2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-1 Witness: Larry D. Goodhue

REOUEST:

Re: Response to Staff Tech 1-1 and Updated Exhibit DLW-1, Page 3 (2020 CapEx): The Company's response to Staff Tech 1-1 indicates that it sold bonds on April 2, 2021 totaling \$5,190,000 in two series (Series A [\$5,065,000] and Series B [\$125,000]) at an average coupon rate of 4.056692%. However, Updated Exhibit DLW-1, Page 3, Line 151 indicates that the Company's 2020 CapEx funded with Bonds is \$5,605,797, which is \$415,797 greater than the amount of bonds it stated was sold on April 2. Please provide a detailed explanation as to the financing source (if any) for this \$415,797 differential.

RESPONSE:

The difference cited is the result of the fact that the bonds issued on April 2, 2021, were issued at a "premium" into the markets. Investors and the market will determine the appetite to purchase bonds at either: par, a premium, or a discount. This is all based upon individual investor portfolio requirements, and/or market supply vs demand objectives. When issuing bonds, PWW's overall and sole objective is to provide for the cash flow needed to payoff borrowed FALOC funds for eligible capital projects funded during the preceding year, as qualified and used and useful by year-end, under the QCPAC program. As such, the par amount of the issued bonds will almost always differ from the cash brought in from an issuance, as bonds are almost always issued at premium or discount. In the case of this April 2021 issuance, only \$5,190,000 of bonds (at par value) needed to be issued, in order to bring in the \$5.6 million in cash needed for these projects. The difference is recorded on the Company's books as Bond Premium, which is amortized over the term of the issued bonds (as either a "bond ladder" of term bonds, or as longer-term bonds, with annual sinking fund payments). The amortization of the premium is included as a factor in the calculated average coupon rate cited above.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-2 Witness: Larry D. Goodhue

REQUEST:

Re: Response to Staff Tech 1-15 and Updated Exhibit DLW-1, Page 3 (2020 CapEx): Based on the Company's response to Staff Tech 1-15, it appears that a total of \$733,100 in fit up costs were expended in 2020 related to the Company's move of its corporate office from Merrimack to Nashua. Further, it appears that these fit up costs will result in an increase of \$19,074 in annual property tax expense.

- a) Please explain whether these amounts represent, i) the full 2020 fit up costs incurred by both PWW and its affiliates, or ii) PWW's allocated share of the 2020 fit up costs.
- b) If the Company's response to (a) is (i), please provide a detailed explanation as to how PWW intends to ensure that its ratepayers are not paying a greater amount than necessary relative to these costs through the QCPAC until such time that new permanent rates are approved in its next general rate proceeding.
- c) If the Company's response to (a) is (ii), please provide a detailed explanation of the allocation methodology utilized to apportion these costs amongst PWW and its affiliates. Please provide the detailed computations.

- a) This \$733,100 amount represents the full incurred for the project, not just PWW's share. PWW funds paid for the entire cost of the fit-up, as the tenant in the building (as it was in the previous headquarters facility). The recovery of a portion of those funds is recovered through the Return on Assets portion of the Management Fee Allocation, over the useful life of these costs. This is consistent with the recovery of fit-up costs for the corporate headquarters for the Company, as included in the approved and consistently applied Management Fee Allocation.
- b) This amount was fully funded out of DSRR 0.1 funds earned in 2020 from the Company's already approved permanent rates from its last completed general rate proceeding. As such, these costs will not create an amount for ratepayers that is included in the QCPAC surcharge at this time or going forward or be an element of the underlying factors (OERR/MOEF, DSRR and CBFRR) used to justify rates requested in the next general rate proceeding.

c) As stated in response (a) above, the allocation of these fit-up costs are included in the Company's Return on Assets (ROA) portion of the Management Fee Allocation between the operating companies of the Corporate Group, as of 1/1/2021, as has been done in the past for any fit-up costs related to the previously occupied leased headquarters facility. This amount is subject to recovery from the companies as an amount subject to the rate of return calculation in that portion of the Management Fee Allocation ("MFA"), currently at a rate of return of 4.51%, and is then allocated to the companies in accordance with the other factors in the model for Tier 1 costs. The ROA calculation is based upon the Net Book Value of the underlying assets, as they are depreciated over their useful lives. Included in the full cost of fit-up are certain assets that have useful lives between 7-15 years, and as such the ROA on these assets included in the MFA will decrease each year as the assets are depreciated to maturity. Under the current, ROA for the full initial value of the fit-up costs, the amount shares between the companies is $(\$733,100 \times 4.51\% =$ \$33,062.81). The manner in which all Tier 1 costs are allocated varies from month to month and are trued up on a year-to-date basis for each month leading up to the final year-end calculated values. The actual allocation dollar amounts vary each month (and each year), as they are allocated in accordance with the approved model, based upon actual: (1) pro-rata revenues, (2) total assets, (3) customers, (4) employees, and (5) square footage dedicated specifically vs shared, in the headquarters facility. As of current metrics through the month of May, the ROA portion of the MFA is 75.26% PWW, 20.28% PEU, 1.41% PAC and 3.05% to Pennichuck Water Service Company. It is important to note, however, that: (1) this is consistent with the approved methodology for the sharing of recovery on all assets owned by PWW, for which the benefit is shared by all other companies in the consolidated group, (2) the ROA Assets portion of the MFA is only one of several allocation methodologies/tiers within the MFA, as approved and consistently applied for costs borne, and (3) the direct cost of the leased facility (i.e. monthly lease payments) are shared pursuant to the MFA in the portion of the model that allocated operating expenses borne for which all of the companies directly or indirectly benefit, including the depreciation of these fit-up cost assets, as well as the impact of any property taxes on these personal property assets.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-3 Witness: Donald L. Ware

REQUEST:

Re: Updated Exhibit DLW-1, Page 3 (2020 CapEx): For each of the following 2020 capital improvements, please provide a detailed explanation as to why they are subject to a property tax assessment:

	<u>Description</u>	<u>Cost</u>	<u>Tax</u>
a)	Ln 27: Replacement Equipment /Excavator Trailer	\$17,917	\$511
b)	Ln 28: Buyout Lease of HP T2530PS Large Format Printer	\$4,995	\$142
c)	Ln 41: Asset Management – GIS QA/QC ahead of NEW CMMS	\$56,448	\$1,610
d)	Ln 50: Replace Engineering Pickup	\$ 23,470	\$669
e)	Ln 51: Replace Engineering SUV # 34	\$24,432	\$697
f)	Ln 128: CMMS replacement project*	\$433,263	\$11,754

(*Per Boisvert Testimony, Page 16 (Pg. 56), Lines 2-4, it appears this includes both software and hardware.)

- a) Acct 341.00 Transportation equipment is not taxable. This line has been changed in the attached revised Exhibit DLW-1, Page 3 to reflect that the Replacement Equipment/Excavator Trailer is not subject to property taxes.
- b) Acct 340.10 Office Equipment is not taxable. This line has been changed in the attached revised Exhibit DLW-1, Page 3 to reflect that the Buyout Lease of HP T2530PS Large Format Printer is not subject to property taxes.
- c) Acct 347.11 Computer Equipment-Hardware/Software is a taxable account based on RSA 83F, the Statewide Utility Tax. This account is reported as taxable based on Form PA-83. The Asset Management GIS QA/QC ahead of the NEW CMMS project is booked to Acct 347.11, and therefore is reportable as taxable property.
- d) Acct 341.00 Transportation equipment is not taxable. This line has been changed in the attached revised Exhibit DLW-1, Page 3 to reflect that the Replace Engineering Pickup is not subject to property taxes.

- e) Acct 341.00 Transportation equipment is not taxable. This line has been changed in the attached revised Exhibit DLW-1, Page 3 to reflect that the Replace Engineering SUV #34 is not subject to property taxes.
- f) Acct 347.11 Computer Equipment-Hardware/Software is a taxable account based on RSA 83F, the Statewide Utility Tax. This account is reported as taxable based on Form PA-83. The CMMS replacement project is booked to Acct 347.11, and therefore is reportable as taxable property.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-4 Witness: Donald L. Ware

REQUEST:

Re: Updated Exhibit DLW-1, Page 3 (2020 CapEx), Line 74 – MSDC payment to MWW-\$166,347:

- a) Please provide further explanation with regard to the basis for this particular line item and its inclusion for recovery under the QCPAC mechanism.
- b) Please provide a detailed explanation with regard to how the transaction involving the payment of these MSDC charges was recorded on the books and records of the Company, and if there will be an annual amortization of these charges (and over what period of time).
- c) In Commission Order No. 26,076 (November 17, 2017) in Docket Nos. DW 17-119 and DW 17-120, the Commission approved a new method by which the Company (and PEU) would collect the MSDC from individual customers upon their connection to the system rather than from the entire customer base as a whole. In that order the Commission commented, "Applying the MSDC to customers as they connect a new service line to a system that purchases its supply from Manchester Water Works, eliminates an expense shared by all customers and thereby mitigates any claim that the fee is unjust or unreasonable when applied to customers who do not take supply from Manchester Water Works." (See Page 4, Commission Analysis) Please explain how the Company's proposed inclusion of the MSDC in the QCPAC in this circumstance comports with Commission Order No. 26,076.

RESPONSE:

a) Per PWW's purchase water contract with Manchester Water Works (MWW), PWW must pay for used MSDC capacity which is based on the average highest two months of usage on a gallons per day (gpd) basis based on PWW's total usage from its metered connections with MWW. Since 2020 was a drought year, there was record usage. Prior to 2020, PWW had purchased 569,005 gpd of MSDC capacity. In 2020, PWW used 616,346 gpd in MSDC capacity resulting in PWW needing to purchase an additional 47,341 gpd of capacity at \$3.79 per gpd or \$179,421.94. Since the approval of PWW's tariff which allowed it to collect MSDC from individual customers, PWW collected \$13,076 from new customers in accordance with Commission Order No 26,076 leaving a residual MSDC fee to be collected of \$166,346. The

MSDC is a source of supply cost and the Company included the cost of this fee as a regulatory asset and the cost of that asset is amortized over 20 years, the terms of the PWW/MWW purchased water agreement. Please see the Attachment Staff DR1-4 for the calculation of this fee as provided by MWW and verified by PWW.

- b) The \$166,347 is recorded as a regulatory asset and it will be amortized over 20 years. Since the cash that was used to pay this asset was paid for by the Bonds sold on April 2, 2021, and the principal and interest associated with this Source of Supply Expense is proposed to be collected via the QCPAC, the amortization expense associated with this regulatory asset will be pro forma out of amortization expense in future rate cases and will not be collected as part of the MOERR.
- c) The fees collected by PWW in accordance with Commission Order No. 26,076 were collected from new customers in the amount of \$13,076, and reduced PWW's MSDC payment to MWW from \$179,421.94 to \$166,346. The additional MSDC usage above and beyond that used and paid for by new customers was created by record usage by existing PWW customers during the summer months of 2020 that was a result of record outside usage in response to the drought in 2020. Since the \$166,346 was driven by existing customers, this expense is appropriately shared by all PWW's rate payers as it has been in past rate cases.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-5 Witness: Donald L. Ware

REQUEST:

Re: Updated Exhibit DLW-1, Page 3 (2020 CapEx), Line 102; Boisvert testimony Page 8 (Page 48), Line 23 to Page 9 (Page 49), Line 4 and Page 22 (Page 62), Lines 7-14:

- a) The cost of media replacement in filters 5 & 6 increased from an estimated \$450,000 in the 11/30/2020 update to a final 12/31/2020 price of \$495,331. Please indicate the reason for the increase.
- b) How does the company determine when the carbon media is exhausted or needs replacement?
- c) Is the media replacement put out to bid? Please explain.
- d) Is the removed media landfilled? Regenerated? Please explain.
- e) What factors or limits will determine the amount of each source (Merrimack River, Pennichuck Brook) the company will be able to use going forward?
- f) Other than carbon media impacts, are there other differences in water chemistry or treatment costs associated with using one source v. the other? Please explain.

- a) The 11/30/2020 estimate should have been updated. The \$450,000 estimate was based on the most recent filter media changeout. When the bids to replace the media were received the low bid was \$495,331
- b) Samples are gathered on a monthly basis and sent to an independent laboratory to determine certain parameters that indicate the removal capacity of the media. Comparing the results to industry standards and original specifications determines the time to replace media. Since we are also using the media for PFOA removal, samples for this contaminant are analyzed on a monthly basis to determine removal effectiveness.
- c) Yes. The media replacement is put out to bid. There are two US suppliers of carbon, Calgon Corporation and Cabot/Norit. Calgon Corporation was the low bidder on the carbon replacement project.
- d) Disposal of the removed media is the responsibility of the entity providing the replacement carbon and included in the cost of the carbon replacement project. PWW is not aware of whether the media removed from Filter's 5 & 6 was disposed or regenerated by Calgon Corporation. If Calgon regenerates the carbon it is for reuse only for non-potable water treatment applications.

- e) Due to the New Hampshire Department of Environmental Services (NHDES) PFAS regulations, in particular the standard for Perfluorooctanoic Acid (PFOA) of 12 parts per trillion (ppt), the Company will use the Merrimack River as its primary source of water because the level of PFOA in the Merrimack River is substantially lower than that found in the Pennichuck Brook Water Supply. The level of PFOA in the Merrimack River supply varies from non-detect to 5 ppt. The level of PFOA in the Pennichuck Brook system varies between 11 ppt and 40 ppt. The use of the Merrimack River instead of Pennichuck Brook water will extend the life of the carbon (for PFOA removal) by a factor of about 4 times. The Company will only use the Pennichuck Brook water as a source of supply in the future would be if: 1) there is a contamination event in the Merrimack River, 2) there are mechanical problems or maintenance work that is being performed at the Merrimack River Intake that would preclude the use of the Merrimack River as a source of supply, or 3) the PFOA levels in the Pennichuck Brook Supply dropped to levels similar to those of the Merrimack River Intake..
- f) The Merrimack River and Pennichuck Brook raw water supplies have very similar water qualities and the use of one supply versus the other does not increase or lesson the cost of treatment other than the cost of electricity. The Merrimack River supply requires electricity to deliver water from the Merrimack River to the Water Treatment Plant (WTP). The Pennichuck Brook supply flows by gravity into the WTP by gravity so no electricity is required. Additional electrical expenses associated with the use of the Merrimack River, as detailed in Mr. Boisvert's testimony, is offset several times by the cost savings created by less frequent Carbon changeouts required in the use of the Merrimack River Supply versus the use of the Pennichuck Brook, which are driven by the levels of PFOA in each supply.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-6 Witness: John J. Boisvert

REQUEST:

Re: Updated Exhibit DLW-1, Page 4 (2021 CapEx), Line 35:

- a) The Kessler Farm Tank Replacement cost appears to have increased substantially, from \$3,328,000 in the DW 20-020 11/30/2020 update to \$4,000,000 currently. Please explain.
- b) Please provide a copy of the most recent tank inspection report.

- a) The budget for the project was adjusted based on the bids received. The bid values were higher than the original estimates for the project (prepared in 2019). During 2020 the cost of many building materials doubled or even tripled in price. There were significant increases in the price of steel, concrete, and lumber, the primary building materials for this project, that could not have been foreseen when the initial project estimate was completed in 2019.
- b) A copy of the October 17, 2014 report is attached to this response as Attachment DOE 1-6.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-7 Witness: John J. Boisvert

REQUEST:

Re: Updated Exhibit DLW-1, Page 4 (2021 CapEx), Line 36: The cost of the Coburn Woods main replacement project appears to have increased from \$1,188,000 (as a 2022 project in DW 20-020) to \$1,855,000 in the current docket. Please explain.

RESPONSE:

The amount of \$1,188,000 was the budget for the work on this project that the Company originally planned to complete in 2020. That budget included the installation of the watermain and services but not the final paving restoration. A late start in 2020 did not allow for much to be completed as winter conditions forced a shutdown of the project until the Spring of 2021. Final paving and site restoration were planned for 2021 with the cost for that work being the difference between \$1,855,000 and \$1,188,000 (or \$667,000). The Company intends to complete the water main installation and most of the site restoration in 2021. However, the pace of construction has been slowed due to the contractor encountering unmapped and poorly located buried utilities (primarily telecom and electric). It is likely that a portion of the project will be carried over into 2022. The Company will not be able to confirm the scope of work that will be complete this year until the fourth quarter of 2021.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-8 Witness: John J. Boisvert

REQUEST:

Re: Updated Exhibit DLW-1, Page 4 (2021 CapEx), Lines 40-41: Please comment on the nature and purpose of the proposed Sweet Hill and Twin Ridge interconnections.

RESPONSE:

These two community water systems (CWS) are located in Plaistow, NH. Both systems have suffered from a shortage of supply either due to the failure of a well or depleted water levels in the aquifer. These failures required the trucking of water into each system from time to time. In addition, the Twin Ridge system has suffered from poor water quality, including elevated hardness, manganese, and sodium levels that have been the primary concerns. The Southern NH Regional Water System will allow the Town of Plaistow to convert its water distribution system from a fire suppression system into a potable public water system. The converted Plaistow distribution system is near Twin Ridge and Sweet Hill to cost effectively provide an interconnection to serve as both a redundant and supplemental source of supply. The NHDES has approved loan funding for the projects through the NH State Revolving Fund. The Company is in the process of completing the final applications to NHDES and will be filing a petition with the NHDOE for approval for the Company to accept the SRF loan. The petition will be filed during the third quarter of 2021.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-9 Witness: John J. Boisvert

REQUEST:

Please indicate the current status of the following 2021 projects:

- a) Kessler Farm tank replacement.
- b) Coburn Woods main replacements.
- c) Harris Dam improvements.
- d) Supply Pond spillway improvements.

- a) In construction. Used and useful date by December 2021
- b) In construction. Due to the pace of construction which has been slowed due the contractor encountering poorly located utilities (telecom and electric) as well as private sewers, the project is expected to carry over into 2022 even the though most of the work will be completed in 2021.
- c) Construction delayed due to environmental permitting and approvals by the NHDES Dam Bureau. Construction is expected to proceed in 2022.
- d) Construction delayed due to environmental permitting and approvals by the NHDES Dam Bureau. Construction is expected to proceed in 2022.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-10 Witness: Donald L. Ware

REQUEST:

Re: Updated Exhibit DLW-1, Page 4 (2021 CapEx): The following proposed 2021 CapEx projects are indicated as <u>not</u> QCPAC eligible in 'Column H' of Updated Exhibit DLW-1, Page 4. However, the budgeted cost of these projects appear to be included in the anticipated bonding of 2021 CapEx to occur in 2022. Please explain.

	<u>Description</u>	<u>Amount</u>
a)	Ln 37: Merrimack River Watershed Council (Grant Match)	\$40,000
b)	Ln 63: Vehicle Replacement	\$55,000
c)	Ln 64: Vehicle Replacement	\$40,000
d)	Ln 70: Infoview Licenses	\$65,000

RESPONSE:

Of the projects listed above in a) through d) only the Merrimack River Watershed Council (Grant Match) found on Line 44 on Exhibit DLW-1, Page 4 should have been labeled as not QCPAC eligible. All the costs associated with projects listed in b-d above were included in the anticipated bonding to fund 2021 Capex. The Merrimack River Watershed Council (Grant Match) should not be included in the anticipated 2021 Bond Total as the cash for this project is being provided from 0.1 DSRR funds. The attached Exhibit DLW-1 has been corrected to reflect the changes noted above.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Request No. DOE 1-11 Jay Kerrigan

Witness: Donald L. Ware,

Date of Response: 7/20/21

REQUEST:

Re: Updated Exhibit DLW-1, Page 4 (2021 CapEx): It does not appear that the municipal/state property tax rates indicated in 'Column O' of Page 4 of Updated Exhibit DLW-1 are in agreement with the municipal/state property tax rates indicated in 'Column O' of Page 3 of Updated Exhibit DLW-1 (2020 CapEx). Please explain.

RESPONSE:

The tax rates in "Column O" on Page 4 have been changed to reflect those detailed in "Column O" on page 3 the attached revised Exhibit DLW-1. I have also adjusted the rates in "Column O" on pages 5 and 6 so that all the tax rates match.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-12 Witness: Donald L. Ware

REQUEST:

Re: Updated Exhibit DLW-1, Page 4 (2021 CapEx): Please explain why the following two significant projects budgeted for 2021 are indicated as not taxable in 'Column N' of Page 4 of Updated Exhibit DLW-1:

	<u>Description</u>	<u>Amount</u>
a)	Ln 35: Kessler Farm Tank Replacement	\$4,000,000
b)	Ln 36: Auburn Woods (all side streets)	\$1,855,000

RESPONSE:

Both projects noted above should have been listed as taxable. The attached revised Exhibit DLW-1 has been revised to reflect those projects that are taxable.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-13 Witness: Donald L. Ware

REQUEST:

Re: Updated Exhibit DLW-1, Page 4 (2021 CapEx): For each of the following 2021 budgeted capital improvements, please provide a detailed explanation as to why they would be subject to a property tax assessment:

<u>Description</u>	<u>Cost</u>	<u>Tax</u>
a) Ln 21: Replacement Valve/vac trailer	\$ 65,000	\$1,731
b) Ln 22: Replacement Equipment Trailer	\$ 7,000	\$200
c) Ln 24: Valve Turner & Vac Truck	\$200,000	\$5,772
d) Ln 60: Purchase new lab equipment	\$20,000	\$533
e) Ln 69: CMMS replacement project (Estimate)	\$100,000	\$2,663
f) Ln 80: CMMS PLL Implementation	\$170,000	\$4,527

- a) Acct 341.00 Transportation equipment is not taxable. This line has been changed in the attached revised Exhibit DLW-1, Page 4 to reflect that the Replacement Valve/Vac Trailer is not subject to property taxes.
- b) Acct 341.00 Transportation equipment is not taxable. This line has been changed in the attached revised Exhibit DLW-1, Page 4 to reflect that the Replacement Equipment Trailer is not subject to property taxes.
- c) Acct 341.00 Transportation equipment is not taxable. This line has been changed in the attached revised Exhibit DLW-1, Page 4 to reflect that the Valve Turner & Vac Truck is not subject to property taxes.
- d) Acct 344.00 Laboratory equipment is not taxable. This line has been changed in the attached revised Exhibit DLW-1, Page 4 to reflect that Purchased new lab equipment is not subject to property taxes.
- e) Acct 347.11 Computer Equipment-Hardware/Software is a taxable account based on RSA 83F, the Statewide Utility Tax. This account is reported as taxable based on Form PA-83.

CMMS replacement project is booked to Acct 347.11, and therefore is reportable as taxable property.

f) Acct 347.11 - Computer Equipment-Hardware/Software is a taxable account based on RSA 83F, the Statewide Utility Tax. This account is reported as taxable based on Form PA-83. CMMS PLL Implementation project is booked to Acct 347.11, and therefore is reportable as taxable property.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-14 Witness: John J. Boisvert

REQUEST:

Re: Boisvert testimony, Page 8 (Page 48), Lines 13-15: Please indicate the nature of the "emergency generator connection" for the third raw water pump.

RESPONSE:

The emergency generator connection is to provide a means to power one of the three 350 horsepower pumps at the Merrimack River Raw Water Pumping Station during an extended loss of power at the station. The emergency could be the loss/failure of the existing transformer feeding the station or the failure of the electric transmission lines leading to the station. The project will provide the ability to connect a generator to the station for planned maintenance to the electric lines or the existing transformer to keep the station in service. The major component of the work is the installation of a manual transfer switch and associated electrical equipment, wiring and conduits.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-15 Witness: Donald L. Ware

REQUEST:

Re: Boisvert testimony, Page 8 (Page 48), Lines 17-23: Please provide the supporting calculation for the comparison of raw water pumping cost to carbon media change-outs.

RESPONSE:

The Company transitioned from using Pennichuck Brook to the Merrimack River as the primary source of for the Nashua Core water system. The transition was driven by the presence of the contaminant perfluorooctanoic (PFOA) above the drinking water standards set by the NHDES in the Pennichuck Brook. The level of PFOA in the Merrimack River is below the drinking water standard. Though the granular activated carbon (GAC) media in the filters at the treatment facility adsorbs (collects) PFOA such that filtered water has PFOA below drinking water standards if not below laboratory detection, the GAC does not perform this way indefinitely. The GAC essentially begins to fill up and cannot hold or collect additional PFOA, resulting in the breakthrough of PFOA leading to increased concentrations of PFOA in the treated water. Without replacement of the GAC, the concentrations will rise to the levels found in the raw water. If Pennichuck Brook was 100% of the source, the concentration would rise to the level which is consistently above the NH drinking water standard resulting in a water quality violation. The same is true when the Company uses the Merrimack River but, the concentrations found in the Merrimack River water is below the PFOA standards. So, even if breakthrough of PFOA were to occur, it would breakthrough at a concentration below the drinking water standard. Because the Company can only pump approximately 22 million gallons per day (mgd), and there are times when customer demand exceeds 22 mgd requiring a blend of Pennichuck Brook and Merrimack River raw water. That blend of water may or may not be below the drinking water standard depending of the flow from each source and the concentration from each source. The Company must maintain enough adsorptive capacity in the GAC media to ensure no matter what raw water source (or combination) is being used, that the filters will produce water well below the standards. GAC media replacement is the way compliance is ensured. Monitoring and tests allow staff to assess the current conditions of the GAC media such that media can be replaced at the correct times. Neither before the GAC is used up or too late when breakthrough could occur.

Prefaced on the paragraph above, there is not a defined rule of when the GAC media requires replacement. It is a function of flow (demand) and the concentration of PFOA being filtered. Both factors have their own influencing variables and thus are variable too. Based on sampling of Filters 1 and 2 over the past 2.5 years, the PFOA broke through the carbon at about two years treating a combination of Pennichuck Brook and Merrimack River Water with an average PFOA

concentration of about 11 ppt. Based on an average PFOA concentration of 18 ppt in the Pennichuck Brook Supply, it is expected that the carbon would last about 1.5 years before PFOA breakthrough if the Company used the Pennichuck Brook Supply exclusively. The average PFOA in the Merrimack River is well below the NHDES standard; therefore the breakthrough of PFOA would not drive the carbon replacement. The replacement of the carbon when using the Merrimack River source water will likely be driven by taste and odor. Since the Merrimack River has not been used exclusively until 2020, it is not known how long the carbon will last in treating taste and order. Since the indicators of taste and odor are less prevalent in the Merrimack River than in Pennichuck Brook, it has been assumed that the carbon will last at least 7 years. As taste and odor is being removed over time, the PFOA in the Merrimack River water will also be adsorbed by the carbon. Based on an average of 4 ppt of PFOA in the Merrimack River Water, it is estimated that the carbon adsorption of PFOA will last about 4.5 times longer than that of Pennichuck Brook so the projected carbon life using the Merrimack River will be about 6.75 years.

Based on these facts, the Company estimates that the overall cost of treating (carbon plus electricity) the Merrimack River Water will be about 2.4 times less than treating the Pennichuck Brook water. The 1/5th reference in Mr. Boisvert's testimony was a comparison of carbon replacement costs vs. extra electricity and did not include the carbon replacement cost when using the Merrimack River. Please see Attachment DOE 1-13 for a detailed set of calculations supporting the numbers discussed above.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-16 Witness: John J. Boisvert

REQUEST:

Re: Boisvert testimony, Page 10 (Page 50), Lines 12-13:

- a) Please provide an updated figure for the total cost of mains replaced in 2020.
- b) Please indicate the total number of feet of mains replaced in 2020.

- a) The total cost was \$1,538,500
- b) 4,237 linear feet.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-17 Witness: John J. Boisvert

REQUEST:

Re: Boisvert testimony, Page 11 (Page 51), Lines 9-10 and Staff Tech 1-11: The three projects referenced in the response appear to be only a portion of the main replacements proposed for 2021. Please clarify, and indicate the total cost of mains currently proposed to be replaced in 2021.

RESPONSE:

They were the only planned water main replacements when the Petition was filed. The other watermain replacements listed in Exhibit DLW-1, page 4, lines 28-33 were completed in 2020 with only restoration and paving scheduled for 2021.

The two projects planned for 2021, Balcom Street and Euclid Avenue, are going to be deferred to 2022 and replaced with water main replacements associated with City of Nashua Sewer project and a NHDOT project in Amherst. The watermain replacements are associated with the following streets Faxon Street, Faxon Avenue, Kendrick Street, and Miami Street in the City of Nashua. The NHDOT project is a reconstruction of a section of Route 101A in Amherst and required the relocation/replacement of approximately 1,500 linear feet of 24-inch diameter water main. The budget for these projects will come from projects that are being deferred to 2022 including Balcom Street and Euclid Avenue mentioned above.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-18 Witness: John J. Boisvert

REQUEST:

Re: Boisvert testimony, Page 14 (Page 54), Lines 12-22:

- a) Please provide a copy of the permit to construct the deep-water intake, or other documentation indicating the requirement to complete the Modified Source Water Protection Plan.
- b) Is the Plan being prepared internally or externally? Please explain.
- c) If externally, how was the contractor chosen?
- d) When is the Plan expected to be completed?

- a) A copy of the NHDES letter dated January 19, 2021 approving the design of the project is found in Attachment DOE 1-18. The section of the letter requiring the Modified Source Water Protection Plan (MSWPP) is highlighted.
- b) The MSWPP is being completed with the assistance of a consultant and with internal staff resources.
- c) The consultant (Geosyntec) was selected based upon their qualifications.
- d) On or about December 1, 2021.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/21/21 Date of Response: 7/20/21 Request No. DOE 1-19 Witness: Donald L. Ware

REQUEST:

Re: Boisvert Testimony, Page 16 (Page 56), Lines 21-22 and Page 22 (Page 62), Lines 7-14; Updated Exhibit DLW-1, Page 3, Line 102:

- a) Based on Mr. Boisvert's testimony, it would appear that the currently anticipated useful life of a carbon media filter is approximately four years. Please confirm.
- b) Please indicate the recorded service life(s) and annual depreciation expense for 'Carbon media changeout-filters 5&6' in the amount of \$495,331 indicated on Line 102 of Page 3 of Updated Exhibit DLW-1.

- a) The projected four year carbon life is based on the fact that the current media was treating Pennichuck Brook water with high levels of PFOA during the summer of 2020. This was done because one of the two original raw water pumps in the Merrimack River Raw Water Station had not been rebuilt and the new third raw water pump had not been installed yet. The use of Pennichuck Brook water for about 35% of the raw water supply during the Summer of 2020 which resulted in the capacity of carbon in filters being used more quickly than if all the water had come from the Merrimack River. The Company anticipates an average filter life of about 7 years (see response to DOE 1-15) now that the Merrimack River raw water supply can meet almost all of Pennichuck's raw water supply needs, as a result of the rebuild of the two existing pumps and addition of the third river pump.
- b) For depreciation expense purposes, the Company recorded the service life of the Carbon media as 7 years which would result in an annual depreciation expense of \$70,762.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-20 Witness: John J. Boisvert

REQUEST:

Re: Boisvert Testimony, Page 20 (Page 60), Lines 9-10: With regard to '2022 Vertical Projects', Mr. Boisvert states that, "The replacement of the Milford Booster Station is also anticipated in <u>2021</u>." (Emphasis added.) Please confirm that the replacement of the Milford Booster Station will, in fact, occur in 2022 per Updated Exhibit DLW-1, Page 5, Line 47.

RESPONSE:

Design of the Milford Booster Station will be undertaken in 2021 and replacement will commence in 2022. The proposed land upon which the replacement station is to be located is owned by the NH Department of Transportation (NHDOT). The NHDOT has advised that the approval process for them to grant the required easement could take 6 to 12 months pushing construction to 2022. The cost to construct this station will be borne by the Milford Water Department via its fixed annual payment which will be determined as part of an upcoming Cost of Service Study and petition to the DOE to approve a new PWW-Milford Water Department Special Purchase Water Contract to be submitted later this year and planned to go into effect in March of 2022.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-21 Witness: Donald L. Ware

REQUEST:

Re: Proposed 2021 QCPAC Budget:

- a) Does the Company agree that the annual 'current year' capital budget, which in this filing is 2021, should be inclusive of a budget line item and amount pertaining to the anticipated interest on short-term borrowings, i.e. the Fixed Asset Line of Credit (FALOC), incurred during the construction / acquisition of the current year CapEx, that will be included in the subsequent year bonding? Please explain.
- b) Please provide the short-term interest amount that the Company currently anticipates will be incurred relative to its 2021 CapEx. Please provide the detailed calculation(s).

RESPONSE:

- a) Yes.
- b) It is not possible to accurately project the expected short-term interest amount that the Company currently anticipates it will incur in regard to its 2021 Capex necessary to provide an accurate "detailed calculation" due to:
 - 1. Project timing which impacts when FALOC funds will be drawn. The timing and magnitude of cash draws impacts both the interest expense on the borrowed funds and the amount of expense associated with the unused fee portion of the FALOC.
 - 2. Final project and final project cost that will completed and used and useful at the end of the year.
 - 3. The interest charged on FALOC draws varies with LIBOR. The Company has no way to project what the daily LIBOR rate will be.
 - 4. When the bonds will be sold in 2022 to pay off the FALOC.

With the qualifiers noted above, the Company has included a very high-level projection, with detailed calculations of the interest it projects will be incurred on the FALOC, based on current project statuses and anticipated project expenditure draws, through April 4, 2022 (the estimated date for the sale of the 2022 Bonds used to pay

off the 2021 FALOC borrowings). Attachment DR1-21 shows the actual FALOC draws to through 7/8/2021. FALOC draws are typically made once a month, after the close of the previous month's financials. Please note that the July FALOC for June's capital expenditures has not been made so the draw shown on July 21 is an estimate. The attached estimate starts at the current FALOC borrowed balance of \$2,076,335 and then projects out additional monthly FALOC draw amounts based on a current estimated total PWW 2021 Capex expenditures of \$10,564,200. As noted above, the timing of these projects and final expenditures associated with projects is still very much in flux. Please note that the Harris Dam and Supply Pond projects have been delayed from 2021 to 2022 due to a delay in permitting approvals. Correspondingly, the City of Nashua has added sewer replacement projects to its list of calendar year 2021 work that were not known in early 2021, and as such the Company has added about \$1,000,000 in projected water main replacement work. Since the scope of the City projects are not well defined at present, the \$1,000,000 is a very high-level placeholder estimate. The final expenditures and timing of these watermain expenditures is entirely dependent upon the final scope and timing of the City sewer replacement projects. The attached detailed calculations project the interest expense on the FALOC at \$128,379.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-22 Witness: John J. Boisvert

REQUEST:

Re: Updated Exhibit DLW-1, Page 5 (2022 CapEx), Line 47: The cost of the Milford Booster Station project appears to have increased from \$660,000 (as a 2021 project in DW 20-020) to \$800,000 in the current docket. Please explain.

RESPONSE:

The February 2020 estimate was increased based on the increases in construction costs of approximately 9% (Engineering New Record Construction Cost index) since the project was originally estimated in 2019, along with the addition of a third pump to ensure full redundancy to meet the required demand if one pump were out of service. As noted above, the cost of this station will be borne by Town of Milford. PWW will bond for the project but Milford, via its fixed annual payment, will pay 1.10 times the final principal and interest associated with the project based on the final cost of the project.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-23 Witness: John J. Boisvert

REQUEST:

Re: Extent of engineering resources available to the company:

- a) Please indicate generally what engineering services are provided in-house and what engineering services are contracted out.
- b) Please indicate the number of people providing engineering services within the company and the job title of each.
- c) Please list all engineering studies or reports produced either internally or externally in the past five years in relation to the Nashua core system, including title, responsible entity/author, year and cost.

- a) The Company generally performs all engineering services in-house that fall within the expertise, technical training and professional experience of the engineering staff. Including the following:
 - Water main replacement/addition planning and design
 - Hydraulic modeling
 - Hydrologic monitoring and analysis of source waters
 - Water quality monitoring of source waters
 - Invasive species survey and mitigation within sources waters
 - Well design, monitoring, and assessment
 - Booster station planning, evaluation, and design
 - Treatment process planning, evaluation, and design
 - Construction Management including design, bidding, inspection and project documentation.
 - Private (developer main extensions) construction management and inspection
 - New customer service design and inspection (residential, commercial, and industrial) including domestic service, fire service, and cross connections
 - Technical support to the Water Supply, Distribution, and Revenue and Customer Operations Department
 - Environmental permitting including source water protection, conservation reporting, water use reporting, and groundwater monitoring and analysis.

- Geographical Information Systems (GIS) design, implementation, maintenance, management, and application development.
- Management and technical support for global positioning system (GPS) surveying applications.
- Computerized Maintenance and Management System (CMMS "Cityworks") implementation, design, development, administration, management, training, and support.
- Asset Management administration, development, utilization, management, and support.
- Long term capital planning.
- Regulatory support (NH DOE rate, financing, QCPAC, etc.)
- NHDES SRF and NH Drinking Water and Groundwater Trust Fund financing (applications/requests).

The Company contracts professional services when the technical requirements for those services are not part of the in-house staff qualifications or the level of complexity requires more experience than in-house resources are comfortable providing (the Merrimack River Intake design for example). In addition, the Company may outsource engineering services on larger projects where the Company simply does not have the staff resources needed to complete a project in a timely manner (the Water Treatment Facility upgrades in 2006-2011). Outside services recently used to support in-house engineering efforts include:

- Professional Electrical Engineering services
- Professional Architectural Services
- Professional Structural Engineering Services
- Professional Geotechnical Engineering Services (soils and foundations)
- Professional Instrumentation and Controls Engineering Services (SCADA)
- Professional Mechanical Engineering Services (building applications including plumbing, HVAC and worker safety)
- Professional Geology and Hydrogeology Services (new well siting, geophysics)
- Professional Civil/Site Engineering Services (local planning board permitting)
- Wetland Scientist Services (wetlands mapping and permitting)
- Real Estate Appraisal Services (easement and land acquisition)
- Professional Land Surveying Services (boundary and topographic mapping)
- b) The following table identifies the members of the Engineering Department and their positions. There are 15 full time staff in the department. In the summer, the department may increase by 2 to 4 temporary summer engineering interns when the volume of field work (monitoring) becomes more intensive.

Department	Position Title	First Name	Last Name
Engineering	Engineering Program Administrator	Kelsey	Dillon
Engineering	Distribution Engineer (E.I.T.)	Ryan	Houle
Engineering	Construction Services Manager (P.E.)	Mark	Filion
Engineering	CAD/GIS Technician	Eric	Levesque

Engineering	GIS Technician	Brenden	Bowen*
Engineering	Engineer (E.I.T)	Casey	Harding*
Engineering	Engineer (E.I.T)	Hannah	Marshall*
Engineering	Environmental & Operations Data Analyst	Ashley	Piper*
Engineering	Distribution Engineering Manager (P.E.)	Peter	Tedder
Engineering	Engineering Business Analyst	Dawn	Lavacchia
Engineering	Chief Engineer (P.E.)	John	Boisvert
Engineering	Engineering Construction Manager	David	Levasseur
Engineering	Engineering Construction Manager	John	Gureckis
Engineering	Engineering Construction Manager	Paul	Dubowik
Engineering	Engineering Service Manager	Richard	Philbrook
Engineering	GIS Administrator (G.I.S.P.)	Jay	Guarneri
Engineering	CAD Technician	Maurene	Pepin
*Former PWW interns			

c) Projects and studies are completed primarily in-house and do not usually result in a formal report in the classical sense. Evaluations performed using outside consultants generally do if the consultant performed most of the analysis. There are times when the Company works collaboratively with a consultant. In this case the consultant is called upon to provide specific expertise at various times during the evaluation.

Year	Title	Status	Responsible Party	Cost*
2020-	AWIA – Risk and	Regulatory	CDM Smith	\$60,000*
2021	Resiliency Assessment,	requirements	(Consultant)	
	Nashua Core	are complete		
		ongoing		
		detailed		
		assessments		
2020-	AWIA – Emergency	Regulatory	CDM Smith	\$45,000*
2021	Response Plan, Nashua	requirements	(Consultant)	
	Core	are complete		
		ongoing		
		detailed		
		assessments		
2020 –	Merrimack River	In Progress	Geosyntec	\$98,200**
2021	Modified Source Water		(Consultant)	
	Protection Plan			
2018	Merrimack River Safe	Complete	Tighe & Bond	\$45,680
	Yield Evaluation	_	And	
			Streamworks, LLC	
			(Consultants)	

2014	Kessler Farm Tank	Complete	Tank Industry	\$7,985.00	
	Inspection		Consultants		
2014	Retired Pumping Station	Complete	Aries Engineering	\$15,000	
	Hazardous Materials				
	Evaluations for				
	Demolition				
* These projects have achieved the regulatory objectives – detailed assessments of action items ARE ongoing.					
Cost are approximate as internal labor is not included.					

** Project will be complete in 2021

Many of the assessments and evaluations performed by the Engineering staff are associated with the design and construction of ongoing capital improvements and infrastructure replacement. The value of the projects that the Engineering Department supports each year varies but, is in the range of \$8,000,000 and \$16,000,000 depending upon the year (not including developer and other private works provided to the Company) and the type of projects completed in that year.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-24 Witness: Donald L. Ware

REQUEST:

Re: Clearing Snow from Hydrants

What entity is typically responsible for clearing snow from hydrants in the various Pennichuck Water, Pennichuck East and Pittsfield systems? Do any written agreements exist is this regard? Please explain.

RESPONSE:

Except for the hydrants in the City of Nashua, Pennichuck Water, Pennichuck East and the Pittsfield Aqueduct Company clear the snow from the public hydrants in each community where public hydrants exist. There are no written agreements in this regard. The Company has always cleared the snow from the non-Nashua hydrants and recovered the expenses associated with clearing snow from hydrants in each rate case as an operating expense. This has been the Company's mode of operation for as long as I have been employed at the Company (Since April 1995). The City of Nashua has its fire department clear the hydrants and have for as long as I have been with the Company. The Nashua Fire Department (based on word of mouth) took over clearing its hydrants of snow in the mid 1980's when the then newly appointed fire chief decided it would be good exercise for the fire fighters, as well as help familiarize the fire fighters with the location of the hydrants.

2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 1

Date Request Received: 7/7/21 Date of Response: 7/20/21 Request No. DOE 1-25 Witness: Donald L. Ware

REOUEST:

Re: Boil Water Orders

If the company were to experience a boil water order affecting, for example, the entire northwest high pressure system and lasting several days including a weekend, please indicate:

- a) The range of anticipated company responses including customer notification efforts.
- b) What company personnel would be involved.
- c) How many customers would be affected in this portion of the system.
- d) Who would be responsible to notify customers in Milford.
- e) What such an event might cost, including sampling, testing, delivery of notices, personnel time, etc.
- f) Have any Pennichuck companies had boil water orders in any of their larger systems in the past few years? If so, please indicate year and location.

- a) The Company's Emergency Action Plan would have the Company CEO convene a meeting of the Pennichuck Corporation Emergency Management Team (PCEMT). That team would establish the following:
 - 1. Quickest and most efficient way to get the message out to its customers. The number of customers that receive water service in the Northwest system is about 3,700. The Company, based on the number of customers to be notified, would:
 - i. Use its automated customer notification system which has text, phones call and email capabilities. A short message would be put together and sent to customer via text, phone call or email telling customer not to consume or cook with the water and to go to the Company's website for more information. The company has contact information for about 92% of its customers (although some of that information is likely dated). Dependent upon the Company's phone and computer systems use at the time of the outbound noticing it would be expected that about 1,000 to 1,500 notifications would be sent out per hour

- so it would be expected that it would take between 2-1/2 to 4 hours to notice all customers where we had customer contact information.
- ii. The Company's website would be updated on the main page with more detailed information regarding the boil order and what customers should do in response to the boil order.
- iii. The Company's Facebook page would get a post with the same message as the Company's website.
- iv. The Company would directly call its "critical" customers located in the Northwest system as flagged in our Munis customer service software. Critical customers include, but are not limited to Schools, Medical facilities, Restaurants, and Special Contract customers, such as the Milford Water Department. The Company would make these calls using all available customer service representatives.
- v. The Company would immediately notify the Mayor's office in Nashua, as well as the Nashua Health Department.
- vi. The Company would reach out to local news media (press, radio, TV) via a press release from its CEO.
- vii. Post its electronic sign boards (it owns two) at the primary highway entrances into the Northwest system, the off ramps from Exits 7 and 8 off the Nashua Turnpike.
- b) The following staff would be involved in the response:
 - 1. The PCEMT staff consisting of the CEO, the COO and all Senior Managers at the Company.
 - 2. Customer Service staff to make calls to critical customers and to handle inbound calls. For a notification of this size there would probably be at least 6 Customer Service staff brought in to work the phones, get website and Facebook posting completed.
 - 3. Field Staff would post message signs and begin flushing hydrants in an effort to clear potentially contaminated water from the system. There could be 3 to 4 field staff.
- c) There are about 3,700 non-fire related connections in the Northwest system, including connections to the Town of Milford water system and the Merrimack Village District water system.

- d) PWW would notify the Milford Water Department and the Town of Milford would be responsible for notifying its own customers.
- e) The Company would not be comfortable projecting the total cost of getting a notification completed and reaching a point where the boil order was rescinded by the NHDES. The goal would be to notify all parities as quickly as possible and to work on locating the potential source of the e-coli (if possible) and to see that the system is cleared of any contaminated water and any bacteria testing required by the NHDES is completed as quickly as possible.
- f) The Pennichuck Company's last boil water order was issued in September of 2020 for the Gage Hill CWS, located in Pelham, with 27 residential customers. The prior boil order was issued in one of the Pennichuck Company's systems in 2016 for the Forest Ridge CWS, located in Exeter, with 52 residential customers.
 - The Pennichuck Companies have not had a boil water order in any of its water systems with more than 300 customers during my 26+ years at the Company.

121,213

Pennichuck Water Works, Inc. DW 21-023 Computation of QCPAC Surcharge 2/11/2021 Revised 5/26/2021 per Staff Tech Session DR PWW QCPAC Filing Exhibit DLW-1 Page 1

	Re	oved DW19-084 evenues per Order#		QCPAC For 2019 Capital Additions	-	Q C Surcharge for Cap apital Additions	CPAC For 2020 oital Additions pro forma		QCPAC Surc for 2020 Cap Addition	ital	Capit	AC For 2021 al Additions ro forma		CPAC Surch for 2021 Cap Additions	ital	Capi	PAC For 2022 tal Additions pro forma	for	AC Surcharge 2022 Capital Addition	Capi	AC For 2023 tal Additions pro forma	for 2	AC Surcharge 2023 Capital additions
City Bond Fixed Revenue Requirement (CBFRR)	\$	7,729,032	\$	-	\$	7,729,032 \$	-	\$	7,7	9,032	\$	-	\$	7,72	9,032	\$	-	\$	7,729,032			\$	7,729,032
DW19-084 Operating Expense Revenue Requirement	\$	21,296,618	(1) \$	416,593	\$	21,713,211 \$	155,083	(4) \$	21,8	8,294	\$	285,917	(4) \$	22,15	4,211	(4) \$	240,298	\$	22,394,509	\$	257,112	\$	22,651,621
DW19-084 Annual Principal and Interest Payments	\$	6,176,477	(2) \$	854,442	\$	7,030,919 \$	351,395	(5) \$	7,3	2,314	\$	676,516	\$	8,05	8,830	\$	551,503	\$	8,610,333	\$	568,586	\$	9,178,918
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		\$	8,1	0,546			\$	8,86	4,713			\$	9,471,366			\$	10,096,810
DW19-084 Revenue Requirement	\$	35,819,774			\$	37,176,254		\$	37,7	7,871			\$	38,74	7,956			\$	39,594,907			\$	40,477,462
DW19-084 Revenue Requirement less Other Revenues	\$	35,399,062	(12)		\$	36,755,541		\$	37,2	7,159			\$	38,32	7,244			\$	39,174,194			\$	40,056,750
DW19-084 Revenue Requirement less Other Revenues less Fixed Special Contract Revenues	\$	34,792,618	(8)		\$	36,149,098		\$	36,6	0,716 ((8)		\$	37,72	0,800	(8)		\$	38,567,751			\$	39,450,307
Percent QCPAC Surcharge (9)						3.90%				1.56%					2.96%				2.43%				2.54%
Cumulative QCPAC Surcharge (13)						3.90%				5.46%					8.42%				10.85%				13.39%
Cumulative QCPAC monthly increase in average single family residential bill.					\$	2.17		\$		3.04			\$		4.68			\$	6.04			\$	7.45
Average monthly single family residential bill with QCPAC.	\$	55.65			\$	57.82		\$		58.69			\$		60.34			\$	61.69			\$	63.10

year bond with interest rate of

2.704% for the Nothwest system projects and

32,800

420,712

(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

(6) QCPAC Principal and Interest expenses are based on

(7) QCPAC percent revenue surcharges based on increase in revenues from the revenues granted in DW19-084

(8) Reduction in revenues associated with fixed contracts as follows: Hudson Annual Fixed Chg

30 year bond with interest rate of (9) QCPAC Principal and Interest expenses for DWGTF financing are based on a

(11) Cumulative surcharge percentage is based on total surcharge revenues collected divided by the revenues granted in DW19-084 that are impacted by the QCPAC.

(12) Operating expense revenues approved in DW19-084 less total Other Revenues of

(13) QCPAC percent revenue surcharges based on revenues approved in DW19-084.

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

30 year bond with a final interest rate of	4.056692%	based on a bond issuance in April 2021
for 2021 through 2022 Capital Expanditures values funding is via an SPE/DW	CTE financina	

81,000 A-B Annual Fixed Chg \$ Milford Annual Fixed Chg \$ 371,430

PEU Annual Fixed Chg 3.38% for the Merrimakck River Intake project.

149 Schedule A-Modified

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 Page 2

			Financing	NHPUC	Date of NHPUC	Roard Approved	Board Approved 2019 Capex Budget,	, Eligible for 2020	Final QCPAC eligible Project Costs as of				QCPAC Eligible Property Tax Expense (Based on	
Project Name/Description	Project Description	Work Order #	Docket No.	Order No.	Order			QCPAC Surcharge	12/31/2019	Community	Taxable	Tax Rate (1)	Qrtly Update)	Explanation for Change/Addition/Deletion since Petition Filing
New Services (10)	Single Family, Owner Build, New Homes	20 workorders	DW17-183	26,101	2/2/2018	\$ 46,000	,		\$ 69,936	Various	Yes	\$ 27.02		0 12 installed through 12/31.
Renewed Services (20)	Replacement of failed services Replacement of non-functional hydrants	21, 22 & 23 workorders 30 & 31 workorders	DW17-183	26,101	2/2/2018	\$ 92,000			\$ 101,648	Various	Yes	\$ 27.02		7 29 installed through 12/31.
Hydrants (10) Gates (10)	Replacement of non-functional hydrants Replacement of Failed Gate Valves	12 & 13 workorders	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 50,000 \$ 40,000			\$ 40,209 \$ 10,573	Various Various	Yes Yes	\$ 27.02 \$ 27.02		6 7 installed through 12/31. 6 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			\$ 48,942	Various	Yes	\$ 27.02		Deferred Radio Replacement program (Radios are 12 years old). 495 replaced through 12/31.
Meters (Growth) 5/8"-2" - Core & CWS (480)	Meters (Growth) 5/8"-2" - Core & CWS (480)	50 workorders	DW17-183	26,101	2/2/2018	\$ 48,000			\$ 207,025	Various	Yes	\$ 27.02		4 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		 	\$ 207,023	Various	Yes	\$ 27.02	9 -	
Entrance Security Gate & Perimeter Fence	Entrance Security Gate & Perimeter Fence	1901598	DW17-183	26,101	2/2/2018	\$ 75,000			\$ 66,204	Merrimack	Yes	\$ 28.86		
Replace 13 yr Vac Trailer - Safety & Maint issue Protectus Meter Upgrade	Replace 13 yr Vac Trailer - Safety & Maintenance issue Spitbrook Rd Protectus Meter Upgrade	1917721 n/a	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 100,000 \$ 21,000	-	Yes Yes	\$ 29,710	Merrimack Nashua	Yes Yes	\$ 28.86 \$ 26.23		7 Then Company was leasing a vac machine for 2019. It was decided to buy out the lease. Deferred until 2020.
Pipe Freeze Kits (2)	RoFrost Turbo 2 Electric Pipe Freeze Kts	1915135	DW17-183	26,101	2/2/2018	\$ 21,000 \$ -	\$ 21,000 \$ 7,400		\$ 6,970	Nashua	No	\$ 26.23		Existing Freeze kits have failed and not repairable 15+ years old.
Plate Compactors (4)	Replacement of failed compactors unable to obtain repair parts.	1918551	DW17-183	26,101	2/2/2018	\$ -	\$ 17,500		\$ 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) 2018 Dodge Ram 2500 (#314)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907613 1907612	0.1 DSRR 0.1 DSRR			\$ - \$ -	, , , , ,		\$ 1,969 \$ 1,969	Merrimack Merrimack	No No	\$ 28.86 \$ 28.86	-	
2018 Dodge Ram 2500 (#314) 2018 Dodge Ram 2500 (#315)	Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907615	0.1 DSRR 0.1 DSRR			\$ -	\$ 2,542		\$ 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			S -			\$ 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	7 Equipment used in leak detection.
Gilman Street	Replace 1470 LF of 8 inch CI with 12 inch DIPCL.	1607377, 1702856,	DW17-183	26,101	2/2/2018	\$ 550,000	\$ 615,000	Yes	\$ 661,270	Nashua	Yes	\$ 26.23	47.045	Pavement contribution to the City of Nashua paid in 2018 (\$127,264).
		1806433, 1901176 1702871, 1812907,											\$ 17,345	
ElmStreet	Replace 875 LF of 6 inch CI with 12 inch DIPCL.	1901599	DW17-183	26,101	2/2/2018	\$ 559,350	\$ 255,000	Yes	\$ 373,328	Nashua	Yes	\$ 26.23	\$ 9,792	2 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	v
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 4 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,	DW17-183	26,101	2/2/2018	\$ 138,050	\$ 140,000	Yes	\$ 178,120	Nashua	Yes	\$ 26.23	\$ 4672	Pavement contribution to City of Nashua of \$27,200 included.
Harvard Street	Replace 800 LF of 8 inch CI with 8 inch DIPCL.	1901603 1814742, 1901604	DW17-183	26,101	2/2/2018	\$ 247,500	\$ 249,200	Yes	\$ 259,668	Nashua	Yes	\$ 26.23	1,072	Payement 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	2 237,000	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			2/2/2000	\$ 660,000		Yes	\$ 507,141	Nashua	Yes	\$ 26.23		Added security fence replacement (1,700 LF) along Manchester Street - some work will carry over into 2 2020 included.
NWS Improvements -Route 101A and Route 121 (Amherst)	Add 2200 LF of 12 inch DIPCL to close loop.	1806810, 1901607	DWGTF			\$ 550,000	\$ 550,000	Yes	\$ 548,252	Nashua	Yes	\$ 26.23		1 Adjusted cost based on final installed materials in 2020 - some work will carry over into 2020.
NWS Improvements - Tinker Road	Replace 825 LF of 16 inch AC with 825 LF of 24 inch DIPCL.	1702835, 1806434, 1900421	Financing	26,197	12/3/2018	\$ 522,500	\$ 522,500	Yes	\$ 369,378	Nashua	Vos	\$ 26.23	\$ 0.690	9 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	DW18-133			\$ 467,500			\$ 158,469	Nashua	Yes	\$ 26.23		7 Adjusted cost based on final installed materials in 2020 - some work will carry over into 2022.
NWS Improvements - Deerwood Dr. Northwest Blvd Loop	Add 3400 LF of 20 inch HDPE including RR pipe jacking.	1806806, 1901610	1			\$ 635,800			\$ 1,302,871	Nashua	Yes	\$ 26.23		4 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		Yes	\$ -	Nashua	Yes	\$ 26.23	S -	Project cancelled and replaced with piping in projects above.
NWS Improvements - Engineering Design and Inspection	Engineering and Inspection of NW System watermain improvements.		0.1 DSRR			Incuded in NWS	Incuded in NWS	No	\$ 174,347	Nashua	Yes	\$ 26.23	\$ 4,573	3
City of Nashua Sewer - Chase Street	Replace 470 LF of 6 inch CIP with 470 LF of 6 inch DIPCL.	1020025 1000404	DW17-183	26 101	2/2/2010	Improvemts above	Improvemts above	N/	e 175 270					D : . C . I .
City of Nashua Sewer - Chase Street City of Nashua Sewer - Ash Street	Replace 710 LF of 6 inch CIP with 710 LF of 12 inch DIPCL.	1829925, 1900484 1814367, 1915975	DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 176,000 \$ 242,000			\$ 175,370 \$ 156,252	Nashua Nashua	Yes	\$ 26.23 \$ 26.23		0 Project Complete 8 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			\$ 1,608,850	Nashua	Yes	\$ 26.23	,	Pavement contribution to City of Nashua of \$344,000 included.
City of Nashua Paving - Vilna St.	Replace 15 LF of 1.5 inch steel with 2 inch HDPE for paving program.	1915860	DW17-183	26,101	2/2/2018	\$ -	\$ 16,750	Yes	\$ 17,400	Nashua	Yes	\$ 26.23	\$ 456	6 Includes final paving - complete
Interconnection to BWC	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1900429	0.1 DSRR			\$ -	9,100		\$ -	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			\$ -			\$ -	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 1909270	0.1 DSRR 0.1 DSRR			\$ - \$	4 0,070	-10	\$ - 20,209	Nashua Nashua	Yes Yes	\$ 26.23 \$ 26.23	-	Carry over costs from project completed in 2018, pay for with 0.1 DSRR.
Factory Street Taylor Street	Carryover Costs to 2018 projects not recovered in prior QCPAC. Carryover Costs to 2018 projects not recovered in prior OCPAC.	1906988	0.1 DSRR 0.1 DSRR			S -			\$ 20,209	Nashua	Yes	\$ 26.23		0 Carry over costs from project completed in 2018, pay for with 0.1 DSRR. 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			s -			\$ 257	Nashua	Yes	\$ 26.23		7 Carry over costs from project completed in 2018, pay for with 0.1 DSRR.
City of Nashua Paving - Mill St.	Abandon 1.5" Steel water main and switch customers over to parrallel 8" water main.	1915006	0.1 DSRR			\$ -	\$ 17,900	No	\$ 17,321	Nashua	No	\$ 26.23		Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR.
City of Nashua Paving - Ferryalls Ct	Replace 35 ft of 1" copper water main crossing Canal St with a 4" DIPCL Water Main.	1908316	DW17-183	26,101	2/2/2018	s -	\$ 58,580	Yes	\$ 51,988	Nashua	Yes	\$ 26.23		Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St -
						1							\$ 1,364	4 complete.
City of Nashua Paving - Salvail Ct City of Nashua Paving - Nutt St - Final Paving and restoration	Replace 1.5" Steel water main and install a 4" DIPCL Water Main (contaminated area).	1908317 1702842, 1907682	DW17-183 DW17-183	26,101	2/2/2018 2/2/2018	+*	\$ 95,000 \$ 13,000		\$ 79,258	Nashua	Yes	\$ 26.23		9 Includes final paving - complete 2 \$6,240 of this will be recovered from Liberty Gas.
City of Nashua Paving - Nutt St - Final Paving and restoration City of Nashua Paving - Cheshire St - Final Cleanup	Pavement restoration and final landscaping Fence repair and site clean up	1702842, 1907682	DW17-183 DW17-183	26,101 26,101	2/2/2018	\$ - \$ -			\$ 6,549 \$ 486	Nashua Nashua	Yes Yes	\$ 26.23 \$ 26.23		2 \$6,240 of this will be recovered from Liberty Gas. 3 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		\$ 174,754	Nashua	Yes	\$ 26.23		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	\$ -			\$ 1,402	Nashua	Yes	\$ 26.23		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	S -			\$ 18,316	Nashua	Yes	\$ 26.23	\$ 480	0 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	s -			\$ 37,084	Nashua	Yes	\$ 26.23		Final paving bill for this project.
City of Nashua Paving - Green St - Carry over from 2017 City of Nashua Paving - Beard St - Carry over from 2017	Paving only - Carry over from 2017.	1915844	DW17-183	26,101	2/2/2018	\$ -			\$ 8,906	Nashua	Yes	\$ 26.23		Final paving bill for this project.
City of Nashua Paving - Beard St - Carry over from 2017 City of Nashua Paving - Terrace St - Carry over from 2017	Paving only - Carry over from 2017. Paving only - Carry over from 2018.	1915845 1915843	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ - \$ -			\$ 21,689 \$ 10,600	Nashua Nashua	Yes Yes	\$ 26.23 \$ 26.23		9 Final paving bill for this project. 8 Final paving bill for this project.
City of Nashua Paving - Terrace St - Carry over from 2017 City of Nashua Paving - Warren St - Carry over from 2017	Paving only - Carry over from 2018. Paving only - Carry over from 2017.	1702870, 1915842	DW17-183	26,101	2/2/2018	S -			\$ 16,762	Nashua	Yes	\$ 26.23		Pinal paving bill for this project. Pinal paving bill for this project.
Merrimack River Intake	Year Round Raw Water Intake from Merrimack River.	1502180, 1601369, 1701489, 1807360,	DWGTF Financing	26,247	5/3/2019	\$ 5,500,000	,		\$ 6,299,764	Merrimack	Yes	\$ 28.86		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 carreed into 2020.
Asset Management Outside GIS Consulting Services	Outside GIS Consulting Services	1901612, 1908505 1900414	DW19-026 DW17-183	26,101	2/2/2018	\$ 60,000	\$ 40,000	Yes	\$ 7,961	Vario	N _c	\$ 27.02	9	400-2000 of clean up work to be earlied into 2020.
Asset Management Outside GIS Consulting Services Asset Management Water Modeling Consulting	Outside GIS Consulting Services Water Modeling Consulting	1900414	DW17-183 DW17-183	26,101	2/2/2018	\$ 60,000 \$ 36,000			\$ -	Various Various	No No	\$ 27.02 \$ 27.02		+
Asset Management Trimble R2 Units	Trimble R2 Units	1900414	DW17-183	26,101	2/2/2018	\$ 14,000			\$ -	Various	Yes	\$ 27.02		+
WAM/Synergen Upgrade Cost & Functionality Study	WAM/Synergen Upgrade Cost & Functionality Study	1900568, 1910219	0.1 DSRR	,	-,-,	\$ -			\$ 27,804	Various	No	\$ 27.02		Study to select replacement of Synergyn 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			\$ 90,434	Various	Yes	\$ 27.02		
2019 Ford Escape	Replace Totaled 2015 Ford Escape	1907481	DW17-183	26,101	2/2/2018	S -	\$ 23,998		\$ 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			\$ -	Merrimack	No	\$ 28.86		Design Engineering Work for 2020 Dam rehabilitation Letter of deficiency issued by the NHDES Dam Bureau regarding inadequate spillway capacity for this
Bowers Dam Letter of Defficiency design/analysis	Perform Hydraulic and Hydrology analysis, design improvements to address spillway capacity.	1901734, 1907078	0.1 DSRR				\$ 35,000		\$ -	Merrimack	No	\$ 28.86		dam. Letter of deficiency issued by the NHDES Dam Bureau regarding inadequate spillway capacity for this
Harris Dam Letter of Defficiency design/analysis	Perform Hydraulic and Hydrology analysis, design improvements to address spillway capacity.	1907076	0.1 DSRR			1	\$ 40,000	No	\$ -	Merrimack	No	\$ 28.86	S -	dam.

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Supply Pond Letter of Deficncy design/analysis	Perform Hydraulic and Hydrology analysis, design improvements to address spillway capacity.	1907077	0.1 DSRR			\$	35,000	No	s -	Merrimack	No	\$ 28.86 \$	-	Letter of deficiency issued by the NHDES Dam Bureau regarding inadequate spillway capacity for this dam.
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild	60, 61, 62 & 63 workorders	DW17-183	26,101	2/2/2018	\$ 40,000 \$	15,445	Yes	\$ 11,260	Various	Yes	\$ 27.02 \$	304	0 pumps replaced, 5 rebuilds through 12/31/2019.
Booster Pump replacement/rebuild	WTP Rebuild pump end, Intermediate Pump #3	1914986	DW17-183	26,101	2/2/2018	S - S	24,555	Yes	\$ 24,554	Nalshua	Yes	\$ 26.23 \$	644	Pump Bearings failed on Intermediate Booster Pump at WTP.
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	s -	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	S -	Various	Yes	\$ 27.02 \$		Scope of project was more clearly defined resulting in a reduction in cost.
Twin Ridge rebuild softener system, install radon treatment.	Twin Ridge rebuild softener system, install radon treatment.	1907731	DW17-183	26,101	2/2/2018	\$ 50,000 \$	50,000	Yes	\$ 11,112	Plaistow	Yes	\$ 25.93 \$		Project scope was limited to MTM media replacement.
Misc. Structural Improvements	Misc. Structural Improvements	n/a	DW17-183	26,101	2/2/2018	\$ 20,000 \$	10,700	Yes	s -	Various	Yes	\$ 27.02 \$		Reduced by replacement of failed Fire Alarm CPU.
Misc. Structural Improvements	Replace Fire Alarm System CPU.	1907102, 1910221	DW17-183	26,101	2/2/2018	S - S	9,300	Yes	\$ 9,251	Nashua	Yes	\$ 26.23 \$		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	, ,	7,000	Yes	\$ 4,050	Nashua	Yes	\$ 26.23 \$		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 \$		- man
Miscellaneous Equipment Purchased	Purchase 2 Gas Monitors for WS Confined Space Program.	1907611	DW17-183	26,101	2/2/2018	e e	4,568	Yes	\$ 4.568	Nashua	Yes	\$ 26.23 \$	120	Routine Miscellaneous Equipment purchase
1.1	Purchase 2 Gas Monitors for WS Confined Space Program. Purchase Entry Tripod and Winch for WS Confined Space Program.	1910296	DW17-183	26,101	2/2/2018	0 0	3,004	Yes	\$ 3,004	Nashua	Yes	\$ 26.23 \$ \$ 26.23 \$		
Miscellaneous Equipment Purchased		1915362	DW17-183			5 - 5	3,004							Routine Miscellaneous Equipment purchase
Miscellaneous Equipment Purchased	Replace Chlorine Analyzer, Twin Ridge		1	26,101	2/2/2018	\$ - \$ \$ 30,000 \$	20.000	Yes	\$ 4,449	Nashua	Yes	\$ 26.23 \$ \$ 27.02 \$	11/	Routine Miscellaneous Equipment purchase
Miscellaneous SCADA/Electrical Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	n/a 1916547	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018		30,000	Yes	3 -	Various	Yes		-	
	Replace VFD, Pump #1 Bowers Landing	-				\$ - \$	- 40.000	Yes	\$ 2,118	Various	Yes	\$ 27.02 \$	57	
WTP Structural/HVAC	WTP Structural/HVAC	n/a	DW17-183	26,101	2/2/2010	\$ 10,000 \$	10,000	Yes	\$ -	Nashua	Yes	\$ 26.23 \$	-	www.a
WTP Structural/HVAC	Replace Heat Exchanger, WTP Office	1917470	DW17-183	26,101	2/2/2018	S - S	-	Yes	\$ 8,328	Nashua	Yes	\$ 26.23 \$		WTP Structural/HVAC project
Purchase new lab equipment	Purchase new lab equipment	n/a	DW17-183	26,101	-/-/	\$ 20,000 \$	18,500	Yes	3 -	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	5 - \$	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	s - s	-	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	S - S	-	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 elminated until future date subject to performance of rebuilt 2nd pump.
Rebuild Main Dunstable pump #1	Rebuild Pump #1, Main Dunstable, Nashua	1901615	DW17-183	26,101	2/2/2018	\$ - \$	-	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	ş -	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			S - \$	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			S - S	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			S - \$	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			S - \$	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	S -	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	S -	Merrimack	No	\$ 28.86 \$	-	Monies moved to Veeam Backup Project.
	Keyboard Video Mouse for Data Center so that multiple servers can be accessed by one console													
KVM for Data Center	without having to move the Monitor/Keyboards/ Mouse connections each time.	n/a	DW17-183	26,101	2/2/2018	\$ 2,500 \$	_	Yes	s -	Merrimack	No	\$ 28.86 \$	_	
IOS Charging Station	Charging Station for multiple iPads to allow for upgrades across multiple devices concurrently.	n/a	DW17-183	26,101	2/2/2018	\$ 1,200 \$	-	Yes	S -	Merrimack	No	\$ 28.86 \$	-	
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	s -	Merrimack	No			
	A pilot to determine whether a Virtual Desktop Infrastructure would be feasible for our					, ,			-			\$ 28.86 \$	-	
VDI Pilot	environment.	n/a	DW17-183	26,101	2/2/2018	\$ 12,000 \$	_	Yes	s -	Merrimack	No	\$ 28.86 \$	_	
Misc Hardware	Misc Hardware	n/a	DW17-183	26,101	2/2/2018	\$ 20,000 \$	20,000	Yes	s -	Merrimack	No	\$ 28.86 \$		
Misc Hardware	Mount in Vehicles	1908308	0.1 DSRR	,	_, _, _0.0	÷ 20,000 \$	20,000	No	\$ 1,248	Merrimack	No	\$ 28.86 \$		
Misc Hardware	2 iPad Pros for IS Testing	1908309	0.1 DSRR	+ +		9	-	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		\$ 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		.,.,.	\$ - s	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.
Vecam Backup Software	Replacement of existing backup software due to exorbitant vendor fees to keep original system		0.1 DSRR		-,-,	\$		No	\$ 15,530	Merrimack	No			The state of the s
-	running.	1909216		+		\$	25,550					\$ 28.86 \$	-	
New RCO Manager Computer	New RCO Manager Computer	1917001	0.1 DSRR		- 1- 15	\$ -		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	2/2/2010	\$ - \$	-	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	, -		\$ - \$	-	Yes	\$ 230,645	Various	No	\$		
Performance Management Platform Implementation & Technical Integration	Performance Management Platform Implementation & Technical Integration	1916551	DW17-183	26,101	-, 0, -010	\$ - \$	-	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	S - S	-	Yes	\$ 3,708	Merrimack	No	\$ 28.86 \$	-	
					Expenditure Budget -	\$ 14,968,170 \$	16,902,524		\$ 15,801,867			nse associated \$		-

Total Projected PWW QCPAC Capex for	- 2010 e	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 Improve	ments -				\$	2,859,754
Amount to be funded by 2020 Bone	d Issue - \$	8.012.724	\$	6.078.370	S	7.154.848

resulting in annual P&I expenses of

427,022 140,376 287,045

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

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

30 year bond with an actual total all in interest rate of 4.261869%
30 year bond with interest rate of 2.704%
30 year bond with interest rate of 3.380% resulting in annual P&I expenses of resulting in annual P&I expenses of

Revised 5/26/2021 per Staff Tech Session DR Revised 7/20/2021 Per Staff DR 1														
Revised 7/20/2021 Fel Stall DK 1														
								Estimated Project					QCPAC Eligible	
Project Name/Description	Project Description	Work Order #	Financing Docket No.	. NHPUC Order No.	Date of NHPUC Order	Board Approved 2020 Capex Budget	QCPAC Eligible?	Cost as of 11/30/2020	Final Project cost as of 12/31/2020	Community	Taxable	2020 Tax Rate (1)	Property Tax Expense	Explanation for Change/Addition/Deletion from Board Approved 2020 Capex Budget
New Services (10)	Single Family, Owner Build, New Homes	20 workorders	DW17-183	26,101	2/2/2018	\$ 50,000	Yes	\$ 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		19 Renewed Services Installed through 12/31/2020.
Hydrants (10) Gates (10)	Replacement of non-functional hydrants (Run rate) (8 YTD) Replacement of Failed Gate Valves	30 & 31 workorders 12 & 13 workorders	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 60,000 \$ 40,000	Yes Yes	\$ 48,000 \$ 40,000		Various Various	Yes Yes	\$ 28.45 \$ 28.45		9 Hydrants Repaired/Replaced through 12/31/2020. 12 Gates Repaired/Replaced through 12/31/2020.
Radios (560)	Replacement of 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		Various	Yes	\$ 28.45	1,446	498 Radios Installed/Replaced through 12/31/2020.
Meters (Growth) 5/8"-2" - Core & CWS (280) Meters 5/8"-6" - Replace faled meters - Core & CWS (200)	Meters (Growth) 5/8"-2" - Core & CWS (280) Meters 5/8"-6" failed meters - Core & CWS (200)	50 workorders 50 workorders	DW17-183	26,101	2/2/2018	\$ 29,000 \$ 21,000	Yes Yes	\$ 96,000	\$ 94,393	Various Various	Yes Yes	\$ 28.45 \$ 28.45	2,686	631 Meters Installed/Replaced through 12/31/2020. Total included in row above.
Replace Mud sucker pump	Replace 15+ year old ditch pump.	2005200	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 21,000	Yes	\$ 6,356	\$ 6,356	Various	Yes	\$ 28.45	181	1 of al included in row above.
Replacement Utility Truck	Replacement for #47 - 2006 Ford f-350, 130K miles Does not pass inspection.	2006391	DW17-183	26,101	2/2/2018	\$ 70,000	Yes	\$ 70,000	\$ 66,969	Merrimack	No	\$ 28.52	i -	
Replacement Utility Truck	Replacment for #76 - 2008 Ford F-350, 150K miles, Does not pass inspection.	2006390	DW17-183	26,101	2/2/2018	\$ 70,000	Yes	\$ 70,000		Merrimack	No	\$ 28.52	-	
Replacement Utility Truck Valve Turner & Vac Truck	Replacement for #4- 2010 Ford f-350, 140K miles Does not pass inspection. Replacement for #60 - 14 Year Vac Trailer w/excessive rot, will not pass inspection.	2006389 n/a	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 70,000 \$ 160,000	Yes Yes	\$ 7,000	\$ 68,429	Merrimack Merrimack	No No	\$ 28.52 \$ 28.52	<u>-</u>	Deferred. Not avialable due to impact of COVID19 on manufacturing.
Foreman's Truck	Replacement for #60 - 14 Year Vac Trailer W/excessive rot, will not pass inspection. Replacement for #59 - 2011 International, 120K Miles, High Hours, Electrical, body issues.	n/a 2004436	DW17-183	26,101	2/2/2018	\$ 160,000 \$ 140,000	Yes	\$ 140,000	\$ 79,206	Merrimack	No	\$ 28.52 \$ 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	\$ -	77,200	Merrimack	Yes	\$ 28.52	-	Defered until 2021 due to COVID19 delays.
Locker Room Deep Wash Sinks	Deep stainless wash sinks to replace existing sinks in male & female locker rooms.	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 Contruction & Maintenance Supervisor. Repair Hill Sides @ 16 DWH and overseed with erosion mix.	n/a 2008276	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 12,000 \$ 12,000	Yes	8 12.550	8 45 250	Merrimack Merrimack	Yes	\$ 28.52 \$ 28.52	- 420	Deferred until 2020 due to COVID19 delays.
Landscape improvements Automatic Entrance Gate @ Distribution Facility	Replace manual gate @ Distribution facility with automatic gate.	2008276	DW17-183	0.1 DSRR	2/2/2016	\$ 12,000 \$ 10,000	Yes No	\$ 12,550 \$	\$ 15,350 \$ 3,083	Merrimack	Yes	\$ 28.52	438	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	,	Merrimack	Yes	\$ 28.52		Replace existing failed tritector.
Replacement Equipment/Excavator Trailer	Replacement Equipment/Excavator Trailer	2007566	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 19,457	\$ 17,917	Merrimack	No	\$ 28.52	i -	
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	s -	Yes	\$ 6,994	\$ 4,995	Merrimack	No	\$ 28.52	-	
West Hollis Street Check Valve Pit NWS Improvements - Manchester Street	Install at the intersection of W. Hollis St and Panther Dr. Install 1700 LF of 24 inch DI and new Fencing.	n/a 2000383	DW17-183	26,101 DWGTF	2/2/2018	\$ 88,000 \$ 125,000	Yes Yes	\$ - \$ 86,000	\$ 85,059	Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13	2,308	Deferred
NWS Improvements - Deerwood Dr. Northwest Blvd Loop	Add 3400 LF of 20 inch HDPE including RR pipe jacking.	2000386		DWGTF		\$ 40,000	Yes	\$ 18,500		Nashua	Yes	\$ 27.13	531	
NWS Improvements Veteran's Rd/Route 101A Loop	Add 2200 LF of 12 inch DIPCL to close two loop major dead ends.	2000384		DWGTF		\$ 125,000	Yes	\$ 125,000		Nashua	Yes	\$ 27.13	3,407	
NWS Improvements Tinker Road Paving and restoration Simon & Will Street - Paving	NWS Improvements Tinker Road Paving and restoration. Simon & Will Street - Paving	2000385 2000387	DW17-183	DWGTF 26,101	2/2/2018	\$ 125,000 \$ 30,000	Yes Yes	\$ 126,000 \$ -	\$ 125,458	Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13	3,404	Deferred
Garden Street - Final Paving	Garden Street - Final Paving	2000388	DW17-183	26,101	2/2/2018	\$ 18,000	Yes	\$ -		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	DWGTF 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 DWGTF.
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	-,	Project cost increased by \$80,000 to develop Source Water Protection plan required by NHDES.
Poplace Vessler Form hooster sums codeses		2000389	DW17-183	26,101	2/2/2018	\$ 75,000		\$ 188,000	\$ 190,901	Nashua	Yes			Budget to be increased as a portion of site work for the Kessler Farm Tank was transferred to this project. Winning project bid was
Replace Kessler Farm booster pump package	Replace 31 year old package booster station pumps and piping.	2000369	DW17-163	20,101	2/2/2016	\$ 75,000	Yes	\$ 100,000	\$ 190,901	Nasnua	ies	\$ 27.13	5,179	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		Nashua	Yes	\$ 27.13		Restoration work slated for 2021 was completed in 2020.
Hamilton Street (Lake St Area PH2) Burritt Street (Lake St Area PH2)	Replace 410 LF of 6 inch CI with 4 inch DIPCL. Replace 425 LF of 4 inch CI with 8 inch DIPCL.	1502512, 2003422 1502513, 2003420	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 87,000 \$ 141,000	Yes Yes	\$ 137,000 \$ 146,800		Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13	3,420 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	\$ -	9 134,733	Nashua	Yes	\$ 27.13	- 5,055	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. Abandon Approx. 700 LF of AC Main, Transfer 2 services & 1 Hyd to parallel 8" DIPCL water	n/a	DW17-183	26,101	2/2/2018	\$ 83,000	Yes	\$ 70,000		Nashua	Yes	\$ 27.13	-	
Amherst Dodge Rd Watermain Abandonment	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 DSRR		\$ 3,388,000	No	\$ 60,000	\$ 65,161	Nashua	No			Design only. Construction deferred until 2021.
•			DW17-183	26,101	2/2/2018		.,	· ·	·			\$ 27.13	-	
Replace Engineering Pickup Replace Engineering SUV #34	2020 Ford Escape SE - Replace Vehicle #101 2020 Ford Escape SE - Replace Vehicle #401	2006652 2006755	DW17-183 DW17-183	26,101	2/2/2018 2/2/2018	\$ 35,000 \$ 30,000	Yes	\$ 24,431 \$ 24,474		Merrimack Merrimack	No No	\$ 28.52 \$ 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		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	-	
														Added Pump Station roof hatches and roofing to facilitate pump replacement in the future. Bid price received for new pump was
Merrimack River Pumping Station	Add third 350 horsepower pump and motor with variable frequency drive.	2003759	DW17-183	26,101	2/2/2018	\$ 260,000	Yes	\$ 600,000	\$ 485,114	Merrimack	Yes			higher than anticipated. Added Electrical system upgrades for code and redundency. There will be an additional \$140,000 of
	D. L. STOLE CALL CT. LOCAL CALLOS AND CALLOS AND CALLOS		DW/45 400	26.101	2/2/2010	_	v					\$ 28.52		expenditures to complete this project in 2021.
Crescent Street (sewer related) Crescent Street (paving contribution)	Replace 250 LF of 4 inch CI and 96 LF of 1 1/4 inch CL with 150 LF of 4" PVC. Replace 250 LF of 4 inch CI and 96 LF of 1 1/4 inch CL with 150 LF of 4" PVC.	2001230	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ -	Yes Yes	\$ 39,000 \$ 15,000	\$ 54,705	Nashua Nashua	Yes	\$ 27.13 \$ 27.13	1,484	Added due to Kessler Farm Tank deferral to 2021. Added due to Kessler Farm Tank deferral to 2021.
School Street	Replace 400 LF of 4 inch CI with 680lf of 6 inch DIPCL (creates a looped system).	2003533	DW17-183	26,101	2/2/2018	s -	Yes	\$ 267,000		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 - addition to Lake St Ph 2 project.	2007556	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 92,900		Nashua	Yes			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		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 2007541	DW17-183 DW17-183	26,101 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 Ingalls St - complete in 2020	Cut in tees for manatee and sarasota. Emergency water main replacement - 175' of Galv (1921) replaced with 4" PVC.	200/541	DW17-183 DW17-183	26,101	2/2/2018 2/2/2018	s -	Yes Yes	\$ 31,500 \$ 37,000		Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13		Intersection work associated with Sarasota and Manatee projects. Added due to Kessler Farm Tank deferral to 2021.
Walnut St - water main (added to crescent/school st project)	Paving related to water main replacement - replace 56' of 12" CI and 230' of 8" CI (1925-	2006558	DW17-183	26,101	2/2/2018	-		\$ 84,000		Nashua				
	unlined) with 286' of 12" DIP.	2000558				\$ -	Yes	9 04,000	¥ /4,//4		Yes	\$ 27.13		Added due to Kessler Farm Tank deferral to 2021, \$\$ from paving contribution in row 67 added in.
Walnut St (paving contribution)	Paving Contribution for paving in 2021.		DW17-183	26,101	2/2/2018	\$ -	Yes	÷ -	 	Nashua	Yes	\$ 27.13	-	Added due to Kessler Farm Tank deferral to 2021, \$\$ in row 66. Added due to Kessler Farm Tank deferral to 2021. The majority of this project will be occurring in 2021 due to later than expected
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	<u> </u>	bid opening.
Pennichuck Brook Ponds Aerial Survey	Pennichuck Brook Ponds Aerial Survey	2006039	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 21,700		Nashua	No	\$ 27.13		Drouight response. Survey of exposed bottow of Harris and Bowers Pond.
Upgrade SCADA historian software, new hardware	Upgrade SCADA historian software, new hardware.	2000376	DW17-183	26,101	2/2/2018	\$ 65,000	Yes	\$ 65,000	\$ 54,749	Nashua	Yes	\$ 27.13	1,485	
		1901734, 1907078,		0.1 DSRR				_						
Bowers Dam LOD response engineeriing	Bowers Dam LOD response engineering	2000373		0.1 DSRR		\$ 10,000	No No	\$ 10,000		Nashua/Merrimack	No No	\$ 27.83	<u>-</u>	Bowers Dam LOD response engineering Deferred
Harris LOD response engineering Supply Pond LOD response engineering	Harris LOD response engineering Supply Pond LOD response engineering	1907076, 2000375 1907077, 2000374		0.1 DSRR 0.1 DSRR		\$ 20,000 \$ 32,000	No No	\$ 20,000 \$ 32,000		Nashua/Merrimack Nashua/Merrimack	No No	\$ 27.83 \$ 27.83		Deferred Deferred
	Final costs for reinstallation and alignment.	1619402, 1701898,	DW17-183	26,101	2/2/2018	\$ 5,000	Yes	\$ 32,000	\$ 53,457					Previous Year work was instrumental in the completion of the rebuild of NW Pump #1, remaining \$50,000 for the rebuild of NWS
Rebuild Pump 1, Northwest, Nashua		1918550, 2000438		· ·		· ·		· ·		Nashua	Yes	\$ 27.13		Pump #2. See row 94 below.
New Vehicle for WS electrician	Final costs for fit 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	s -	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
	1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,			,	.,.,				,				<u> </u>	cash collected via MSDC tariff. The remaining 43,891 gallons were used by existing customers.
		60, 61, 62 & 63	DW17-183	26,101	2/2/2018							\$ 28.45		
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild	workorders		· ·		\$ 40,000	Yes	\$ 25,000		Various	Yes			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		Bedford	Yes	\$ 24.62	131	
Booster Pump replacement/rebuild	WTP Intermediate pump #2 electric motor rebuild	2007216 60, 61, 62 & 63	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 12,644		Nashua	Yes	\$ 27.13	343	
Well Pump replacements	Well Pump replacements	60, 61, 62 & 63 workorders	DW17-183	26,101	2/2/2018	\$ 15,000	Yes	\$ 5,025	\$ 15,160	Various	Yes	\$ 28.45	431	2 well pumps repaired/replaced through 12/31/20.
		60, 61, 62 & 63	DW17-183	26,101	2/2/2018							\$ 28.45		
Chemical Feed pump replacements	Chemical Feed pump replacements	workorders		· ·		\$ 10,000	Yes	\$ 4,939	,	Various	Yes			3 Chemical Pumps Repaired/Replaced through 12/31/2020.
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	
														152

Besidest Name / Description			Einen eine Deeleet Ne	. NHPUC Order No.	Date of NHPUC Order	Board Approved	QCPAC	Estimated Project	Final Project cost	Community	Tamble	2020 Tax	QCPAC Eligible Property Tax	
Project Name/Description	Project Description	Work Order #	Financing Docket No.				Eligible?	11/30/2020	as of 12/31/2020		Taxable	Rate (1)	Expense	Explanation for Change/Addition/Deletion from Board Approved 2020 Capex Budget
Dam raise earthen embankment, raise dike wall ructural Improvements	Harris Dam raise earthen embankment, raise dike wall. Misc. Structural Improvements	n/a n/a	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 965,000 \$ 20,000	Yes Yes	\$ -		Nashua/Merrimack Various	Yes S	\$ 27.83 \$ 28.52		Deferred until 2021, Engineering services in 2020, See Row 72.
ructural Improvements	Replace Fire Alarm System Control Boards - Damaged by Lightning Strike.	2006032	DW17-183	26,101	2/2/2018	\$ 20,000	Yes	\$ 15,120	\$ 14,242	Nashua	Yes		7	,
			-	-	2/2/2018	,	Yes	\$ 4,235			L .	\$ 27.13		
ructural Improvements	Replace Maple Haven Pump Station Rood.	2008269	DW17-183	26,101				\$ 4,233	\$ 5,170	Derry	Yes	\$ 29.06	9 130	
neous Equipment Purchased	Miscellaneous Equipment Purchased	n/a 2003515	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 17,500	Yes Yes	\$ 3,300	\$ 3,287	Nashua Nashua	Yes S	\$ 27.13 \$ 27.13		
neous Equipment Purchased neous Equipment Purchased	Replace Sewage Ejection Pump, Snow Station WTP Replace Filter-to-Waste Valve	1918552	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 3,300			Yes	\$ 27.13 \$ 27.13	-	This was in 2019 budget, but did not go useful until 2020.
neous Equipment Purchased	Replace Sludge Pump #2, WTP.	2004525	DW17-183	26,101	2/2/2018	s -	Yes	\$ 3,410		Various	Yes	\$ 28.52	_	
neous SCADA/Electrical	Miscellaneous SCADA/Electrical	n/a	DW17-183	26,101	2/2/2018	\$ 30,000	Yes	s -	3,100	Various	Yes	\$ 28.52		
neous 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	
neous 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	4
neous 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
neous 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
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	-	
actural/HVAC	WTP Structural/HVAC	n/a	DW17-183	26,101	2/2/2018	\$ 10,000	Yes	\$ -		Nashua	Yes	\$ 27.13		
new lab equipment	Purchase new lab equipment.	n/a	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 20,000	Yes	\$ 5,000		Nashua	Yes S	\$ 27.13 \$ 27.13	-	
eous Fencing and Security projects Vehicle 200	Miscellaneous Fencing and Security projects Replace Vehicle 200	n/a 2007616	DW17-183	26,101	2/2/2018	\$ 10,000 \$ 40,000	Yes Yes	\$ 35,000	\$ 31,949	Various Nashua	Yes No	\$ 27.13 \$ 27.13		
Vehicle 201	Replace Vehicle 201	200/616	DW17-183	26,101	2/2/2018	\$ 55,000	Yes	\$ 55,000	-	Nashua	No :	\$ 27.13 \$ 27.13		
enicle 201 ehicle 63	Replace Vehicle 63	n/a	DW17-183	26,101	2/2/2018	\$ 35,000	Yes	\$ -	9 33,002	Nashua	No :	\$ 27.13 \$ 27.13	-	Deferred
eplace 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	s -		Nashua	Yes	\$ 27.13		No contractors available. Deferred until 2021.
edia 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		
w 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.
PLC Replacements	SCADA PLC Replacements	n/a	DW17-183	26,101	2/2/2018	\$ 75,000	Yes	\$ -		Nashua	Yes	\$ 27.13		Deferred until 2021.
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.
ferrimack 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	7
ond 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
m 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
R Enhancements	Munis FER Enhancements	n/a	DW17-183	26,101	2/2/2018	\$ 35,000	Yes	\$ 35,000		Merrimack	No :	\$ 28.52	-	
ware	Misc Hardware	n/a	DW17-183	26,101	2/2/2018	\$ 20,000	Yes	\$ 1,500		Merrimack	No :	\$ 28.52		
dware	Laptop Purchase for Regulatory Department - JK	2001987	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ -	Yes	\$ 1,660	-	Merrimack	No S	\$ 28.52	-	Purchase to accommodate work from home created by COVID19.
lware Iware	Laptop Purchase for Regulatory Department - CAH Laptop Purchase for onboarding employees (5)	2002761 2002930	DW17-183	26,101	2/2/2018		Yes Yes	\$ 1,400 \$ 9,995		Merrimack Merrimack	No S	\$ 28.52 \$ 28.52	_	Purchase to accommodate work from home created by COVID19. Purchase to accommodate work from home created by COVID19.
dware	Laptop Purchase for Ondoarding employees (5) Laptop Purchase for New Employee C. Harding	2002930	DW17-183	26,101	2/2/2018	ş -	Yes	\$ 9,993		Merrimack	No :	\$ 28.52		Purchase to accommodate work from home created by COVID19. Purchase to accommodate work from home created by COVID19.
rdware	Spare Laptop Purchase Spare Laptop Purchase	2005238	DW17-183	26,101	2/2/2018	9 -	Yes	\$ 1,005	+	Merrimack	No :	\$ 28.52	-	Purchase to accommodate work from home created by COVID19.
rdware	New Laptop for Accounting new hire - Payroll Admin	2006388	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 1,160		Merrimack	No S	\$ 28.52		Purchase to accommodate work from home created by COVID19.
tware	Misc Software	n/a	DW17-183	26,101	2/2/2018	\$ 12,000	Yes	\$ 1,100	\$ 1,100	Merrimack		\$ 28.52		Turchase to accommodate work from nome created by COVID17.
itware	Macola Development Environment for testing upgrade.	2002276	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 5,280	\$ 6,400	Merrimack	No	\$ 28.52		
tware	Tyler Notify	2003317	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 3,840		Merrimack	No :	\$ 28.52		
ftware	MSL Server License for Munis Upgrade	2005976	DW17-183	26,101	2/2/2018	ş -	Yes	\$ 6,350		Merrimack	No :	\$ 28.52	\$ -	Deferred
upgrades	Website upgrades	n/a	DW17-183	26,101	2/2/2018	\$ 8,000	Yes	\$ -		Merrimack	No :	\$ 28.52	\$ -	
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	\$ -	
al 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	s -	
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	2003426	DW17-183	26,101	2/2/2018	\$ 3,000	Yes	\$ 3,000	\$ 3,252	Merrimack	No			
vicess At 3 tot w 11	solution for HQ so these will need to be replaced.	2003420	DW17-103	20,101	2/2/2010	9 5,000	103	9 5,000	9 3,232	Werminger	100	\$ 28.52	\$ -	
Replacement for PS6110 Array	Nimble addon shelf – 33tb usable	2003425	DW17-183	26,101	2/2/2018	\$ 57,000	Yes	\$ 30,000		Merrimack	No :	\$ 28.52	-	
ackup 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		
mote Control Software	5 licenses	n/a	DW17-183	26,101	2/2/2018	\$ 1,300	Yes	\$ 1,300		Merrimack	No :	\$ 28.52	\$ -	
	D. L. G. MYLLY . I.	*******	DW17-183	26,101	2/2/2018									
eplacment project	Replace Synergen/WAM with newer more cost effective/improved functionality system. New Building	2000368 2001988		0.1 DSRR		\$ 600,000 \$ 78,300	Yes	\$ 450,000 \$ 140,000		Nashua Nashua	Yes	\$ 27.13		Project implementation has been slowed due to COVID19. Project \$\$ not used in 2020 will carry over into 2021.
ding ding - Server Room Networking	Routers/Switches/Racks/Patch Panels	2100047		0.1 DSRR 0.1 DSRR		\$ /8,300 \$ 19,000	No No	\$ 140,000		Nashua Nashua	Yes S	\$ 27.13 \$ 27.13		
ing - Server Koom Networking	Routers/ Switches/ Racks/ Patch Paneis	2100047								iNasnua	ies .	2/.13	\$ 404	†
ding - Phone System	Replacement of existing Phone sytem. 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	
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	-	
nt 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		
ware 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	\$ -	
treet, 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.
reet, 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.
rl Street, Final Restoration	2020 Carryover Costs	2000695	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 12,750		Nashua	Yes	\$ 27.13		Not included in approved 2020 Budget.
	Paid out in 2020 on retainage held on 2019 projects.	N/A	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 162,383		Nashua	Yes	\$ 27.13		
	Held on various projects listed above. Will be paid out in 2021.	N/A	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ (54,805)			Yes	\$ 27.13		/
interest	Interest accrued on PWW FALOC from 5/1/2020 to 4/1/2021.		DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 70,000		Various	No S	\$ 28.45		Projected interest accrued on FALOC \$\$ for funding of 2020 Capex projects.
et, Final Restoration	2020 Carryover Costs	2000696	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 21,750		Nashua	Yes	\$ 27.13		Not included in approved 2020 Budget.
Street, Final Restoration	2020 Carryover Costs	2000697	DW17-183	26,101 26,101	2/2/2018	\$ -	Yes	\$ 1,500		Nashua	Yes	\$ 27.13		Not included in approved 2020 Budget.
im Hand Truck	New Drum Hand Truck Poologo Sludgo Displayed Physics #1	2003534 2100054	DW17-183 DW17-183	26,101	2/2/2018 2/2/2018	9 -	Yes	1	\$ 1,383 \$ 3,522	Nashua	Yes S	\$ 27.13		′
Sludge Discharge Pump #1	Replace Sludge Discharge Pump #1 M-Scopes & Metal Detectors	2100054 2100055	DW17-183 DW17-183	26,101	2/2/2018	9 -	Yes Yes	1	\$ 3,522 \$ 9,910	Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13		
& Motal Detectors		2100000	DW1/-103		2/2/2010	9 -		+						′1
& Metal Detectors ace Planning	Office Space Planning	1806837, 1917427		0.1 DSRR		S - 1	No		\$ 30,045	Nashua	No :	\$ 27.13	1.3	

	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 I	ojected PWW QCPAC Capex for 2020 funded with Bonds -	\$ 9,211,025	\$ 5,994,446	\$	5,605,797	
Am	ant 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	
Yea	(a) 4.056692%	\$ 536,347	\$ 349,050	s	326,419	
Yea	@ 3.38%	\$ 7,518	\$ 10,289	\$	7,518	

Estimated Bond Terms (Bonds to be sold in April 2021) -Merrimack River Intake DWGTF Terms -

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PWW QCPAC Filing Exhibit DLW-1 Page 3

Pennichuck Water Works, Inc.
DW 21-023
2020 used and useful QCP's
2/11/2021
Revised 5/26/2021 per Staff Tech Session DR

Revised 7/20/2021 Per Staff DR 1														
1														
								Estimated Project					QCPAC Eligible	
						Board Approved	QCPAC	Cost as of	Final Project cost			2020 Tax	Property Tax	
Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order			11/30/2020	as of 12/31/2020	Community	Taxable	Rate (1)	Expense	Explanation for Change/Addition/Deletion from Board Approved 2020 Capex Budget
	Northwest System Improvements DWGTF Terms -	30	Years @	2.704%		\$ 20,371		\$ 17,450	\$ 17,458					

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

											QCPAC	
											Eligible	
Project Name/Description			Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount Q	CPAC Eligible	Community	Taxable	Tax Rate (1)	Property Tax Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing
Foreman Truck	Project Description We Upfit of Foreman's Truck body at JC Madigans.	ork Order #	110.	0.1 DSRR	Jiuci	\$ 61,000	No No	Merrimack		\$ 28.52		1 ming
2021 New Services (10)	Single Family, Owner Build, New Homes		DW20-157	0.1 DSRR Awaiting A	pproval	\$ 61,000	Yes	Various Various	Yes Yes	\$ 28.52 \$ 28.45		
2021 Renewed Services (20)	Replacement of Failed Services		DW20-157	Awaiting A	pproval	\$ 110,000	Yes	Various	Yes	\$ 28.45	\$ 3,130	
2021 Hydrants (15)	Replacement of non-functional hydrants		DW20-157	Awaiting A	* *	\$ 90,000	Yes	Various	Yes	\$ 28.45		
2021 Gates (10) 2021 Radios (4250)	Replacement of Failed Gate Valves Yr 1 of 7 Replacement of all PWW Radios installed in 2007 (4000). New Radios for new customers (250).		DW20-157 DW20-157	Awaiting A Awaiting A		\$ 40,000 \$ 425,000	Yes Yes	Various Various	Yes Yes	\$ 28.45 \$ 28.45		
2021 Meters (Growth) 5/8"-2" - Core & CWS (TBD)	New meters for new customers (250). Replacement of failed meters(250).		DW20-157	Awaiting A		\$ 50,000	Yes	Various	No	\$ 28.45	\$ -	
Replacement Utility Truck	Replacement for Truck #83 - 2011 F350, 110K miles, High maint costs & lots of body rust/rot.		DW20-157	Awaiting A	* *	\$ 70,000	Yes	Merrimack	No	\$ 28.52	-	
Replacement Utility Truck Replacement Full Size Pickup	Replacement for Truck #9 - 2014 F350, 110K Miles, High maint costs & significant rust. Replacement for Truck #95 - 2008 Ford Ranger 110K miles did not pass inspection.		DW20-157 DW20-157	Awaiting A Awaiting A	1.1	\$ 70,000 \$ 45,000	Yes	Merrimack Merrimack	No No	\$ 28.52 \$ 28.52		
Replacement Full Size Pickup	Replacement for Truck #30 - 2008 Ford Ranger 135K miles did not pass inspection.		DW20-157	Awaiting A	* *	\$ 45,000	Yes Yes	Merrimack	No	\$ 28.52		
Replacement SUV - Meter Reading	Replacement for vehicle #21 - 2013 Chevy Equinox 135k miles, high maint costs & suspension issues.		DW20-157	Awaiting A	**	\$ 35,000	Yes	Merrimack	No	\$ 28.52		
Landscape Improvements	Irrigation system, loam & seed area at front of Distribution Building. Replacement for # 96 - 2010 EHWA Valvemate - Valve Turner not functional and cannot get parts.		DW20-157	Awaiting A	* *	\$ 15,000	Yes	Merrimack	Yes	\$ 28.52	\$ 428	
Replacement Valve/vac trailer Replacement Equipment Trailer	Replacement for # 53 - 14' BigTex Trailer - Excessive rust & rot and safety issues.		DW20-157 DW20-157	Awaiting A Awaiting A	* *	\$ 65,000 \$ 7,500	Yes Yes	Merrimack Merrimack	No No	\$ 28.52 \$ 28.52	\$ - \$ -	
Protectus Meter Upgrade	Protectus Meter Upgrade		DW20-157	Awaiting A	* *	\$ 22,000	Yes	Nashua	Yes	\$ 27.13		
Valve Turner & Vac Truck	Replacemnt for #60 - 15 Year Vac/Valve Trailer with excessive rot, will not pass inspection.		DW20-157	Awaiting A		\$ 200,000	Yes	Merrimack	No	\$ 28.52		
Office Space for Const & Maint Supervisor Locker Room Deep Wash Sinks	Permanent office space for Contruction & Maintenance Supervisor Deep stainless wash sinks to replace existing sinks in male & female locker rooms.		DW20-157 DW20-157	Awaiting A Awaiting A	* *	\$ 15,000 \$ 10,000	Yes Yes	Merrimack Merrimack	Yes Yes	\$ 28.52 \$ 28.52		
Locker Room Benches	Permanent Benches for Male & Female locker rooms.		DW20-157	Awaiting A Awaiting A		\$ 10,000	Yes	Merrimack	Yes	\$ 28.52 \$ 28.52		
Brook Street	Replace 225 LF of 4 inch and 915 LF of 6 inch CI with 1140 LF of 8 inch DIPCL.		DW20-157	Awaiting A	pproval	\$ 103,000	Yes	Nashua	Yes	\$ 27.13	\$ 2,794	
Hamilton Street	Replace 410 LF of 6 inch CI with 4 inch DIPCL.		DW20-157	Awaiting A	* *	\$ 33,000	Yes	Nashua	Yes	\$ 27.13		
Burritt Street Burritt Street	Replace 425 LF of 4 inch CI with 8 inch DIPCL. Replace 125 LF of 4 inch CI with 4 inch DIPCL.		DW20-157 DW20-157	Awaiting A Awaiting A	* *	\$ 24,000 \$ 12,000	Yes Yes	Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13		
Verona Street	Replace 675 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting A	* *	\$ 56,000	Yes	Nashua	Yes	\$ 27.13		
Sarasota Ave	Replace 250 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting A	pproval	\$ 24,000	Yes	Nashua	Yes	\$ 27.13	\$ 651	
Merrimack River Pumping Station	Add third 350 horsepower pump with electrical and Structural Improvements.		DW20-157	Awaiting A	* *	\$ 140,000	Yes	Merrimack	Yes	\$ 28.52		
Kessler Farm Tank Replacement Coburn Woods (all side streets)	Replaced 4 MG painted steel water tank with 4 MG prestressed, precast water tank. Replace 4400 LF of 2 inch PVC with 4 inch DIPCL.		DW20-157 DW20-157	Awaiting A Awaiting A	**	\$ 4,000,000 \$ 1,855,000	Yes Yes	Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13		
Merrimack River Intake	Merrimack River Intake Modified Source Water Protection Plan			0.1 DSRR	rr ····	\$ 30,000	No	Merrimack	No	\$ 28.52		
Balcom Street	Replace 1240 LF 6 inch Cl with 1240 LF 8 inch DIPCL.		DW20-157	Awaiting A	* *	\$ 294,000	Yes	Nashua	Yes	\$ 27.13		
Euclid Avenue Sweet Hill Internnection	Replace 425 LF 6 inch CI with 425LF 8 inch DIPCL. Connecting Pipeline and Meter Pit		DW20-157	Awaiting A NHDES SRF ot DWGTF	pproval	\$ 100,000 \$ 250,000	Yes Yes	Nashua Plaistow	Yes Yes	\$ 27.13 \$ 29.00		
Twin Ridge Interconnection	Connecting Pipeline and Meter Pit			NHDES SRF of DWGTF		\$ 100,000	Yes	Plaistow	Yes	\$ 29.00		
PWW RRA- ERP	Engineering Evaluations to Implement Recommendations			0.1 DSRR		\$ 200,000	No	Various	No	\$ 28.45		
Trimble GPS and Monitoring Equipment Merrimack River Watershed Council	Level Monitors, Pressure Monitors and Flow Monitors Grant Match with othe Stakeholders \$40k for five years.		DW20-157 DW20-157	Awaiting A Awaiting A		\$ 32,000 \$ 40,000	Yes No	Various Various	Yes No	\$ 28.45 \$ 28.45		
Investment in Developer Services	1x Annual Revenue		DW20-157	Awaiting A Awaiting A	* *	\$ 90,000	Yes	Various	Yes	\$ 28.45	-	
Engineering Vehicle	SUV Replaces a 2014 vehicle with over 150,000 miles.		DW20-157	Awaiting A	pproval	\$ 30,000	Yes	Nashua	No	\$ 27.13	\$ -	
Engineering Vehicle COO Vehicle	SUV Relpaces (#34) 2010 with over 196,000 miles. SUV Replaces a 2014 vehicle with over 150,000 miles.		DW20-157 DW20-157	Awaiting A	* *	\$ 30,000	Yes	Nashua Nashua	No No	\$ 27.13 \$ 27.13		
Bon Terrain Contractual Payment	Phase 1 payment per SNHWC contract with Tana Properties.		DW20-157	Awaiting A Awaiting A		\$ 30,000 \$ 129,200	Yes Yes	Nashua Amherst	No No	\$ 27.13		
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild		DW20-157	Awaiting A		\$ 40,000	Yes	Various	Yes	\$ 28.45		
Well Pump replacements	Well Pump replacements		DW20-157	Awaiting A	* *	\$ 15,000	Yes	Various	Yes	\$ 28.45		
Chemical Feed pump replacements Supply Pond Spillway Improvements	Chemical Feed pump replacements Supply Pond Spillway Improvements		DW20-157 DW20-157	Awaiting A Awaiting A		\$ 10,000 \$ 750,000	Yes Yes	Various Merrimack/Nashua	Yes Yes	\$ 28.45 \$ 27.83		
Harris Dam raise earthen embankment, raise dike wall, regulatory requirement.			DW20-157	Awaiting A		\$ 965,000	Yes	Merrimack/Nashua	Yes	\$ 27.83		
Misc. Structural Improvements	Misc. Structural Improvements		DW20-157	Awaiting A	* *	\$ 20,000	Yes	Various	Yes	\$ 28.45	-	
Miscellaneous Equipment Purchased Miscellaneous SCADA/Electrical	Miscellaneous Equipment Purchased Miscellaneous SCADA/Electrical		DW20-157 DW20-157	Awaiting A Awaiting A	* *	\$ 20,000 \$ 30,000	Yes Yes	Various Various	Yes Yes	\$ 28.45 \$ 28.45		
Rebuild 1 High lift/Intermediate pump	Rebuild 1 High lift/Intermediate pump		DW20-157	Awaiting A		\$ 25,000	Yes	Nashua	Yes	\$ 27.13		
WTP Structural/HVAC	WTP Structural/HVAC		DW20-157	Awaiting A	pproval	\$ 10,000	Yes	Various	Yes	\$ 28.45	\$ 285	
Purchase new lab equipment Miscellaneous Fencing and Security projects	Purchase new lab equipment Miscellaneous Fencing and Security projects		DW20-157 DW20-157	Awaiting A Awaiting A	* *	\$ 20,000 \$ 10,000	Yes Yes	Nashua Various	No Yes	\$ 27.13 \$ 28.45		
Add Third pump - Donald Street Booster Station	Add Third pump - Donald Street Booster Station		DW20-157	Awaiting A Awaiting A		\$ 40,000	Yes	Bedford	Yes	\$ 24.62		
Vehicle replacement	Vehicle replacement-replace vehicle 210. >160,000 miles, 3K repairs in 2020.		DW20-157	Awaiting A	pproval	\$ 55,000	No	Nashua	No	\$ 27.13	\$ -	
Vehicle replacement Replace 6 filter turbidimeters (manufacturer no longer supports current units).	Vehicle replacement - Replace vehicle 351. >163,000 miles, 6K repairs in 2020. Replace 6 filter turbidimeters (manufacturer no longer supports current units).		DW20-157 DW20-157	Awaiting A Awaiting A		\$ 40,000 \$ 30,000	No Yes	Nashua Nashua	No Yes	\$ 27.13 \$ 27.13		
Rebuild of Pump 2 @ Merrimack River Intake.	Rebuild of Pump 2 @ Merrimack River Intake.		DW20-157	Awaiting A Awaiting A	1.1	\$ 30,000	Yes	Merrimack	Yes	\$ 27.13		
Repair/Replace Soffit and Fascia, Boat House Bldg.	Repair/Replace Soffit and Fascia, Boat House Bldg.		DW20-157	Awaiting A		\$ 30,000	Yes	Nashua	Yes	\$ 27.13		
Install new Day Fuel Tank, Controller and related again, FWDS Consect-	Regulatory requirement, existing equipment is malfunctioning and unreliable, Soft metals present in piping system which is not allowed.		DW20-157	Awaiting A	pproval	e 75.000	V	NIl	NT.	9 27.12		
Install new Day Fuel Tank, Controller and related equip. FWPS Generator CMMS replacment project (Estimate)	Replace Synergen/WAM with newer more cost effective/improved functionality system.		DW20-157	Awaiting A		\$ 75,000 \$ 100,000	Yes Yes	Nashua Nashua	No Yes	\$ 27.13 \$ 27.13	\$ -	
Infoview Licenses	Infoview Licenses		DW20-157	Awaiting A		\$ 65,000	No	Nashua	No	\$ 27.13		
	The new phone system, these phone lines use the internet to make and receive telephone calls. We											
<u>L</u>	currently only have a single internet feed for the office and the WTP/Distribution facilities. This project											
Redundant Internet	provides a secondary internet feed into the Distribution facility which internet will provide us a redundant		DW20-157	Awaiting A	pproval	\$ 69,000	Yes	Nashua	Yes		\$ 1,872	
	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.									0		
								-		\$ 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		DW20-157	Awaiting A	pproval	\$ 37,000	Yes	Nashua	Yes		\$ 1,004	
Treatment Figure Distribution Security retront	notifications of access to each of the buildings.		₩20-13/	A waiting A	FF	37,000	103	1 NaSii da	165	\$ 27.13	9 1,004	
	Add tool box, work bench and parts storage to the IT room to keep things organized to provide a place to		DIW20 455	A *** *	1		X7			27.13		
IT Storage Room / Work Room	work on physical computers and perform repairs.		DW20-157	Awaiting A	~ ~	\$ 4,000	Yes	Nashua	Yes	\$ 27.13		
Cybernetics Disk Array	Replace 7 year of device used for system back ups.		DW20-157	Awaiting A	pproval	\$ 20,000	Yes	Nashua	No	\$ 27.13	\$ -	

PWW QCPAC	Fil
Exhibit D	LV
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Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order		oproved ted Amount Q	CPAC Eligible?	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing
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.		DW20-157	Awaiting	Approval	\$	106,000	Yes	Nashua	No	\$ 27.13	\$ -	
Computer Updates	There are 30 Computers that are due for replacement in 2023. These computers have very slow hard drive	es which make thes	DW20-157	Awaiting .	Approval	\$	6,000	Yes	Nashua	No	\$ 27.13	\$ -	
Snow Station Switch Replacement	Replace the outdated switch that connects the fiber optic cable from outsdie to the inside of the WTP.		DW20-157	Awaiting .	Approval	\$	1,000	Yes	Nashua	Yes	\$ 27.13	\$ 27	
Munis FER Enancements	Munis FER Enhancements		DW20-157	Awaiting .	Approval	\$	35,000	Yes	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.		DW20-157	Awaiting .	Approval	\$	20,000	Yes	Nashua	No	\$ 27.13	\$ -	
CMMS PLL Implementation	Implementation of Cityworks PLL. Cityworks PLL simplifies applications for customers and streamlines workf	flows for staff.	DW20-157	Awaiting .	Approval	\$	170,000	Yes	Nashua	Yes	\$ 27.13	\$ 4,612	
Cityworks PLL License	License for above (Estimate)		DW20-157	Awaiting .	Approval	\$	40,000	Yes	Nashua	No	\$ 27.13	\$ -	
Misc Hardware	Misc Hardware		DW20-157	Awaiting .	Approval	\$	20,000	Yes	Various	No	\$ 28.45	\$ -	
Misc Software	Misc Software		DW20-157	Awaiting .	Approval	\$	12,000	Yes	Various	No	\$ 28.45	\$ -	
WTP Wifi expansion	WTP Wifi expansion		DW20-157	Awaiting .	Approval	\$	15,000	Yes	Nashua	No	\$ 27.13	\$ -	
		Pennichu	ck Water Works Projec	ted 2021 Total Capital l	Expenditure Budge	t - \$	12,015,200		Projected Prope	rty Tax Expense	associated with	\$ 285,917	

Total Projected Bond funded PWW QCPAC Capex for 2021 - \$
Total Projected NHDES SRF/DWGTF funded PWW QCPAC Capex for 2021 - \$
Total for 0.1 DSRR Projects - \$ 11,374,200 350,000

291,000

Estimated Bond Terms (Bonds to be sold in April 2022) - $$\operatorname{DWGTF}$$ Terms -4.0% resulting in P&I of \$ 3.38% resulting in P&I of \$ 657,771 Years @ 18,745

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

PWW QCPAC Filing 21-023_2022-03-08_exh_6

Exhibit DLW-1

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Projected 2022 QCPAC Capital Expenditures

2/11/2021

Revised 5/26/21 per Staff Tech Session DR, 7/20/21 Staff DR1

Revised 5/26/21 per Statt Tech Session DR, 7/20/21 Statt DR1												
											QCPAC Eligible	
Project Name/Description	D. C. D. C. C.	w 101 #	Financing Docket	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount	QCPAC Eligible?	Community	Taxable	Tax Rate (1)	Property Tax Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing
,	Project Description	Work Order #				ŭ		·		` '	•	ő
2022 New Services (10)	Single Family, Owner Build, New Homes		DW20-157	Ü	Approval	\$ 50,000	Yes	Various	Yes	\$ 28.45		
2022 Renewed Services (20)	Replacement of Failed Services		DW20-157	0	PP	\$ 110,000	Yes	Various	Yes	\$ 28.45	,	
2022 Hydrants (15)	Replacement of non-functional hydrants Replacement of Failed Gate Valves		DW20-157	0	PP	\$ 90,000 \$ 40,000	Yes	Various	Yes	\$ 28.45		
2022 Gates (10) 2022 Radios (500)	Replacement of Failed Gate Valves Replacement of failed Radios (250), New Radios for new customers (250).		DW20-157 DW20-157	0	Approval Approval	\$ 40,000 \$ 50,000	Yes	Various Various	Yes	\$ 28.45 \$ 28.45	, ,	
2022 Radios (500) 2022 Radios (4000)	Yr 2 of 7 Replacement of all PWW Radios installed in 2007 (4000) by contractor.		DW20-157	U	11	\$ 520,000	Yes Yes	Various Various	Yes Yes	\$ 28.45	, , , , ,	
2022 Nations (4000) 2022 Meters (Growth) 5/8"-2" - Core & CWS (TBD)	New meters for new customers, including PFOA (250). Replacement of failed meters(250).		DW20-157	U	Approval	\$ 50,000	Yes	Various	Yes	\$ 28.45	- /	
Replacement Boom Truck	Replacement for #19 - 2011 Ford F450 - High Milage, Maintenance & Safety issues.		DW20-157	U	Approval	\$ 150,000	Yes	Merrimack	No	\$ 28.52	\$ -	
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157		* *	\$ 70,000	Yes	Merrimack	No	\$ 28.52	\$ -	
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157		* *	\$ 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 Cl 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	U	Approval	\$ 47,000	Yes	Nashua	Yes	\$ 27.13		
Temple St (south to gorman)	Replace 900 LF of 8 inch CI with 12 inch DIPCL.		DW20-157	U	Approval	\$ 66,000	Yes	Nashua	Yes	\$ 27.13		
School Street (High to W. Pearl Alleyway)	Replace 400 LF of 4 inch CI with 8 inch DIPCL.		DW20-157	0	Approval	\$ 27,000	Yes	Nashua	Yes	\$ 27.13		
Sargent Street	Replace 1900 LF 6 inch Cl with 1900 LF 16 inch DIPCL.		DW20-157	U	Approval	\$ 480,000	Yes	Nashua	Yes	\$ 27.13		
Courtland Street	Replace 1170 LF 4 inch Cl with 1170 LF 16 inch DIPCL.		DW20-157	0	Approval	\$ 300,000	Yes	Nashua	Yes	\$ 27.13		
Alld Street	Replace 1860 LF of 6 & 8 inch Cl with 12 inch DIPCL.		DW20-157	U	Approval	\$ 740,000	Yes	Nashua	Yes	\$ 27.13		
Lawndale Avenue	Replace 1085 LF of 6 inch CI with 12 inch DIPCL.		DW20-157	0	Approval	\$ 420,000	Yes	Nashua	Yes	\$ 27.13	- /	
Benson Avenue	Replace 550 LF of 4 inch CI with 8 inch DIPCL.		DW20-157		Approval	\$ 160,000	Yes	Nashua	Yes	\$ 27.13		
Spaulding Street	Replace 950 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	0	Approval	\$ 280,000	Yes	Nashua	Yes	\$ 27.13	- /	
Alstead Avenue	Replace 240 LF of 4 inch CI with 4 inch DIPCL.		DW20-157	0	Approval	\$ 61,000	Yes	Nashua	Yes	\$ 27.13	- /	
Spaulding Avenue St Lazare Street	Replace 430 LF of 6, 2, & 1.25 inch CI with 4 inch DIPCL. Replace 415 LF of 2 inch CI with 4 inch DIPCL.		DW20-157		Approval Approval	\$ 80,000	Yes	Nashua Nashua	Yes Yes	\$ 27.13 \$ 27.13		
Ingalls St (St Camille to end)	Replace 200 LF of 1.5 inch CI with 4 inch DIPCL.		DW20-157 DW20-157		Approval	\$ 80,000 \$ 40,000	Yes Yes	Nashua	Yes	\$ 27.13		
Nye Avenues	Replace 400 LF of 1.5 inch CI with 4 inch DIPCL.		DW20-157		Approval	\$ 73,000	Yes	Nashua	Yes	\$ 27.13		
Copp Street	Replace 350 LF of 6 inch CI with 8 inch DIPCL.		DW20-157		Approval	\$ 103,000	Yes	Nashua	Yes	\$ 27.13		
Fairview Street	Replace 800 LF 6 inch Cl with 800 LF 8 inch DIPCL.		DW20-157		Approval	\$ 189,000	Yes	Nashua	Yes	\$ 27.13		
Gray Avenue	Replace 360 LF of 6 inch Cl with 6 inch DIPCL.		DW20-157		Approval	\$ 85,000	Yes	Nashua	Yes	\$ 27.13		
Additional Water Main Replacement	To be determined		DW20-157		Approval	\$ 1,100,000	Yes	Nashua	Yes	\$ 27.13		
2022 Nashua City Sewer Projects	To be determined		DW20-157		Approval	\$ 900,000	Yes	Nashua	Yes	\$ 27.13		
PWW RRA- ERP	Implement Recommendations Evaluated in 2021		DW20-157		Approval	\$ 500,000	Yes	Various	Yes	\$ 28.45		
	Grant Match with other Stakeholders \$40k for five years for land conservation/protection in				**	,						
Merrimack River Watershed Council	the Merrimack River Watershed.			0.1 DSRR		\$ 40,000	No	Various	No	\$ 28.45	\$ -	
Investment in Developer Services	1x Annual Rvenue		DW20-157	Awaiting	Approval	\$ 90,000	Yes	Various	Yes	\$ 28.45	\$ 2,561	
Replace Engineering Pickup	Replace vehicle with high mileage.		DW20-157		Approval	\$ 40,000	Yes	Nashua	No	\$ 27.13		
Replace Engineering Pickup	Replace vehicle with high mileage.		DW20-157		Approval	\$ 40,000	Yes	Nashua	No	\$ 27.13		
Milford Booster Station	Replace/Relocate/Upgrade the Milford Booster Station (>4MGD)		DW20-157		Approval	\$ 800,000	No	Amherst	Yes	\$ 32.93		
Temple St (south to gorman)	Replace 900 LF of 8 inch CI with 12 inch DIPCL.		DW20-157		Approval	\$ 263,000	Yes	Nashua	Yes	\$ 27.13		
School Street (High to W. Pearl Alleyway)	Replace 400 LF of 4 inch CI with 8 inch DIPCL.		DW20-157		Approval	\$ 108,000	Yes	Nashua	Yes	\$ 27.13		
Linwood Street	Replace 960 LF of 6 inch CI with 8 inch DIPCL.		DW20-157		Approval	\$ 283,800	Yes	Nashua	Yes	\$ 27.13		
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild		DW20-157		Approval	\$ 40,000	Yes	Various	Yes	\$ 28.45		
Well Pump replacements	Well Pump replacements		DW20-157	Awaiting	Approval	\$ 15,000	Yes	Various	Yes	\$ 28.45	\$ 427	
Chemical Feed pump replacements	Chemical Feed pump replacements		DW20-157	Awaiting	Approval	\$ 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		Approval	\$ 20,000	Yes	Various	Yes	\$ 28.45		
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical		DW20-157		Approval	\$ 30,000	Yes	Various	Yes	\$ 28.45		
Well Rehabilitation	Well Rehabilitation		DW20-157		Approval	\$ 50,000	Yes	Various	Yes	\$ 28.45		
WTP Structural/HVAC	WTP Structural/HVAC		DW20-157		Approval	\$ 10,000	Yes	Nashua	Yes	\$ 27.13		
Purchase new lab equipment	Purchase new lab equipment		DW20-157		Approval	\$ 20,000	Yes	Nashua	Yes	\$ 27.13		
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects		DW20-157		Approval	\$ 10,000	Yes	Nashua	Yes	\$ 27.13		
Re-paint FWPS ceiling	Re-paint FWPS ceiling		DW20-157		Approval	\$ 20,000	Yes	Nashua	Yes	\$ 27.13		<u> </u>
WTP Replace Vehicle	Replace High Mileage Vehicle.		DW20-157		Approval	\$ 65,000	Yes	Nashua	No No	\$ 27.13		<u> </u>
WTP Replace Vehicle	Replace High Mileage Vehicle.		DW20-157		Approval	\$ 40,000	Yes	Nashua	No No	\$ 27.13		<u> </u>
Bowers Spillway Reconstruction, regulatory requirement Misc Hardware	Bowers Spillway Reconstruction, regulatory requirement Misc Hardware		DW20-157	0.1 DSRR	Approval	\$ 1,100,000	Yes No	Nashua	No No	\$ 27.13 \$ 27.13		
Misc Software	Misc Software		1	0.1 DSRR 0.1 DSRR		\$ 20,000 \$ 12,000	No No	Nashua Nashua	No No	\$ 27.13 \$ 27.13		
Network Hardawre infrastructure improvements	Update aging network infrustructure.		DW20-157		Approval	\$ 12,000	Yes	Nashua	No No	\$ 27.13		
Major Software Replacement Project	Openic aging hetwork initiastructure.		D w 20-13/	0.1 DSRR	ppiovai	\$ 60,000	No	Nashua	No	\$ 27.13		
Munis Enhancements	Munis Enhancements		DW20-157		Approval	\$ 35,000	Yes	Nashua	No	\$ 27.13		
	<u> </u>	Pennichuel: Wat	er Works Projected 2				100			ense associated		
		1 chinemack wat	ci works riojecteu 2	Julian Capital Ex	penditure Budget -	Ψ 10,300,000		1 rojecteu F	Toperty Tax EXP	remot associated	Ψ 440,490	

Total Projected Bond funded PWW QCPAC Capex for 2021 - \$
Total Projected NHDES SRF/DWGTF funded PWW QCPAC Capex for 2021 - \$
Total for 0.1 DSRR Projects - \$ \$ 800,000 for Milford Booster. Milford to pay the 1.1x P&I 9,536,600

172,000

Estimated Bond Terms (Bonds to be sold in April 2022) -4.0% resulting in P&I of \$ 551,503 Years @

Pennichuck Water Works, Inc. DW 21-023 Projected 2022 QCPAC Capital Expenditures

21-023_2022-03-08_exh_6

PWW QCPAC Filing
Exhibit DLW-1
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2/11/2021 Revised 5/26/21 per Staff Tech Session DR, 7/20/21 Staff DR1

	Project Name/Description	Project Description	Work Order#	Financing Docket	NHPUC Order No.			QCPAC Eligible? Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing
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1. Tax rate is the sum of the local community rate plus the Statewide Utility tax rate of 6.60/1000

Revised 6/16/2020 per Staff Tech DR-1, 7/20/21 Staff DR1

											QCPAC	
											Eligible	
			Financing Docket	1	Date of NHPUC	Approved	QCPAC				Property Tax	Explanation for Change/Addition/Deletion since Feb 2021
Project Name/Description	Project Description	Work Order #	No.	No.	Order	Budgeted Amount	Eligible?	Community	Taxable	Tax Rate (1)	Expense	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 .	1.1	\$ 90,000	Yes	Various	Yes	\$ 28.45	. ,	
2023 Gates (10)	Replacement of Failed Gate Valves		DW20-157	Awaiting .	* *	\$ 40,000	Yes	Various	Yes	\$ 28.45		
2023 Radios (500)	Replacement of failed Radios (250), New Radios for new customers (250).		DW20-157	Awaiting .	* *	\$ 50,000	Yes	Various	Yes	\$ 28.45		
2023 Radios (4000) 2023 Meters (Growth) 5/8"-2" - Core & CWS (TBD)	Yr 2 of 7 Replacment of all PWW Radios installed in 2007 (4000) by contractor. New meters for new customers, including PFOA (250). Replacement of failed meters(250).		DW20-157 DW20-157	Awaiting .	* *	\$ 520,000 \$ 50,000	Yes Yes	Various Various	Yes Yes	\$ 28.45 \$ 28.45		
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157 DW20-157	Awaiting . Awaiting .	**	\$ 70,000	Yes	Various Merrimack	No	\$ 28.45		
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting .	* *	\$ 70,000	Yes	Merrimack	No	\$ 28.52	-	
Replacement Supervisor Pickup	New Full Sized Pickup to Replace existing high mileage/maintenance pickup.		DW20-157	Awaiting .	* *	\$ 45,000	Yes	Merrimack	No	\$ 28.52	-	
Replacement Utility Van	New Utility Van to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting .	* *	\$ 40,000	Yes	Merrimack	No	\$ 28.52		
Protectus Meter Upgrade	Protectus Meter Upgrade		DW20-157	Awaiting .	* *	\$ 22,000	Yes	Nashua	No	\$ 27.13		
Miscellaneous Construction Equipment	Miscellaneous Construction Equipment			0.1 DSRR	11	\$ 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 Cl 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 Cl with 1170 LF 16 inch DIPCL.		DW20-157	Awaiting .	Approval	\$ 52,000	Yes	Nashua	Yes	\$ 27.13	\$ 1,411	
Alld Street	Replace 1860 LF of 6 & 8 inch CI with 12 inch DIPCL.		DW20-157	Awaiting .	* *	\$ 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 .		\$ 73,000	Yes	Nashua	Yes	\$ 27.13	-	
Benson Avenue	Replace 550 LF of 4 inch Cl with 8 inch DIPCL.		DW20-157	Awaiting .	* *	\$ 28,000	Yes	Nashua	Yes	\$ 27.13	-	
Spaulding Street	Replace 950 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting .	* *	\$ 48,000	Yes	Nashua	Yes	\$ 27.13		
Alstead Avenue	Replace 240 LF of 4 inch Cl with 4 inch DIPCL.		DW20-157	Awaiting .	* *	\$ 11,000	Yes	Nashua	Yes	\$ 27.13		
Spaulding Avenue	Replace 430 LF of 6, 2, & 1.25 inch Cl with 4 inch DIPCL.		DW20-157	Awaiting .	* *	\$ 14,000	Yes	Nashua	Yes	\$ 27.13	-	
St Lazare Street Ingalls St (St Camille to end)	Replace 415 LF of 2 inch Cl with 4 inch DIPCL.		DW20-157 DW20-157	Awaiting . Awaiting .	* *	\$ 14,000 \$ 6,000	Yes Yes	Nashua Nashua	Yes	\$ 27.13 \$ 27.13	-	
Nye Avenues	Replace 200 LF of 1.5 inch CI with 4 inch DIPCL. Replace 400 LF of 2 & 1.5 inch CI with 4 inch DIPCL.		DW20-157	Awaiting .	* *	\$ 13,000	Yes	Nashua	Yes Yes	\$ 27.13		
Copp Street	Replace 350 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting	1.1	\$ 18,000	Yes	Nashua	Yes	\$ 27.13	-	
Gray Avenue	Replace 360 LF of 6 inch CI with 6 inch DIPCL.		DW20-157	Awaiting .	* *	\$ 15,000	Yes	Nashua	Yes	\$ 27.13	-	
2022 Nashua City Sewer Projects	To be detremined (Paving)		DW20-157	Awaiting .	* *	\$ 200,000	Yes	Nashua	Yes	\$ 27.13	-	
Fairview Street	Replace 800 LF 6 inch Cl with 800 LF 8 inch DIPCL.		DW20-157	Awaiting .	* *	\$ 47,000	Yes	Nashua	Yes	\$ 27.13		
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	. ,	
2023 Nashua City Sewer Projects	To be determined		DW20-157	Awaiting .	Approval	\$ 900,000	Yes	Nashua	Yes	\$ 27.13	-	
Merrimack River Watershed Council	Grant Match with other Stakeholders \$40k for five years.			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 .	* *	\$ 32,000	Yes	Merrimack	No	\$ 28.52		
Investment in Developer Services	1x Annual Rvenue		DW20-157	Awaiting .	* *	\$ 90,000	Yes	Various	Yes	\$ 28.45		
Replace Engineering SUV	Replace vehicle with high mileage.		DW20-157 DW20-157	Awaiting .	* *	\$ 30,000 \$ 40,000	Yes	Various Various	Yes Yes	\$ 28.45 \$ 28.45	-	
Replace Engineering Pickup Booster Pump replacement/rebuild	Replace vehicle with high mileage. Booster Pump replacement/rebuild		DW20-157 DW20-157	Awaiting . Awaiting .	* *	\$ 40,000	Yes	Various Various	Yes	\$ 28.45		
Well Pump replacements	Well Pump replacements		DW20-157	Awaiting .	* *	\$ 15,000	Yes	Various	Yes	\$ 28.45		
Chemical Feed pump replacements	Chemical Feed pump replacements		DW20-157	Awaiting .		\$ 15,000	Yes	Various	Yes	\$ 28.45		
Carbon media changeout-filters 1 & 2 (Spring of 2023)	Carbon media changeout-filters 1 & 2		DW20-157	Awaiting .	* *	\$ 500,000	Yes	Nashua	Yes	\$ 27.13	-	
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		
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 .		\$ 10,000	Yes	Nasnua	Yes	\$ 27.13	\$ 271	
Purchase new lab equipment	Purchase new lab equipment.		DW20-157	Awaiting .	* *	\$ 20,000	Yes	Nashua	No	\$ 27.13		
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects		DW20-157	Awaiting .	* *	\$ 10,000	Yes	Various	Yes	\$ 28.45	-	
Replace Vehicle Carbon media chageout - 3 & 4 (Fall of 2023)	Replace High Mileage Vehicle. Carbon media chageout - 3 & 4		DW20-157 DW20-157	Awaiting . Awaiting .	* *	\$ 65,000 \$ 500,000	Yes	Nashua Nasnua	No	\$ 27.13 \$ 27.13	-	
Replace Vehicle	Replace High Mileage Vehicle.		DW20-157 DW20-157	Awaiting		\$ 300,000	Yes Yes	Nashua	Yes No	\$ 27.13		
Misc Hardware	Misc Hardware		DW20-137	0.1 DSRR	приочан	\$ 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	er Works Projected 2	2020 Total Capital Ex	penditure Budget -	\$ 10,054,000		Projected Prope	rty Tax Expense	e associated with	\$ 257,112	

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

Total Projected NHDES SRF/DWGTF funded PWW QCPAC Capex for 2021 - \$

Total for 0.1 DSRR Projects - \$ 222,000

Estimated Bond Terms (Bonds to be sold in April 2022) -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. Inc DW21-023 Staff DR 1-4

Staff DR 1-4 7/20/2021	Manchester Water Works																							
=	2020 Average Dail Co MSDC additional charge (Paid	0 day average daily consumption v Flow (Gal.) - Max, allowed - Average Daily Flow (Gal.) - Average Daily Flow (Gal.) - Increase in 2020 (Gal.) - Increase in 2020 (Gal.) - Increase in MSDC rate per gation rome Collected MSDC fees per saced as of 12/20/2020 (Gal.) - MSDC utilitized in 2020 (Gal.) - be purchased for 2020 (Gal.) - SDC additional 2020 charge -	Total PEU 2.100.000 1.356.078 1.436.355 80.277 3.79 \$ \$ 304.250 \$	Portion PWW Portion 787.073 569.005 863,900 572.455 3.79 \$ 3.79 291,174 \$ 13.076 863,900 572.455 897.411 616.346 33,511 43,891 47,008 \$ 166,346	- - I	47,341 179421.9371																		
2020	Consumption (Gal.): Month: January February March March Aoril Mav June August Sestember October November December	# days in Consumption billing cycle current period 1 29 16:122.79 15:17.155.200 30 18.383.46 31 28.247.363 30 45.08.381 44.483.482 33 37.380.07.381 22.380.0	PWW PCP Consumption CP Con 3,764,853 16 2,802,857 14 3,093,220 14 3,927,860 11 8,825,221 15 18,129,509 27 19,554,270 22 18,699,174 27 18,699,174 27			Two (2) month PEU CP Consumption 16.755.393 13.319.692 14.095.960 14.455.766 19.650,141 27.500.826 26.815.343 28.824.167 21.974.798 19.107.970 13.713.064	610.709 554,626	PEU TPEU TPEU TPEU TPEU TPEU TPEU TPEU T	77,402															
		Cust #95593 Cust #95651 Loc #98504 Loc #98604 Joanne Dr. Smrithwoods Harvev Rd. Smrithwoods Harvev Rd. 2,1907 1519 2,1907 1524 3,1976 1,264 6,722 669 6,0205 685 3,760 788 2,005 687 2,003 687 2,003 6,710 39,474	Pennichuck East Utilitie Cout #98616 Cust Loc #88606 Reckin Mammoth Rd. Coler 17,822 14,179 14,177 14,179 20,278 28,191 28,179 20,179 14,760 225,600	I, Inc. (PEU) 1897/14	PEU CCF Total		nnichuck Water Works, Cust #107225 Los #20376 P Conald Street 3,945 3,088 3,407 4,489 9,404 19,167 19,209 19,274 15,894 6,916 3,150	mc. (PWW) WW PEU Gallons Cotal Total 5,033 20,502,046 4,090 17,155,290 11,798 28,475,383 26,142 46,598,513 26,142 46,598,513 26,142 46,598,513 26,142 46,598,513 26,142 46,598,513 26,142 46,598,513 26,142 46,598,513	Month: January February March Aoril May June July August October November December	Loc <u>Har</u>		redordern Tank Coast #96915 Loc #896916 Loc #896916 Ammoth Rd 17.832 14.437 14.476 20.278 28.133 28.113 29.171 20.278 14.760	Cust 995741 Loc 664798 Rockingham @ Cotervitie Rd 888 686 682 681 1,1744 1,1729 1,182 1,182 1,195 1,19	Cust 89550 Los 896504 Joanes Dr. Smythwoods 769 619 624 1,264 688 998 667 768 667	Weilisotton Tank Cust #143619 Los #207920 Flora Ave. Meter Pit 197	Low Service Tanks Coust #95683 Los #89736 Patter and County Md. 1,088 688 688 688 688 689 782 2,394 6,070 6,321 4,726 2,572 1,422 1,422	Cust #197725 Loc #200376 Donald Street 3.545 3.545 3.047 4.469 9.404 19.167 19.207 19.207 19.778 6.916 1.7160	Total 21,358 17,027 17,947 18,307 25,449 35,299 34,955 37,307 28,350 24,603 17,592	Melinoton Tank CCF Total 769 618 932 842 624 1,264 698 998 998 998 998 998 998 998 998 998	Low Service Tank CCP Total 5.006 3.006 3.006 4.028 4.1995 24.4392 24.4392 26.775 20.804 4.7672 4.7672				
Cust #95993 D. Lee #95954 D. L	ion End Date. Days. Stat. Date. Days. 60 Ce 34-Jan 24 22 64-Jan 30 30 65-Jan 30 30	540 1,060 990	24 Davs D Feb A 24 5	28 31 avs Davs lar Apr 25 6 24 6 31 30	32 Davs Mav	32 June 26 4	30 E S S S S S S S S S S S S S S S S S S	29 32 Davs Davs Gloust Sect 25 6 29 1 31 30	28 31	33 Davs 1 Nov 27	Davs Dec.	Usace Jan 620 00 149 03	Usage Feb. 510.97 108.33	Usage	98.18	8 441. 182	77.14	462.86 231.88	Usace August - - - 828.13 169.71 - - - 997.84	Usace Sect	Usace Oct	Usace Nov - - - - - - - - - - - - - - - - - - -	Usace Dec.	620 660 650 930 640 1.370 640 1.060 990 720 630
Cust #95663 D. Loc #69604 24 Harvev Rd. 22 22 25 22 22 22 22 22 22 22 22 22 22	deg End Dave stbe Date Dave b-Dec 24 Jan 24 4-Jan 24 Feb 31 31 4-Her 34-Abr 30 30 5-Mar 24-Apr 30 30 4-Abr 34-Abr 32 32 5-Mar 24-Abr 32 28 4-Jul 25-Abr 32 32 3-Aug 25-Sep 35 35 3-Cot 39 30 30 3-Not 25-Dec 29 -	3.710 7,057 4.383 5.690 4.431	Days D	ays Days lar Aor 25 6 24 6 31 30	Days May 27 4	Days June 26 4	Days Days As	25 6 29 1 31 30 30	Days Oct	Days Nov 27	Days Dec	Usage 3an 2,145.00 521.84 521.84 521.84 521.84 521.84	400.67	Usage Mar 2.003.33 505.60	674.52	3.035 940	June	1.244.69	Usage August - - - - - - - - - - - - - - - - - - -	Usage Sept	Usage Oct - - - - - - - - - - - - - - - - - - -	Usage Nov	Usage Dec	2,145 2,311 2,404 2,528 3,710 7,057 4,383 5,690 4,431 2,556 2,259 39,474
Cust #95615 D. Loc #95656 Amammoth Rd. 2 with fire protection 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	End End Days	26.900 24.500	Days D Feb 8 24 6	ays Days lar Apr 28 6 24 6	Days May 27 4	Days June 26 4	Days C As	25 6 29 1 1 31 30	28 3	Days I Nov	Days Dec	Usage Jan 14.400.00 3.432.26 17.832.26	Usage Feb 11,767,74 2.363,33	Usage Mar	Usage Adv	3.586	37 23.313.33 3,500.00	7.175.00	Usage Audust 25.625.00 4.645.71 30.270.71	Usage Sept	Usage Oct - - - 19.117.24 1.640.00 - 	Usage Nov	Usage Dec	14.400 15,200 14.300 13,800 20,400 26,900 27,100 19,800 16,400
Cust #85741 B Loc #89798 24 Rockincham db 2 Coteville Rd 22 with fire protection 22 27 22 28 26 25 27 27	leg End Date Date Dat	720 809 1.175 1,753 1.572 1.969	Days D Feb 8 5 5 5	ays Days lar Anr 26 6 24 6 6	Days May 27 4	Days June 26 4	Days E As 24 7 31	25 6 29 1 31 30	Days Oct	Days I Nov	Days Dec	Usage	Usage Feb	Usage Mar	Usage Air Air 647,22 213,6-	Usag May)) 961 233	June	Usage July 1.347.43 430.72	Usage Audust - - - - - - - - - - - - - - - - - - -	Usage Sept	Usage Oct	Usage Nov	Usage Dec	694 731 720 809 1.175 1.753 1.572 1.969 1.708
Cust #143519 D. Los #207920 21 21 22 22 25 22 22 22 22 22 22 22 22 22 22	Boo End Date. Dave. \$-50c 24-Jan 24 64-Jan 24-Feb 31 31 47-Feb 31 30 30 30 47-Feb 31 31 47-Feb 31 31 31 47-Feb 31 31 31 47-Feb 31 30 30 30 30 30 30 30 30 30 30 30 30 30	CCF Jsin 24 24 173 7 162 27 205 170 248 214 171 193 248 2.451 193 2.551 31	Davs D Feb 8 24 5	25 6 24 6	Davs May 27 4	Davs June 26 4	Davs E As	25 6 29 1 31 30	28 3 31	Davs (Davs Dec	Usace	Usace Feb 133.94 27.00	Usace Mar - 135.00 34.80	37.84	169 27	Usace June	Usace	Usace August - - - 193.75 36.69 - - - -	Usace Sect	Usage Oct - - - - - - - - - - - - - - - - - - -	Usace Nov	Usace Dec	234 173 162 174 207 205 170 248 214 171 193
Coust 995683 D. Loc 689738 D. County Rd. 2 value for protection 2 va	teo End Date Days 14 Date Days 15 Date Days 15 Date Days 15 Date Days 16 Days 16 Date Days 16 Date Days 16 Day	CCF Jan 24 700 7 7 000 7 7 000 7 7 000 6 7 000 6 7 000 6 7 000 6 7 000 6 7 000 6 7 000 6 7 000 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Davs D R 24 8	25 6 24 6	Davs May 27 4	Davs June 30	Davs L As 6 18 7 31	Davs Sept	Davs Oct	Davs 1 Nov 27 27 27	Davs Dec	Usace Jan 990.00 158.08	Usace Feb 541.94 116.67	Usace Mar	Usace Apr 400.00.00.381.80	676	18 - 10 5.070.00	4.600.00 1,319.06	Usage August - - - - - - - - - - - - - - - - - - -	Usace Sept	Usace Oct - - - - - - - - - - - - - - - - - - -	Usace Nov	Usace Dec	930 700 700 500 2,100 6,750 4,600 6,030 5,600 2,500 1,580
Cust #107225 D. Loc #200276 Dends De	leo End Days State Date Date Days State Date Date Date Date Days State Date Date Date Date Date Date Date	CCF Jan 2 4 2 3 200 2 7 3 200 2 7 3 200 2 7 3 200 1 5 500 1 5	Davs D Feb h 24 5	avs Davs lar Apr 25 6 24 6	Davs May 27 4	Davs June 26 4	Davis C July As 27 7 7 34	25 0 29 1 31 30	Davs Oct	Davs 6 Nov 27	Davs Dec	Usace Jan 3 200 00 745, 16	Usace Feb 2,554,84 533,33	Usace Mar 2.668.67 740.00	1,509.05	2.613	31 16.986.67 2.180.65	4.489.66 - - -	Usace August - - - 16.034.48 3.240.00	Usace Sept	Usace Oct	Usace Nov	Usace Dec	3.200 3.300 3.200 3.700 8.300 19.600 16.900 20.524 18.900 6.800 3.500
		217 31.00	203 29.00	217 210 31.00 30.00	217 31.00	210 30.00	220 31.43	217 210 31.00 30.00	217 31.00	189 27.00	0.00													

Persinkal Waler Works. Inc. 09781-023 (2012)	Manchester Water W 2019 Averano Daily Flow (Averan	Gal.) - Max. allowed Gal.) - Gal.) !.)	Total 2.100.000 1.356.078 5 3.37 \$	718.602 718.602 5 3.37 5 Consumption direction of the period of the	\$ 3.37 \$	Purchased 1.356.	od Water Works In	c. (PWW) Cust #197226 Loc #200276	ı						ridonderry Tank Cust #95653 Loc #65604	Cust #96615	Cust#95741	Welkryton Tank k	.ow Service Tanks Cust #14369	Cust#96683		Londonderry	Wellington	Law Service				
	Month: 2019 January February March All March June July August Seatember October October Ocember December	Loc #59534 Joanne Dr. Smythwoods 28 657 28 651 31 655 32 660 32 867 30 848 29 871 30 848 33 522 30 556 30 556 30 565 30 5	3,537 2,301 2,551 2,551 3,255 4,290 2,901 1,599 3,363 3,009 2,429 2,188 33,947	Mammoth Rd. 16,026 13,181 14,576 14,537 15,904 15,565 23,548 23,411 10,0283 18,147 14,839 12,581 202,700	Cust #95741 Loc #64798 Rockingham @ Coteville Rd 1,030 405 465 460 635 1.063 938 780 585 590 8,070	Cust #143619 Loc #207920 Pine Ave. Motor Pit 152 144 204 188 195 146 176 193 176 214 191 148 2.121	GW Water Works, 10 Cust #9568.3 Loc #89736 Patten and County Rd. 1,110 882 963 1,065 1,406 1,141 1,410 1,389 1,212 1,089 984 839 13,490 13,490	Donald Street 3,958 3,052 3,240 3,595 6,199 10,108 15,539 16,910 13,767 9,878 4,935 3,019 94,200	PEU CCF Total 21,610 17.052 18.407 18.308 20.420 21.369 28.108 27.138 25.496 22.825 18.676 18.676	PWW CCF Total 5,068 3,935 4,203 4,659 7,605 11,249 16,949 18,299 14,978 10,968 5,919 3,885 107,690	Gallons Total 19,955,072 15,697,874 16,912,032 17,179,673 20,962,960 24,398,148 33,702,665 33,986,570 30,274,427 25,277,860 18,397,060 14,395,324 271,649,664		Month: January February March Aoril May June July August Sostember October November December	iroof	Loc #65604 Harvey Rd. 3,537 2,301 2,531 2,545 3,255 4,290 2,901 1,599 3,363 3,009 2,429 2,188 33,947	Cust #95615 Loc #69656 Mammoth Rd. 16,026 13.181 14.576 14.537 15.904 15.665 23.548 23.411 20.283 18.147 14.839 12.5881 202.700	Cust #95741 Loc #64798 Rockingham & Coteville Rd 1,030 758 445 388 406 635 1,063 938 780 585 590 8,070	Cust #95533 Loc #59634 Joanne Dr. Smythw cods 667 665 660 807 848 871 735 676 632 562 8,849	Cust #435f9 Loc #207920 Pine Ave. Meter Pit 152 144 204 180 195 146 176 195 176 191 146 191 148 2.121	Patten and	Cost #107226 Loc #200376 Conald Street 3,958 3,052 3,240 3,595 6,199 10,108 15,539 16,910 13,767 9,878 4,935 3,019 94,200	Tank CCF Total 20,593 16,241 17,552 17,463 19,565 20,415 27,084 26,073 24,585 21,936 17,855 21,936 17,855 21,936 17,855 24,717	Wellington Tank CCF Total 865 667 651 665 660 807 848 871 735 676 632 552 8,649	Low Service Tank CCF Total 5,220 4,079 4,807 7,801 11,396 17,125 18,492 15,154 11,182 6,111 4,005 109,811				
Cust #9593 De Cu	Bed Date Date Date Date Date Date Date Date	29 CCF 720 31 750 29 600 30 680 29 570 32 860 31 840 30 750 30 660 31 650 31 650 31 650 31 650	30 Davs Jan 29 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28 Davs Feb 25 3	28 Davs Mar - 26 5	31 Davs Apr - 25 5	24 7 0	32 Davs June	26 5	29 Davs August	32 Davs Sept	0 25 6	33 Davs Nov	30 Davs Dec	Usage Jan 720.00 145.16	Usace Feb	Usane Mar	Usage Apr	Usace May	Usage June - - - 671.88 135.48 - -	Usage July	Usage August - - - - - 746.45 125.00	Usage Sept	Usage Oct - - - - - - - - - - - - - - - - - - -	Usace Nov	Usace Dec	720 750 600 680 570 860 840 890 750 660 650 670	
Cost 89565 Bo Loc 89664 27. Harvey Rd. 2. With fire protection 28- 24- 24- 24- 26- 26- 26- 26- 26- 26- 26- 26- 26- 26	g End Days Date Days Days Days Days Days Days Days Days	29 3,043 31 2,551 29 2,357 30 2,551 29 2,357 32 1,488 63 6,551 31 1,225 30 3,429 30 3,439 31 2,490 31 2,490 4 33,947	Days Jan 29 6 0 0 0 0 0 0 0 0 35	Days Feb	Days Mar - 26 5 5 0 0 0	Days Apr - 25 5	Days May	Days June 25 30 0 0 0 0 0 55	26 5	Days August	Days Sept	Days Oct -	0 25 5 0 30 30	Days Dec	Usage Jan 3,043.20 493.70 - - - - - - - - - - - - - -	Usage Feb 2,057.10 243.85	Usage Mar - 2.113.35 417.33 - - - - - - - - - - - - - - - - - -	Usage Apr - - 2.086.67 458.14 - - - - - - 2.544.80	Usage May	Usage June	Usage July - - - - 2.703.59 197.58	Usage August - - - - 1.027.42 571.50	Usage Sept - - - - - - - - - - - - - - - - - - -	Usage Oct - - - - - - - - - - - - - - - - - - -	Usage Nov	Usage Dec	3,043 2,551 2,557 2,507 2,504 2,657 1,498 6,551 1,225 3,429 3,429 2,609 2,609	
Cost #95615 But Loc #8666 Day	End Date Days Dec 25-Jan 29 Date 25-Jan 29 Jan 25-Feb 31 Feb 25-Mar 29 Apr 24-May 24-May 24-May 25-Jan 32 Jan 25-Feb 31 Apr 24-May 25-Jan 32 Jan 25-Feb 31 Apr 25-Jan 32 Jan 25-Feb 31 Dec 26-Jan 31 Dec 26-Jan 31	29 13,200 29 13,200 29 13,600 30 14,300 29 15,200 32 15,200 31 23,800 30 22,500 30 18,200 31 15,000 31 15,000 4 202,700		Days Feb	Days Mar - 26 5	Days	Days May .	Days June	Days July	Days August 26 5	Days Sopt	Days Oct	0 25 5 0	Days Dec	Usage Jan ######## 2,825.81 - - - - - - -	Usage Feb 11,774.19 1,406.90 	Usage Mar 12,193.10 2,383.33 - - - - - 14,576.44	Usage Apr - - 11,916.67 2,620.69 - - - - - - - - 14,537.36	Usage May - - - 12,579.31 3,325.00 - - - - - - - - - - - - - - - - - -	Usage June - - - 11,875.00 3,790.32 - - - - - - - - - - - - - - - - - - -	Usage July - - - - - - - - - - - - - - - - - - -	:	Usage Sept	Usage Oct	Usage Nov	Usage Dec	13,200 14,600 13,600 14,300 15,200 15,200 23,800 20,700 18,200 15,400 15,000 	
Cust #95741 Ba Cust #95741 Ba Cust #95741 Ba Cust #95781 Ba Cust #95781 Ba Cust Find Find Find Find Find Find Find Find	End te Date Dave Dec 25-Jan 29 1 25-Feb 31 25-	29 859 31 859 32 425 32 475 331 550 331 1,075 30 800 331 704 4 8,070		Davs Feb	Davs	Davs	24 7 0	Davs June	26 5	Davs	Davs Sept	Davs Oct	0 25 5	Davs	Usage Jan 859.00 171.48	Usage Feb	Usage Mar	Usage Apr	Usage May	Uzane 	Usace July	Usage August - - - - 901.61 161.00	Usage Sept	Usace Oct	Usace Nov	Usace Dec	859 886 425 381 365 475 550 1,075 966 800 584 704 	
Coust #142619 By Loc #207920 Cap	End Date D	29 1221		Davs Feb	Davs Mar - 26 5	Davs Apr - 25 5 6	Davs May	Davs June	26 5	Davs	Davs Sept 25 5	Davs Oct	0 25 5 0	Davs	Usage Jan 122.00 29.81	Usage Feb 124.19 20.17 - - - - - - - - - - - - - -	Usage Mar	Usage Apr	Usage May	Uzace June - - - - - - - - - - - - - - - - - - -	Usade July	Usage August - - - - - - - - - - - - - - - - - - -	Usace Sect	Usage Oct	Usace Nov	Usace Dec	122 154 195 176 196 152 172 197 169 210 202 176 2121	
Cust #95683 Bu Cust #95683 Du Cust #95683 Du Cust #95683 Du Cust #9568 D	End Days	29 920 31 920 29 800 29 800 30 990 29 1.390 32 1.170 31 1.410 30 1.200 31 1.000 4 13.490		Days Feb	Days Mar - 26 5	Days Apr - 25 5	Days May	Days June	Days July -	Days August	Days Sept	Days Oct .	0 25 5 0	Days Dec	Usage Jan 920.00 189.68	Usage Feb. 790.32 92.07	Usage Mar	Usage Apr - - 825.00 239.66 - - - - - - - - - - - - - - - - - -	Usage May - - - 1.150.34 205.94 - - - - - - - -	Usage June	Usage July	Usage August - - - - 1.182.58 206.67	Usage Sept	Usage Oct	Usage Nov	Usage Dec	920 980 890 990 1.390 1.410 1.410 1.240 1.070 1.020 1.000	
Contention 20 to Lear #109225 to Lear #109226	g End baye. Date Date Daye. Sec 2 2-1-an 23 Jan 25-Feb 31 Feb 2-6-May 29 Mar 28-Apr 30 Mar 28-Apr 32 Jun 28-Jul 31 Jul 26-Au 31 Aug 26-Seo 30 Aug 26-Jul 31 Dac 26-Jul 31 Dac 26-Jul 31 Dac 31 Dac 31 Dac 31	29 3.300 31 3.400 29 3.000 30 3.300 30 3.300 31 15.200 31 15.200 31 15.200 31 15.400 31 5.400 31 5.400 31 94.200	Days Jan 29 6 0 0 0 0 0 0 0 355 345 35.00	Days Feb	Days Mar - 26 5 0 0 0 0 0 217 31.00	25 5 0 0 210 30.00	24 7 0 31 224 32.00	Days June	26 5 31 217 31.00	Days August 26 5	Days Sept 25 5 5	25 6 31 217 31.00	0 25 5 30	0 26 4 30 210 30.00	Usage Jan 3,300.00 658.06 - - - - - - - - - - - - - - - - - - -	Usage Feb	Usage Mar - 2,689,66 550,00 - - - - - - - - - 3,249	Usage Apr - - 2,750.00 844.83 - - - - - - - 3,595	Usage May - - - - - - - - - - - - - - - - - - -	Usage June - - - - - - - - - - - - - - - - - - -	Usage July - - - - - - - - - - - - - - - - - - -	- :	Usage Sept	Usage Oct - - - - - - - - - - - - - - - - - - -	Usage Nov 	Usage Dec	3,300 3,400 3,000 3,300 4,900 9,800 15,200 17,300 14,400 10,600 5,400 3,600	

Pennichuck Water Works. Inc DW21-023

Persistant Water Works. Inc. Saul Idn 1.4 77700001	Man chaster Water Works Schedule of Pennichtuck 12018 Average Daily Flow (Gal.) With Flow Flow (Gal.) Worth: January March Adrill June Average Av	- (2016)	Total 2.100.000 1.356,77 5 3.37 Consumption current period 1.156,77 5 1.37 Consumption current period 2.156,77	Consumption	PWW Portion 502,704 \$ 3.7 \$	Purchased 1,366,0	178 in 2016																				
		Cuck East UBity, In Cust #95593 Loc #969634 Joanne Dr. Smythwoods 508 555 571 738 920 935 811 790 699		Cust #95615 Loc #69655 Mammoth Rd. 13.917 12.767 13.526 14.141 18.303 25.562 23.522 20.023 19.855 14.821 13.285 12.060 201,763	Cust #95741 Loc #64798 Rockincham 69 Coteville Rd 952 840 965 1.365 1.321 1.663 1.237 1.117 761 12,064	Pernichule Cust #143619 Loc #207920 Pine Ave. Mictor Pit 190 153 166 158 176 206 193 171 169 160 170 170 170 170 170 170 170 170 170 17	Water Works, in Cust #98683 Loc #89736 Patten and County Rd. 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 Loc #200376 Donald Street 3.518 4.346 4.346 1.898 15.660 11.224 10.227 3.513 3.513 73,513	PEU CCF Total 18.643 16.659 17.810 18.643 24.213 29.30 30.950 25.804 25.342 18.754 16.970 15.506 262,223	PWW CCF Total 5.495 3.414 3.803 5.693 11.176 6.595 11.503	Gallons Total 18.055.454 15.015.058 16.166.134 18.203.118 26.470.628 29.610.463 37.388.823 27.343.544 27.558.366 18.410,348 16.100.606 4.675.687 266.067,728		Month: January February March Aoril May June July August September October November December	roof	Adonderry Tank Cust #95563 Loc #69604 Harvev Rd. 3.051 2.449 2.723 2.807 3.631 4.930 4.646 3.562 3.411 2.440 2.310 1,888 37,849	Cust #95615 Loc #69656 Mammoth Rd. 13.917 12.757 13.526 14.141 18.303 25.552 23.522 20.023 19.856 14,821 13.286 12,060 201,763	Cust#95741 Loc #64798 Rockinnham 69 Coteville Rd 927 792 840 965 1.365 1.321 1.653 1.237 1.117 626 461 761	Wellington Tank L Cust #95593 Loc #59834 Joanne Dr. Smythwoods 559 555 571 738 920 935 811 790 699 743 648	Ow Service Tanks Cust #143619 Loc #207920 Pine Ave. Meter Pit 190 153 166 158 176 206 193 171 169 168 170 149 2,069	Cust #95683 Loc #69736 Patten and County Rd. 1.977 250 487 2.771 4.759 4.004 300 1.231 1.048 922 873 19,969	Cust #107225 Loc #200376 Donald Street 3.518 3.164 3.316 4.346 8.404 1.988 15.660 11.254 10.270 4.811 3.633 3.240 73.513	Londonderry Tank CCF Total 17.894 15.998 17.914 23.299 31.803 29.821 24.822 24.383 17.887 16.056 14,709 251,676	Wellington Tank CCF Total 559 608 655 671 738 920 935 811 790 699 743 648 8,478	Low Service Tank CCF Total 5.685 3.968 3.968 3.968 3.968 19.857 11.725 11.670 6.026 4.726 4.726 95.651			
Cust #95533 Loc #59534 Joanne Dr. Smith woods	Bea End Date Date 2 The Section 2 2 2 2 2 2 2 3 4 5 2 2 2 2 2 2 3 4 5 2 2 2 2 2 2 3 4 5 2 2 2 2 3 4 5 2 2 2 2 2 3 4 5 2 2 2 2 3 4 5 2 2 2 2 3 4 5 2 2 2 2 3 4 5 2 2 2 2 3 4 5 2 2 2 2 3 4 5 2 2 2 3 2 2 3 2 2 3 2 2 3 2 3 2 3 2 3	365 CCF 540 510 500 560 710 990 930 750 870 660 820 2720 8,550	30 Davs Jan 26 5 0 0 0 0 0 - 31	28 Davs Feb 23 5	28 Davs Mar	23 7 0	25 6 0	32 Davs June	30 Davs July 26 5	29 Davs August - 24 7	32 Davs Sept	0 0 25 6	33 Davs Nov	30 Davs Dec	Usage Jain 468.00 91.07 - - - - - - - - - - - - -	Usace Feb	Usage Mar	Usace Apr - - - - - - - - - - - - - - - - - - -	Usace May 554.69 183.75	Usage June	Usage July	Usage August - - - - - - - - - - - - - - - - - - -	Usage Sept	Usage Oct	Usage Nov	Usace Dec	468 510 590 560 710 980 930 750 870 660 820 720
Cust #95533 Loc #89604 Harvev Rd.	Beu End Date Date Date Date Date State Date Date Bell Date Date Date Date	CCF 3.015 2.451 2.439 2.788 3.377 5.295 4.708 3.284 3.881 2.368 2.567 2.098	Davs Jan 26 5 - 0 0 0 0 31	Davs Feb	Davs Mar - 23 8	Davs Apr - 23 7 0	Davs May - 25 6	Davs June	Davs July	Davs August - 24 7	25 5 5	Davs Oct	0 27 3 0	0 27 4 31	Usage Jan 2.613.00 437.68	Usace Feb	Uzage Mar - 2.003.46 719.88 - - - - - - - - - - -	Usage Apr - 2.068.52 738.72 - - - - - - - - - - - - - - - - - - -	Usace May	Usade June - - - - 4.302.19 627.73 - - - - - - - - - - - - - - - - - - -	Usage July	Usace August - - - - 2.717.79 844.59 - - - 3,562.39	Usage Sept	Usage Oct - - - - - - - - - - - - - - - - - - -	Usace Nov	Usage Dec	2.613 2.451 2.459 2.788 3.377 5.295 4.708 3.284 3.861 2.567 2.098 37,849
Cust #95915 Los #89696 Mammoth Rd.	Bog End Days Date Date Days 27-Dec 22-Jan 30 30 26-Jan 23-Feb 28 28 28-Jan 23-Acc 23-Jan 23-Jan 23-Jan 23-Mar 25-May 23-Jan 23-Jan 23-Jan 23-Jan 22-Jan 24-Jan 22 22-Jan 22-Jan 22 22-Jan 26-Jan 24-Jan 28-Jan 30 30 30 30 27-Nov 27-Nov 25-Jan 30 4 4	13,400 12,900 12,100 13,900 17,500 24,700 23,500 18,300 22,300 14,600 13,400 13,400	Days Jan 26 5 5 0 0 0	Days Feb . 23 . 5	Days Mar - 23 8	Days	Days May	Days June - - - - 26 7	Days July	Days August - 24 7	Days Sept	Days Oct -	0 27 3 0 30	Days Dec	Usage Jan ###################################	Usage Feb 10,596.43 2,160.71	Usage Mar - - 9,939 29 3.587.10 - - - - - - - - - - - - - - - - - - -	Usage Apr	Usage May 13.671.88 4.631.25	Usage June - - - 20.068.75 5.483.33	Usage July 20.366.67 3.155.17	Usage August - - - - - - - - - - - - - - - - - - -	Usage Sept	Usage Oct	Usage Nov	Usage	11,613 12,900 12,100 13,900 17,500 24,700 25,850 18,300 22,300 14,600 14,600 13,400
Cust #8574f Loc #87786 Rockingham @ Coteville Rd	Bog End Days Date Days 1 27-Dec 22-Lan 30 30 26-Lan 23-Feb 28 28 28-Lan 23-Feb 28 28 23-Apr 23-Lap 23-Lap 23-Lap 23-Mar 24-Lap 25-Lap 21 23-Mar 24-Lap 29 22 24-Lap 24-Lap 29 22 25-Lap 24-Lap 29 22 24-Lap 28-Lap 29 22 24-Lap 28-Lap 30 33 27-Lap 27-Dec 30 33 27-New 27-Dec 30 4	904 802 744 885 2,289 705 1,678 1,153 1,291 460 845 1,2408	Days Jan 26 5 0 0 0 31	Days Feb . 23 6 6	Days Mar - 23 8 0 0 0	Days	Days May	Days June 14 12 0 0 0 0 26	Days July	Days August - 24 7	Days Sept	Days Oct -		Days Dec	Usage Jan 783.47 143.21	Usage Feb	Usage Mar - - 611.14 228.65 - - - - - - - - - - - - - - - - - - -	Usage Apr	Usage May - - - 1,364.60	Usage June	Usage July 	Usage August - - - - - - - - - - - - - - - - - - -	Usage Sept	Usage Oct	Usage Nov	Usage	783 802 744 886 2,289 705 1,454 1,153 1,291 651 460 845
Cust #145619 Loc #507820 Pine Ave. Mater Pit	Boa End Date Date Date Date Date Date 27-Dec 22-Lan 30 30 30 26-Jana 23-Feb 28 28 28 23-Jana 23-Jana 23-Jana 23-Jana 23 22 23-Jana 24-Jana 28 29 22 24-Jana 28 29 26-Jan 26-Jan 30 33 32 24-Jana 28-Jana 30 33 33 32 27-Jana 27-Jana 27-Jana 27-Jana 27-Jana 30 4 </td <td>CCF 187 154 151 161 177 199 191 182 160 188 166</td> <td>Davs</td> <td>Davs Feb</td> <td>Davs</td> <td>Davs</td> <td>Davs May</td> <td>Davs June</td> <td>Davs</td> <td>Davs August - 24 7</td> <td>Davs Sept</td> <td>Davs Oct -</td> <td>0 27 3 0 30</td> <td>Davs Dec</td> <td>Usage Jan 162.07 27.50</td> <td>Usace Feb</td> <td>Usage Mar</td> <td>Usage Apr</td> <td>Usage May</td> <td>Usage June</td> <td>Usage July</td> <td>Usace August </td> <td>Usage Sept</td> <td>Usace Oct</td> <td>Usace Nov - - - - - - - - - - - - - - - - - - -</td> <td>Usace</td> <td>162 154 151 161 177 199 210 159 182 160 188 166</td>	CCF 187 154 151 161 177 199 191 182 160 188 166	Davs	Davs Feb	Davs	Davs	Davs May	Davs June	Davs	Davs August - 24 7	Davs Sept	Davs Oct -	0 27 3 0 30	Davs Dec	Usage Jan 162.07 27.50	Usace Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usace August 	Usage Sept	Usace Oct	Usace Nov - - - - - - - - - - - - - - - - - - -	Usace	162 154 151 161 177 199 210 159 182 160 188 166
Cent #95433 Loc #89736 Patton and County Rd.	Bot End Date Date Date Date Date Date 27-Dec 22-Jan 30 28 28-Jan 23-Mar 28-Mar 28-Mar 28-Mar 23-Aur 23-Jac 21 22 22 22-Jacr 25-Jac 31 32 22	2 230 500 1.090 2.460 4.530 4.620 900 1,070 970	Davs Jan 26 5 0 0 0 0 0 0 0 31	Davs Feb	Davs Mar - 23 - 8	Days	Davs May	Davs	Davs	Davs August - 24 7	Davs Saot	Davs Oct -	0 27 3 0 30	Davs Dec	Usace June 1.932.67 44.64	Usace July - 250.00 - - - - - - - - - - - - - - - - - - -	Usage August 205.36 - - - - - - - - - - - - - - - - - - -	Usage Sept	Usage Sept	Usage June - - - - 3.680.63 1.078.00 - - - - - - - - - - - - - - - - - -	Usage July	Usage August - - - - - - 299.69	Usace Sect	Usace Sect	Usace Sept	Usace Sept	1.933 500 - 1.090 2.460 4.530 5.082 - 1.370 964 1.070 970
Cust #107228 Loc #200376 Donald Street	Bog End Days Date Debe Days 2 No. 2 No. 3 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	CCF 3,400 3,200 3,000 3,300 11,500 10,400 12,100 4,900 3,600 87,500	Days Jan 26 5 0 0 31 217 31.00	Days Feb	Days Mar - 23 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Days Apr - 23 7 0 0 30.00	Days May	Days June 7 19 0 0 0 26	Days July	Days August - - 24 7 31 217 31.00	Days Sept	Days Oct	0 27 3 210 30.00	0 27 4 31 217 31.00	Usage	Usage July 2,628.57 535.71	Usage August 2.464.29 851.61 - - - - - - - - - - - - - - - - - - -	Usage Sept	Usage Sept	Usage June - - - - - - - - - - - - -	Usage July 	Usage August	Usage Sept - - - - - 9.453.13 816.67 - - - 10.270	Usage Sept	Usage Sept	Usage Sept	2,947 3,200 3,000 3,300 12,200 10,400 10,400 4,900 4,000 3,600 73,513

Pennichuck Water Works. Inc. DW21-023

DW21-023 Staff DR 1-4 7/20/2021	Manchester Water Works Schedule of Pennichuck 2017	s x 60 dav average da		1																							
	Average Daily Flow (Gal. Average Daily Flow (Gal.	.) - (2016)	2.100.000 1,356,078	718,602	502,704	Purchased 1,356,0	078 in 2016																				
	Increase in 2016 (Gal.) Current MSDC rate per o MSDC additional charge Consumption (Gal.):	# days in	\$ 3.37 \$ -	\$ 3.37 \$ -	\$ 3.37 \$ - Two (2) month Average																						
		billing cycle 31	17,425,209	prior period	Average Daily flow 562,104 514,211 479,251																						
	Month: 2017 January Februarv March Aoril Mav June July August September October November	28 31 30 31 30 31 31 30 31 30 31	12.913.237 15.362.601 15.640.712 20.894.561 27,549,052 30,853,311 28,935,429 26,403,735 21,791,585	17.425.209 12.913.237 15.362.601 15.640.712 20.894.561 27,549.052 30.853.311 28,935,429 26,403.735 21,791,585	562,104 514,211 479,251 508,251 598,939 794,158 957,416 964,335 907,199 790,087 617,315																						
	December		21,489,874	28,935,429 26,403,735 21,791,585 15,864,609	907,199 790,087 617,315 612,369																						
	Month:	Cust #95593 Loc #69634 Joanne Dr. Smythwoods	Cust #95563 Loc #69604 Harvev 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.	C. (PWW) Cust #107225 Loc #200376	PEU CCF Total	PWW CCF Total	Gallons Total		Month:		ndonderry Tank Cust #95563 Loc #69604 Harvey Rd.	Cust #95615 Loc #69656 Mammoth Rd.	Cust #95741 Loc #64798 Rockingham @ Coteville Rd	Wellington Tank L 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			
	January 31 February 28 March 31 April 30 May 31	1 439 8 324 1 420 0 414 1 471	1.664 1.271 1.530 1.533 2.415	15.443 11.606 13.757 13.281 15.545	720 521 614 643 928	158 112 142 157 171	833 691 831 957 1,482	4.040 2.738 3.244 3.924 6.922	18.423 13.835 16.463 16.029 19.529	4.873 3.429 4.076 4.881 8.405	17.425.209 12.913.237 15.362.601 15.640.712 20.894.561		January February March April May		1.664 1.271 1.530 1.533 2.415	15.443 11.606 13.757 13.281 15.545	720 521 614 643 928	439 324 420 414 471	158 112 142 157 171	833 691 831 957 1,482	4.040 2.738 3.244 3.924 6.922	17.827 13.398 15.901 15.458 18.887	439 324 420 414 471	5.030 3.541 4.217 5.038 8.576			
	January 31 February 22 March 33 American 33 June 33 June 33 June 35 August 31 Sociember 33 November 33 November 33	1 439 324 1 420 0 414 1 471 0 555 1 645 1 653 0 604 1 581 0 509 1 493 6,109	1.664 1.271 1.530 1.533 2.415 3.259 2.974 1.754 3.542 3.262 2.587 3.408	15.443 11.606 13.757 13.281 15.545 18.174 19.919 19.098 17.482 15,602 12,615 13.331 185,854	720 521 614 643 928 1.306 1.431 1.374 904 941 686 799	112 142 157 171 152 174 185 168 178 180 202	691 831 957 1.482 2.017 2.527 2.608 2.199 1,738 1,214 6,852 23,949	4.040 2.738 3.244 3.924 6.922 11.367 13.011 10.399 6.832 3,419 3,644	18.423 13.835 16.463 16.029 19.529 23.446 25.143 23.065 22.701 20,564 16,577 18,234 234,008	4.873 3.429 4.076 4.881 8.405 13.384 16.105 15.619 12.598 8,570 4,632 10,496	17.425.209 12.913.237 15.362.601 15.640.712 20.894.561 27.549.052 30.853.311 28.935.429 26.403.735 21.791,585 15.864.609 21,489,874 255,123,913		Januarv Februarv March April Mav June Julv August September October November December		1.664 1.271 1.530 1.533 2.415 3.259 2.974 1.754 3.542 3.262 2.587 3.408	11.606 13.757 13.281 15.545 18.174 19.919 19.098 17.482 15.602 12,615 13,331	720 521 614 643 928 1.306 1.431 1.374 904 941 686 799	324 420 414 471 555 645 653 604 581 509 493 6,109	158 112 142 157 171 152 174 185 168 178 180 202	691 831 957 1.482 2.017 2.527 2.608 2.199 1.738 1,214 6.852 23,949	4.040 2.738 3.244 3.924 6.922 11.367 13.577 13.011 10.399 6.832 3,419 3,644 83,118	17.827 13.398 15.901 15.458 18.887 22.739 24.324 22.227 21.928 19,804 15,888 17,539 225,920	439 324 420 414 471 555 645 653 604 581 509 493 6,109	5.030 3.541 4.217 5.038 8.576 13.536 16.279 15.804 12.767 8,747 4,812 10,698 109,046			
	December 365	1 493 5 6,109	3,408 29,200 29,200	13,331 185,854	799 10,866	202 1,979	6,852 23,949 23,949	3,644 83,118 81,314	18,234 234,008	10,496 107,067	21,489,874 255,123,913		December	roof	3,408 29,200	13,331 185,854	799 10,866	493 6,109	202 1,979	6,852 23,949	3,644 83,118	17,539 225,920	493 6,109	10,698 109,046			
Cust #95593 Loc #69634 Joanne Dr. Smrthwoods	Bea End Date Davs 23-Dec 23-Jan 31 23 23-Jan 24-Feb 32 33	366 CCF 3 470 2 360	Davs Jan 23	29 Davs Feb -	Davs Mar	Davs Apr	Davs May	Davs June	Davs July	31 Davs August	Davs Sept	Davs Oct	Davs Nov	Davs Dec	Usage 	Usage Feb - 270.00	Usage Mar -	Usage Apr	Usace Mav	Usage June -	Usage July -	Usage August -	Usage Sept	Usage Oct	Usace Nov	Usage Dec	349 360
Smvthwoods	24-Feb 27-Mar 31 31 31 37 7-Mar 24-Apr 28 28 22 24-Apr 26-Mav 23-Jun 28 22 23-Jun 24-Jul 24-Apr 26-Sep 32 32 32-5-Sep 24-Oct 28-Nov 35 31 28-Mov 27-Dec 29 27 29 27 29 27 29 27 29 27 29 27 29 27 29 27 29 27 29 27 29 27 29 27 29 27 29 27 29 27 29 27 29 27 29 27 29 27 28 28 28 28 28 28 28 28 28 28 28 28 28	1 420 8 380 2 470 8 500 1 640	-	4	27 4	24 6	26 5	23 7	24 7						:	54.19	365.81 54.29	325.71 88.13	381.88 89.29	410.71 144.52	495.48 149.03		:	:	:	:	420 380 470 500 640
	Beo End Date Date 23-Jen 31 22 23-Dec 23-Dec 23-Jen 31 22 24-Dec 23-Jen 31 27-Mer 24-Dec 24-Dec 25-Dec 23-Jen 26-Dec 23-Jen 26-Dec 23-Dec 24-Dec 23-Dec 23-Dec 24-Dec 23-Dec 24-Dec 24-Dec 25-Dec 23-Dec 24-Dec 25-Dec 23-Dec 24-Dec 24-D	3 470 2 360 1 420 8 380 8 500 1 640 1 660 2 650 9 560 9 530 4 70 4 4,670	0	0	0	0	0	0	7	24 7	25 5	24 7	0 28 2	0 27	-						149.03	510.97 142.19	507.81 96.55	463.45 118.00	472.00 36.55	493.45	349 360 420 380 470 500 640 660 650 650 590 530 72 6,109
	Bea End		31 Davs	28 Davs	31 Davs	30 Davs	31 Davs	30 Davs	31 Days	31 Davs	30 Davs	31 Davs	30 Davs	Davs Dec	438.71 Usage	324.19 Usage	420.09 Usage	413.84 Usage	471.16 Usage	555.23 Usage	644.52 Usage	653.16 Usage	604.36 Usage	581.45 Usage	508.55 Usage	72.00 493.45 Usage	6,109
Cust #95563 Loc #69604 Harvev Rd.	Date Date Dave Dave Date Dave Date Dave Date Dave Date Dave Date	CCF 1.429 1.429 1.546 9 1.327 6 2.804 1 3.495 1 1.186 2 3.822 9 3.227 5 2.956 9 3.229 4 3.015 32,267			27 4	Apr	Mav .	June -	Julv	August -	Sept -	Oct -	Nov .		Jan 1.306.55 357.25	1.071.75 199.48	1.346.52 183.03	1.143.97 389.44	Mav - - 2.414.56	June - - -	July -	August - - -	Sept -	Oct	Nov - - -	Dec - -	1.307 1.429 1.546 1.327
	23-Jan 31 22 23-Jan 24-Feb 27-Mar 31 31 24-Feb 27-Mar 31 31 27-Mar 25-Aor 29 22 25-Aor 31-Mav 36 33 31-Mav 36 32 33-Jun 24-Jul 31 31 24-Jul 24-Auα 31 31 24-Auα 25-Seo 32 32 25-Seo 24-Oct 28-Nov 35 32 28-Nov 27-Occ 29 22 24-Oct 28-Nov 35 32 28-Nov 27-Occ 29 22	3 2.470 1 3.495 1 1.186 2 3.822 9 3.227	0 0	0	0	0	0	23 7 0	24 7	24 7	25 5	0 24	0	0				389.44	2.414.56	2.470.00 789.19	2.705.81 267.81	918.19 836.06	2.985.94 556.38	2.670.62			1.307 1.429 1.546 1.327 2.804 2.470 3.495 1.186 3.822 3.227 2.956 3.229 402 29,200
	24-Oct 28-Nov 35 35 28-Nov 27-Dec 29 25 27-Dec 26-Jan 30 4	5 2.956 9 3,229 4 3,015 32,267	0 0 0 31	28	31	30	31	0 0 0 30	31	31	30	31	28 2 0 30	27 4 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	591.20 : : 3,261.82	2.364.80 222.69 2,587.49	3,006.31 402.00 3,408.31	2,956 3,229 402 29,200
Cust #95615 Loc #69656 Mammoth Rd.	Beg	CCF 3 16.400	Days Jan 23	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	12.168
Mammoth Rd.	. 23-Jan 24-Feb 32 32 24-Feb 27-Mar 31 31 27-Mar 25-Apr 29 25- 25-Apr 26-May 31 31 26-May 23-Jun 28 28	2 13,100 1 13,800 9 12,600 1 15,000 8 16,600	8 - - - 0	24 4	27 4	25 5	26 5	- - - 23							3,275.00	9,825.00 1,780.65	12,019.35 1.737.93	10.862.07 2.419.35	12.580.65 2.964.29	13.635.71 4.538.71	:	:	:	:	-		13,100 13,800 12,600 15,000 16,600
	Beg End Days Date Days 22-Len 32-Len 31 22 Len 22-Len 31 31 22 Len 24-Feb 31 31 32 27-Mar 25-Anr 29 22 25-Anr 25-Anr 20 23 26-Mav 23-Jun 28 32 24-Jul 24-Jul 25-Seo 32 33 24-Auc 25-Seo 32 31 24-Auc 25-Seo 32 32 24-Cet 22-A-Cet 29 22 24-Cet 25-Anr 35 33 24-Anr 35 35 24-Anr 35 35 24-Anr 35 35 24-Anr 36 36 25-Seo 32 37 26-Cet 25-Anr 35 33 27-Dec 26-Jsn 30 42 27-Dec 26-Jsn 30 42 27-Dec 26-Jsn 30 42	CCF 16,400 11,400 13,100 11,3,000 11,5,000 11,5,000 11,20,100 11,20,100 12,100 19,300 15,300 15,300 16,400 11,400	0	0	0	0	0	0	24 7	24 7	25 5	0 24 7	0 28	0	:		:	-		4.538.71	15.561.29 4.358.06	14.941.94 4.156.25	14.843.75 2.637.93	12.662.07 2.940.00	11.760.00 855.17	11.544.83	12,168 13,100 13,800 12,600 16,600 20,100 19,300 19,300 14,700 12,400 1,787 186,854
		13.400 201.700	31	28	31	30	31	30	31	31	30	31	30	31	*******		13.757.29	13.281.42	15.544.93		19.919.35		17.481.68	15.602.07	12.615.17	1.786.67 13.331.49	1.787 185.854
Cust #95741 Loc #59798 Rockingham 使 Coteville Rd	Beq End Date Days 23-Den 25-Lan 31 2 23-Den 25-Lan 31 31 2 24-Feb 31 31 32 25-Mar 25-Lan 28 31 31 32 25-Mar 25-Lan 28 31 31 32 25-Mar 25-Lan 28 31 31 25-Mar 23-Lan 28 31 24-Lan 25-Lan 28 31 24-Lan 25-Lan 28 31 24-Lan 25-Lan 31 31 24-Lan 31 31 25-Lan 31 31 25-Lan 31 31 25-Lan 31 31 26-Lan 31 31 26-Lan 31 31 27-Dec 26-Lan 30 31 27-Dec 26-Lan 30 31 27-Dec 26-Lan 30 31	CCF 3 772 2 590 1 612	Days Jan 23 8	Feb - 24	Days Mar	Apr .	May .	June -	Days July -	Days August	Days Sept	Days Oct	Days Nov	Days Dec .	Jan 572.77 147.50	Usage Feb - 442.50 78.97	Usage Mar - - 533.03 80.97	Usage Apr	Usage May - -	Usage June -	Usage July - -	Usage August - -	Usage Sept - -	Usage Oct	Usage Nov - -	Usage Dec -	573 590 612
	Date Date Daye	CCF 2 590 1 612 9 587 1 850 8 1,202 1 1,409 1 1,507 2 948 9 948 1 691 3 829 944 11,849	0	0	0	5	26 5	23 7	24 7	24 7	25 5		0	0			80.97	506.03 137.10	712.90 214.64	987.36 318.16	1,090.84 340.29	1,166.71 207.38	740.63	:			573 590 612 587 850 1,202 1,409 1,507 948 948 691 829 121
	25-Sep 24-Oct 29 25 24-Oct 24-Nov 31 31 24-Nov 27-Dec 33 33 27-Dec 26-Jan 30 4	9 948 1 691 3 829 4 904 11.849	0 0 0 31	28	31	30	31	0 0 0	31	31	30	24 7 31	24 6 30	27 4 31	720	521	614	643	928	1.306	1.431	1.374	740.63 163.45	784.55 156.03	534.97 150.73	678.27 120.53 799	948 691 829 121 10.866
Cust #143619	Bed End Days	CCF	Davs Jan	Davs Feb	Davs Mar	Davs Apr	Davs May	Davs June	Davs July	Davs August	Davs Sept	Davs Oct	Davs Nov	Davs Dec	Usage Jan	Usage Feb	Usage Mar	Usage Apr	Usace May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	425
Cust #143619 Loc #207920 Pine Ave. Meter Pit	Date Date Dave	3 170 126 1 139 8 144 2 180 8 148 1 170 1 189 2 179 1 165 1 182 3 216 4 187 2,195	8 -	24 4	27 4	24 6	26 5	23		•	•				126.13 31.50	94.50 17.94	121.06 20.57	123.43 33.75	146.25 24.67	113.47 38.39							126 126 139 144 180 138 170 189 179 165 182 216 216
	23-Jun 24-Jul 31 31 24-Jul 24-Aug 31 31 24-Aug 25-Sep 32 31 25-Sep 24-Oct 29 25 24-Oct 24-Nov 31 31	1 170 1 189 2 179 9 165 1 182	0	0	0	0	0	7	24 7	24 7	25 5	0 24 7	0 24	0	:	:	:	:		38.39 - - -	131.61 42.68	146.32 39.16	139.84 28.45	136.55 41.10	- - - - 140.90 39.27		170 189 179 165 182
	24-Nov 27-Dec 33 33 27-Dec 26-Jan 30 4	3 216 4 187 2,195	31	28	31	30	31	30	31	31	30	31	30	27 4 31	158	112	142	157	171	152	174	185	168	178	180	176.73 24.93 202	216 25 1,979
Cust #95683 Loc #69736 Patten and County Rd.	Beo End Dave 23-Dec 23-Jan 31 23 23-Jan 24-Feb 32 33 24-Feb 27-Mar 31 31	CCF 3 860 2 780 1 820	Davs Jan 23 8	Davs Feb - 24 4	Davs Mar	Davs Apr	Davs Mav	Davs June	Davs July	Davs August	Davs Sept	Davs Oct	Nov .	Davs Dec	Usage June 638.06 195.00	Usage July 585.00 105.81	Usage August - - 714.19 117.24	Usage Sept	Usage Sept	Usage June	Usage July -	Usage August - -	Usage Sept	Usage Sept	Usage Sept	Usage Sept	638 780 820
	Beo End Date Days 23-Den 23-Jan 31 22 23-Den 23-Jan 31 32 24-Fab 31 32 25-May 25-May 31 33 27-Mar 25-May 31 33 27-Mar 25-May 31 33 24-May 23-Jan 38 24 24-Jul 24-Jul 25-Sep 22 33 24-Jul 25-Sep 22 32 25-Sep 24-Oct 25 32 25-Sep 27 25-Sep 2	9 850 1 1.390 8 1.900 1 2.480 1 2.690	0	0	0	25 5	26 5	23 7	24 7	24					:	:	117.24 - - - -	732.76 224.19	1.165.81 316.67	1.456.67 560.00	1.920.00 607.42	2.082.58 525.00		:	:	:	850 1.390 1.773 2.480 2.690
	25-Sep 24-Oct 29 25 24-Oct 28-Nov 35 35 28-Nov 27-Dec 29 25 27-Dec 26-Jan 30 4	3 850 780 1 820 9 850 1 1.390 8 1.900 1 2.480 1 2.690 2 2.400 9 1,880 9 7,040 4 2,230 26,230	0 0 0 31		31		31	0 0 0	31	31	25 5	0 24 7	28 2 0 30	27 4 31	833	691	831	957	1,482	2,017	2,627	2,608	1.875.00 324.14 - - - 2,199	1,555.86 182.00	728.00 485.52	6,554.48 297.33 6,852	638 780 820 850 1.390 1.773 2.480 2.690 2.400 1.880 910 7.040 297
Cust #107225	Beg End		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	
Cust#107225 Loc #200376 Donald Street	23-Dec 23-Jan 31 23 t 23-Jan 24-Feb 32 31 24-Feb 27-Mar 31 31 27-Mar 24-Apr 28 28 24-Apr 26-May 32 31	3 4,400 2 3,100 1 3,200 8 3,200 2 6,300	23 8 -	24 4	27 4	24 6	26	:	٠	•	•	•			3,264.52 775.00	2,325.00 412.90	2.787.10 457.14	2.742.86 1.181.25	5.118.75 1.803.57		:	:	:	:	:	:	3,265 3,100 3,200 3,200 6,300
	Beq End Date Days 23-Den 25-Jan 31 2 23-Den 25-Jan 31 31 2 24-Feb 31 31 32 2 24-Apr 26-May 23 32 32 25-May 23-Jan 28 32 24-Apr 23-Jan 28 32 24-Jan 25-Seo 22 33 24-Apr 25-Seo 22 32 25-Seo 25 32 25-Seo 25 32 25-Seo 25 32 25-Seo 35 32 25-Seo 35 32 25-Seo 35 32 25-Seo 35 33 25-Seo 35 32 25-Seo 35 32 25-Seo 35 32 25-Seo 35 32 25-Seo 35 33 25-Seo 35 35 25-Seo 35 25-Seo 35	CCF 4,400 2 3,100 8 3,200 8 3,200 2 6,300 8 10,100 1 13,500 2 11,700 9 7,300 1 3,500 3,400 87,200	0	0	0	0	0	23 7	24 7	24 7	25 5	0 24 7	0 24	0				-	1.803.57	8.296.43 3.070.97	10.529.03 3.048.39	10.451.61 2.559.38	9.140.63 1.258.62	6.041.38 790.32	2.709.68		3,265 3,100 3,200 3,200 6,300 8,296 13,600 11,700 7,300 3,500 3,500 453 81,314
	24-Nov 27-Dec 33 33 27-Dec 26-Jan 30 4	3 3.900 4 3.400 87.200	31	28	31	30_	31	30	31	31	30	31	30	27 4 31	4.040	2.738	3.244	3,924	6.922	11.367	13,577	13.011	10.399	6.832	709.09 3.419	3.190.91 453.33 3.644	3,900 453 81,314
			217 31.00	196 28.00	217 31.00	210 30.00	217 31.00	210 30.00	217 31.00	217 31.00	210 30.00	217 31.00	210 30.00	217 31.00													

Pennichuck Water Works. Inc. DW21-023

2016	Manchester Works Schedule of Pennichtuck 8 2016 Aversoo Daily Flow (Sal.) - 4 Aversoo Daily Flow	Max. allowed (2011)	Total 2.100,000 1,221,306 1,3256,078 134,772 5 445,162 Consumption current period 11,309,144 14,205,246 15,242,44 26,623,996 39,843,351 16,242,44 17,707,20	PEU Portion 718,002 718,002 718,002 718,002 718,002 718,002 718,002 718,002 718,002 718,002 718,002 718,002 718,002 718,003 718,003 718,003	PWW Portion 592,704 599,005 66,301 5 3,77 5 223,455 Two (2) month average Daily frow 468,940 471,971 468,940 471,971 468,940 1,108,009 1,108,009 1,785,677 597,775	Purchased 1,356	.078 in 2016																				
	Month: January 31 February 39 March 31 Acril 30 May 31 Aurul 30 July 31 Auoust 31 Sectember 30 December 31 December 31 December 366 proof	Cust #95593 Loc #69634 Joanne Dr. Smxthwoods 407 431 379 382 576 842 869 553 384 360 397 6,163	Penni Cust #95563 Loc #69604 Harvev Rd. 1.318 1.124 1.250 2.734 4.192 4.322 3.498 2.557 1.375 1.473 26,573	Cust #95615 Loc #69666 Mammoth Rd. 12.581 11.670 12.229 12.332 17.184 23.613 26.715 24.881 20.315 14.058 12.917 14.429 203,003	rc. (PEU) Cust #98741 Loc #64798 Rockincham #9 Coteville Rd 574 552 951 654 1.236 1.620 1.620 1.620 1.620 1.256 1.257 752 470 11,816	Cust #143619 Loc #207920 Pine Ave. Meter Pit 150 129 136 133 158 220 265 46 151 137 147 1,863	County Rd.	Works, Inc. (PWW) Cust #107225 Lot #200376 Donald Street 3.572 3.117 3.516 4.209 11.500 19.245 19.245 19.245 19.245 19.255 19.255 19.255 19.255 19.255 19.255 19.255 19.255 19.255 19.255 19.255 19.255 10.657	PEU CCF Total 15.130 13.884 14.584 14.987 21.888 30.396 33.791 30.882 24.835 16.775 15.340 16.916 249,417	PWW CCF Total 4.304 3.909 4.407 5.391 13.706 22.871 23.872 19.464 15.209 7,248 4,362 4,807 129,211	Gallons Total 14.537.131 13.309.144 14.205.246 15.242.434 26.623.399.1 24.7420 37.666.073 29.983.003 17.969.054 14.737.320 16.249,140 283,213,314		Month: January February March April May June July August Seotember October November	roof	Cust #95563 Loc #69604 Harvev Rd. 1.318 1.124 1.250 1.455 2.734 4.192 4.322 3.498 2.657 1.375 1.473 26,673	Londonderry Tank Cust #95615 Loc #69656 Mammoth Rd. 12.681 11.670 12.229 12.332 17.184 22.611 26.715 24.861 20.315 14.058 12.917 14.429 203,003	Cust #95741 Loc #64798 Rockinsham @ Coteville Rd 574 529 591 684 1.236 1.620 1.691 1.599 1.263 807 752 470 11,816	Wellington Tank Cust #95593 Loc #59694 Joanne Dr. Smxthwoods 407 431 379 382 576 782 842 669 553 384 360 397 6,163	Cust #143619 Loc #207920 Pine Ave. Meter Pit 150 129 136 133 158 189 220 265 46 151 137 147 1,863	Ow Service Tanks Cust #95683 Loc #69758 Patten and County Rd. 732 793 891 1.182 2.205 3.619 3.589 2.995 2.525 1,244 8.39 912 21,524	Cust #107225 Loc #200376 Donald Street 3.572 3.117 3.516 4.209 11.500 19.255 19.943 16.469 12.684 6.004 3.523 3.895 107,687	Londonderry Tank CCF Total 14.573 13.323 14.070 14.472 21.154 29.425 32.728 22.958 24.235 16.239 14.843 16.371 241,391	Wellindon Tank CCF Total 407 431 379 382 576 782 842 669 553 384 360 397 6,163	Low Service Tank CCF Total 4.455 4.039 4.543 5.524 13.864 23.059 23.759 15.256 7.399 4.499 4.995 131,073			
Cust #95593 Boo Date Loc #69593 Date Loc #69593 Date Service S	End Date Dave Date Date Date Date Date Date Date Dat	366 CCF 400 440 390 390 830 810 660 600 350 360 470 4,440	31 Davs 28 3 0 0 0 0 0 0 0 0 0	29 Davs Feb - 26 3	31 Davs Mar - 29 2	30 Davs Apr - 29 1	31 Davs May - 27 4 0 0	June	31 Davs July -	31 Davs August - - 26 5	30 Davs Sept	0 0 24 7 7 31	30 Davs Nov	31 Davs Dec	Usace Jan 361.29 45.52 - - - - - - - - - - - - -	Usace Feb 394.48 36.56	Usane Mar	Usace Apr	Usage May	Usage June - - - - - - - - - - - - - - - - - - -	Usane July 754.14 88.00 88.42	Usace August - - - - - - - - - - - - - - - - - - -	Usage Sept	Usane Oct	Usage Nov	Usace Dec	361 440 390 390 490 830 810 660 600 350 360 121 6,163
Cust 896553 Bool Loc 896064 Parvey Rd. 28-Js. 27-M. 27-M. 27-M. 23-Js. 2	End Date Da	1.331 1.121 1.230 1.433 2.337 4.464 4.148 3.451 2.840 1.436 1.128 1.328 1.328 1.761 28,008	Davs Jan 28 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Davs Feb - 26 3 0 0 0	Davs Mar - 28 3	Davs Apr - 28 2	Davs Mav - 27 4 0	Davs June	27 4	Davs August	Davs Sept	0 24 7 31	0 23 7 30	Davs Dec	Usage Jan 1.202.19 115.97	Usage Feb	Usage Mar - - 1.110.97 138.68 - - - - - - - - - - - - - - - - - - -	Usage Apr	Usage May - - - 2.175.83 558.00 - - - - - - - - - - - - - - - - - -	Usage June - - - - 3.905.00 285.07 - - - - - - - - - - - - - - - - - - -	Usage July	Usage Audust - - - - - 2.990.87 507.14 - - - - - - - - - - - - - - - - - - -	Usage Sept	Usage Oct - - - - - - - - - - - - - - - - - - -	Usade Nov 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Usane Dec 0 0 0 0 0 0 0 1,018.13 454.45 1,473	1.202 1.121 1.230 1.433 2.337 4.464 4.148 3.451 2.840 1.436 1.128 4.54 2.6,573
Cust #96616 Date Loc #9966 20-De Mammoth Rd. 22-Ju 22-Ju 27-Ju 26-Au 22-Ju	End Date Days Call	CCF 12,700 11,700 12,200 12,500 15,100 25,000 24,400 24,800 14,300 12,800 13,300 16,400 216,400	Days Jan 28 3 0 0 0 31	Days Feb	Days Mar - 28 3	Days Apr	Days May - 27 4	Days June		Days August	Days Sept	Days Oct - 0 24 7	Days Nov	Days Dec	Usage Jan ###################################	Usage Feb 10,489.66 1,180.65 - - - - - - - - - - - - - -	Usage Mar - 11,019.35 1.209.68 - - - - - - - - - -	Usage Apr	Usage May - - - 14.058.62 3.125.00 - - - - -	Usage June	Usage July	Usage August - - - 21.146.67 3.714.29 - - - 24.861	Usage Sept	Usage Oct - - - - - - - - - - - - - - - - - - -	Usage Nov 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Usage Dec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11,471 11,700 12,200 12,500 15,100 25,000 24,400 20,800 14,300 12,800 13,300 4,232 203,003
Cost #85741 Date Loc #85791 Rockingham @ Coteville Rd 25-44 22-44 22-45 22-45 22-45 22-55	End Days Date Days 10 24-50 12 28-50 12 28-50 12 28-50 12 28-50 13 31 31 31 31 31 31 31 31 31 31 31 31	CCF 575 527 582 674 1,096 1,726 1,591 1,572 1,324 779 873 353 772 12,444	Days Jan 28 3 0 0 0 31	Days Feb - 26 3 0 0 0	Days Mar - 28 3	Days Apr - 28 2 0	Days May - 27 4 0	Days June	27 4	Days August	Days Sept	Days Oct	0 23 7	Days Dec	Usage Jan 519.35 54.52 - - - - - - - - - - - - -	Usage Feb - 472.48 56.32	Usage Mar - - 525.68 65.23 - - - - - - -	Usage Apr - - - - - - - - - - - - - - - - - - -	Usage May 	Usage June	Usage July - - - - - - - - - - - - - - - - - - -	Usage August	Usage Sept - - - - - - - - - - - - - - - - - - -	Usage Oct - - - - - - - - - - - - - - - - - - -	Usage Nov 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Usage Dec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	519 527 582 674 1,096 1,726 1,591 1,572 1,324 779 873 353 199 11,816
Cust #143519 Date. Loc #207320. Pine Ave. Meter Pit 26-54. 22-4. 22-4. 23-54. 23-54. 23-54. 23-54. 23-54. 23-54. 23-54. 23-54. 23-54.	End Date Date	CCF 147 134 136 136 143 188 193 303 14 154 138 135 170	Davs Jan 27 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Davs Feb - 26 3 0 0 0	Davs Mar - 28 3	Davs	Davs	Davs	Davs	Davs	Davs Sept	0 24 7	0 23 7	Davs Dec	Usace Jan 132.30 132.30	Usage Feb	Usage Mar	Usage Apr	Usage May - - - - - - - - - - - - - - - - - - -	Usage June	Usace July	Usace August - - - - - - 262.60 2.50 - - - -	Usage Sept	Usage Oct	Usage Nov 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Usage Dec 0 0 0 0 0 0 0 0 0	132 134 136 136 143 201 193 303 14 154 138 135 44
Cust #95433 Date Los #89736 28-0-0 County Rd. 28-0-0 28-0-0 28-0-0 28-0-0 23-0-0 23-0-0 23-0-0 23-0-0 23-0-0	End Dave Date Da	CCF 720 790 900 1.130 1.850 3.820 3.440 2.900 2.700 1.360 820 900 850 21,990	Davs June 28 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Davs July - 26 3	Davs	Davs Scot - 28 2 2 0	27 4 0	Davs June	27 4	Davs	Days Sept	Davs Sent	0 23 7 30	0 23 8 31	Usade June 650.32 81.72 - - - - - - - - - - - - - - - - - - -	Usace July - 708 28 84.38 - - - - - - - - - - - - - - - - -	Usage August 	Usage Sept	Usace Scot 	Usage June - - - 3.378.67 237.24 - - - - - - - - - - - - - - - - - - -	Usage July - - - - 3 202.76 396.67 - - - - - - - - - - - - - - - - - - -	Usage August - - - 2.513.33 482.14 - - - - 2.995	Usage Sept	Usace Sept	Usace Sect 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Usage Sept 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	650 790 900 1.130 1.850 3.851 3.440 2.900 2.700 1.360 820 900 222 21,524
Cust #197225 Boo Co. #200216 2-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	End Days Date Days Days Date Days Days Date Days Days Days Days Days Days Days Days	CCF 3,600 3,100 3,500 3,500 9,500 19,100 16,200 13,500 6,700 3,500 4,400 111,300	Days June 28 3 0 0 0 31 217 31	Days July 26 3 0 0 0 29	Days	Days Sopt - 28 2 0 30 210 30	27 4 0 31 217	Days June	27 4 217 217	Days August - 26 5	23 7 210 30 30	Days Sept	0 23 7 210 30	0 23 8 31 217 31	Usage June 3.251.61 320.69 - - - - - - - - - - - - - - - - - - -	Usage July 2,779.31 337.50 - - - - - - - - - - - - - - -	Usage August - 3 262 50 253.33 - - - - - - - - - - - - - - - - - -	Usage Sept	Usage Sept 	Usage June - - - 17.937.50 1.317.24 - - - -	Usage July - - - - - - - - - - - - - - - - - - -	Usage August - - - - - 14.040.00 2.428.57 - - - - - - - - - - - - - - - - - - -	Usage Sept	Usage Sept	Usage Sept 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Usage Sept 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,252 3,100 3,600 3,800 9,600 17,938 19,100 16,200 13,600 6,700 3,600 1,135 105,125
			31	29	31	30	31	30	31	31	30	31	30	31													

Pennichuck Water Works. Inc. DW21-023 Saff DR 1-4 7/20/2021	2015 Average Daily Flow (Gal.	: 60 dav average da	Total 2.100.000	PEU Portion	PWW Portion																						
	Average Daily Flow (Cal. Average Daily Flow (Cal. Average Daily Flow (Cal. Current MBCC all one or MBCC all one or MBCC all one or MBCC all one or MBCC all one of MBC all of the original of the original of the original or	# days in billing cycle 31 28 31 30 31 31 30 31 30 31	14,688,108 12,847,818 15,376,375 16,682,598 30,653,923 31,426,377 32,254,027 37,599,334 31,926,580 19,956,462 13,801,613 14,735,738	\$ 3.37 \$ Consumption prior period 14.688.108 12.847.818 15.376.375 16.682.598 30,653.922 31,426.377 32.254.027 37,590.334 31,926.580 19,956,462 13,801,613	495.316 \$ 3.37 \$ - 7 Two (2) month Average Daily flow 473.810 466.711 478.376 525.557 176.009 176.009 176.009 177																						
	Month: January 31 February 21 March 31 May 31 June 32 June 32 June 32 June 32 June 33 June 34 June 34 June 35	1 391	Perc Cust#95653 Loc #69604 Harvev Rd. 1.324 1.083 1.248 1.462 3.165 3.237 3.292 3.616 2.895 1.604 1.088 1.149 25.081	Cust #95616 Loc #69656 Mammoth Rd. 12.185 10.838 12.793 13.258 18.384 19.455 19.180 21.506 19.961 11.845 12.713 11.845 19.327 11.845 12.713 11.845 19.327 11.845 12.713 11.845 12.713 11.845 12.713 11.845 12.713 11.845 12.713 11.845 12.713 11.845 12.713 11.845 12.713 11.845 12.713 11.845 12.713 11.845 12.713 11.845 12.713 11.845 12.713 11.845 12.713 11.845 12.713 11.845 12.713 11.845 12.713 11.845 12.713 12	no. (PEU) Cust 995741 Loc #64798 Rockincham @ Coteville Rd 882 1.083 1.183 1.487 1.165 1.510 1.272 1.468 713 553 581 12,677	Cust #143619 Loc #207920 Pine Ave. Meter Pit 150 129 143 140 178 176 174 188 160 163 1,899	Penrichuck Water Cust #98563 Loc #69736 Patten and County Rd. 782 618 992 1.151 2.520 2.345 2.418 3.417 2.601 1.623 905 2.009 1.035 2.039 2.039	Works, Inc. [PWW] Cust #1072X Loc #200376 Donald Street 3.883 3.291 3.865 4.713 14.588 14.909 15.806 19.444 14.932 6.978 3.608 3.761 109,797	PEU CCF Total 14.971 13.267 15.699 16.439 23.874 24.759 24.896 27.394 25.150 18,179 13,133 14,683 233,451	PWW CCF Total 4.665 3.909 4.858 5.864 17.107 17.255 18.224 22.861 17.533 8.501 4.512 4.817	Gallons Total 14.688.108 12.847.818 15.376.375 16.682.598 30.653.923 31.426.337 32.254.027 37.590.334 31.926.580 19.956.462 13.801.613 14.735.738 271,939,953		Month: January February March April Mav June July August September October November December	roof	Cust #95563 Loc #69604 Harvev Rd. 1.324 1.083 1.248 1.462 3.165 3.237 3.292 3.615 2.895 1.604 1.008 1.149 25,081		Cust #95741 Loc #64798 Nockingham @ Coteville Rd 892 840 1.083 1.183 1.487 1.165 1.510 1.272 1.468 713 533 581 12,677	Wellington Tanik Cust #95593 Loc #69634 Joanne Dr. Simsthwoods 420 377 433 446 660 727 739 814 666 372 407 391 6,452	Cust #143619 Loc #207920 Pine Ave. Meter Pit 150 129 143 140 178 176 174 188 160 163 146 153	ow Service Tanks Cust #95681 Loc #69736 Patten and County Rd. 782 618 992 1.151 2.520 2.345 2.418 3.417 2.601 1,523 905 1,036 20,309	Cust #107225 Loc #200376 Donald Street 3.883 3.291 3.865 4.713 14.588 14.909 15.806 19.444 14.932 6,978 3,608 3,781	Londonderry Tank CCF Total 14.402 12.761 15.123 15.853 23.036 23.856 23.962 26.392 24.323 17,644 13,386 14,340 225,100	Wellington Tank CCF Total 420 377 433 446 660 727 739 814 666 372 407 391 6,452	Low Service Tank CCF Total 4.815 4.038 5.000 6.003 17.285 17.430 18.399 23.049 17.693 8,664 4,659 4,970 132,005			
Cust #95593 Loc #89694 Joanne Dr. Smythwoods	Beo End Date Days	365 CCF 9 390 9 390 1 440 1 550 0 560 0 560 0 560 0 660 0 70 0 70 0 70 0 70 0 70 0 70 0	31 Davs Jan 29 2 - - 0 0 0 0 0 0 0 0 0 0 0	28 Davs Feb 27 1 1 0 0	31 Davs Mar - 27 4	27 30 0	28 3 0	30 Davs June	31 Davs July	28 31	30 Davs Sept	Davs Oct	1 30 Davs Nov	31 Davs Dec	Usage Jain 392.90 26.90 - - - - - - - - - - - - - - - - - - -	Usace Feb	Usage Mar - - 376.07 56.77 - - - - - - - - - - - - - - -	Usage Apr - - 383.23 62.90 - - - - - - - - -	Usace May	Usane June	Usage July	Usage August - - - - - 740.65 72.86 - - - - - - - - - - - - - - - - - - -	Usage Sept	Usage Oct - - - - - - - - - - - - - - - - - - -	Usane Nov 0 0 0 0 0 0 0 0 0 0 0 389,00 37,74 407	Usace Dec 0 0 0 0 0 0 0 0 0 0	393 390 440 650 800 660 820 680 390 410 390 39 6,452
Cust #95563 Lo: #99604 Harvey Rd.	Beo End Days Date Days 1 20 24 24 21 22 23 22 23 23 23 24 27 27 24 23 22 27 24 27 24 23 23 30 24 30 24 33 32 34 33 32 34 33 32 34 </td <td>CCF 1.333 1.120 1.120 1.120 1.120 1.120 1.120 1.329 1.3.146 1.3.29 1.3.146 1.3.29 1.3.146 1.3.29 1.3.140 1.3.29 1.3.49 1.3.29 1.3.49 1.3.20 1.3.29 1.3.29 1.3.29 1.3.29 1.3.29 1.3.29 1.3.29 1.3.29 1.3.20 1.3.29 1.3.29 1.3.20 1.</td> <td>Davs Jan 29 2 0 0 0 0 0 0 31</td> <td>Davs Feb</td> <td>Davs Mar - 27 4</td> <td>Davs Apr - 27 3 0</td> <td>Davs May</td> <td>Davs June 300 0 0 0 0 0 30</td> <td>28 3 3 31</td> <td>Davs August - 27 4</td> <td>Davs Sept</td> <td>Davs Oct</td> <td>Davs Nov</td> <td>0 28 3</td> <td>Usage Jan 1247.00 77.24</td> <td>Usace Feb - 1.042.76 39.86</td> <td>Usage Mar - 1.076.14 171.48 - - - - - - - - - - -</td> <td>Usage Apr - - 1.157.52 304.45 - - - - - - - - - 1,462</td> <td>Usace May</td> <td>Usage June - - - 3.237.27 - - - - - - - - - - - - - - - - - - -</td> <td>Usage July - - - - 2.937.00 355.00 - - - - - - - - - - - - - - - - - -</td> <td>Usage August - - - 3.195.00 419.59 - - - - - - - - - - - - - - - - - - -</td> <td>Usace Sect</td> <td>Usace Oct - - - - - - - - - - - - - - - - - - -</td> <td>Usace Nov 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>Usace 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1019.741935 128.81 1,149</td> <td>1.247 1.120 1.116 1.329 3.146 3.561 2.937 3.550 3.042 1.743 1.032 1.129 25,081</td>	CCF 1.333 1.120 1.120 1.120 1.120 1.120 1.120 1.329 1.3.146 1.3.29 1.3.146 1.3.29 1.3.146 1.3.29 1.3.140 1.3.29 1.3.49 1.3.29 1.3.49 1.3.20 1.3.29 1.3.29 1.3.29 1.3.29 1.3.29 1.3.29 1.3.29 1.3.29 1.3.20 1.3.29 1.3.29 1.3.20 1.	Davs Jan 29 2 0 0 0 0 0 0 31	Davs Feb	Davs Mar - 27 4	Davs Apr - 27 3 0	Davs May	Davs June 300 0 0 0 0 0 30	28 3 3 31	Davs August - 27 4	Davs Sept	Davs Oct	Davs Nov	0 28 3	Usage Jan 1247.00 77.24	Usace Feb - 1.042.76 39.86	Usage Mar - 1.076.14 171.48 - - - - - - - - - - -	Usage Apr - - 1.157.52 304.45 - - - - - - - - - 1,462	Usace May	Usage June - - - 3.237.27 - - - - - - - - - - - - - - - - - - -	Usage July - - - - 2.937.00 355.00 - - - - - - - - - - - - - - - - - -	Usage August - - - 3.195.00 419.59 - - - - - - - - - - - - - - - - - - -	Usace Sect	Usace Oct - - - - - - - - - - - - - - - - - - -	Usace Nov 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Usace 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1019.741935 128.81 1,149	1.247 1.120 1.116 1.329 3.146 3.561 2.937 3.550 3.042 1.743 1.032 1.129 25,081
Cust #95615 Loc #85656 Mammoth Rd.	Beg	CCF 11,200 11,200 11,500 11,500 11,500 18,200 18,200 17,100 20,200 20,200 21,630 12,200 12,200 12,200 12,200 12,200 12,200 12,200 12,200 12,200 12,200 12,200 12,200 13,200 14,000 14,000 15,000 16,000 1	Days Jan 29 2 2 0 0 0 0 0 0 0 0 0 0 0	Days Feb . 27 1 0 0	Days Mar - 27 4 0 0 0	Days	Days May - 28 3 0	Days June - - - - - 30 0 0 0 0 0 0	Days July	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Usage Feb	Usage Mar	Usage Apr - - - 11.496.77 1.761.29 - - - - - - - - 13.258	Usage May - - - 16.438.71 1.945.45 - - - - - - - - - - - - - - - - - - -	Usage June	Usage July - - - - - - - - - - - - - - - - - - -	Usage August - - - - - - - - - - - - - - - - - - -	Usage Sept - - - - - - - - - - - - - - - - - - -	Usage Oct - - - - - - - - - - - - - - - - - - -	Usage Nov 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Usage Dec 0 0 0 0 0 0 0 11380.8456 1,229.03 12,610	11,413 11,200 11,500 13,200 18,200 21,400 17,100 20,200 16,300 12,200 12,600 1,229 187,342
Cust #95741 Loc #69786 Rockingham @ Cotevitle Rd	Beg End Date Oays	CCF 99 980 99 885 3 972 1 1,132 1 1,523 1 1,523 1 1,525 1 1,585 761 1 582 761 1 582 761 1 582 761 1 582 761 1 582	Days Jan 29 2 0 0 0 0 0 0 31	Days Feb	Days Mar - 27 4	Days Apr - 27 3 0	Days May -	Days June	Days July .	Days August	Days Sept	Days Oct	Days Nov	Days Dec	Usage Jan 832.58 59.66	Usage Feb	Usage Mar - 937:29 146:06 - - - - - - - - - - - -	Usage Apr - - - 985.94 147.39 - - - - - - - - - - - - - - - - - - -	Usage May	Usage June	Usage July - - - - 1,393,00 117,30 - - - - 1,610	Usage August	Usage Sept	Usage Oct	Usage Nov 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Usage	833 885 972 1,132 1,523 1,077 1,592 1,173 1,565 761 547 582 56
Cust #143619 Los #207920 Pine Ave. Motor Pit	Beo End Date Date Date Date Date Date Date Date	CCF 9 150 19 134 3 129 1 144 1 141 0 177 2 178 9 185 9 155 170 1 151 1 153 1 153 1 147 2 041	Davs 29 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Davs Feb . 27 1 1 0 0	Davs	Davs	Davs May 27 4 0	Davs June	Davs July	Davs August	Davs Sept	Davs Oct	Davs Nov	Davs	Usage Jan 140.32 9.24	Usace Feb	Usage Mar	Usage Apr - - 122.81 17.10 - - - - -	Usage May	Usage June - - - - 153.40 22.25 - - - - -	Usage July 155.75 18.50	Usace August	Usage Sept	Usace Oct - - - - - - - - - - - - - - - - - - -	Usace Nov 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Usace Dec. 0 0 0 0 0 0 0 0 138.1935484 14.70	140 134 129 141 171 177 178 185 155 170 151 153 15
Cust 69583 Loc 695736 Patten and County Rd.	Beo End Date Days 284-Dec 23-Jan 31 23-Jan 31 28-Jan 27-Zhan 23-Zhan 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 23-Jan 31 31 32 34-Jan 33 32 34-Jan 32 34-Jan 30 32 22-Jan 22 23-Jan 23 22 24-Jan 23 23 22 24-Jan 23 24-Jan 23 24-Jan 24	CCF 790 510 510 510 510 510 510 510 510 510 51	Davs June 29 2 0 0 0 0 0 31	Davs July - 27 1	Davs	Davs	Davs Sept	Davs June	Davs	Davs August - 27 4	Davs Sept	Davs Sept	Davs Scot	Davs Sept	Usage June 739.03 43.45 - - - - - - - - - -	Usace July 596.55 31.79 - - - - - - - - - -	Usade Audust - - - 858.21 134.19 - - - - - - - - - -	Usage Sept	Usage Sept	Usage June	Usage July - - - - 2.080.00 338.00 - - - 2,418	Usage Audust - - - - 3.042.00 375.17 - - - - - - - - - - - - - - - - - - -	Usace Sent	Usace Sent	Usace Sept 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Usace Sect 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	739 630 890 1.040 2.530 2.580 2.080 3.380 2.720 1,690 890 1,070 70
Cust #107216 Loc #200376 Donald Street	Ben End Date Days 29-Dec 29-Jan 31 22-Jan 22-Jan 32 23-Jan 32 23-	CCF 3,500 3,400 3,500 14,500 14,500 13,900 13,900 15,400 3,500 3,500 3,500 3,500 3,500 3,500 3,500 3,500 3,500 3,500 3,500 3,500 3,500 3,500 3,500 3,500	Days June 29 2 0 0 0 0 0 31	Days July - 27 1	Days	Days Sept - 27 3	Days Sept	Days June 30 0 0 0 0 0 0 30	Days July	Days August - 28 3	Days Sept	Days Sept	Days Sept	Days Sept	Usage June 3,648.39 234.48	Usage July 3,165.52 125.00 	Usage August - - 3.375.00 490.32 - - - - - - - - - - - - - - - - - - -	Usage Sept	Usage Sept - - - 13.096.77 1.490.91 - - - - -	Usage June	Usage July - - - - - - - - - - - - - - - - - - -	Usage August	Usage Sept	Usage Sept	Usage Sept 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Usage Sept 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,648 3,400 3,500 3,800 14,500 16,400 19,700 19,700 3,600 3,800 348 109,797

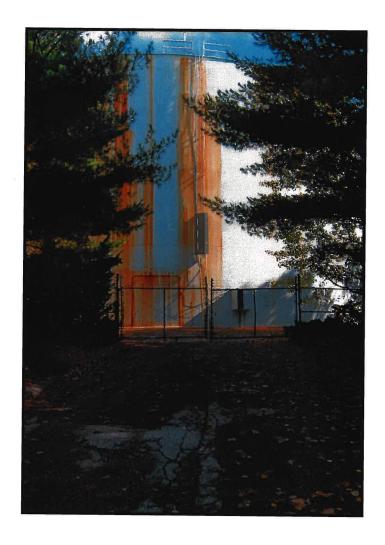
217 196 217 210 217 210 217 210 217 210 217 210 217 210 217 210 217 31.00 28.00 31.00 30.00 31.00 30.00 31.00 30.00 31.00 30.00 31.00

Penrichuck Water Works, Inc. DW21-023 Saff DR 1-4 7789/2021	Average Dally Flow (Ga Average Dally Flow (Ga Average Dally Flow (Ga Average Dally Flow (Ga Increase in 2016 (Gal.) Current MSDC rate per MSDC additional charge Consumption (Gal.):	k 60 dav average da I.) - Max. allowed I.) - (2011) I.)	Total 2:100.000 1,221,306 1.087.848 \$ 3.37 \$ -	S -	502,704 413.963																							
	Month: January January March Aoril Mar July August September October December	31 28 31 30 31 30 31 31 30 31 30 31 50 Cust #95593	17,227,526 15,403,045 16,912,476 15,551,293 22,274,739 32,383,815 33,974,905 27,070,751 21,917,397 14,400,557 14,871,229 Permit Cust #95563 Lor #69564	17.227.526 15.403.045 16.912.476 15.551.293 22.274,739 32.283.915 33,974.908 31,197.053 27,070,751 21,917.397 14,400.557 chuck East Utility, In Cust #95615 Loc #89656	555,727 653,961 647,721 632,193 620,099 896,042 1,087,848 1,051,161 955,210 803,084 695,376 695,376 Cust #95741 Loc #64798 Cockeindam @ Cockeille Rd	Cust#143619 Loc #207920 Pine Ave.	Pennichuck Water 1 Cust #95683 Loc #69736 Patten and	Works, Inc. (PWW Cust #107225 Los #200376	PEU	PWW				Cus Luc	Lot it #95563 C :#69604	ndonderry Tank Lust #95615 (Loc #59666)	Cust#95741 Loc#64798 ocklindham © Coteville Rd	Wellington Tank Cust #95593 Loc #59634 Joanne Dr.	Lo Cust #143619 Loc #207920	w Service Tanks Cust #95693 Cu Loc #89736 Lc Patition and	ust#107225 oc #200376	ondonderry Tank	Wellington L Tank CCF	.ow Service Tank CCF Total				
	Month: January February March Acril July July Auoust Societember November December Jopon	Loc #6634 Joanne Dr. Smrtthwoods 11 470 18 449 10 794 11 746 11 755 11 730 11 333 11 423 10 429 10 525 10 6,287	1.410 1.203 1.461 1.430 2.150 3.728 3.652 3.217 2.630 1.790 1.634 1.619 2.6.923	Mammoth Rd. 15.200 14.000 15.407 13.500 16.700 21.194 21.800 17.840 13.547 11.807 12.294 192.887	Rockincham @ Coteville Rd 1.186 1.014 772 660 958 1.493 1.246 1.218 1.107 777 771 11,821 11,821	Pine Ave. Meter Pit 117 116 114 136 136 166 163 144 141 140 148 159 1,682	Patten and County Rd. 910 605 793 1.032 1.310 2.090 2.330 1.975 1.851 1.107 805 902 15,711 15,711	Donald Street 3.739 3.252 3.515 3.593 8.001 13.839 15.500 12.085 11,505 3,598 3,506 97,740	PEU CCF Total 18.383 16.736 18.202 16.165 20.468 27.365 27.7591 24.726 22.264 16.589 14,748 15,173 238,400	PWW CCF Total 4.648 3.857 4.408 4.625 9.311 15.529 17.830 16.982 13.936 12.712 4.504 4.709 113,451	Gallons Total 17.227.526 15.403.045 16.912.476 15.951.2476 15.951.293 22.274.739 22.383.815 33.974.908 31.197.053 27.970.751 21.917.397 14.400.557 14.8071.229 263.184.789		Month: Januarv Februarv March April Mav June June July August September October November December	Hai	1.410 1.203 1.461 1.430 2.150 3.728 3.552 3.217 2.630 1.790 1.634 1.619 26,923	15.200 14.000 14.000 15.407 13.500 16.700 21.194 21.800 17.840 17.840 13.647 11.647 12.294	ockinoham & Coteville Rd 1.186 1.014 772 660 958 1.493 1.246 1.218 1.107 719 777 671 11,821	Joanne Dr. Smxthwoods 470 470 440 440 6525 784 730 746 537 393 382 429 6,287	Cust #143619 Loc #207920 Pine Ave. Meter Pit 117 116 114 136 136 166 163 144 141 140 148 159 1,582	Patten and County Rd. Do 910 605 793 1.032 1.310 2.090 2.330 1.975 1.851 1.107 805 902 15.711	3.739 3.252 3.615 3.593 8.001 13.839 15.500 12.085 11,608 3,698 3,806 97,740	Tank CCF Total 17.796 16.217 17.640 15.589 19.807 26.415 26.698 23.835 21.577 16,056 14,217 14,584 230,432		CCF Total 4.766 3.972 4.522 4.761 9.447 16.095 17.126 14.077 12.852 4.652 4.858 115,133				
Cust #95583 Loc #9654 Journal Dr. Smithwoods	Bea End Date Desc. 2-0cc 2-2an 11 2-0cc 2-2an 21 2-3cc 2-2an 21 2-3cc 2-	365 <u>CCF</u> 2 460 19 440 12 460	31 Davs 2 29 0 0 0 0 0 0 0 0 0	28 Days Feb	Davs 31 Mar 4 27 0 0	30 Davs 30 Aler - 2 28 - 0	Davs May	30 Davs June 	31 Davs July - 31 0	31 Days August	29 1 30 30 30 30 30 30 30 30 30 30 30 30 30	Davs Oct - 0 29 2 31	30 Davs Nov 0 28 2 0	31 Davs Dec 0	Jsace Jan 29.68 440.00	Usage Feb	Usane Mar - 57.50 391.03 - - - - - - - - - -	Usage Abr	Usace May	Usace June	Usage July - - - - - - - - - - - - - - - - - - -	Usage August - - - - - - - - - - - - - - - - - - -	Usage Sept	Usage Oct	Usace Nev	Usace Dec	30 444 446 446 420 440 460 610 710 710 710 710 710 710 710 710 710 7	
Gust 89566 Loc 88664 Harvey Rd.	Bec End Date Desc. Date Date Desc. 1 Jan	2 1.334 29 1.324 31 1.322 31 1.322 31 1.322 31 1.322 31 1.323 31 1.323 31 1.323 31 1.323 31 1.637 31 1.637 31 1.637 31 1.637 31 1.637 32 1.333 28,418	Davs Jan 2 29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Davs Feb	Davs Mar 3 28 2	Davs Abr - 2 28 - 0	Davs May 2 28 1 0	Davs June 30 0 0 0 0 0 30	31 0	Davs August 	29 1 30	Davs Oct	0 28 2 0 300	0 29 2 31	Jsaoe Jan 85.06 324.00	Usace Feb	Usane Mar	Usage Apr	Usace May	Usace June	Usace July	Usage August - - - - - 3.040.00 177.35	Usace Sect	Usage Oct	Usace Nov	Usace Dec	155 1.353 1.354 1.477 1.479 1.490 1.355 1.	
Cost #95.15 Loc #9656 Mammoth Rd.	29-Dec 29-Jan 31	2 15,200 19 15,200 10 15,500 10 14,500 10 13,400 88 15,100 11 21,500 11 22,500 11 18,500 11 18,500 11 12,300 11 12,300 11 12,300 11 12,300 11 12,300 11 12,300 11 12,300 11 12,300 11 12,300	Days Jan 2 29 0 0 0 0 0 0 31	Days Feb	Days Mar 3 28 -	Days Apr - 2 28 - 0	Days May	Days June 30 0 0 0 0 0 30	Days July - 31 0	Days August	29 1 30 =	Days Oct	0 28 2 0 30	0 29 2 31	Jsage Jan 980.65	Usage Feb	Usage Mar	Usage Apr	Usage May	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	881 145.000 14	
Cust #95741 Loc #9798 Rodsingham & Coteville Rd		CCF 2 1,147 2 1,117 2	Days Jan 2 29 9 0 0 0 0 0 0 31	Days Feb 28 - 0 0 0	Days Mar - 3 3 28 - 0 0 0	Days Apr - 2 28 - 0	Days May	Days June 30 0 0 0 0 0 30	Days July 31	Days August	Days Sept	Days Oct	0 28 2 0 300 =	0 29 2.	Jsage Jan 74.00 .112.00 - - - - - - - - - - - - -	Usage Feb : 1,014.32 :	Usage Mar	Usage Apr - - - - - - - - - - - - - - - - - - -	Usage May 	Usage June	Usage July	Usage August	Usage Sept	Usage Oct	Usage Nov	Usage Dec	74 1.122 1.1	
Cust #143619 Loc #20722 Pins Ave. Meter Pit	31_Jul 29-Aug 29 29 29-Sep 31 329-Sep 31 329-Sep 29-Oct 30 329-Oct 28-Nov 30 328-Nov 29-Dec 31 329-Dec 29-Jan 31	CCF 129 199 199 199 199 199 199 199 199 199	Davs 2 2 29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Davs Feb	Davs Mar 3 28 -	Davs Apr	Davs May	Davs June	Davs July	Davs August	Davs Sept	0 0 29 2 31	0 28 2 0 30	0 29 2 31	Jsage Jan 8.32 109.00	Usace Feb	Usace Mar 12.39 101.73 - - - - - - - - - - -	Usage Apr	Usace May	June	Usace July	Usace August	Usace Sept	Usage Oct	Usace Nov 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Usace Dec	8 100 100 100 100 100 100 100 100 100 10	
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TANK INDUSTRY CONSULTANTS



EVALUATION OF THE

4,500,000 GALLON STEEL GROUND STORAGE TANK

"KESSLER FARM TANK" NASHUA, NEW HAMPSHIRE

FOR

PENNICHUCK WATER WORKS PENNICHUCK, NEW HAMPSHIRE

October 17, 2014

14.214.L775.002

November 17, 2014

TIC TANK INDUSTRY CONSULTANTS INC.

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Pittsburgh, Pennsylvania 412 / 262-1586

> El Paso, Texas 915 / 790-0790

Houston, Texas 281 / 367-3511

SUBJECT:

The subject of this report is the field evaluation of the 4,500,000 gallon steel ground storage tank in Nashua, New Hampshire. The tank was owned by the Pennichuck Water Works, Inc., and was known as the "Kessler Farm Tank." The field evaluation was performed on October 17, 2014 by Gregory P. Cannon and Adam C. Miner of Tank Industry Consultants. The Owner's representative on the site at the time of the field evaluation was Victoria Hawkes. The column and rafter supported roof tank was of welded steel construction. According to information on the tank nameplate, the tank was built in 1987 by Advance Tank Company under contract number 5086 and had a capacity of 4,500,000 gallons. The tank nameplate also stated that the tank diameter was 120 ft, and the nominal shell height was 54 ft. Cursory calculations indicated the tank was designed using an alternative design basis which includes using higher allowable stresses and joint efficiencies.

OBJECTIVE:

The purpose of this evaluation was to determine the condition of the tank interior, exterior, exposed foundation, and accessories. As the tank could not be drained for the field evaluation, the interior was evaluated by a remotely operated vehicle (ROV). Therefore, only the shell and floor surfaces visible by use of the ROV were observed. The purpose of this report is to present the findings of the evaluation and to make recommendations for recoating, repairing, corrosion protection, and maintenance. Budget estimates for the work, anticipated life of the coating and the structure, and the replacement cost of the tank are also included.

AUTHORIZATION:

This evaluation and report were authorized in the Tank Industry Consultants Standard Form of Agreement dated October 8, 2014 and signed by John Boisvert.

EXECUTIVE SUMMARY:

The exterior coating system appeared to be providing very little corrosion protection to the majority of the steel surfaces. The exterior of the tank should be repainted within the next year. The visible coating on the interior surfaces of the tank appeared to be in fair overall condition with corrosion and extensive staining noted. Corrosion and metal loss is of even greater concern since the tank appears to have been constructed with a high-strength steel. Tank Industry Consultants recommends that the interior surfaces of this tank should be recoated in 2 to 3 years. However, it would likely be most economical to repaint the exterior and interior at the time same time.

ANSI/OSHA and Safety-Related Deficiencies: There were OSHA and safety-related deficiencies on this tank. These deficiencies included:

- cable and conduit were attached to the ladder which could interfere with the unrestricted use of the side rails by the climber (29 CFR 1910.27(b)(2)), and
- ♦ the gap between the roof and toe bar was greater than the maximum allowed 1/4 in. (29 CFR 1910.23(e)(4)).

If the Owner wishes to fully comply with OSHA and safety-related standards, it is recommended that these deficiencies be rectified.

AWWA and Operational Deficiencies: An operating deficiency was noted at the time of the field evaluation:

• the overflow pipe did not have a sufficient air break.

The safety-related, sanitary, and operating deficiencies listed above are not intended to be a complete list of deficiencies on this tank. The Owner should refer to the complete report text and accompanying photographs for a complete account of all observed deficiencies.

This evaluation and the reporting of the condition of this tank do not warrant the original structural condition of the tank or any of the original design for seismic loadings. Likewise, recommendations for this tank do not include modifications which may be required for compliance with present structural codes.

PHOTOGRAPHS:

Color photographs were taken of the visible portions of the foundation, the tank interior and exterior and are included as a part of this report. The significant photographs are keyed to the observations. Photographs taken from the ROV video are included as a part of this report.

NOMENCLATURE:

The terms used in describing the various components of steel water tanks are unique to the industry. In fact, the terms vary from firm to firm and from person to person. In an attempt to define the terms used in this report, a sketch of the general type of tank covered is included at the end of the narrative portion of this report. Each horizontal row of steel plates on the tank is referred to as a "shell ring" or "ring." To aid in referencing the shell rings, the bottom ring is referred to as shell ring 1 and the top ring is shell ring 7. Warning: Some appurtenances on this tank may be referred to as erection or rigging attachments, lugs, or brackets. This does not mean that they are safe for rigging. Each attachment for each tank should be evaluated on an individual basis by a structural engineer or an experienced rigger before being used. These devices may have been intended for only the original erectors and painters to use with specialized equipment.

ADHESION TESTS:

All adhesion tests performed during this evaluation were done in general accordance with ASTM D3359. The results are reported herein using the ASTM scale. The ASTM scale is a relative scale to rate adhesion from 0 to 5 with 5 being the best. A table of adhesion test results classification is included with this report following the sketch of the tank.

HEAVY METALS TESTS:

Samples of the exterior and interior coating systems were sent to a laboratory for inductively coupled plasma-atomic emission spectrometry analyses. The test results were as follows:

	Ca	dmium	Chi	romium	Lead		
	mg/kg	percent	mg/kg	percent	mg/kg	Percent	
Exterior	<25	<0.0025%	<250	<0.025%	<250	<0.025%	
Interior	<25	<0.0025%	<250	<0.025%	<250	<0.025%	

Tank Industry Consultants performs this test only to determine if there is lead, cadmium, or chromium present in the coating samples. To limit damage to the existing coating, only small areas were tested. The small number of samples taken and the difficulty of retrieving all primer from the steel profile may cause the tests performed to not accurately represent the total coating system. Variations in thickness, types of coatings applied, and the interim cleaning and painting operations will also affect the actual readings. The reliability of the results is also dependent on the amount of primer included in the sample. The Consumer Product Safety Commission specifies that an amount greater than 0.06% lead is considered potentially hazardous. Additional testing to determine the amount of leachable contaminants present in the spent cleaning debris will need to be performed following cleaning operations at the time of repainting. Results from the laboratory analysis are included following the adhesion tables.

ULTRASONIC THICKNESS MEASUREMENTS:

	(all readings were taken through coating)
Roof Plates:	0.263 in. to 0.265 in.
Shell:	
Ring #7:	0.319 in. to 0.322 in.
Ring #6:	0.488 in. to 0.496 in.
Ring #5:	0.555 in. to 0.564 in.
Ring #4:	0.603 in. to 0.616 in.
Ring #3:	0.682 in. to 0.692 in.
Ring #2:	0.729 in. to 0.731 in.
Ring #1:	0.797 in. to 0.806 in., bottom
Bottom Plate:	0.359 in. to 0.360 in.

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OBSERVATIONS:

A. Foundation and Site

SITE:

Size: approx. 200 ft diameter

Fence:

Type: chain link, with 3 strands of barbed wire

Height: 6 ft

Gates:

Number: 2

Northeast Gate: 19 ft wide

West: 20 ft wide Locked: yes

Nearest Structures:

Type: communications building

Direction: east

Distance: approx. 19 ft

Type: propane tank Direction: southeast Distance: approx. 22 ft

Type: residences Direction: east

Distance: approx. 100 ft

Nearest Overhead Power Lines:

Direction: west

Distance: approx. 49 ft

FOUNDATION:

Type: concrete ringwall Projection Above Grade:

North: 3-1/2 in. to 6-1/2 in. South: 5-1/2 in. to 7-1/4 in. East: 4-1/4 in. to 5-1/2 in. West: 5-1/4 in. to 7 in.

Grout: 3/4 in. to 1-1/8 in. Sealant: none visible Fiberboard: none visible

1. **Site Location**: The tank was located off of Kessler Farm Road in Nashua, New Hampshire. The site was located in a wooded and residential area with the nearest residences located east of the site. Overhead power lines were located west of the site. (See photos 2-3)

- 2. **Site Conditions**: The tank was surrounded by an approximately 14 ft wide asphalt skirt. The site was sloped towards a drainage ditch around the tank. The tank site was enclosed by a chain link fence which was topped with barbed wire and had two locked gates on the northeast and west sides of the site. Vegetation had grown into the site fence. A communications building and propane tank were located on the site south of the tank, and a pump house was located on the west side of the site. (See photos 1, 4)
- 3. **Foundation**: The tank foundation appeared to be a concrete ringwall. Several areas of cracking and isolated areas of spalling were observed in the concrete foundation at the time of this field evaluation. The foundation did not precisely exhibit the AWWA recommended 6 in. to 12 in. projection above grade. The foundation had been coated, and the coating had peeled in several areas. Mildew was also observed. An unused cable and clip were lying on the foundation. (See photos 5-8)
- 4. **Grout**: There was a pad of grout between the tank bottom plate and the concrete foundation. The grout appeared to be in fair to poor condition as popping and cracking were observed. The grout had been painted. No sealant was located at the grout-to-bottom plate interface. (See photos 5-8)

B. Exterior Surfaces

DESCRIPTION:

Construction: welded steel Diameter: approx. 120 ft Shell Height: approx. 54 ft

Shell Rings: 7

Roof Type: column and rafter supported

NAMEPLATE:

Location: above shell manhole on west side of shell

Advance
Tank Company
AWWA D100 C
1987 5086
Year Contract Heat Treat.
120-0 54-0

Diameter Height

4.5 Mils. Gals.

Nom. Capacity Gals. Material

ANCHOR BOLTS: none

BOTTOM PLATE PROJECTION: 1-1/4 in. to 1-1/2 in. from shell

SHELL MANHOLES:

Number: 2

Locations: east and west sides of shell ring #1

Type: single-crab Size: 24 in. diameter

Neck: 11-1/4 in. projection from shell x 1-3/8 in. thick

Bolt: 1 in. diameter x 14-1/2 in. long

Cover Plate:

Size: 27-1/4 in. diameter x 1 in. thick

Hinged: yes, interior

OVERFLOW PIPE:

Size: 16 in. diameter

Elastomeric Check Valve: yes

Brackets:

Size: 3 in. x 5/8 in., flat bar x 12-1/2 in. long

Spacing: approx. 8 ft Drain Pipe: 16 in. diameter

EXTERIOR LADDER:

Number of Rungs: 43

Distance From Ground to Lowest Rung: approx. 12 ft 5 in.

Width: 18 in.

Side Rails: 2-1/2 in. x 3/8 in., flat bar

Rung Size: 3/4 in. diameter Spacing: 12 in. on center Toe Room: 7-3/4 in.

Brackets:

Construction: welded

Size: 3 in. x 1/2 in., flat bar x 8 in. long

Spacing: approx. 8 ft

Safe-Climbing Device: notched-tubular rail

Safety Cage: none Vandal Deterrent:

Type: aluminum ladder gate

Length: 8 ft Locked: yes

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ROOF SAFETY RAILING:

Handrail:

Height: 42 in.

Size: 2-1/2 in. x 2-1/2 in. x 1/4 in., angle Uprights: 2-1/2 in. x 2-1/2 in. x 1/4 in., angle Mid-Rail: 2-1/2 in. x 2-1/2 in. x 1/4 in., angle

Toe Bar:

Size: 4 in. x 1/4 in., flat bar Height Above Roof: 4-5/8 in.

Access Opening:

Width: 27-1/2 in. Closure Chains: yes

ROOF OPENINGS:

Manholes #1 and #2:

Locations: south and west sides of roof

Size: 24 in. diameter

Type: hinged Curb: 6 in.

Welded: exterior only

Overlap: 2 in. Locked: yes

Manhole #3:

Size: 33-1/2 in. x 41-1/2 in.

Type: hinged Curb: 6 in.

Cover Overlap: 2 in.

Locked: yes

Roof Vent:

Type: clog-resistant Neck Height: 5-3/4 in. Neck Diameter: 24 in.

Screen:

Orientation: horizontal Size: 16 x 16 mesh Cover: 48 in. diameter

ROOF OBSTRUCTION LIGHTS:

Type: double-globe Location: on roof vent

Manufacturer: Hughey & Phillips, Inc.

Model Number: OB22 Operational: unknown Photoelectric Cell: not found

EXTERIOR COATING AND METAL CONDITION:

	Coating Thick	Coating Thickness				Metal Loss		
	Range	Typical	Underlying Coating	Rust	Adhesion	Typical	Deepest	
Shell	7 mils to 19.5 mils	11.5 mils	Neg.	80%	2 S	Neg.	Neg.	
Roof	6.5 mils to 15 mils	10 mils	Neg.	70%	0 T	Neg.	Neg.	

		Key to Table	
Adhesion	5 (very good)	T = Topcoat to Underlying Coating	Neg. = negligible
	4 (good)		
	3 (fair)	S = Primer to Steel	
	2 (poor)		
	1 (very poor)		
	0 (very poor)		

- 1. **Exterior Coating Condition**: The coating on the exterior of the tank appeared to be in poor condition with widespread areas of rust staining observed. The exterior coating exhibited very poor to poor adhesion to the underlying coating and steel.
- 2. **Bottom Plate**: The tank bottom plate extension appeared to be in nearly its original condition at the time of the field evaluation. Widespread areas of corrosion and peeled coating were noted. A grounding cable was located on the west side of the bottom plate. An unused clip and cable were lying on the bottom plate. (See photos 5-8)
- 3. **Shell Condition**: The contour of the tank shell was irregular as peaking, banding, and flat spots were noted. The coating was in poor condition with extensive areas of rust staining and corrosion noted. The topcoating had chalked, checked, and peeled. Debris was observed in the coating. The coating exhibited poor adhesion to the steel. A tank nameplate was attached to a bracket which was located on the west side of shell ring #1 above the shell manhole. A cabinet was located on the west side of the bottom shell ring which had a lock. An approximately 9 ft x 9 ft 6 in. welded steel door sheet was located on the lower side of the west shell. The door sheet corners were rounded, and the door sheet was rusty. An unused cabinet bracket and a threaded and plugged coupling were located on the west side of the shell. (See photos 9-16, 24)
- 4. **Shell Manholes**: The tank was equipped with two single-crab circular manholes located on the west and east sides of the tank. The shell plate around the manholes was not equipped with a reinforcing plate. The manhole covers were equipped with hinged support arms located on the interior of the tank. (See photos 15, 17)
- 5. Overflow Pipe: There was an operational deficiency noted: the overflow pipe air break was insufficient. The overflow pipe exited through the top shell ring and extended down the shell before discharging within a drain pipe. The discharge end of the overflow pipe was equipped with an elastomeric check valve which was partially located in the drain pipe. The pipe was equipped with welded steel brackets which appeared to be in their original structural condition at the time of this field evaluation. Corrosion was observed on the overflow pipe. Coaxial cables extended up the overflow pipes to three antennas attached to the upper part of the overflow pipe. (See photos 18-19, 25)

- 6. Exterior Shell Ladder: There was a safety and OSHA deficiency noted: a coaxial cable and conduit were attached to the ladder which could interfere with the unrestricted use of the side rails by the climber. The ladder was equipped with a notched-tubular safe-climbing device. The exterior ladder was welded to brackets which were welded to the shell. The exterior ladder and brackets appeared to be in nearly their original structural condition at the time of this field evaluation. The ladder was equipped with a ladder gate-type vandal deterrent which was locked. The vandal deterrent included side panels which were rusty. (See photos 20-23)
- 7. Roof Safety Railing: There was a safety-related or OSHA deficiency noted: the gap between the roof and toe bar was greater than the maximum allowed 1/4 in. The roof was equipped with a safety railing at the roof access adjacent to the roof manhole. The safety railing was constructed from welded angle and flat bar members. An antenna was attached to the safety railing on the west side of the roof. (See photo 26)
- 8. **Roof Condition:** The contour of the roof was adequate at the time of this evaluation. The roof coating was in very poor condition with widespread corrosion noted. The coating had peeled, cracked, and checked, and it exhibited very poor adhesion to the underlying coating. Numerous threaded and plugged couplings were located in the roof. (See photos 28, 31-35)
- 9. **Obstruction Lights**: There was a double-globe obstruction light located on the roof vent. Conduit extended along the roof to the light. The lights were not illuminated at the time of the field evaluation, and a photoelectric cell was not found. The lights were located below the antenna level height. (See photos 36, 38)
- 10. **Roof Manholes:** The roof was equipped with three manholes which were equipped with hinged and locked covers. The manholes were located on the west, south, and northeast sides of the roof. The roof manholes were welded on the exterior only. Corrosion was present on the manhole surfaces. (See photos 26-30)
- 11. **Roof Vent:** The roof was equipped with a clog-resistant vent in the approximate center of the roof. The vent pallet and screening were in good condition at the time of the field evaluation. (See photos 36-37)

C. Interior Surfaces

ROOF SUPPORT SYSTEM:

Main Rafters:

Number: 32

Size: 8 in. x 2 in., channel

Attachment Clips:

Size: 4 in. x 4 in. x 3/8 in., angle

Bolts: 5/8 in. diameter

Secondary Rafters:

Number: 64

Size: 12 in. x 4 in., I-beams Center Hub: approx. 5 ft diameter

Center Column:

Type: two channels intermittently welded together to form a T-shape

Channel Size: 11 in. and 3-1/2 in.

Outer Column:

Number: 8

Type: two channels intermittently welded together to form a T-shape

Channel Size: 11 in. and 3-1/2 in.

TOP SHELL ANGLE:

Size: 3 in. x 3 in. x 3/8 in.

Orientation: leg out

INTERIOR LADDER: none

CATHODIC PROTECTION: none

OVERFLOW:

Inlet Type: weir box

Location: approx. 1 ft below the roof-to-shell connection

INLET/OUTLET PIPE:

Size: 24 in. diameter

Protective Cover: yes, grate-type

INTERIOR COATING AND METAL CONDITION:

	Coating Thickr	ness	Approx. %	Failure to	Adhesion	Meta	1 Loss
	Range	Typical	Primer	Rust		Typical	Deepest
Roof	11 mils to 19 mils	13.5 mils	Neg.	< 1/2%	4 S	Neg.	Neg.
Shell	11 mils to 26.5 mils	15.5 mils	Neg.	< 1/2%	4 S	Neg.	Neg.

		Key to Table	
Adhesion	5 (very good) 4 (good)	T = Topcoat to Underlying Coating	Neg. = negligible
	3 (fair) 2 (poor) 1 (very poor) 0 (very poor)	S = Primer to Steel	

- 1. **Interior Coating Condition**: The tank was not drained for the field evaluation, and the interior evaluation was performed by an ROV. The evaluation of the floor was significantly limited by the presence of silt which prevented most of the floor surfaces from being visible. The coating on the interior surfaces of the tank appeared to be in fair overall condition with corrosion and extensive staining noted. The interior coating exhibited good adhesion to the steel.
- 2. Roof Condition: The coating on the roof plates appeared to be in fair overall condition. Minor corrosion and rust staining were noted along the top of the roof structure members, along the roof plate lap seams, and along the structure member edges. The interior roof support structure consisted of a center column, one circle of outer columns, an inner and outer set of roof rafters, and circumferential girders. The inner ends of the roof rafters were located on top of a center hub which was located at the top of the center column. The outer columns supported the circumferential girders on which the intermediate ends of the radial roof rafters rested. The outer ends of the rafters were bolted to steel clips which were welded to the shell. Corrosion and rust staining were observed at this connection. Seam sealant was located along the roof support structure members and along the roof-to-shell connection. Corrosion and rust staining were located along the roof-to-shell connection. (See photos 39-48, 58-61)
- 3. **Shell Condition**: The coating on the shell interior appeared to be in fair overall condition. There were extensive areas of rust staining noted, and the shell coating was discolored due to mineral staining from the water. A top shell angle was located around the roof-to-shell connection. Rust staining had streaked down from the roof-to-shell connection and rafter ends onto the upper shell surfaces. (See photos 49, 51-57)
- 4. Overflow Pipe: The overflow pipe was equipped with a weir box inlet. The location of the overflow inlet was such that the top capacity level was below the shell-to-roof connection. Rust staining was located on the interior of the weir box. (See photo 50)
- 5. **Bottom Plate Condition**: The floor could not be viewed due to a layer of silt. (See photo 56-57)
- 6. **Inlet/Outlet Pipe**: The inlet/outlet pipe was located in the tank floor. The inlet/outlet pipe was equipped with a grate cover. Corrosion was present on the pipe projection. (See photo 60)

RECOMMENDATIONS:

A. Foundation and Site

- 1. Site Maintenance: The site should be regraded so that the top of the foundation projects a minimum of 6 in. to a maximum of 12 in. above grade and so that proper drainage away from the foundation occurs. The vegetation should be removed from the site fence. Appropriate precautions should be taken for the work operations around the propane tank.
- 2. Tank and Site Security: Water tanks have been defined by some courts under certain circumstances as attractive nuisances. As such, there may be a significant potential liability to the Owner for injury to persons on the tank and tank site, even if access is not authorized. Recent events have prompted the entire water industry to consider measures that inhibit intentional acts that could threaten the water supply. A review of the security requirements for the tank and site is recommended to confirm that the existing measures are consistent with the Owner's security requirements for their water system. Primary tank and site security should be focused on eliminating, preventing, and detecting unauthorized access to the tank. Such security measures might include routinely and periodically verifying all manholes and gates are locked, and all exterior ladders have suitable deterrents. Other security measures might include installing no-trespass signs, site lighting, motion detectors, surveillance cameras, installing alarms on gates and tank manholes, and arranging more frequent site visits by law enforcement agencies.
- Antennas: The number and placement of the antennas, cables, and other associated equipment mounted on this tank will complicate the repainting of the tank. If left in place the antennas, cables, and related equipment may be damaged even though steps are taken to protect the components from blasting and other work related activities. Leaving this equipment in place will also increase the cost and duration of the project. If possible, it is recommended that the antennas and antenna cables be removed prior to the work and reinstalled {away from the ladders} at the completion of the project. At a minimum, the equipment should be de-energized during work to minimize the workers exposure to radio frequencies (RF). The contract between the Owner and the antenna companies will need to be reviewed to determine if removal and de-energization is possible and who bears responsibility for the cost and liability of the equipment removal. If possible, lease requirements regarding all equipment relocation should be written in advance of all rehabilitation operations. If the equipment cannot be removed, it will need to be determined who bears the cost and liability for removing or replacing any equipment that becomes damaged during work operations. Additional considerations during work operations will also be required including worker exposures to RF emissions which may shorten workdays; how to place and construct containment to prevent fugitive dust emissions; and adequately cleaning and painting in the hard to reach areas created by the locations of this equipment.
- 4. **Foundation**: When the tank exterior is repainted, any unsound concrete should be chipped to sound material and the concrete should be brush-off blasted. Any deteriorated areas or voids found should have a bonding agent and a vinyl emollient modified concrete patching mortar applied to build up the surface to its original contour. The concrete should then be painted with a concrete sealer. The unused cable and clip should be removed from the foundation.

5. Grout Maintenance: All loose grout should be chipped away to solid material when the tank is empty. Any shim plates which can be easily removed should be taken out. Any voids in the grout should be filled with a nonshrinking, nonstaining, structural grout material. The grout should be placed as far back under the bottom plate as possible and squared off vertically with the edge of the bottom plate. Any gap between the steel bottom plate and the grout should be filled with a flexible sealant.

B. Exterior Surfaces

- 1. Life of the Exterior Coating: The exterior coating system appeared to be providing very little corrosion protection to the majority of the steel surfaces. Tank Industry Consultants believes that the exterior of the tank should be repainted within the next year. Due to the very poor to poor adhesion of the existing exterior coating, spot cleaning and topcoating is not recommended. The exterior coating system should be evaluated immediately prior to preparing specifications to determine if the coating adhesion is still adequate to accept a topcoat.
- 2. **Coating Testing**: Prior to preparation of specifications for the cleaning and coating of the exterior of the tank, samples of the exterior coating system should be subjected to laboratory analysis to test for ingredients which may at that time be subject to regulations concerning their handling and disposal.
- 3. **Cleaning**: When the exterior is to be cleaned, all varieties of containment should be investigated. Containment of the wind-blown debris and paint droplets may be required due to the proximity of the adjacent residences.

4. Recommended Coating System:

- a. Complete Cleaning and Repainting: The optimum long-life coating system presently available for this site is an epoxy-polyurethane coating system. Properly formulated and applied polyurethanes have good resistance to condensation, mildew, and chipping. The polyurethanes also have excellent color and gloss retention and the longest expected service life of any of the common exterior tank coatings. The typical life of a properly applied epoxy-polyurethane coating system is approximately 15 to 20 years. These coatings are also presently manufactured to meet current VOC requirements.
- b. Coating Application: The entire tank exterior should be cleaned to the equivalent of an SSPC-SP 6, Commercial Blast Cleaning and have an epoxy-primed, epoxy intermediate and polyurethane finish coating system applied. However, care must be taken during the application of this particular coating system because this coating does have poor dry-fall characteristics, and potential damage to the surrounding property must be taken into consideration. The polyurethane coatings also require close monitoring of temperature and humidity during application.
- 5. Effective Service Life: Tank Industry Consultants defines the life of a coating as the amount of time before repainting becomes necessary due to coating failure and corrosion. During the coating life the Owner should expect the coating to lose its gloss, start to chalk, show signs of weathering, and possibly some rust staining. Future touch-up may be required on isolated coating

failures. If aesthetics are a concern, the Owner may have to topcoat the repainted tank prior to the end of the expected service life. However, future topcoating would be less expensive than complete cleaning and recoating and could delay the next complete cleaning and repainting for many years.

- 6. Other Systems: With air emission volatile organic compounds (VOC) restrictions being put in place around the nation, alternative coating systems may become available which would be viable options for this tank. The Owner should review the available systems prior to preparing specifications for the recoating project.
- 7. **Coating Curing**: It would be more economical to paint the tank exterior at the same time the interior is painted, since the tank must be drained while the exterior is painted, and the applied coatings cure. This will also reduce mobilization and observation costs.
- 8. **Rehabilitation Schedule**: To obtain the lowest possible prices for the work outlined in the recommendations, the Owner should have the specifications prepared and the work bid in the spring, with the work scheduled to start in early summer (if possible).
- 9. **Grinding and Bracket Removal**: Any unused brackets or erection lugs should be removed prior to the exterior repainting. Any weld burrs, weld spatter, or erection scars should be ground off to provide a smooth surface for the application of the coating.
- 10. **Nameplate**: The tank nameplate should be removed for the cleaning and coating of the tank. The nameplate should be cleaned and reattached to the tank using the existing bracket.
- 11. **Electrical Apparatus**: All unused electrical conduit, antennas, fixtures, electrical metering equipment, and control cabinets should be removed from the tank and tank site. All required equipment should be repaired and maintained in accordance with the National Electric Code (NEC).
- 12. **Existing Shell Manholes**: At the time of recoating and repairs, the gaskets for the shell manholes should be replaced, and the hinged support arms relocated to the exterior.
- 13. Additional Shell Manholes: Tank Industry Consultants interprets OSHA standards as defining a water storage tank as a confined space, and as such, a sufficient means of emergency egress and ventilation during cleaning and coating operations is required. Therefore, the tank should be equipped with two new hinged shell manholes. The additional manholes and covers should be 30 in. in diameter, should be designed in accordance with current industry and safety standards, should be hinged, and should be located approximately 90 degrees from the existing shell manholes.
- 14. Overflow Pipe: The overflow pipe should be modified so that it has an approximately 12 in. to 24 in. air break.
- 15. **Exterior Ladder**: The electrical conduit and cables should be relocated away from the side rails.
- 16. Roof Safety Railing: The toe bar should be lowered so the gap between it and the roof is less than 1/4 in.
- 17. Clog-Resistant Vent: The proper operation of the clog-resistant vent should be periodically verified.

18. **Obstruction Lights**: The Owner should file a FAA Form 7460 to verify the need for obstruction lighting on the tank. If the lighting is required, new bulbs and globes should be installed, as well as a photoelectric cell to reduce bulb maintenance costs. The lights should be relocated to be the tallest point of the tank. If the lighting is not required, the light assembly and all associated conduits and brackets should be removed.

C. <u>Interior Surfaces</u>

Preface to Interior Recommendations: The interior surfaces below the top capacity level were evaluated by an ROV as the Owner could not drain the tank. However, the ROV evaluation was limited by the deep layer of silt located on the tank floor rendering none of the floor coating visible. Therefore, prior to the preparation of specifications for interior rehabilitation work, the tank should be drained, washed out and thoroughly evaluated to more accurately determine the scope of work required. A complete evaluation of the interior would also reduce the number of potential change orders, and reduce the overall amount of the bids by eliminating uncertainty about the condition of the coating and steel.

- 1. Life of the Interior Coating: The visible coating on the interior surfaces of the tank appeared to be in fair overall condition with corrosion and extensive staining noted. Corrosion and metal loss is of even greater concern since the tank appears to have been constructed with a high-strength steel. Tank Industry Consultants recommends that the interior surfaces of this tank should be recoated in 2 to 3 years. It is recommended that when the interior is completely cleaned and repainted, an epoxy coating system should be used.
- 2. Coating Testing: Prior to preparation of specifications for the cleaning and coating of the interior of the tank, samples of the interior coating system should be subjected to laboratory analysis to test for ingredients which may at that time be subject to regulations concerning their handling and disposal.

3. Recommended Interior Coating System:

- a. **Epoxy Coating System**: The optimum long-life coating system presently available for the interior of water tanks is a two-component epoxy coating system. A two-coat epoxy system is recommended for the interior of this tank. This coating system should meet the certification criteria of ANSI/NSF 61 and state department of health regulations.
- b. Coating Application: When the interior is to be repainted, the entire tank interior should be cleaned to the equivalent of an SSPC-SP 10, Near-White Blast Cleaning and an epoxy coating system applied.
- c. Service Life: The typical life of a properly formulated and applied epoxy coating system is approximately 12 to 15 years in immersion service. Tank Industry Consultants defines the life of a coating as the expected service life before repainting becomes necessary due to coating failure and corrosion. The Owner could extend the service life of the coating by installing, properly maintaining and operating a cathodic protection system to help protect the steel surfaces in areas which have experienced coating failure.

- 4. **Cathodic Protection**: When the tank is rehabilitated the brackets and fittings should be installed for the future installation of a cathodic protection system.
 - a. **Type:** When the cathodic protection system is installed, an ice-resistant cathodic protection system which features long-life anodes, automatic potential and current control should be specified.
 - b. **Scheduling**: After the interior is completely cleaned and recoated, the cathodic protection system should not be energized until after the First Anniversary Evaluation. The Owner should conduct washouts and evaluations approximately every 3 years to monitor the need for cathodic protection. As the interior coating begins to show signs of failure, the cathodic protection system should be energized to aid in minimizing corrosion below the top capacity level.
 - c. Maintenance: Cathodic protection, if used and maintained properly, will control active corrosion below the water level and extend the useful life of a coating system. It should be noted that maintenance as recommended by the cathodic protection manufacturer is required for the cathodic protection system to work properly. Without proper monitoring, the cathodic protection system may operate too high and cause the coating to blister, or the system may operate too low and not adequately protect the exposed steel surfaces.
- 5. **Pit Welding and Pit Filling**: After initial cleaning, all significant pitting which is found should be welded, and all pitting with rough edges that would make the pitting difficult to coat properly should be filled with a solventless epoxy seam sealer.
- 6. **Rough Edges**: All unused brackets should be removed from the interior and exterior surfaces at the time of the next recoating. Any weld burrs, spatter, scars or rough edges in the steel should be ground smooth to provide a better surface for coating.
- 7. Roof Support Structure: After abrasive blast cleaning, the roof support structure should be carefully evaluated as metal loss repairs may be necessary at areas where the metal loss was not previous visible.

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ECONOMIC FACTORS:

<u>Item</u>	Cost	Life in Years
Replacement of tank with a new one	$$5,250,000^{1}$	75+

The following is a complete list of repairs and estimated costs for their respective recommendations found in the RECOMMENDATION section of this report.

Item	Sanitary & Safety	Scheduled Maintenance Repairs
Clean and Paint Exterior:		
SP 6, Complete Clean, Epoxy/Polyurethane System		\$ 375,000
Containment		100,000
Clean and Paint Interior:		
SP 10, 2-Coat Epoxy System		500,000
Cathodic Protection System		18,000
Miscellaneous Chipping and Grinding		5,000
Pit Repair Contingency		3,000
Grout Repair		5,000
Foundation Repair		10,000
Enlarge Overflow Pipe Air Break	\$ 1,000	
Relocate Conduit and Cable from Exterior Ladder	1,000	
Lower Tower Bar on Roof Safety Railing	2,000	
Install Additional Shell Manholes (2)	16,000	
Contingency Items	5,000	10,000

Estimates are believed to be a high average of bids that would be received in 2014.

¹ The replacement estimate includes costs associated with new tank fabrication and erection, foundation, painting, and engineering. The budget estimate given does not include costs associated with tank demolition, site acquisition, and distribution interruptions.

The following economic factors include only those work items that the Engineer believes to be the minimum to properly maintain this tank from an operational standpoint. Other items related to safety and risk management should be evaluated by the Owner.

Item	Cost
Clean and Paint Exterior:	
SP 6, Complete Clean, Epoxy/Polyurethane System	\$ 375,000
Containment	100,000
Clean and Paint Interior:	
SP 10, 2-Coat Epoxy System	500,000
Cathodic Protection System	25,000
Miscellaneous Chipping and Grinding	5,000
Pit Repair Contingency	3,000
Grout Repair	5,000
Foundation Repair	10,000
Enlarge Overflow Pipe Air Break	1,000
Relocate Conduit and Cable from Exterior Ladder	1,000
Lower Tower Bar on Roof Safety Railing	2,000
Install Additional Shell Manholes (2)	16,000
Contingency Items	15,000
Total of Engineer's Recommendations	\$ 1,058,000

Tank Industry Consultants has no control over the cost of labor, materials, or equipment, or over the contractors' methods of determining prices, or over competitive bidding, or the market conditions. Opinions of probable cost, as provided for herein, are to be made on the basis of our experience and qualifications and represent our best judgment as design professionals familiar with the design, maintenance, and construction of concrete and steel plate structures. However, Tank Industry Consultants cannot and does not guarantee that proposals, bids, or the construction cost will not vary from opinions of probable cost prepared for the Owner.

Due to the numerous potential scopes of work which exist, the Owner should obtain an updated budget estimate once the final scope of work has been determined. This would enable the Owner to accurately budget monies for additional mobilization costs and damaged coating rehabilitation costs.

Engineering and resident observation costs are not included in the Total of the Engineer's Recommendations because these fees are dependent upon the scope of work to be performed. Tank Industry Consultants performs all facets of the engineering services which would be required for this project. Estimated fees for engineering and resident observation will be furnished upon request.

CLOSURE:

Brief Summation: Pennichuck Water Works owns and operates a 4,500,000 gallon ground storage tank. The exterior coating system appeared to be providing very little corrosion protection to the majority of the steel surfaces. The exterior of the tank should be repainted within the next year. Proper maintenance after completing the recommendations herein would include periodic washouts and evaluations approximately every 3 to 5 years in accordance with AWWA recommendations, and the

installation and proper maintenance of a new ice-resistant cathodic protection system with long-life anodes.

Contractor Selection: The work should be performed by a competent bonded contractor, chosen from competitive bids taken on complete and concise specifications. The coatings used should be furnished by an experienced water tank coating manufacturer, supplying the field service required for application of technical coatings.

Standards for Repairs and Coatings: All work done and coatings applied should be applied in accordance with NACE, ANSI/NSF Standard 61, the manufacturer's recommendation, AWWA D100 and AWWA D102 (latest revisions), and the SSPC: The Society for Protective Coatings.

Observation of Work: Observation of the work in progress by experienced personnel will offer additional assurance of quality protective coating application. Observations can be performed on a continuous basis or spot (critical phase) basis. The actual cost of observation may be less using spot as opposed to full-time resident observation; however, with spot observation it is often necessary for work to be redone to comply with the specifications. This somewhat lowers the quality of the finished product, lengthens the job, and is frequently a cause of conflict between the contractor, Owner, and field technician. Resident full-time observation minimizes the amount of "rework" required.

Anniversary and Maintenance Evaluations: An anniversary evaluation should be conducted prior to the end of the one year bonded guarantee. Washouts and coating, structural, sanitary, safety, and corrosion evaluations should be conducted not less than every three years.

Time Frame: If the work is not performed within the next 12 months, the structure should be reevaluated prior to the preparation of specifications and solicitation of bids.

Specifications and Bidding Documents: The recommendations in this report are not intended to be specifications on which a contractor can bid. Complete bidding documents must include general and special conditions, detailed technical specifications, and other information necessary for the competitive bidding process. To properly protect the interests of the Owner, Contractor, and Engineer; the initial evaluation, the technical specifications, legal portions of the contract documents, and the observation should be performed by the same firm or with close coordination of all parties involved.

Limitations of Evaluation: It is believed that the conditions reported herein reflect the condition of the tank as observed on the date of the evaluation, using reasonable care in making the observations, and safety in gaining access to the tank. Should latent defects be discovered during the cleaning of the structure, they should be brought to the attention of the Owner and the Engineer.

Seismic and Wind Loadings: This tank is located in or near a region of moderate seismic activity. This evaluation and the reporting of the condition of this tank do not warrant the structural condition of the tank or any of the original design for seismic loadings. Likewise, recommendations for this tank do not include modifications which may be required for compliance with present structural codes. It is possible the tank was erected in compliance with pre-existing industry standards which have since been replaced by more restrictive standards.

Hazardous Materials in Coatings: It should be taken into consideration that Federal, State, and local environmental agencies have placed stricter controls on the removal of lead-based and other heavymetal based coatings from steel structures by the use of conventional abrasive blasting techniques. The paint and blast residue may be considered to be hazardous waste depending on the concentration of lead or other particles in residue.

NEW HANK

GREGORY ROY STEIN

Please contact Tank Industry Consultants if you have any questions or comments.

Respectfully submitted,

Tank Industry Consultants

Jennifer Coon, CHMM, CET

Gregory R. "Chip" Stein, P.E.

Managing Principal

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GROUND STORAGE TANK CLOG-RESISTANT ROOF VENT TOP SHELL ANGLE ROOF MANHOLE-**ROOF RAFTER** OVERFLOW PIPE COLUMN -SHELL LADDER - SHELL MANHOLE FOUNDATION -TANK FLOOR/BOTTOM PLATE NOMENCLATURE ©pyright © 2004, Tank Industry Consultants All rights reserved

Classification of Adhesion Test Results

Method A — X Cut Tape Test Approx. 1.5 in. long cuts at 30 deg. to 45 deg. apart.	Surface	Classification
No peeling or removal.	X	5
Trace peeling or removal along incisions.	X	4
Jagged removal along incisions up to 1/16 in. (1.6mm) on either side.	X	3
Jagged removal along most of incisions up to 1/8 in. (3.2mm) on either side.	X	2
Removal from most of the area of the X under the tape.	X	. 1
Removal beyond the area of the X.	X	o

Method B — Lattice Cut Tape Test Six parallel cuts at 2mm apart.	Surface	Classification
The edges of the cuts are completely smooth; none of the squares of the lattice are detached.	No Failure	5
Small flakes of the coating are detached at intersections; less than 5% of the lattice is affected.		4
Small flakes of the coating are detached along edges and at intersections of cuts. The area affected is 5% to 15% of the lattice.		3
The coating has flaked along the edges and on parts of the squares. The area affected is 15% to 35% of the lattice.		2
The coating has flaked along the edges of cuts in large ribbons and whole squares have detached. The area affected is 35% to 65% of the lattice.		1
Flaking and detachment worse than grade 1.		0

ASTM 3359 Standard Test Methods for Measuring Adhesion by Tape Test

Tank Industry Consultants

7740 West New York Street Indianapolis, Indiana 46214

Telephone -317/271-3100FAX -317/271-3300

- CERTIFICATE OF ANALYSIS -

Disp. Code: E I Report Date: 31-Oct-14 12:48 PM

Client ID: TANK_INDUST

Tank Industry Consultants
7740 West New York Street

Indianapolis, Indiana 46214

Attn: Julie White

Phone: (317) 271-3100

FAX: (317) 271-3300

Our Lab # 14015262-001

Your Sample ID: Int. Weir Box

Sample Composition: Grab

Your Project # 14.214.L775.002 Your Project Name: Paint Samples **Collection Date:** 10/17/14

Collected By: Client

Sample Type: Paint Chips

Receipt Date: 10/29/14 10:50

otal Metals, ICP-AES	<u>Analytical Method</u> SW846 6010B			<u>Method</u> 5 3050B	Prep Date 10/30/201		
Parameter	Result	Units	Qual	Quant. Limit	CAS#	Analysis Date	Ву
Cadmium, Cd	< 25.0	mg/kg	-	25.0	7440-43-9	10/31/14	spotts
Chromium, Cr	< 250	mg/kg		250	7440-47-3	10/31/14	spotts
Lead, Pb	< 250	mg/kg		250	7439-92-1	10/31/14	spotts

Our Lab # 14015262-002

Your Sample ID: Ext. Shell

Sample Composition: Grab

Your Project # 14.214.L775.002 Your Project Name: Paint Samples

Sample Type: Paint Chips

Collection Date: 10/17/14

Collected By: Client

Receipt Date: 10/29/14 10:50

otal Metals, ICP-AES	<u>Analy</u> SW84		Method 5 3050B	Prep Date 10/30/201		S	
Parameter	Result	Units	Qual	Quant. Limit	CAS#	Analysis Date	Ву
Cadmium, Cd	< 25.0	mg/kg		25.0	7440-43-9	10/31/14	spotts
Chromium, Cr	< 250	mg/kg		250	7440-47-3	10/31/14	spotts
Lead, Pb	< 250	mg/kg		250	7439-92-1	10/31/14	spotts

ORIGINAL REPORT

Lab # 14015262-002

Sample ID: Ext. Shell

Page 1 of 2



Pay C. B

10/31/2014

Lab Manager

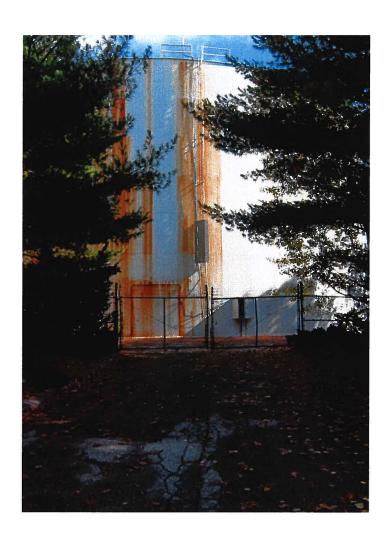
Date

Lab # 14015262-002

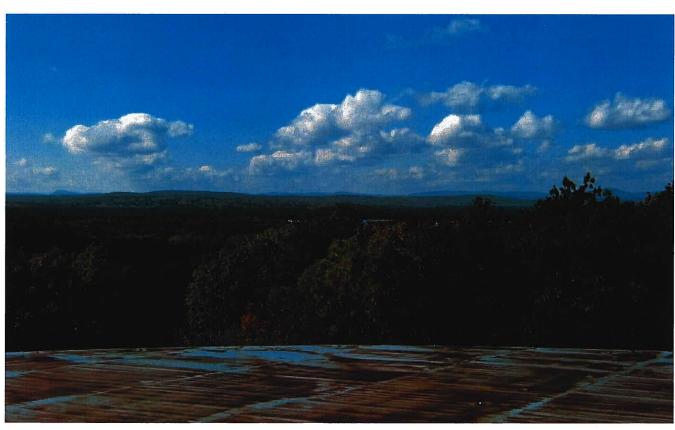
Sample ID: Ext. Shell

Page 2 of 2

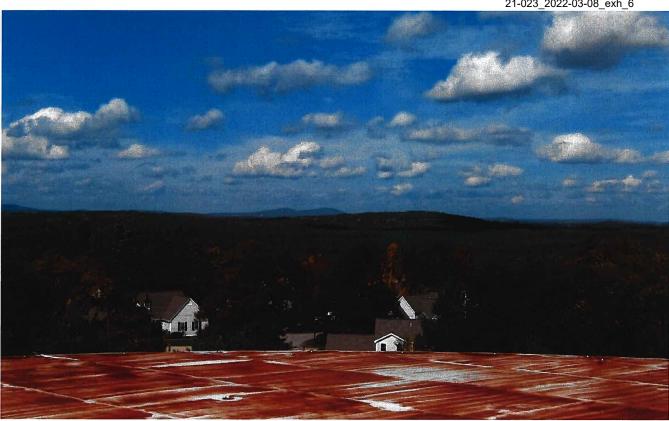




1. Tank and site.



2. Surrounding area.



Surrounding area.



Propane tank adjacent to subject tank.



5. Tank foundation, and peeled coating and corrosion on bottom plate.



6. Grout, bottom plate, and deterioration in foundation.

Pennichuck Water Works

"Kessler Farm Tank" 14.214.L775.002



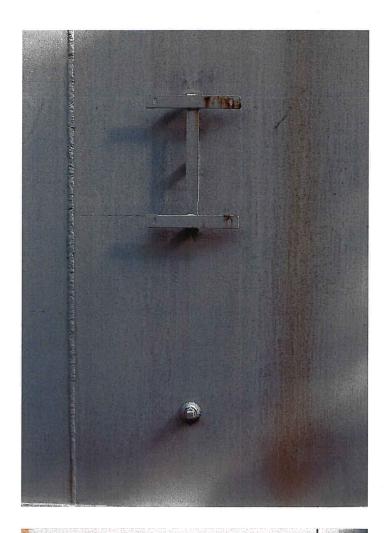
7. Tank foundation, grout, and peeled coating and corrosion on bottom plate.



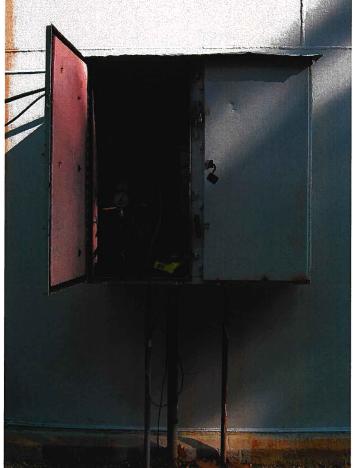
8. Cable and clip lying on foundation and bottom plate.

Pennichuck Water Works

"Kessler Farm Tank" 14.214.L775.002



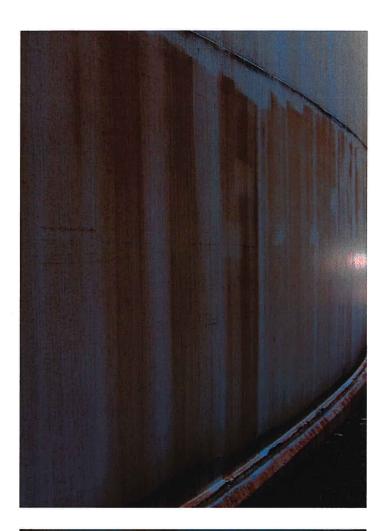
9. Unused cabinet bracket and threaded and plugged coupling.



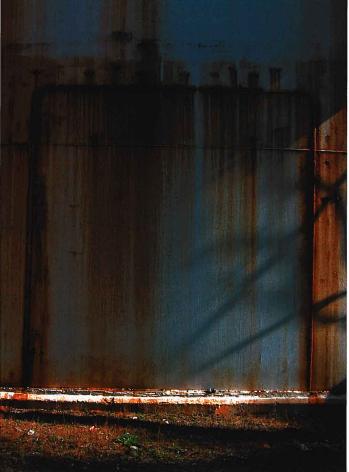
10. Cabinet on shell.

Pennichuck Water Works

"Kessler Farm Tank" 14.214.L775.002



11. Rust staining on shell.



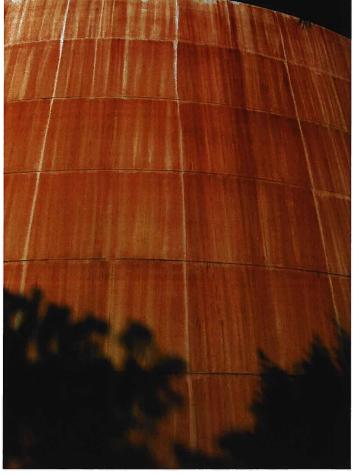
12. Corrosion on shell and door sheet.

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"Kessler Farm Tank" 14.214.L775.002



13. Peeled and cracked coating and corrosion on shell.



14. Rust staining on shell.

Pennichuck Water Works

"Kessler Farm Tank" 14.214.L775.002



15. Shell manhole and tank nameplate.



16. Tank nameplate.

Pennichuck Water Works

"Kessler Farm Tank" 14.214.L775.002



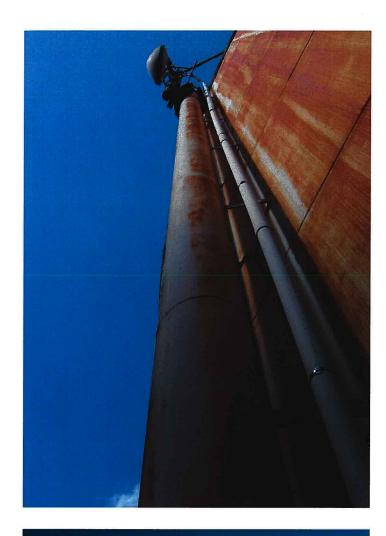
17. Shell manhole.



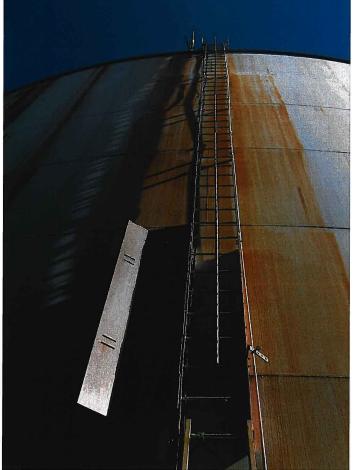
18. Overflow pipe, elastomeric check valve, and discharge pipe.

Pennichuck Water Works

"Kessler Farm Tank" 14.214.L775.002



19. Conduit extending to antennas on overflow pipe.



20. Exterior ladder, safe-climbing device, and vandal deterrent.

Pennichuck Water Works

"Kessler Farm Tank" 14.214.L775.002



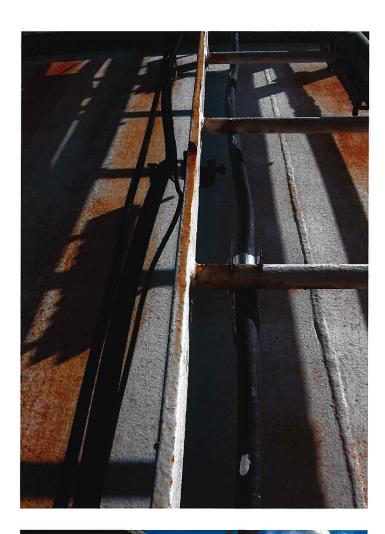
21. Side panels on vandal deterrent.



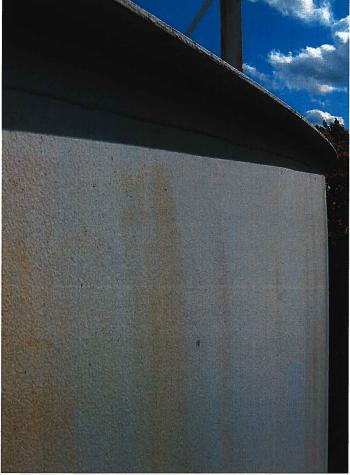
22. Exterior ladder, conduits, and safeclimbing device.

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23. Cables and conduits on exterior ladder.



24. Top shell angle.

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25. Antenna equipment on overflow pipe.



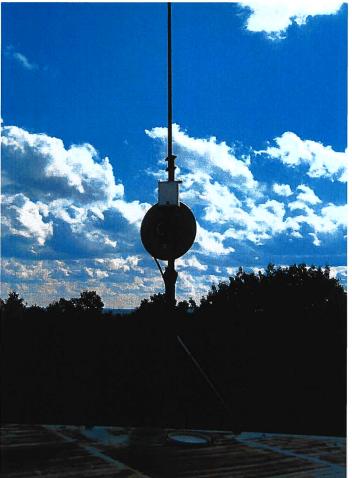
26. Roof access, roof safety railing, roof manhole, conduit, and antenna.

Pennichuck Water Works

"Kessler Farm Tank" 14.214.L775.002



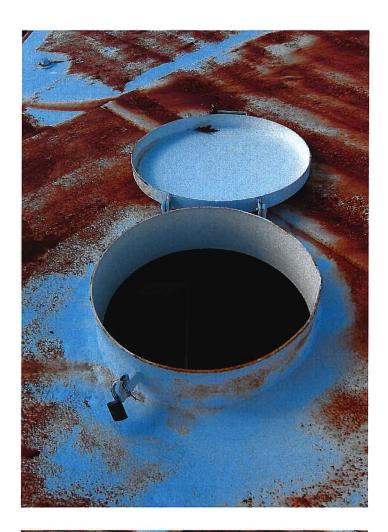
27. Roof manhole.



28. Antenna and roof manhole.

Pennichuck Water Works

"Kessler Farm Tank" 14.214.L775.002



29. Roof manhole.



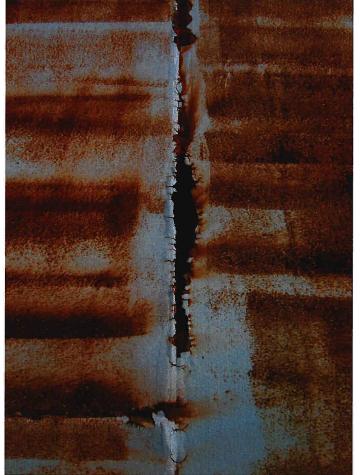
30. Roof manhole.

Pennichuck Water Works

"Kessler Farm Tank" 14.214.L775.002



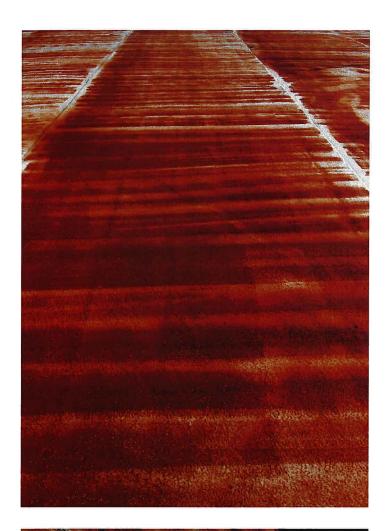
31. Corrosion and conduit on roof.



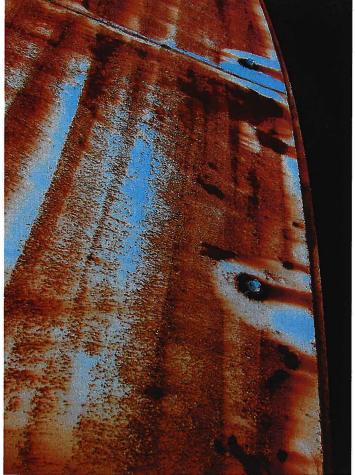
32. Peeled coating and corrosion on roof.

Pennichuck Water Works

"Kessler Farm Tank" 14.214.L775.002



33. Corrosion on roof.



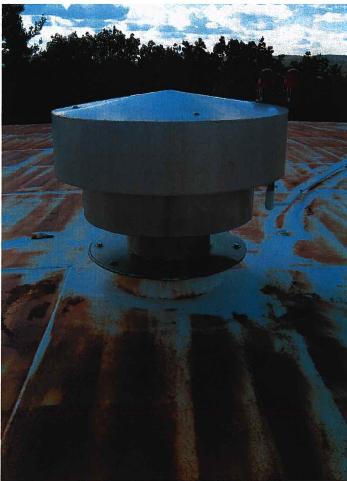
34. Threaded and plugged couplings, and corrosion on roof.

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"Kessler Farm Tank" 14.214.L775.002



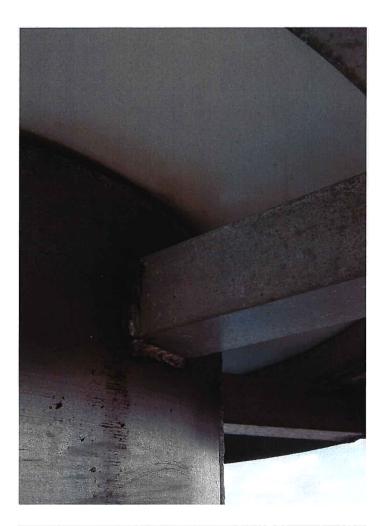
35. Threaded and plugged coupling.



36. Roof vent and obstruction lights.

Pennichuck Water Works

"Kessler Farm Tank" 14.214.L775.002



37. Underside of clog-resistant vent.



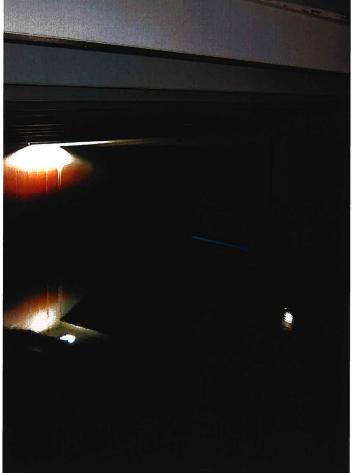
Pennichuck Water Works

"Kessler Farm Tank" 14.214.L775.002

38. Obstruction lights.



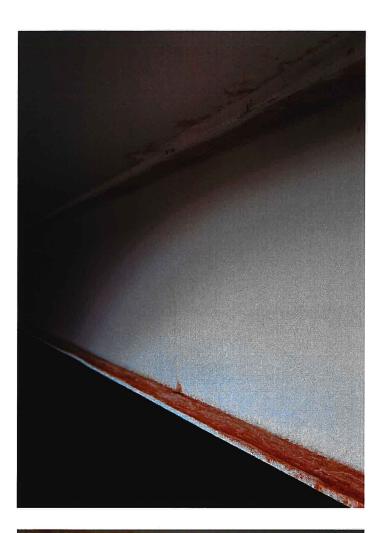
39. Roof interior and support structure.



40. Roof interior and support structure.

Pennichuck Water Works

"Kessler Farm Tank" 14.214.L775.002



41. Rust staining along rafter.



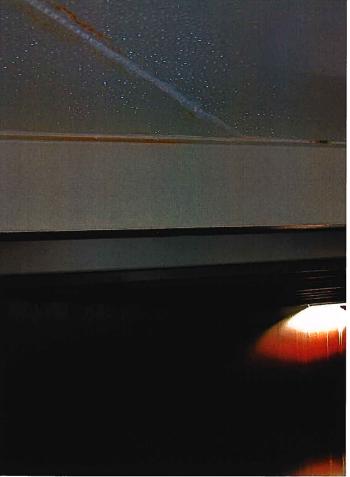
42. Rust staining along rafter.

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"Kessler Farm Tank" 14.214.L775.002



43. Rafters.



44. Rafters.

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"Kessler Farm Tank" 14.214.L775.002



45. Rafter attachment to shell.



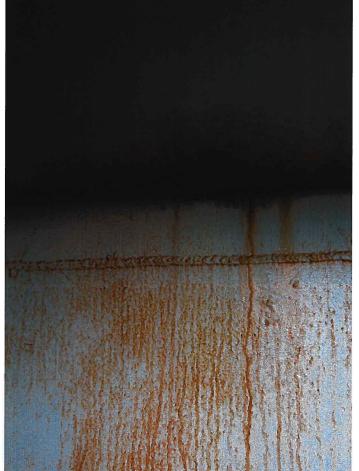
46. Rafter attachment to shell.

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47. Corrosion and rust staining on attachment clip and bolt.



48. Corrosion and rust staining along roof-to-shell connection.

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"Kessler Farm Tank" 14.214.L775.002



49. Rust staining on upper shell.



50. Overflow inlet weir box.

Pennichuck Water Works

"Kessler Farm Tank" 14.214.L775.002



53. Shell interior.



54. Shell manhole interior.



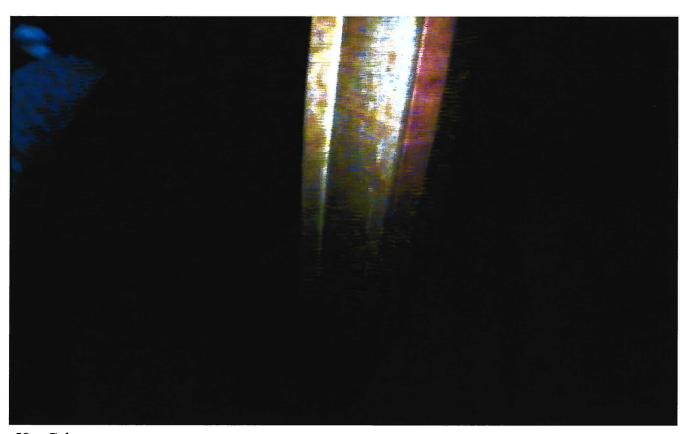
55. Hinge for shell manhole cover.



56. Shell and silt on floor.



57. Shell and silt on floor.



58. Column.



59. Column.



60. Column.

61. Column base.



62. Inlet/outlet pipe.

Pennichuck Water Works
2021 PWW QCPAC filing
DW 21-023
Attachment DOE 1-13
Comparison of Electrical vs. Carbon Expenses
7/20/2021

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

11.52737752 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 Additoinal electrical cost per year to pump from the Merrimack River

10.8

- \$ 2,250,000 Cost of complete Carbon Change out
 - 1.5 Expected Carbon life with Pennichuck Brook at average PFOA levels of 18 PPT
 - 6.75 Expected Carbon life with Merrimack River at average PFOA levels of
 MRI carbon life controlled by Taste and Odor or by loss of PFOA adsorption sits.
- \$ 1,500,000 Annual expense of Carbon bed change out if Pennichuck Brook is used as supply
- 333,333 Annual expense of Carbon bed change out if Merrimack River is used as supply
- \$ 619,885 Annual cost of using Merrimack RI (electric + Carbon)
 - 5.23 Comparison of PB Carbon Change out to MRI electrical and Crbon Change out cost
 - 2.4 Comparison of PB Carbon Change out to MRI electrical cost



The State of New Hampshire

Department of Environmental Services

21-023 2022-03-08 exh 6

Robert R. Scott, Commissioner

January 18, 2019

Alec Sirocki, P.E. Tighe & Bond 177 Corporate Drive Portsmouth, NH 03801

Subject: Pennichuck Water Works: PWS 1621010 Merrimack River Intake Improvements DWGB Design Review #005383

Dear Mr. Sirocki:

The New Hampshire Department of Environmental Services (NHDES) Drinking Water and Groundwater Bureau (DWGB) has reviewed the following bid documents for the subject project. The proposed drinking water improvements include construction of a new deep river raw water intake at Pennichuck Water Works' (PWW) existing Merrimack River intake site.

- Project Manual dated January 11, 2019
- Construction Drawings dated January 11, 2019
- Letter to Rick Skarinka, NHDES DWGB dated January 15, 2019

DWGB hereby approves the above documents subject to incorporation of the following comments. Any changes to the approved drawings or specifications by means of revised pages or addenda must be submitted to NHDES for review and approval, and issued at least five (5) days prior to bid opening.

- 1. All construction shall conform to AWWA standards.
- 2. Replace sign template with DWGTF sign. (Replace EPA logo with NHDWGTF logo.)
- 3. As a condition of approval of the proposed project NHDES will be requiring Pennichuck Water Works to develop a modified source water protection plan, which will be required prior to activation of the project. The source water protection staff at NHDES will contact Pennichuck directly regarding this issue.

We understand the NH Drinking Water and Groundwater Advisory Commission has awarded PWW a loan from the NH Drinking Water and Groundwater Trust Fund (DWGTF) for this project. The next step in the loan approval process is for PWW to submit a Final Loan Application.

In addition to verification of a loan being in place, DES requires submission of the following materials prior to our written authorization to award the construction contract:

- A. An estimate of eligible project costs, with monthly cash flow projections, including construction engineering and other costs.
- B. Evidence of advertisement for bids.
- C. A tabulation of all bids which were received.

Alec Sirocki, P.E. January 18, 2019 Page 2

- D. A letter signed by the water system's Authorized Representative, indicating the name of the bidder to whom a contract will be awarded.
- E. The bid proposal of the bidder to whom a contract will be awarded
- F. Certification that all necessary permits, land acquisitions and easements have been secured.
- G. Finding of No Significant Impact issued by the Commissioner of NHDES.

If you have any questions or comments please contact me at 271-0779 or michael.unger@des.nh.gov.

Sincerely,

Michael C. Unger, P.E.

Drinking Water and Groundwater Bureau

MIG

ec: John Boisvert, PWW

Pennichuck Water Works, Inc. DW21-023 Projected FALOC Interest Expense Attachment Staff DR 1-21 7/20/2021

			Libor Rate Advances										
Day of Week	Date	Beginning Balance - Availability	Advances	Payments	Total Amount Borrowed	Total Borrowed - All Advances	Ending Balance - Availability	Unused Fee %	Unused Fee Amount	check total	LIBOR + 1.75%	Interest Expense	Monthly Monthly Interest Unused Fee Expense
Thursday	12/31/20	5,450,441.20	-	-	4,549,558.80	4,549,558.80	7,450,441.20	0.00250	37.85		1.89913%	240.01	
Friday	01/01/21	7,450,441.20	-	-	4,549,558.80	4,549,558.80	7,450,441.20	0.00250	51.74		1.89675%	239.70	
Saturday Sunday	01/02/21 01/03/21	7,450,441.20 7,450,441.20	-	-	4,549,558.80 4,549,558.80	4,549,558.80 4,549,558.80	7,450,441.20 7,450,441.20	0.00250 0.00250	51.74 51.74		1.89675% 1.89675%	239.70 239.70	
Monday	01/03/21	7,450,441.20	-	_	4,549,558.80	4,549,558.80	7,450,441.20	0.00250	51.74		1.89675%	239.70	
Tuesday	01/05/21	7,450,441.20		-	4,549,558.80	4,549,558.80	7,450,441.20	0.00250	51.74		1.89675%	239.70	
Wednesday	01/06/21	7,450,441.20	-	-	4,549,558.80	4,549,558.80	7,450,441.20	0.00250	51.74		1.89675%	239.70	
Thursday	01/07/21	7,450,441.20	-	-	4,549,558.80	4,549,558.80	7,450,441.20	0.00250	51.74		1.89675%	239.70	
Friday	01/08/21	7,450,441.20	-	-	4,549,558.80	4,549,558.80	7,450,441.20	0.00250	51.74		1.89675%	239.70	
Saturday	01/09/21	7,450,441.20	-	-	4,549,558.80	4,549,558.80	7,450,441.20	0.00250	51.74		1.89675%	239.70	
Sunday	01/10/21	7,450,441.20	-	-	4,549,558.80	4,549,558.80	7,450,441.20	0.00250	51.74		1.89675%	239.70	
Monday	01/11/21 01/12/21	7,450,441.20	695,704.88	-	5,245,263.68 5,245,263.68	5,245,263.68 5,245,263.68	6,754,736.32	0.00250	46.91		1.89675%	276.36	
Tuesday Wednesday	01/12/21	6,754,736.32 6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32 6,754,736.32	0.00250 0.00250	46.91 46.91		1.89675% 1.89675%	276.36 276.36	
Thursday	01/13/21	6,754,736.32	-	_	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.89675%	276.36	
Friday	01/15/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.89675%	276.36	
Saturday	01/16/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.89675%	276.36	
Sunday	01/17/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.89675%	276.36	
Monday	01/18/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.89675%	276.36	
Tuesday	01/19/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.89675%	276.36	
Wednesday	01/20/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.89675%	276.36	
Thursday	01/21/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.89675%	276.36	
Friday	01/22/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.89675%	276.36	
Saturday Sunday	01/23/21 01/24/21	6,754,736.32 6,754,736.32	-	-	5,245,263.68 5,245,263.68	5,245,263.68 5,245,263.68	6,754,736.32 6,754,736.32	0.00250 0.00250	46.91 46.91		1.89675% 1.89675%	276.36 276.36	
Monday	01/25/21	6,754,736.32	-	_	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.89675%	276.36	
Tuesday	01/26/21	6,754,736.32	-	_	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.89675%	276.36	
Wednesday	01/27/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.89675%	276.36	
Thursday	01/28/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.89675%	276.36	
Friday	01/29/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.89675%	276.36	
Saturday	01/30/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.89675%	276.36	
Sunday	01/31/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.89675%	276.36	\$ 1,502.46 \$ 8,200.56
Monday	02/01/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.87288%	272.88	
Tuesday	02/02/21 02/03/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32 6,754,736.32	0.00250 0.00250	46.91 46.91		1.87288% 1.87288%	272.88 272.88	
Wednesday Thursday	02/03/21	6,754,736.32 6,754,736.32	-	-	5,245,263.68 5,245,263.68	5,245,263.68 5,245,263.68	6,754,736.32	0.00250	46.91		1.87288%	272.88	
Friday	02/05/21	6,754,736.32	-	_	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.87288%	272.88	
Saturday	02/06/21	6,754,736.32	-	_	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.87288%	272.88	
Sunday	02/07/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.87288%	272.88	
Monday	02/08/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.87288%	272.88	
Tuesday	02/09/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.87288%	272.88	
Wednesday	02/10/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.87288%	272.88	
Thursday	02/11/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.87288%	272.88	
Friday	02/12/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.87288%	272.88	
Saturday	02/13/21 02/14/21	6,754,736.32 6,754,736.32	-	-	5,245,263.68 5,245,263.68	5,245,263.68 5,245,263.68	6,754,736.32 6,754,736.32	0.00250 0.00250	46.91 46.91		1.87288% 1.87288%	272.88 272.88	
Sunday Monday	02/14/21 02/15/21	6,754,736.32 6,754,736.32	-	-	5,245,263.68	5,245,263.68 5,245,263.68	6,754,736.32 6,754,736.32	0.00250	46.91 46.91		1.87288% 1.87288%	272.88 272.88	
Tuesday	02/15/21	6,754,736.32	-	-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.87288%	272.88	
Wednesday	02/17/21	6,754,736.32		-	5,245,263.68	5,245,263.68	6,754,736.32	0.00250	46.91		1.87288%	272.88	
Thursday	02/18/21	6,754,736.32	359,457.41	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.87288%	291.58	
Friday	02/19/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.87288%	291.58	
Saturday	02/20/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.87288%	291.58	
Sunday	02/21/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.87288%	291.58	
Monday	02/22/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.87288%	291.58	
Tuesday	02/23/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.87288%	291.58	
Wednesday	02/24/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.87288%	291.58	
Thursday Friday	02/25/21 02/26/21	6,395,278.91 6,395,278.91	-	-	5,604,721.09 5,604,721.09	5,604,721.09 5,604,721.09	6,395,278.91 6,395,278.91	0.00250 0.00250	44.41 44.41		1.87288% 1.87288%	291.58 291.58	
Saturday	02/26/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41 44.41		1.87288%	291.58 291.58	
Sunday	02/27/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.87288%	291.58	\$ 1,285.96 \$ 7,846.34
Monday	03/01/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%	290.38	
Tuesday	03/02/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%	290.38	
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Day of Week	Date	Beginning Balance -	Advances	Payments	Total Amount Borrowed	Total Borrowed - All Advances	Ending Balance - Availability	Unused Fee %	Unused Fee Amount	check total	LIBOR + 1.75%	Interest Expense	Monthly Unused Fee	Monthly Interest
		Availability			borroweu	All Advances	Availability		Amount				Olluseu ree	Expense
Wednesday	03/03/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%	290.38		
Thursday	03/04/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%	290.38		
Friday	03/05/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%	290.38		
Saturday Sunday	03/06/21 03/07/21	6,395,278.91 6,395,278.91	-	-	5,604,721.09 5,604,721.09	5,604,721.09 5,604,721.09	6,395,278.91 6,395,278.91	0.00250 0.00250	44.41 44.41		1.86513% 1.86513%	290.38 290.38		
Monday	03/07/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%	290.38		
Tuesday	03/09/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%	290.38		
Wednesday	03/10/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%	290.38		
Thursday	03/11/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%	290.38		
Friday	03/12/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%	290.38		
Saturday	03/13/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41 44.41		1.86513%			
Sunday Monday	03/14/21 03/15/21	6,395,278.91 6,395,278.91	-	-	5,604,721.09 5,604,721.09	5,604,721.09 5,604,721.09	6,395,278.91 6,395,278.91	0.00250 0.00250	44.41 44.41		1.86513% 1.86513%			
Tuesday	03/15/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%			
Wednesday	03/17/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%			
Thursday	03/18/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%	290.38		
Friday	03/19/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%	290.38		
Saturday	03/20/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%			
Sunday	03/21/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%			
Monday	03/22/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%	290.38		
Tuesday Wednesday	03/23/21 03/24/21	6,395,278.91 6,395,278.91	-	-	5,604,721.09 5,604,721.09	5,604,721.09 5,604,721.09	6,395,278.91 6,395,278.91	0.00250 0.00250	44.41 44.41		1.86513% 1.86513%	290.38 290.38		
Thursday	03/25/21	6,395,278.91	-	_	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%	290.38		
Friday	03/26/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%	290.38		
Saturday	03/27/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%	290.38		
Sunday	03/28/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%			
Monday	03/29/21	6,395,278.91	-	-	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.86513%			
Tuesday	03/30/21 03/31/21	6,395,278.91 6,395,278.91	-	-	5,604,721.09 5,604,721.09	5,604,721.09 5,604,721.09	6,395,278.91 6,395,278.91	0.00250 0.00250	44.41 44.41		1.86513% 1.86513%		\$ 1,376.76	\$ 9,001.78
Wednesday Thursday	04/01/21	6,395,278.91		_	5,604,721.09	5,604,721.09	6,395,278.91	0.00250	44.41		1.85850%	289.34	3 1,370.70	3 3,001.78
Friday	04/02/21	6,395,278.91	-	5,604,721.09	3,004,721.09	3,004,721.09	12,000,000.00	0.00250	83.33		1.85850%	205.54		
Saturday	04/03/21	12,000,000.00	-	-	-	-	12,000,000.00	0.00250	83.33		1.85850%	-		
Sunday	04/04/21	12,000,000.00	-	-	-	-	12,000,000.00	0.00250	83.33		1.85850%	-		
Monday	04/05/21	12,000,000.00	-	-	-	-	12,000,000.00	0.00250	83.33		1.85850%	-		
Tuesday	04/06/21	12,000,000.00	-	-	-	-	12,000,000.00	0.00250	83.33		1.85850%	-		
Wednesday	04/07/21	12,000,000.00	-	-	-	-	12,000,000.00	0.00250	83.33		1.85850%	-		
Thursday	04/08/21 04/09/21	12,000,000.00 12,000,000.00	-	-	-	-	12,000,000.00 12,000,000.00	0.00250 0.00250	83.33 83.33		1.85850% 1.85850%	-		
Friday Saturday	04/10/21	12,000,000.00	-	-	-	-	12,000,000.00	0.00250	83.33		1.85850%	-		
Sunday	04/11/21	12,000,000.00	-	-	-	-	12,000,000.00	0.00250	83.33		1.85850%	-		
Monday	04/12/21	12,000,000.00	-	-	-	-	12,000,000.00	0.00250	83.33		1.85850%	-		
Tuesday	04/13/21	12,000,000.00	-	-	-	-	12,000,000.00	0.00250	83.33		1.85850%	-		
Wednesday	04/14/21	12,000,000.00	-	-	-	-	12,000,000.00	0.00250	83.33		1.85850%	-		
Thursday	04/15/21	12,000,000.00	-	-	-	-	12,000,000.00	0.00250	83.33		1.85850%	-		
Friday	04/16/21 04/17/21	12,000,000.00 12,000,000.00	-	-	-	-	12,000,000.00 12,000,000.00	0.00250 0.00250	83.33 83.33		1.85850% 1.85850%	-		
Saturday Sunday	04/17/21	12,000,000.00	-	-	-	-	12,000,000.00	0.00250	83.33		1.85850%			
Monday	04/19/21	12,000,000.00	-	-	-	-	12,000,000.00	0.00250	83.33		1.85850%	-		
Tuesday	04/20/21	12,000,000.00	-	-	-	-	12,000,000.00	0.00250	83.33		1.85850%	-		
Wednesday	04/21/21	12,000,000.00	-	-	-	-	12,000,000.00	0.00250	83.33		1.85850%	-		
Thursday	04/22/21	12,000,000.00	-	-	-	-	12,000,000.00	0.00250	83.33		1.85850%	-		
Friday	04/23/21	12,000,000.00	-	-	-	-	12,000,000.00	0.00250	83.33		1.85850%	-		
Saturday Sunday	04/24/21 04/25/21	12,000,000.00 12,000,000.00	-	-	-	-	12,000,000.00 12,000,000.00	0.00250 0.00250	83.33 83.33		1.85850% 1.85850%	-		
Monday	04/25/21	12,000,000.00	-	-	-	-	12,000,000.00	0.00250	83.33		1.85850%			
Tuesday	04/27/21	12,000,000.00	-	-	-	-	12,000,000.00	0.00250	83.33		1.85850%	-		
Wednesday	04/28/21	12,000,000.00	804,863.20	-	804,863.20	804,863.20	11,195,136.80	0.00250	77.74		1.85850%	41.55		
Thursday	04/29/21	11,195,136.80	-	-	804,863.20	804,863.20	11,195,136.80	0.00250	77.74		1.85850%	41.55		
Friday	04/30/21	11,195,136.80	-	-	804,863.20	804,863.20	11,195,136.80	0.00250	77.74		1.85850%	41.55	\$ 2,399.90	\$ 124.65
Saturday	05/01/21	11,195,136.80	-	-	804,863.20	804,863.20	11,195,136.80	0.00250	77.74		1.85850%	41.55		
Sunday	05/02/21	11,195,136.80	-	-	804,863.20	804,863.20	11,195,136.80	0.00250 0.00250	77.74 77.74		1.85850% 1.85850%	41.55		
Monday Tuesday	05/03/21 05/04/21	11,195,136.80 11,195,136.80	-	-	804,863.20 804,863.20	804,863.20 804,863.20	11,195,136.80 11,195,136.80	0.00250	77.74		1.85850%	41.55 41.55		
Wednesday	05/05/21	11,195,136.80	-	-	804,863.20	804,863.20	11,195,136.80	0.00250	77.74		1.85850%	41.55		
Thursday	05/06/21	11,195,136.80	-	-	804,863.20	804,863.20	11,195,136.80	0.00250	77.74		1.85850%	41.55		
Friday	05/07/21	11,195,136.80	-	-	804,863.20	804,863.20	11,195,136.80	0.00250	77.74		1.85850%	41.55		

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Day of Week	Date	Beginning Balance -	Advances	Payments	Total Amount	Total Borrowed -		Unused Fee %	Unused Fee	check total	LIBOR + 1.75%	Interest Expense	Monthly Monthly Interest
		Availability			Borrowed	All Advances	Availability		Amount				Unused Fee Expense
Saturday	05/08/21	11,195,136.80	-		804,863.20	804,863.20	11,195,136.80	0.00250	77.74		1.85850%	41.55	
Sunday	05/09/21	11,195,136.80	-	-	804,863.20	804,863.20	11,195,136.80	0.00250	77.74		1.85850%	41.55	
Monday	05/10/21	11,195,136.80	-	-	804,863.20	804,863.20	11,195,136.80	0.00250	77.74 77.74		1.85850%	41.55 41.55	
Tuesday Wednesday	05/11/21 05/12/21	11,195,136.80 11,195,136.80	-	-	804,863.20 804,863.20	804,863.20 804,863.20	11,195,136.80 11,195,136.80	0.00250 0.00250	77.74 77.74		1.85850% 1.85850%	41.55 41.55	
Thursday	05/13/21	11,195,136.80	-	-	804,863.20	804,863.20	11,195,136.80	0.00250	77.74		1.85850%	41.55	
Friday	05/14/21	11,195,136.80	-	-	804,863.20	804,863.20	11,195,136.80	0.00250	77.74		1.85850%	41.55	
Saturday	05/15/21	11,195,136.80	-	-	804,863.20	804,863.20	11,195,136.80	0.00250	77.74		1.85850%	41.55	
Sunday	05/16/21	11,195,136.80	-	-	804,863.20	804,863.20	11,195,136.80	0.00250	77.74		1.85850%	41.55	
Monday	05/17/21 05/18/21	11,195,136.80 11,195,136.80	-	-	804,863.20 804.863.20	804,863.20 804,863.20	11,195,136.80 11,195,136.80	0.00250 0.00250	77.74 77.74		1.85850% 1.85850%	41.55 41.55	
Tuesday Wednesday	05/18/21	11,195,136.80	-	-	804,863.20	804,863.20	11,195,136.80	0.00250	77.74		1.85850%	41.55	
Thursday	05/20/21	11,195,136.80	-	-	804,863.20	804,863.20	11,195,136.80	0.00250	77.74		1.85850%	41.55	
Friday	05/21/21	11,195,136.80	491,735.87	-	1,296,599.07	1,296,599.07	10,703,400.93	0.00250	74.33		1.85850%	66.94	
Saturday	05/22/21	10,703,400.93	-	-	1,296,599.07	1,296,599.07	10,703,400.93	0.00250	74.33		1.85850%	66.94	
Sunday	05/23/21	10,703,400.93	-	-	1,296,599.07	1,296,599.07	10,703,400.93	0.00250	74.33		1.85850%	66.94	
Monday	05/24/21	10,703,400.93	-	-	1,296,599.07	1,296,599.07	10,703,400.93	0.00250 0.00250	74.33 74.33		1.85850% 1.85850%	66.94 66.94	
Tuesday Wednesday	05/25/21 05/26/21	10,703,400.93 10,703,400.93	-	-	1,296,599.07 1,296,599.07	1,296,599.07 1,296,599.07	10,703,400.93 10,703,400.93	0.00250	74.33 74.33		1.85850%	66.94	
Thursday	05/27/21	10,703,400.93	-	-	1,296,599.07	1,296,599.07	10,703,400.93	0.00250	74.33		1.85850%	66.94	
Friday	05/28/21	10,703,400.93	-	-	1,296,599.07	1,296,599.07	10,703,400.93	0.00250	74.33		1.85850%	66.94	
Saturday	05/29/21	10,703,400.93	-	-	1,296,599.07	1,296,599.07	10,703,400.93	0.00250	74.33		1.85850%	66.94	
Sunday	05/30/21	10,703,400.93	-	-	1,296,599.07	1,296,599.07	10,703,400.93	0.00250	74.33		1.85850%	66.94	
Monday	05/31/21 06/01/21	10,703,400.93	-	-	1,296,599.07 1,296,599.07	1,296,599.07 1,296,599.07	10,703,400.93 10,703,400.93	0.00250 0.00250	74.33 74.33		1.85850% 1.85850%	66.94 66.94	\$ 2,372.50 \$ 1,567.34
Tuesday Wednesday	06/01/21	10,703,400.93	-	-	1,296,599.07	1,296,599.07	10,703,400.93	0.00250	74.33 74.33		1.85850%	66.94	
Thursday	06/03/21	10,703,400.93	-	-	1,296,599.07	1,296,599.07	10,703,400.93	0.00250	74.33		1.85850%	66.94	
Friday	06/04/21	10,703,400.93	-	-	1,296,599.07	1,296,599.07	10,703,400.93	0.00250	74.33		1.85850%	66.94	
Saturday	06/05/21	10,703,400.93	-	-	1,296,599.07	1,296,599.07	10,703,400.93	0.00250	74.33		1.85850%	66.94	
Sunday	06/06/21	10,703,400.93	-	-	1,296,599.07	1,296,599.07	10,703,400.93	0.00250	74.33		1.85850%	66.94	
Monday Tuesday	06/07/21 06/08/21	10,703,400.93 10,703,400.93	-	-	1,296,599.07 1,296,599.07	1,296,599.07 1,296,599.07	10,703,400.93 10,703,400.93	0.00250 0.00250	74.33 74.33		1.85850% 1.85850%	66.94 66.94	
Wednesday	06/08/21	10,703,400.93	-	-	1,296,599.07	1,296,599.07	10,703,400.93	0.00250	74.33		1.85850%	66.94	
Thursday	06/10/21	10,703,400.93	-	-	1,296,599.07	1,296,599.07	10,703,400.93	0.00250	74.33		1.85850%	66.94	
Friday	06/11/21	10,703,400.93	-	-	1,296,599.07	1,296,599.07	10,703,400.93	0.00250	74.33		1.85850%	66.94	
Saturday	06/12/21	10,703,400.93	-	-	1,296,599.07	1,296,599.07	10,703,400.93	0.00250	74.33		1.85850%	66.94	
Sunday	06/13/21	10,703,400.93	-	-	1,296,599.07	1,296,599.07	10,703,400.93	0.00250	74.33		1.85850%	66.94	
Monday Tuesday	06/14/21 06/15/21	10,703,400.93 10,703,400.93	-	-	1,296,599.07 1,296,599.07	1,296,599.07 1,296,599.07	10,703,400.93 10,703,400.93	0.00250 0.00250	74.33 74.33		1.85850% 1.85850%	66.94 66.94	
Wednesday	06/16/21	10,703,400.93	-	-	1,296,599.07	1,296,599.07	10,703,400.93	0.00250	74.33		1.85850%	66.94	
Thursday	06/17/21	10,703,400.93	779,736.18	-	2,076,335.25	2,076,335.25	9,923,664.75	0.00250	68.91		1.85850%	107.19	
Friday	06/18/21	9,923,664.75	-	-	2,076,335.25	2,076,335.25	9,923,664.75	0.00250	68.91		1.85850%	107.19	
Saturday	06/19/21	9,923,664.75	-	-	2,076,335.25	2,076,335.25	9,923,664.75	0.00250	68.91		1.85850%	107.19	
Sunday	06/20/21	9,923,664.75	-	-	2,076,335.25	2,076,335.25	9,923,664.75	0.00250	68.91		1.85850%	107.19	
Monday Tuesday	06/21/21 06/22/21	9,923,664.75 9,923,664.75	-	-	2,076,335.25 2,076,335.25	2,076,335.25 2,076,335.25	9,923,664.75 9,923,664.75	0.00250 0.00250	68.91 68.91		1.85850% 1.85850%	107.19 107.19	
Wednesday	06/23/21	9,923,664.75	-	-	2,076,335.25	2,076,335.25	9,923,664.75	0.00250	68.91		1.85850%		
Thursday	06/24/21	9,923,664.75	-	-	2,076,335.25	2,076,335.25	9,923,664.75	0.00250	68.91		1.85850%	107.19	
Friday	06/25/21	9,923,664.75	-	-	2,076,335.25	2,076,335.25	9,923,664.75	0.00250	68.91		1.85850%		
Saturday	06/26/21	9,923,664.75	-	-	2,076,335.25	2,076,335.25	9,923,664.75	0.00250	68.91		1.85850%	107.19	
Sunday Monday	06/27/21 06/28/21	9,923,664.75 9,923,664.75	-	-	2,076,335.25 2,076,335.25	2,076,335.25 2,076,335.25	9,923,664.75 9,923,664.75	0.00250 0.00250	68.91 68.91		1.85850% 1.85850%	107.19 107.19	
Tuesday	06/28/21	9,923,664.75	-	-	2,076,335.25	2,076,335.25	9,923,664.75	0.00250	68.91		1.85850%	107.19	
Wednesday	06/30/21	9,923,664.75	-	-	2,076,335.25	2,076,335.25	9,923,664.75	0.00250	68.91		1.85850%	107.19	\$ 2,154.07 \$ 2,571.70
Thursday	07/01/21	9,923,664.75	-	-	2,076,335.25	2,076,335.25	9,923,664.75	0.00250	68.91		1.85850%	107.19	
Friday	07/02/21	9,923,664.75	-	-	2,076,335.25	2,076,335.25	9,923,664.75	0.00250	68.91		1.85850%	107.19	
Saturday	07/03/21	9,923,664.75	-	-	2,076,335.25	2,076,335.25	9,923,664.75	0.00250	68.91		1.85850%		
Sunday	07/04/21 07/05/21	9,923,664.75 9,923,664.75	-	-	2,076,335.25 2,076,335.25	2,076,335.25 2,076,335.25	9,923,664.75 9,923,664.75	0.00250 0.00250	68.91 68.91		1.85850% 1.85850%	107.19 107.19	
Monday Tuesday	07/05/21	9,923,664.75	-	-	2,076,335.25	2,076,335.25	9,923,664.75	0.00250	68.91 68.91		1.85850% 1.85850%		
Wednesday	07/07/21	9,923,664.75	-	-	2,076,335.25	2,076,335.25	9,923,664.75	0.00250	68.91		1.85850%	107.19	
Thursday	07/08/21	9,923,664.75	-	-	2,076,335.25	2,076,335.25	9,923,664.75	0.00250	68.91		1.85850%	107.19	
Friday	07/09/21	9,923,664.75	-	-	2,076,335.25	2,076,335.25	9,923,664.75	0.00250	68.91		1.85850%	107.19	
Saturday	07/10/21	9,923,664.75	-	-	2,076,335.25	2,076,335.25	9,923,664.75	0.00250	68.91		1.85850%	107.19	
Sunday Monday	07/11/21 07/12/21	9,923,664.75 9,923,664.75	-	-	2,076,335.25 2,076,335.25	2,076,335.25 2,076,335.25	9,923,664.75 9,923,664.75	0.00250 0.00250	68.91 68.91		1.85850% 1.85850%	107.19 107.19	
ivioliuay	0//12/21	5,543,004./5	-	-	2,070,333.25	2,070,333.25	3,323,004.73	0.00250	08.91		1.65650%	107.19	

			Libor Rate Advances		1								
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Day of Week	Date	Beginning Balance - Availability	Advances	Payments	Total Amount Borrowed	Total Borrowed - All Advances	Ending Balance - Availability	Unused Fee %	Unused Fee Amount	check total	LIBOR + 1.75%	Interest Expense	Monthly Monthly Interest Unused Fee Expense
Tuesday	07/13/21	9,923,664.75	-	_	2,076,335.25	2,076,335.25	9,923,664.75	0.00250	68.91		1.85850%	107.19	
Wednesday	07/14/21	9,923,664.75	-	-	2,076,335.25	2,076,335.25	9,923,664.75	0.00250	68.91		1.85850%	107.19	
Thursday	07/15/21	9,923,664.75	830,000.00	-	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	
Friday	07/16/21	9,093,664.75	-	-	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	
Saturday	07/17/21	9,093,664.75	-	-	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	
Sunday Monday	07/18/21 07/19/21	9,093,664.75 9,093,664.75	-	-	2,906,335.25 2,906,335.25	2,906,335.25 2,906,335.25	9,093,664.75 9,093,664.75	0.00250 0.00250	63.15 63.15		1.85850% 1.85850%	150.04 150.04	
Tuesday	07/20/21	9,093,664.75	-	_	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	
Wednesday	07/21/21	9,093,664.75	-	-	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	
Thursday	07/22/21	9,093,664.75	-	-	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	
Friday	07/23/21	9,093,664.75	-	-	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	
Saturday	07/24/21	9,093,664.75	-	-	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	
Sunday Monday	07/25/21 07/26/21	9,093,664.75 9,093,664.75	-	-	2,906,335.25 2,906,335.25	2,906,335.25 2,906,335.25	9,093,664.75 9,093,664.75	0.00250 0.00250	63.15 63.15		1.85850% 1.85850%	150.04 150.04	
Tuesday	07/27/21	9.093.664.75	-	_	2,906,335,25	2,906,335.25	9.093.664.75	0.00250	63.15		1.85850%	150.04	
Wednesday	07/28/21	9,093,664.75	-	-	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	
Thursday	07/29/21	9,093,664.75		-	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	
Friday	07/30/21	9,093,664.75	-	-	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	
Saturday	07/31/21	9,093,664.75	-	-	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	\$ 2,038.36 \$ 4,051.34
Sunday	08/01/21	9,093,664.75	-	-	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	
Monday Tuesday	08/02/21 08/03/21	9,093,664.75 9,093,664.75	-	-	2,906,335.25 2,906,335.25	2,906,335.25 2,906,335.25	9,093,664.75 9,093,664.75	0.00250 0.00250	63.15 63.15		1.85850% 1.85850%	150.04 150.04	
Wednesday	08/04/21	9,093,664.75	-	-	2,906,335.25	2,906,335.25	9.093,664.75	0.00250	63.15		1.85850%	150.04	
Thursday	08/05/21	9,093,664.75		-	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	
Friday	08/06/21	9,093,664.75	-	-	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	
Saturday	08/07/21	9,093,664.75	-	-	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	
Sunday	08/08/21	9,093,664.75	-	-	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	
Monday	08/09/21	9,093,664.75	-	-	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	
Tuesday Wednesday	08/10/21 08/11/21	9,093,664.75 9,093,664.75	-	-	2,906,335.25 2,906,335.25	2,906,335.25 2,906,335.25	9,093,664.75 9,093,664.75	0.00250 0.00250	63.15 63.15		1.85850% 1.85850%	150.04 150.04	
Thursday	08/12/21	9,093,664.75	-	-	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	
Friday	08/13/21	9,093,664.75		-	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	
Saturday	08/14/21	9,093,664.75	-	-	2,906,335.25	2,906,335.25	9,093,664.75	0.00250	63.15		1.85850%	150.04	
Sunday	08/15/21	9,093,664.75	1,550,000.00	-	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850%	230.06	
Monday	08/16/21	7,543,664.75	-	-	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850%	230.06	
Tuesday	08/17/21	7,543,664.75	-	-	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39 52.39		1.85850%	230.06	
Wednesday Thursday	08/18/21 08/19/21	7,543,664.75 7,543,664.75	-	-	4,456,335.25 4,456,335.25	4,456,335.25 4,456,335.25	7,543,664.75 7,543,664.75	0.00250 0.00250	52.39 52.39		1.85850% 1.85850%	230.06 230.06	
Friday	08/20/21	7,543,664.75	-	_	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850%	230.06	
Saturday	08/21/21	7,543,664.75	-	-	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850%	230.06	
Sunday	08/22/21	7,543,664.75		-	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850%	230.06	
Monday	08/23/21	7,543,664.75	-	-	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850%	230.06	
Tuesday	08/24/21	7,543,664.75	-	-	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850%	230.06	
Wednesday	08/25/21 08/26/21	7,543,664.75	-	-	4,456,335.25	4,456,335.25 4,456,335.25	7,543,664.75	0.00250	52.39 52.39		1.85850% 1.85850%	230.06 230.06	
Thursday Friday	08/20/21	7,543,664.75 7,543,664.75		-	4,456,335.25 4,456,335.25	4,456,335.25	7,543,664.75 7,543,664.75	0.00250 0.00250	52.39		1.85850%	230.06	
Saturday	08/28/21	7,543,664.75	-	-	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850%	230.06	
Sunday	08/29/21	7,543,664.75	-	-	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850%	230.06	
Monday	08/30/21	7,543,664.75	-	-	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850%	230.06	
Tuesday	08/31/21	7,543,664.75	-	-	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850%	230.06	\$ 1,774.68 \$ 6,011.58
Wednesday	09/01/21	7,543,664.75	-	-	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850%	230.06	
Thursday Friday	09/02/21 09/03/21	7,543,664.75 7,543,664.75	-	-	4,456,335.25 4,456,335.25	4,456,335.25 4,456,335.25	7,543,664.75 7,543,664.75	0.00250 0.00250	52.39 52.39		1.85850% 1.85850%	230.06 230.06	
Saturday	09/03/21	7,543,664.75	-	-	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850%	230.06	
Sunday	09/05/21	7,543,664.75	-	-	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850%	230.06	
Monday	09/06/21	7,543,664.75	-	-	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850%	230.06	
Tuesday	09/07/21	7,543,664.75	-	-	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850%	230.06	
Wednesday	09/08/21	7,543,664.75	-	-	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850%	230.06	
Thursday	09/09/21	7,543,664.75	-	-	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850% 1.85850%	230.06 230.06	
Friday Saturday	09/10/21 09/11/21	7,543,664.75 7,543,664.75	-	-	4,456,335.25 4,456,335.25	4,456,335.25 4,456,335.25	7,543,664.75 7,543,664.75	0.00250 0.00250	52.39 52.39		1.85850% 1.85850%	230.06 230.06	
Sunday	09/11/21	7,543,664.75	-		4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850%	230.06	
Monday	09/13/21	7,543,664.75		-	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850%	230.06	
Tuesday	09/14/21	7,543,664.75	-	-	4,456,335.25	4,456,335.25	7,543,664.75	0.00250	52.39		1.85850%	230.06	
Wednesday	09/15/21	7,543,664.75	1,500,000.00	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Thursday	09/16/21	6,043,664.75	-	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	

			Li	ibor Rate Advance	s								
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Day of Week	Date	Beginning Balance -	Advances	Payments	Total Amount Borrowed	Total Borrowed - All Advances	Ending Balance - Availability	Unused Fee %	Unused Fee Amount	check total	LIBOR + 1.75%	Interest Expense	Monthly Monthly Interest Unused Fee Expense
		Availability			bonoweu	All Advances	Availability		Amount				Oliuseu Fee Expense
Friday	09/17/21	6,043,664.75	-	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Saturday	09/18/21	6,043,664.75	-	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Sunday	09/19/21	6,043,664.75	-	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Monday Tuesday	09/20/21 09/21/21	6,043,664.75 6,043,664.75	-	-	5,956,335.25 5,956,335.25	5,956,335.25 5,956,335.25	6,043,664.75 6,043,664.75	0.00250 0.00250	41.97 41.97		1.85850% 1.85850%	307.50 307.50	
Wednesday	09/21/21	6,043,664.75	-		5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Thursday	09/23/21	6,043,664.75	-	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Friday	09/24/21	6,043,664.75	-	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Saturday	09/25/21	6,043,664.75	-	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Sunday	09/26/21	6,043,664.75	-	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Monday	09/27/21	6,043,664.75	-	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Tuesday Wednesday	09/28/21 09/29/21	6,043,664.75 6,043,664.75	-	-	5,956,335.25 5,956,335.25	5,956,335.25 5,956,335.25	6,043,664.75 6,043,664.75	0.00250 0.00250	41.97 41.97		1.85850% 1.85850%	307.50 307.50	
Thursday	09/30/21	6,043,664.75	-	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	\$ 1,404.93 \$ 8,140.84
Friday	10/01/21	6,043,664.75	-	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Saturday	10/02/21	6,043,664.75	-	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Sunday	10/03/21	6,043,664.75	-	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Monday	10/04/21	6,043,664.75	-	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Tuesday	10/05/21	6,043,664.75	-	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Wednesday	10/06/21	6,043,664.75	-	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Thursday Friday	10/07/21 10/08/21	6,043,664.75 6,043,664.75	-	-	5,956,335.25	5,956,335.25 5,956,335.25	6,043,664.75 6,043,664.75	0.00250 0.00250	41.97 41.97		1.85850% 1.85850%	307.50 307.50	
Saturday	10/08/21	6,043,664.75	-	-	5,956,335.25 5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Sunday	10/10/21	6,043,664.75	-	_	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Monday	10/11/21	6,043,664.75	-	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Tuesday	10/12/21	6,043,664.75	-	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Wednesday	10/13/21	6,043,664.75	-	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Thursday	10/14/21	6,043,664.75	-	-	5,956,335.25	5,956,335.25	6,043,664.75	0.00250	41.97		1.85850%	307.50	
Friday	10/15/21	6,043,664.75	2,200,000.00	-	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Saturday	10/16/21 10/17/21	3,843,664.75 3,843,664.75	-	-	8,156,335.25 8,156,335.25	8,156,335.25 8,156,335.25	3,843,664.75 3,843,664.75	0.00250 0.00250	26.69 26.69		1.85850% 1.85850%	421.07 421.07	
Sunday Monday	10/17/21	3,843,664.75	-	-	8,156,335.25 8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Tuesday	10/19/21	3,843,664.75	_	_	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Wednesday	10/20/21	3,843,664.75	-	-	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Thursday	10/21/21	3,843,664.75	-	-	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Friday	10/22/21	3,843,664.75	-	-	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Saturday	10/23/21	3,843,664.75	-	-	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Sunday	10/24/21	3,843,664.75	-	-	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Monday Tuesday	10/25/21 10/26/21	3,843,664.75 3,843,664.75	-	-	8,156,335.25 8,156,335.25	8,156,335.25 8,156,335.25	3,843,664.75 3,843,664.75	0.00250 0.00250	26.69 26.69		1.85850% 1.85850%	421.07 421.07	
Wednesday	10/27/21	3,843,664.75	_	_	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Thursday	10/28/21	3,843,664.75	-	-	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Friday	10/29/21	3,843,664.75	-	-	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Saturday	10/30/21	3,843,664.75	-	-	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Sunday	10/31/21	3,843,664.75	-	-	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	\$ 1,041.34 \$ 11,463.19
Monday	11/01/21	3,843,664.75	-	-	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Tuesday Wednesday	11/02/21 11/03/21	3,843,664.75 3,843,664.75	-	-	8,156,335.25 8,156,335.25	8,156,335.25 8,156,335.25	3,843,664.75 3,843,664.75	0.00250 0.00250	26.69 26.69		1.85850% 1.85850%	421.07 421.07	
Thursday	11/04/21	3,843,664.75		-	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Friday	11/05/21	3,843,664.75	_	_	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Saturday	11/06/21	3,843,664.75	-	-	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Sunday	11/07/21	3,843,664.75	-	-	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Monday	11/08/21	3,843,664.75	-	-	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Tuesday	11/09/21	3,843,664.75	-	-	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Wednesday	11/10/21	3,843,664.75	-	-	8,156,335.25	8,156,335.25 8,156,335.25	3,843,664.75	0.00250 0.00250	26.69 26.69		1.85850% 1.85850%	421.07 421.07	
Thursday Friday	11/11/21 11/12/21	3,843,664.75 3,843,664.75	-	-	8,156,335.25 8,156,335.25	8,156,335.25 8,156,335.25	3,843,664.75 3,843,664.75	0.00250	26.69 26.69		1.85850% 1.85850%	421.07 421.07	
Saturday	11/13/21	3,843,664.75	-	-	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Sunday	11/14/21	3,843,664.75	-	-	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Monday	11/15/21	3,843,664.75	-	-	8,156,335.25	8,156,335.25	3,843,664.75	0.00250	26.69		1.85850%	421.07	
Tuesday	11/16/21	3,843,664.75	800,000.00	-	8,956,335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%	462.37	
Wednesday	11/17/21	3,043,664.75	-	-	8,956,335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%	462.37	
Thursday	11/18/21	3,043,664.75	-	-	8,956,335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%	462.37	
Friday Saturday	11/19/21 11/20/21	3,043,664.75 3,043,664.75	-	-	8,956,335.25 8,956,335.25	8,956,335.25 8,956,335.25	3,043,664.75 3,043,664.75	0.00250 0.00250	21.14 21.14		1.85850% 1.85850%	462.37 462.37	
Saturday	11/21/21	3,043,664.75	-	-	8,956,335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%	462.37	
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			Libor Rate Advances											
		Beginning												
Day of Week	Date	Balance - Availability	Advances	Payments	Total Amount Borrowed	Total Borrowed - All Advances	Ending Balance - Availability	Unused Fee %	Unused Fee Amount	check total	LIBOR + 1.75%	Interest Expense	Monthly Unused Fee	Monthly Interest Expense
Monday	11/22/21	3,043,664.75	-	-	8,956,335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%	462.37		
Tuesday	11/23/21	3,043,664.75	-	-	8,956,335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%			
Wednesday	11/24/21	3,043,664.75	-	-	8,956,335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%	462.37		
Thursday	11/25/21	3,043,664.75	-	-	8,956,335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%	462.37		
Friday Saturday	11/26/21 11/27/21	3,043,664.75 3,043,664.75	-	-	8,956,335.25 8,956,335.25	8,956,335.25 8,956,335.25	3,043,664.75 3,043,664.75	0.00250 0.00250	21.14 21.14		1.85850% 1.85850%	462.37 462.37		
Sunday	11/28/21	3,043,664.75	-	-	8,956,335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%	462.37		
Monday	11/29/21	3,043,664.75		-	8,956,335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%	462.37		
Tuesday	11/30/21	3,043,664.75	-	-	8,956,335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%	462.37	\$ 717.4	3 \$ 13,251.60
Wednesday	12/01/21	3,043,664.75	-	-	8,956,335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%	462.37		
Thursday	12/02/21	3,043,664.75	-	-	8,956,335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%	462.37		
Friday	12/03/21	3,043,664.75	-	-	8,956,335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%			
Saturday Sunday	12/04/21 12/05/21	3,043,664.75 3,043,664.75	-	-	8,956,335.25 8,956,335.25	8,956,335.25 8,956,335.25	3,043,664.75 3,043,664.75	0.00250 0.00250	21.14 21.14		1.85850% 1.85850%	462.37 462.37		
Monday	12/05/21	3.043.664.75	-	-	8.956.335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%	462.37		
Tuesday	12/07/21	3,043,664.75	-	-	8,956,335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%	462.37		
Wednesday	12/08/21	3,043,664.75	-	-	8,956,335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%	462.37		
Thursday	12/09/21	3,043,664.75	-	-	8,956,335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%	462.37		
Friday	12/10/21	3,043,664.75	-	-	8,956,335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%	462.37		
Saturday	12/11/21	3,043,664.75	-	-	8,956,335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%			
Sunday	12/12/21	3,043,664.75	-	-	8,956,335.25	8,956,335.25	3,043,664.75	0.00250	21.14		1.85850%	462.37		
Monday Tuesday	12/13/21 12/14/21	3,043,664.75 3.043.664.75	-	-	8,956,335.25 8,956,335.25	8,956,335.25 8,956,335.25	3,043,664.75 3,043,664.75	0.00250 0.00250	21.14 21.14		1.85850% 1.85850%	462.37 462.37		
Wednesday	12/15/21	3,043,664.75	800.000.00	_	9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Thursday	12/16/21	2,243,664.75	-	-	9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Friday	12/17/21	2,243,664.75	-	-	9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Saturday	12/18/21	2,243,664.75	-	-	9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Sunday	12/19/21	2,243,664.75	-	-	9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Monday	12/20/21	2,243,664.75	-	-	9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Tuesday Wednesday	12/21/21 12/22/21	2,243,664.75 2,243,664.75	-	-	9,756,335.25 9,756,335.25	9,756,335.25 9,756,335.25	2,243,664.75 2,243,664.75	0.00250 0.00250	15.58 15.58		1.85850% 1.85850%	503.67 503.67		
Thursday	12/23/21	2,243,664.75	_	_	9.756.335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Friday	12/24/21	2,243,664.75	-	-	9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Saturday	12/25/21	2,243,664.75	-	-	9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Sunday	12/26/21	2,243,664.75	-	-	9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Monday	12/27/21	2,243,664.75	-	-	9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Tuesday	12/28/21	2,243,664.75	-	-	9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Wednesday Thursday	12/29/21 12/30/21	2,243,664.75 2,243,664.75	-	-	9,756,335.25 9,756,335.25	9,756,335.25 9,756,335.25	2,243,664.75 2,243,664.75	0.00250 0.00250	15.58 15.58		1.85850% 1.85850%	503.67 503.67		
Friday	12/31/21	2,243,664.75	-		9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67	\$ 560.7	9 \$ 15,035.57
Saturday	01/01/22	2,243,664.75	-		9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Sunday	01/02/22	2,243,664.75	-	-	9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Monday	01/03/22	2,243,664.75	-	-	9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Tuesday	01/04/22	2,243,664.75	-	-	9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Wednesday	01/05/22	2,243,664.75	-	-	9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Thursday Friday	01/06/22 01/07/22	2,243,664.75 2.243.664.75	-	-	9,756,335.25 9,756,335.25	9,756,335.25 9,756,335.25	2,243,664.75 2,243,664.75	0.00250 0.00250	15.58 15.58		1.85850% 1.85850%	503.67 503.67		
Saturday	01/07/22	2,243,664.75			9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Sunday	01/09/22	2,243,664.75		-	9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%			
Monday	01/10/22	2,243,664.75	-	-	9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Tuesday	01/11/22	2,243,664.75	-	-	9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Wednesday	01/12/22	2,243,664.75	-	-	9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Thursday	01/13/22	2,243,664.75	-	-	9,756,335.25	9,756,335.25	2,243,664.75	0.00250	15.58		1.85850%	503.67		
Friday	01/14/22 01/15/22	2,243,664.75	807.865.00	-	9,756,335.25	9,756,335.25 10,564,200.25	2,243,664.75 1,435,799.75	0.00250 0.00250	15.58 9.97		1.85850% 1.85850%	503.67 545.38		
Saturday Sunday	01/15/22	2,243,664.75 1,435,799.75	807,865.00	-	10,564,200.25 10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38 545.38		
Monday	01/16/22	1,435,799.75			10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%			
Tuesday	01/18/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%			
Wednesday	01/19/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Thursday	01/20/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Friday	01/21/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Saturday	01/22/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Sunday Monday	01/23/22 01/24/22	1,435,799.75 1,435,799.75	-	-	10,564,200.25 10,564,200.25	10,564,200.25 10,564,200.25	1,435,799.75 1,435,799.75	0.00250 0.00250	9.97 9.97		1.85850% 1.85850%	545.38 545.38		
Tuesday	01/24/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Wednesday	01/26/22	1,435,799.75	-	_	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%			
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			ı	ibor Rate Advance	s									
Day of Week	Date	Beginning Balance - Availability	Advances	Payments	Total Amount Borrowed	Total Borrowed - All Advances	Ending Balance - Availability	Unused Fee %	Unused Fee Amount	check total	LIBOR + 1.75%	Interest Expense	Monthly Unused Fee	Monthly Interest Expense
Thursday	01/27/22	·			10 564 300 35	10 504 300 35	1 425 700 75	0.00350	0.07		1.00000/	E4E 20		
Thursday Friday	01/27/22 01/28/22	1,435,799.75 1,435,799.75	-	-	10,564,200.25 10,564,200.25	10,564,200.25 10,564,200.25	1,435,799.75 1,435,799.75	0.00250 0.00250	9.97 9.97		1.85850% 1.85850%	545.38 545.38		
Saturday	01/29/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Sunday	01/30/22	1,435,799.75	_	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Monday	01/31/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38	\$ 387.0	64 \$ 16,322.84
Tuesday	02/01/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Wednesday	02/02/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Thursday	02/03/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Friday	02/04/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Saturday	02/05/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Sunday	02/06/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Monday	02/07/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Tuesday	02/08/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Wednesday	02/09/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Thursday Fridav	02/10/22 02/11/22	1,435,799.75 1,435,799.75	-	-	10,564,200.25 10,564,200.25	10,564,200.25 10,564,200.25	1,435,799.75	0.00250 0.00250	9.97 9.97		1.85850% 1.85850%	545.38 545.38		
Saturday	02/11/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75 1,435,799.75	0.00250	9.97		1.85850%	545.38 545.38		
Sunday	02/12/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Monday	02/13/22	1,435,799.75			10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Tuesday	02/15/22	1,435,799.75			10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Wednesday	02/16/22	1,435,799,75			10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Thursday	02/17/22	1,435,799.75		_	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Friday	02/18/22	1,435,799.75	_	_	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Saturday	02/19/22	1,435,799.75	_	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Sunday	02/20/22	1,435,799.75	_	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Monday	02/21/22	1,435,799.75		-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Tuesday	02/22/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Wednesday	02/23/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Thursday	02/24/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Friday	02/25/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Saturday	02/26/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Sunday	02/27/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Monday	02/28/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38	\$ 279.:	18 \$ 15,270.64
Tuesday	03/01/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Wednesday	03/02/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Thursday	03/03/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Friday	03/04/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Saturday	03/05/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Sunday	03/06/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Monday	03/07/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Tuesday Wednesday	03/08/22 03/09/22	1,435,799.75 1,435,799.75	-	-	10,564,200.25 10,564,200.25	10,564,200.25 10,564,200.25	1,435,799.75 1,435,799.75	0.00250 0.00250	9.97 9.97		1.85850% 1.85850%	545.38 545.38		
Wednesday Thursday	03/09/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38 545.38		
Friday	03/10/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38 545.38		
Saturday	03/11/22	1,435,799.75			10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Sunday	03/13/22	1,435,799.75	_	_	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Monday	03/14/22	1,435,799.75	_	_	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Tuesday	03/15/22	1,435,799.75	_	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Wednesday	03/16/22	1,435,799.75		-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Thursday	03/17/22	1,435,799.75		-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Friday	03/18/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Saturday	03/19/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Sunday	03/20/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Monday	03/21/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Tuesday	03/22/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Wednesday	03/23/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Thursday	03/24/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Friday	03/25/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Saturday	03/26/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Sunday	03/27/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Monday	03/28/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Tuesday	03/29/22 03/30/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25 10,564,200.25	1,435,799.75	0.00250 0.00250	9.97		1.85850%	545.38		
Wednesday Thursday	03/30/22 03/31/22	1,435,799.75 1,435,799.75	-	-	10,564,200.25 10,564,200.25	10,564,200.25 10,564,200.25	1,435,799.75 1,435,799.75	0.00250 0.00250	9.97 9.97		1.85850% 1.85850%	545.38 545.38	\$ 200	10 \$ 16,906.78
Friday	03/31/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38	y 303	7 10,500.78
Saturday	04/01/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38 545.38		
Sucuracy	0-1,02,122	1,-33,133.13			10,554,200.25	10,504,200.25	1,-00,100.10	0.00230	3.31		1.0505070	545.50		

			Libor Rate Advances											
Day of Week	Date	Beginning Balance - Availability	Advances	Payments	Total Amount Borrowed	Total Borrowed - All Advances	Ending Balance - Availability	Unused Fee %	Unused Fee Amount	check total	LIBOR + 1.75%	Interest Expense	onthly I	Monthly Interest Expense
Sunday	04/03/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38		
Monday	04/04/22	1,435,799.75	-	-	10,564,200.25	10,564,200.25	1,435,799.75	0.00250	9.97		1.85850%	545.38	\$ 39.88	2,181.52
Tuesday	04/05/22													
Wednesday	04/06/22													
Thursday	04/07/22											Projected Total FALOC payments -	\$ 15,479.80	112,899.59
Friday	04/08/22													
Saturday	04/09/22												\$	128,379.39
Sunday	04/10/22													
Monday	04/11/22													
Tuesday	04/12/22													