	20,000	\$	20,000	\$	-		
Compact Existing Earth w Sheep's Foot Roller	L.S.	\$	35,000	\$	50,000	\$	20,000		
Install and Compact New Backfill	L.S.	\$	32,000	\$	60,000	\$	15,000		
Looming and Seeding (30' Wide for Harris)	L.S.	\$	5,000	\$	5,000	\$	10,000		
Testing	L.S.	\$	15,000	\$	-	\$	-		
Remove Granite Posts	L.S.	\$	15,000	\$	-	\$	-		
Sawcut Existing Pavement	L.S.	\$	42,000	\$	-	\$	-		
Remove and Discard Pavement	L.S.	\$	10,000	\$	-	\$	-		
Remove Exist. Handrail from Access Walk	L.S.	\$	8,000	\$	-	\$	-		
Remove and Replace Door to Garage at Dam	L.S.	\$	5,000	\$	-	\$	-		
Remove Door Round Gate Ho. And Infill w Brick	L.S.	\$	35,000	\$	-	\$	-		
Raise Concrete Walk on Both Sides of Dam	L.S.	\$	20,000	\$	-	\$	-		
Install Granite Bollards	L.S.	\$	35,000	\$	-	\$	-		
Class 1 NHDOT Rip Rap - Placed	L.S.	\$	25,000	\$	-	\$	-		
Regrade Under Bt. Pavement	L.S.	\$	50,000	\$	-	\$	-		
Replace Bit. Pavement	L.S.	\$	-	\$	-	\$	-		
Remove Exist. Fencing and Gate	L.S.	\$	-	\$	20,000	\$	-		
Replace Fencing and Gate	L.S.	\$	-	\$	30,000	\$	-		
Shallow Concrete Retaining Wall at Abutments	L.S.	\$	-	\$	15,000	\$	-		
Raise Penstock Vent Pipe	L.S.	\$	-	\$	15,000	\$	-		
Reconfigure Access to Arch Dam	L.S.	\$	-	\$	20,000	\$	-		
Proof Rolling	L.S.	\$	-	\$	-	\$	10,000		
Construct Concrete Parapet Wall	L.S.	\$	-	\$	-	\$	180,000		
Backfill Lower Section of Wall w/ Flowable Fill	L.S.	\$	-	\$	-	\$	35,000		
Detail Footing Around the Existing Pipes	L.S.	\$	-	\$	-	\$	15,000		
D/S Geotextile Fabric	L.S.	\$	-	\$	-	\$	10,000		
Filter Drain/Special RipRap	L.S.	\$	-	\$	-	\$	80,000		
Estimated NHDES Permit Contingency	L.S.	\$	30,000	\$	20,000	\$	30,000		
Sub-Total	L.S.	\$	451,000	\$	306,000	\$	451,000		
General Conditions (10%)	O.I.	\$	45,100	\$	30,600	\$	45,100		
Overhead & Profit (10%)	O.I.	\$	45,100	\$	30,600	\$	45,100		
Construction Contingency (10%)	O.I.	\$	45,100	\$	30,600	\$	45,100		
Sub-Total		\$	135,400	\$	91,800	\$	135,400		
Add Budget for Structural Stability Analyses		\$	10,000						
Supply - Left Side		\$	15,000						
Supply - Spillway		\$	10,000						
Supply - Right Side		\$			15,000				
Harris - Left Side		\$			25,000				
Harris - Spillway		\$			15,000				
Harris - Right Side		\$			-		10,000		
Sub-Total		\$	35,000	\$	55,000	\$	10,000		
TOTAL Opinion of Cost per Dam		\$	622,500	\$	452,800	\$	596,500		
TOTAL PROJECT OPINION OF COST		\$	2,693,500						
Note: Engineering Costs - Use Current Budget									

BOWERS DAM REMAINS HIGH HAZARD

OPINION OF COST

14-May-21

ITEM 2. August 30, 2021 Letter



ITEM		Bowers (90 Percent)	Harris Dike (Raise 6")
A. Existing Intake:			
Structural Steel Cofferdam	L.S.	\$ 68,000	\$ -
Demolish Existing Intake	L.S.	\$ 40,000	\$ -
Fill Penstock w Concrete	L.S.	\$ 10,000	\$ -
Regrade Upstream Slope	L.S.	\$ 15,000	\$ -
B. New Gates (2) & New Stanchion Bays (2):			
Upstream Stoplogs/Bulkhead	L.S.	\$ 30,000	\$ -
Remove Aluminum Covers	L.S.	\$ 4,000	\$ -
Reconfigure Alum. Covers		\$ 10,000	\$ -
Remove Exist. Stoplogs	L.S.	\$ 5,000	\$ -
Remove Exist. Stanchions	L.S.	\$ 4,000	\$ -
Two (2) New Gates w/ Operator:			
Supply Two (2) New Gates w/Operator	L.S.	\$ 290,000	\$ -
Install 2 New Gates	L.S.	\$ 40,000	\$ -
Install Two (2) New Stoplog Bays	L.S.	\$ 40,000	\$ -
C. Earthwork			
Erosion/Sediment Control	L.S.	\$ 15,000	\$ 10,000
Right Side Rip-Rap	L.S.	\$ 20,000	\$ -
Left Side Rip-Rap	L.S.	\$ 20,000	\$ -
D/S Spillway Rip-Rap	L.S.	\$ 20,000	\$ -
Vegetative Cover Left D/S Embankment	L.S.	\$ 10,000	\$ -
Vegetative Cover Near Former Intake	L.S.	\$ 6,000	\$ -
Vegetative Cover/Burrows Crest Right	L.S.	\$ 10,000	\$ -
Topsoil Removal & Stockpile	L.S.	\$ 15,000	\$ -
Compact Existing Earth w Sheeps Foot Roller	L.S.	\$ 10,000	\$ -
Level/Grade Earth Embankment	L.S.	\$ 20,000	\$ 20,000
D. Auxilliary Spillway (L/S of Dam)			
Cofferdam (Steel Sheetpiles U/S & D/S)	L.S.	\$ 95,000	\$ -
Excavation	L.S.	\$ 22,000	\$ -
Geotextile Grid	L.S.	\$ 10,000	\$ -
Backfill/Compaction	L.S.	\$ 20,000	\$ -
Articulated Concrete Block (\$20./SF)	L.S.	\$ 390,000	\$ -
Loaming and Seeding	L.S.	\$ -	\$ 15,000
		\$	\$ 45,000
			Dike Sub-Total
E. Other			
New Fence/Gate 270 L.F.	L.S.	\$ 22,000	\$ -
Testing	L.S.	\$ 5,000	\$ -
Estimated NHDES Permit Contingency	L.S.	\$ 30,000	\$ -
Sub-Total Bowers			
	L.S.	\$ 1,311,000	
Sub-Total Harris Dike			
	L.S.	\$ 45,000	
Sub-Total for Both			
	L.S.	\$ 1,356,000	
General Conditions (10%)			
	0.1	\$ 135,600	
Overhead & Profit (10%)			
	0.1	\$ 135,600	
Construction Contingency			
	0.1	\$ 135,600	
Sub-Total			
		\$ 406,800	
Project TOTAL Opinion of Construction Cost			
		\$ 1,762,800	
(w/Minimal Work Req'd. on Dike)			

Note: Engineering Costs - Use Current Budget