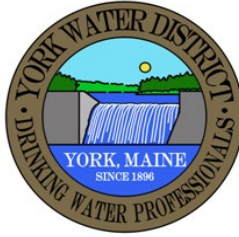


### Trustees

Richard Leigh, President  
Russell A. Peterson, Treasurer  
Karen Arsenault, Clerk  
Stephen C. Rendall Jr., Trustee  
Richard E. Boston, Trustee



86 Woodbridge Road  
York, Maine 03909  
Telephone: (207) 363-2265  
Fax: (207) 363-7338  
[www.yorkwaterdistrict.org](http://www.yorkwaterdistrict.org)

### Administration

Donald D. Neumann Jr., Superintendent  
Gary E. Stevens, Asst. Superintendent  
Patrick M. Desrosiers, Financial Manager  
Ryan Lynch, Treatment Plant Manager

**Posted September 14, 2022**

LEGAL NOTICE -- The monthly meeting of the York Water District Board of Trustees will be held remotely at 2:00 pm on Wednesday, September 21, 2022, as per the district's remote meeting policy. Members of the public that wish to participate, please send a request to [customerservice@yorkwaterdistrict.org](mailto:customerservice@yorkwaterdistrict.org) by 12:00 pm on the day of the meeting. Staff will provide an invite by email ten minutes prior to the meeting.

### AGENDA

1. The President will call the meeting to order.
2. See what action the Board will take after a review of the minutes of the Board Meeting held on August 17, 2022.
3. Invitation for Public Comment.  
*Because time is limited, the Board will give York WD ratepayers and York property owners priority for presenting public comments.*  
*Comments by everyone will be limited to 3 minutes. All comments will be directed to the Board President and are required to be civil, respectful, and relevant to the York Water District.*  
*For those who were not provided an adequate opportunity to provide oral comments, they are free to submit written comments. Those comments should be sent to [customerservice@yorkwaterdistrict.org](mailto:customerservice@yorkwaterdistrict.org)*
4. Financial Manager will present the Board of Trustees with monthly budgetary reports and income statements for review and discussion.
5. Auditors of RKO will provide an overview audited financial statements.
6. See what action the Board will take on a proposal to complete a water age hydraulic modeling project.
7. Staff will provide an update on drought conditions and the water transfer to KKWWD.
8. Joe Dignam & John Jacobs will provide an update regarding Lead & Copper testing and revisions.
9. Staff will provide an update on District Operations.
10. General Discussion
11. Adjourn.

Respectfully Submitted,

Donald D. Neumann, Jr.  
Superintendent

DATE: 9/14/2022  
TIME: 1:25:09PM

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|------------------------------------|-----------------------------|------------------|-----------------|-------------------|--------------|----------------------------------|
| <b>ABBOTT BROTHERS</b>             |                             |                  |                 |                   |              |                                  |
| 1                                  | ABBOTT BROTHERS             | 29927            | 380.00          | 08/18/2022        | 17764        | FILL MATERIALS - 210 MOUNTAIN RD |
|                                    |                             |                  | <b>380.00</b>   |                   |              |                                  |
| <b>Advanced Communications Ser</b> |                             |                  |                 |                   |              |                                  |
| 348                                | Advanced Communications Ser | 6010403          | 287.50          | 08/18/2022        | 17765        | SERVICE CALL - IT SUPPORT        |
| 348                                | Advanced Communications Ser | 6010410          | 470.00          | 08/11/2022        | 17740        | MONTHLY CYBER REPORTING          |
| 348                                | Advanced Communications Ser | 6010569          | 470.00          | 09/08/2022        | 17825        | MONTHLY CYBER REPORTING          |
|                                    |                             |                  | <b>1,227.50</b> |                   |              |                                  |
| <b>AHM - NORTHERN LIGHT DRUG</b>   |                             |                  |                 |                   |              |                                  |
| 210                                | AHM - NORTHERN LIGHT DR     | 58523            | 64.00           | 08/25/2022        | 17789        | RANDOM DRUG TESTING              |
|                                    |                             |                  | <b>64.00</b>    |                   |              |                                  |
| <b>AMERICAN SECURITY ALARM</b>     |                             |                  |                 |                   |              |                                  |
| 598                                | AMERICAN SECURITY ALARM     | 147998           | 3,676.00        | 08/11/2022        | 17741        | SECURITY SYSTEM INSTALLATION     |
| 598                                | AMERICAN SECURITY ALARM     | 148376           | 297.00          | 08/18/2022        | 17766        | SERVICE CALL - PLANT             |
|                                    |                             |                  | <b>3,973.00</b> |                   |              |                                  |
| <b>APPROVED FIRE PROTECTION</b>    |                             |                  |                 |                   |              |                                  |
| 1,024                              | APPROVED FIRE PROTECTIO     | IN00072166       | 118.00          | 08/11/2022        | 17742        | BUMP GAS                         |
|                                    |                             |                  | <b>118.00</b>   |                   |              |                                  |
| <b>AT&amp;T</b>                    |                             |                  |                 |                   |              |                                  |
| 168                                | AT&T                        | 0207374976001    | 37.52           | 08/18/2022        | 17767        | LONG DISTANCE - PLANT            |
|                                    |                             |                  | <b>37.52</b>    |                   |              |                                  |
| <b>Bartlett &amp; Brillon LLC</b>  |                             |                  |                 |                   |              |                                  |
| 60                                 | Bartlett & Brillon LLC      | ME8294MR         | 364.45          | 08/11/2022        | 17743        | PLANT MATERIALS                  |
|                                    |                             |                  | <b>364.45</b>   |                   |              |                                  |
| <b>BATTERIES PLUS</b>              |                             |                  |                 |                   |              |                                  |
| 1,687                              | BATTERIES PLUS              | P54323946        | 493.08          | 08/31/2022        | 17806        | UPS BATTERIES                    |
| 1,687                              | BATTERIES PLUS              | P54597863        | 317.01          | 09/08/2022        | 17826        | UPS BATTERIES                    |
|                                    |                             |                  | <b>810.09</b>   |                   |              |                                  |
| <b>CARDMEMBER SERVICE</b>          |                             |                  |                 |                   |              |                                  |
| 1,264                              | CARDMEMBER SERVICE          | 1618817 08/22    | 8,779.79        | 08/18/2022        | 17768        | AUGUST CREDIT CARD ACTIVITY      |
|                                    |                             |                  | <b>8,779.79</b> |                   |              |                                  |
| <b>CARUS CORPORATION</b>           |                             |                  |                 |                   |              |                                  |
| 1,385                              | CARUS CORPORATION           | SLS 10102396     | 7,107.34        | 08/18/2022        | 17769        | 6380 LBS BLENDED PHOSPHATE       |
|                                    |                             |                  | <b>7,107.34</b> |                   |              |                                  |
| <b>Central Maine Power</b>         |                             |                  |                 |                   |              |                                  |
| 24                                 | Central Maine Power         | 35010715726 08   | 20.16           | 08/18/2022        | 17770        | POWER - LIGHT AT POND            |
| 24                                 | Central Maine Power         | 35011336332 08   | 438.78          | 08/25/2022        | 17790        | POWER - RTE 1 NORTH PS           |
| 24                                 | Central Maine Power         | 35012087900 08   | 32.13           | 08/18/2022        | 17770        | POWER - SIMPSON HILL TANK        |
| 24                                 | Central Maine Power         | 35012909699 08   | 22.00           | 08/18/2022        | 17770        | POWER - RPO GARAGE               |
| 24                                 | Central Maine Power         | 35012922080 08   | 108.07          | 08/25/2022        | 17790        | POWER - WHITE PINE PS            |

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| 24              | Central Maine Power | 35012966749 08   | 647.32          | 08/18/2022        | 17770        | POWER - SCREENHOUSE/AERATION SYSTE |
| 24              | Central Maine Power | 35012969180 08   | 5,410.48        | 08/18/2022        | 17770        | POWER - TREATMENT PLANT            |
| 24              | Central Maine Power | 35013404708 08   | 107.94          | 08/25/2022        | 17790        | POWER - RTE 1 SOUTH PS             |
| 24              | Central Maine Power | 35015157361 08   | 389.31          | 08/25/2022        | 17790        | POWER - WHIPPOORWILL PS            |
| 24              | Central Maine Power | 35015205897 08   | 116.18          | 08/18/2022        | 17770        | POWER - RPO                        |
| 24              | Central Maine Power | 35015396233 08   | 22.91           | 08/18/2022        | 17770        | POWER - LIGHT BEHIND SHOP          |
| 24              | Central Maine Power | 35016940278 08   | 35.29           | 08/25/2022        | 17790        | POWER - HEIGHTS TANK               |
| 24              | Central Maine Power | 35016960912 08   | 20.16           | 08/25/2022        | 17790        | POWER - HEAT TAPE                  |
| 24              | Central Maine Power | 35017139011      | 718.94          | 08/18/2022        | 17770        | POWER - OFFICE/SHOP                |
|                 |                     |                  | <b>8,089.67</b> |                   |              |                                    |

**CHAMPAGNE'S ENERGY**

|     |                    |        |                 |            |       |                                     |
|-----|--------------------|--------|-----------------|------------|-------|-------------------------------------|
| 647 | CHAMPAGNE'S ENERGY | 138726 | 149.00          | 08/11/2022 | 17744 | SITE VISIT                          |
| 647 | CHAMPAGNE'S ENERGY | 272080 | 28.53           | 08/11/2022 | 17744 | 16.0 GAL PROPANE - OFFICE/SHOP      |
| 647 | CHAMPAGNE'S ENERGY | 272081 | 398.68          | 08/11/2022 | 17744 | 223.6 GAL PROPANE - WHIPPOORWILL PS |
| 647 | CHAMPAGNE'S ENERGY | 272082 | 47.07           | 08/11/2022 | 17744 | 26.4 GAL PROPANE - MT A             |
| 647 | CHAMPAGNE'S ENERGY | 272083 | 710.35          | 08/11/2022 | 17744 | 398.4 GAL PROPANE - WHITE PINE PS   |
| 647 | CHAMPAGNE'S ENERGY | 272084 | 399.57          | 08/11/2022 | 17744 | 224.1 GAL PROPANE SCREENHOUSE       |
| 647 | CHAMPAGNE'S ENERGY | 272085 | 14.80           | 08/11/2022 | 17744 | 8.3 GAL PROPANE - RPO               |
|     |                    |        | <b>1,748.00</b> |            |       |                                     |

**CHARLES BLACK**

|       |               |            |               |            |       |                                   |
|-------|---------------|------------|---------------|------------|-------|-----------------------------------|
| 1,638 | CHARLES BLACK | 07/28/2022 | 104.00        | 08/31/2022 | 17807 | TEST FEE REIMBURSEMENT - C. BLACK |
|       |               |            | <b>104.00</b> |            |       |                                   |

**CHARTER COMMUNICATIONS**

|     |                        |               |                 |            |       |                           |
|-----|------------------------|---------------|-----------------|------------|-------|---------------------------|
| 344 | CHARTER COMMUNICATIONS | 1406178010821 | 149.98          | 08/31/2022 | 17808 | INTERNET FOR TANK CAMERAS |
| 344 | CHARTER COMMUNICATIONS | 1422436010807 | 239.98          | 08/18/2022 | 17771 | INTERNET FOR TANK CAMERA  |
| 344 | CHARTER COMMUNICATIONS | 1425335010807 | 672.62          | 08/18/2022 | 17771 | MONTHLY CABLE & INTERNET  |
|     |                        |               | <b>1,062.58</b> |            |       |                           |

**COMMUNICATIONS FACILITIES**

|     |                           |      |               |            |       |                               |
|-----|---------------------------|------|---------------|------------|-------|-------------------------------|
| 338 | COMMUNICATIONS FACILITIES | 1793 | 250.00        | 08/31/2022 | 17809 | MONTHLY TOWER SITE INSPECTION |
|     |                           |      | <b>250.00</b> |            |       |                               |

**CONSOLIDATED COMMUNICATIONS**

|    |                             |                |               |            |       |                         |
|----|-----------------------------|----------------|---------------|------------|-------|-------------------------|
| 75 | CONSOLIDATED COMMUNICATIONS | 117944052542 ( | 194.65        | 08/25/2022 | 17791 | INTERNET FOR TOWER      |
| 75 | CONSOLIDATED COMMUNICATIONS | 2073636101536  | 156.48        | 08/11/2022 | 17745 | MONTHLY SCADA MESSAGING |
| 75 | CONSOLIDATED COMMUNICATIONS | 2073636101536  | 156.45        | 09/08/2022 | 17827 | MONTHLY SCADA MESSAGING |
|    |                             |                | <b>507.58</b> |            |       |                         |

**DIGGER'S EXCAVATING**

|     |                     |     |                  |            |       |                             |
|-----|---------------------|-----|------------------|------------|-------|-----------------------------|
| 494 | DIGGER'S EXCAVATING | 17A | 1,750.50         | 09/08/2022 | 17828 | 2022 MANAGEMENT ROAD REPAIR |
| 494 | DIGGER'S EXCAVATING | 17B | 1,215.00         | 09/08/2022 | 17828 | RED CROSS OVER TRAIL WORK   |
| 494 | DIGGER'S EXCAVATING | 17C | 9,302.50         | 09/08/2022 | 17828 | EXCAVATING - RED MGMT ROAD  |
|     |                     |     | <b>12,268.00</b> |            |       |                             |

**DREW, ANN MARIE**

|       |                 |       |        |            |       |                       |
|-------|-----------------|-------|--------|------------|-------|-----------------------|
| 1,688 | DREW, ANN MARIE | 29577 | 134.99 | 08/31/2022 | 17810 | UB 3663 5 PAUL STREET |
|-------|-----------------|-------|--------|------------|-------|-----------------------|

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|                             |                          |                | 134.99    |            |       |                                    |
| Eldredge Lumber             |                          |                |           |            |       |                                    |
| 38                          | Eldredge Lumber          | 529175         | 45.96     | 08/11/2022 | 17746 | RPO SUPPLIES                       |
| 38                          | Eldredge Lumber          | 529372         | 10.89     | 08/11/2022 | 17746 | SHOP SUPPLIES                      |
| 38                          | Eldredge Lumber          | 531059         | 2.69      | 08/11/2022 | 17746 | SHOP SUPPLIES                      |
| 38                          | Eldredge Lumber          | 532890         | 95.21     | 08/18/2022 | 17772 | HYDRANT MAINT MATERIALS            |
| 38                          | Eldredge Lumber          | 533280         | 75.33     | 08/18/2022 | 17772 | SHOP SUPPLIES                      |
| 38                          | Eldredge Lumber          | 533474         | 15.06     | 08/25/2022 | 17792 | SHOP SUPPLIES                      |
| 38                          | Eldredge Lumber          | 534094         | 21.58     | 08/25/2022 | 17792 | SHOP SUPPLIES                      |
| 38                          | Eldredge Lumber          | 534248         | 51.00     | 08/25/2022 | 17792 | PLANT MAINT MATERIALS              |
| 38                          | Eldredge Lumber          | 534642         | 84.15     | 08/25/2022 | 17792 | SHOP SUPPLIES                      |
| 38                          | Eldredge Lumber          | 535199         | 76.94     | 08/31/2022 | 17811 | SHOP SUPPLIES                      |
| 38                          | Eldredge Lumber          | 536888         | 4.30      | 09/08/2022 | 17829 | SHOP SUPPLIES                      |
| 38                          | Eldredge Lumber          | 537581         | 50.01     | 09/08/2022 | 17829 | RPO SUPPLIES                       |
|                             |                          |                | 533.12    |            |       |                                    |
| Everett J. Prescott, Inc    |                          |                |           |            |       |                                    |
| 113                         | Everett J. Prescott, Inc | 6043647        | 2,183.58  | 08/31/2022 | 17812 | STOCK                              |
| 113                         | Everett J. Prescott, Inc | 6043648        | 5,924.00  | 08/31/2022 | 17812 | GATE BOX ORDER                     |
| 113                         | Everett J. Prescott, Inc | 6044428        | 5,016.14  | 08/11/2022 | 17747 | METER STOCK - MOORHOUSE            |
| 113                         | Everett J. Prescott, Inc | 6047488        | 463.86    | 08/31/2022 | 17812 | 24 OCEAN BREEZE - CHAISSON         |
| 113                         | Everett J. Prescott, Inc | 6049164        | 5,776.70  | 08/11/2022 | 17747 | ALPHA & MACRO CPLGS                |
| 113                         | Everett J. Prescott, Inc | 6049166        | 4,457.34  | 08/31/2022 | 17812 | STOCK                              |
| 113                         | Everett J. Prescott, Inc | 6051000        | 89.09     | 08/31/2022 | 17812 | STOCK - HIGH STREET                |
| 113                         | Everett J. Prescott, Inc | 6051001        | 352.26    | 08/11/2022 | 17747 | MJ FITTINGS & GRIP RINGS           |
| 113                         | Everett J. Prescott, Inc | 6058277        | 1,000.00  | 08/25/2022 | 17793 | STOCK                              |
|                             |                          |                | 25,262.97 |            |       |                                    |
| FIELDING'S OIL & PROPANE CC |                          |                |           |            |       |                                    |
| 988                         | FIELDING'S OIL & PROPANE | 4112952        | 65.06     | 08/11/2022 | 17748 | 15.5 GAL HEATING OIL - OFFICE/SHOP |
| 988                         | FIELDING'S OIL & PROPANE | 4114175        | 194.36    | 08/11/2022 | 17748 | 44.1 GAL DIESEL                    |
| 988                         | FIELDING'S OIL & PROPANE | 4119720        | 591.44    | 08/18/2022 | 17773 | 134.2 GAL DIESEL                   |
| 988                         | FIELDING'S OIL & PROPANE | 4122172        | 323.05    | 08/25/2022 | 17794 | 73.3 GAL DIESEL                    |
| 988                         | FIELDING'S OIL & PROPANE | 4123531        | 581.31    | 08/31/2022 | 17813 | 131.9 GAL DIESEL                   |
|                             |                          |                | 1,755.22  |            |       |                                    |
| FISHER-JAMES                |                          |                |           |            |       |                                    |
| 1,188                       | FISHER-JAMES             | 820630         | 720.00    | 08/11/2022 | 17749 | 5 DRAWER LATERAL FILE              |
|                             |                          |                | 720.00    |            |       |                                    |
| GAMMON LAWCARE & LANDS      |                          |                |           |            |       |                                    |
| 1,615                       | GAMMON LAWCARE & LANI    | 2414           | 3,125.00  | 09/08/2022 | 17830 | AUGUST MOWING                      |
| 1,615                       | GAMMON LAWCARE & LANI    | 2415           | 3,125.00  | 09/08/2022 | 17830 | SEPT MOWING                        |
|                             |                          |                | 6,250.00  |            |       |                                    |
| GROUP DYNAMIC INC           |                          |                |           |            |       |                                    |
| 1,086                       | GROUP DYNAMIC INC        | L2209-01600084 | 212.55    | 08/25/2022 | 17795 | MONTHLY FSA & HRA ADMIN FEE        |

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|                                      |                            |                  | <b>212.55</b>    |                   |              |                                     |
| <b>Hach Chemical</b>                 |                            |                  |                  |                   |              |                                     |
| 66                                   | Hach Chemical              | 13162788         | 131.61           | 08/11/2022        | 17750        | LAB CONSUMABLES                     |
| 66                                   | Hach Chemical              | 13168434         | 153.44           | 08/11/2022        | 17750        | LAB CONSUMABLES                     |
| 66                                   | Hach Chemical              | 13197983         | 493.39           | 09/08/2022        | 17831        | LAB CONSUMABLES                     |
| 66                                   | Hach Chemical              | 13201211         | 394.24           | 09/08/2022        | 17831        | LAB CONSUMABLES                     |
| 66                                   | Hach Chemical              | 13206782         | 571.40           | 08/31/2022        | 17814        | LAB CONSUMABLES                     |
|                                      |                            |                  | <b>1,744.08</b>  |                   |              |                                     |
| <b>HARCROS CHEMICALS,INC</b>         |                            |                  |                  |                   |              |                                     |
| 579                                  | HARCROS CHEMICALS,INC      | 300168576        | 3,056.40         | 08/11/2022        | 17751        | 1800 GAL SODIUM HYPOCHLORITE        |
| 579                                  | HARCROS CHEMICALS,INC      | 300168597        | 3,160.50         | 08/11/2022        | 17751        | 10750 LBS SODIUM CARBONATE          |
|                                      |                            |                  | <b>6,216.90</b>  |                   |              |                                     |
| <b>HARRISON LUCAS</b>                |                            |                  |                  |                   |              |                                     |
| 1,291                                | HARRISON LUCAS             | 08/10/2022       | 225.00           | 08/18/2022        | 17774        | 2022 BOOT ALLOWANCE - H. LUCUS      |
|                                      |                            |                  | <b>225.00</b>    |                   |              |                                     |
| <b>KYOCERA</b>                       |                            |                  |                  |                   |              |                                     |
| 1,202                                | KYOCERA                    | 55L2230272       | 73.24            | 08/11/2022        | 17754        | MONTHLY CHARGES - OFFICE/SHOP PRINT |
| 1,202                                | KYOCERA                    | 55L2249959       | 66.35            | 08/25/2022        | 17797        | MONTHLY OFFICE/SHOP COPIER FEE      |
|                                      |                            |                  | <b>139.59</b>    |                   |              |                                     |
| <b>Maine Employers Mutual</b>        |                            |                  |                  |                   |              |                                     |
| 33                                   | Maine Employers Mutual     | 1810083766 08/   | 4,273.75         | 08/18/2022        | 17775        | QUARTERLY WORKERS COMP INSURANCE    |
|                                      |                            |                  | <b>4,273.75</b>  |                   |              |                                     |
| <b>Maine Municipal Emp Health Tr</b> |                            |                  |                  |                   |              |                                     |
| 85                                   | Maine Municipal Emp Health | 37496 09/22      | 38,318.45        | 08/18/2022        | 17776        | SEPT HEALTH INSURANCE               |
|                                      |                            |                  | <b>38,318.45</b> |                   |              |                                     |
| <b>Maine Water Utilities</b>         |                            |                  |                  |                   |              |                                     |
| 148                                  | Maine Water Utilities      | 2003535          | 245.00           | 08/18/2022        | 17777        | MWUA SEMINAR - 4 STAFF              |
|                                      |                            |                  | <b>245.00</b>    |                   |              |                                     |
| <b>MARK P. CARTIER, MD</b>           |                            |                  |                  |                   |              |                                     |
| 1,561                                | MARK P. CARTIER, MD        | 08/11/2022       | 125.00           | 08/11/2022        | 17752        | 2022 CHART REVIEW                   |
|                                      |                            |                  | <b>125.00</b>    |                   |              |                                     |
| <b>NATIONAL PEN CO. LLC</b>          |                            |                  |                  |                   |              |                                     |
| 1,418                                | NATIONAL PEN CO. LLC       | 112763136        | 53.90            | 08/31/2022        | 17815        | PEN ORDER                           |
|                                      |                            |                  | <b>53.90</b>     |                   |              |                                     |
| <b>NELSON ANALYTICAL LLC</b>         |                            |                  |                  |                   |              |                                     |
| 587                                  | NELSON ANALYTICAL LLC      | 222080244        | 120.00           | 08/18/2022        | 17778        | ROUTINE BACTERIA SAMPLES            |
| 587                                  | NELSON ANALYTICAL LLC      | 222080253        | 15.00            | 08/25/2022        | 17796        | SAMPLE - GULF HILL                  |
| 587                                  | NELSON ANALYTICAL LLC      | 222080591        | 105.00           | 08/31/2022        | 17816        | ROUTINE BACTERIA SAMPLING           |
| 587                                  | NELSON ANALYTICAL LLC      | 222080655        | 750.00           | 08/31/2022        | 17816        | LEAD & COPPER SAMPLING              |
| 587                                  | NELSON ANALYTICAL LLC      | 222080724        | 15.00            | 09/08/2022        | 17832        | SAMPLE - GULF HILL                  |
| 587                                  | NELSON ANALYTICAL LLC      | 222080770        | 15.00            | 09/08/2022        | 17832        | SAMPLE - GULF HILL                  |

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| 587                         | NELSON ANALYTICAL LLC    | 222080783  | 1,140.00  | 09/08/2022 | 17832 | RAW WATER MONITORING             |
| 587                         | NELSON ANALYTICAL LLC    | 222080944  | 30.00     | 09/08/2022 | 17832 | SAMPLE - HIGH ST                 |
|                             |                          |            | 2,190.00  |            |       |                                  |
| NEW ENGLAND TRAFFIC CONTI   |                          |            |           |            |       |                                  |
| 606                         | NEW ENGLAND TRAFFIC COI  | 213599     | 1,053.00  | 08/18/2022 | 17779 | FLAGGERS                         |
|                             |                          |            | 1,053.00  |            |       |                                  |
| Northeast Hydraulics        |                          |            |           |            |       |                                  |
| 268                         | Northeast Hydraulics     | 80845      | 217.44    | 08/11/2022 | 17753 | SHOP SUPPLIES                    |
| 268                         | Northeast Hydraulics     | 80889      | 144.52    | 08/18/2022 | 17780 | VEHICLE MAINT MATERIALS          |
|                             |                          |            | 361.96    |            |       |                                  |
| PACE ANALYTICAL SERVICES, L |                          |            |           |            |       |                                  |
| 1,648                       | PACE ANALYTICAL SERVICES | 22H0622-57 | 263.08    | 08/31/2022 | 17817 | PFAS SAMPLING                    |
| 1,648                       | PACE ANALYTICAL SERVICES | 22H0625-57 | 618.48    | 08/31/2022 | 17817 | PFAS SAMPING                     |
|                             |                          |            | 881.56    |            |       |                                  |
| Pike Industries Inc.        |                          |            |           |            |       |                                  |
| 464                         | Pike Industries Inc.     | 1194301    | 3,002.22  | 08/11/2022 | 17755 | FILL MATERIAL - RED MGMT ROAD    |
| 464                         | Pike Industries Inc.     | 1194832    | 936.57    | 08/11/2022 | 17755 | FILL MATERIALS - RED MGMT ROAD   |
| 464                         | Pike Industries Inc.     | 1196070    | 3,787.81  | 08/18/2022 | 17781 | FILL MATERIALS - RED MGMT RD     |
| 464                         | Pike Industries Inc.     | 1197174    | 5,075.37  | 08/25/2022 | 17798 | FILL MATERIALS - WATERSHED       |
| 464                         | Pike Industries Inc.     | 1198174    | 1,364.09  | 08/25/2022 | 17798 | FILL MATERIALS- RED TRAIL        |
| 464                         | Pike Industries Inc.     | 1199362    | 816.80    | 08/31/2022 | 17818 | FILL MATERIALS - MGMT ROAD MAINT |
| 464                         | Pike Industries Inc.     | 11998687   | 2,983.94  | 08/31/2022 | 17818 | FILL MATERIALS - MGMT ROAD MAINT |
|                             |                          |            | 17,966.80 |            |       |                                  |
| Portland Plastic Pipe       |                          |            |           |            |       |                                  |
| 101                         | Portland Plastic Pipe    | 236031     | 1,699.05  | 08/11/2022 | 17756 | ALUM CHEMICAL LINE REPAIR        |
| 101                         | Portland Plastic Pipe    | 236034     | 468.56    | 08/18/2022 | 17782 | ALUM CHEMICAL LINE REPAIR        |
| 101                         | Portland Plastic Pipe    | 236478     | 602.28    | 08/31/2022 | 17819 | CHEMICAL SYSTEM MAINTENANCE      |
| 101                         | Portland Plastic Pipe    | 236479     | 165.26    | 09/08/2022 | 17833 | CHEMICAL SYSTEM MAINTENANCE      |
|                             |                          |            | 2,935.15  |            |       |                                  |
| ROBBINS AUTO PARTS          |                          |            |           |            |       |                                  |
| 931                         | ROBBINS AUTO PARTS       | 460-227032 | 617.52    | 08/18/2022 | 17783 | VEHICLE MAINT MATERIALS          |
| 931                         | ROBBINS AUTO PARTS       | 460-227404 | 221.23    | 08/31/2022 | 17820 | VEHICLE MAINT MATERIALS          |
|                             |                          |            | 838.75    |            |       |                                  |
| RUNYON KERSTEEN OUELLETTI   |                          |            |           |            |       |                                  |
| 509                         | RUNYON KERSTEEN OUELLE   | 43537      | 2,500.00  | 08/18/2022 | 17784 | FINAL PAYMENT 2021 AUDIT         |
|                             |                          |            | 2,500.00  |            |       |                                  |
| S. APGAR TRUCKING           |                          |            |           |            |       |                                  |
| 1,167                       | S. APGAR TRUCKING        | 08/05/2022 | 3,430.00  | 08/11/2022 | 17757 | TRUCK TIME - RED MGMT RD         |
| 1,167                       | S. APGAR TRUCKING        | 08/13/2022 | 2,572.50  | 08/18/2022 | 17785 | TRUCK TIME - WATERSHED           |
| 1,167                       | S. APGAR TRUCKING        | 08/18/2022 | 1,750.00  | 08/31/2022 | 17821 | TRUCK TIME - MGMT ROAD MAINT     |
| 1,167                       | S. APGAR TRUCKING        | 7/19/2022  | 192.50    | 08/11/2022 | 17757 | TRUCK TIME - RED MGMT RD         |

DATE: 9/14/2022  
TIME: 1:25:09PM

**York Water District**  
**INVOICE LIST**  
**FOR CHECKS FROM 8/11/2022 TO 9/10/2022**

PAGE: 6

| Vendor #                   | Vendor Name                | Invoice #  | Amount    | Check Date | CHK # | Description                   |
|----------------------------|----------------------------|------------|-----------|------------|-------|-------------------------------|
|                            |                            |            | 7,945.00  |            |       |                               |
| SPEAR STREAM CONSULTING    |                            |            |           |            |       |                               |
| 1,555                      | SPEAR STREAM CONSULTING    | 08/12/2022 | 1,200.00  | 08/18/2022 | 17786 | TIMBER HARVEST REVIEW         |
|                            |                            |            | 1,200.00  |            |       |                               |
| STILES COMPANY, INC        |                            |            |           |            |       |                               |
| 1,390                      | STILES COMPANY, INC        | 300813     | 622.80    | 08/11/2022 | 17758 | STOCK                         |
| 1,390                      | STILES COMPANY, INC        | 300814     | 2,074.46  | 08/11/2022 | 17758 | STOCK                         |
| 1,390                      | STILES COMPANY, INC        | 301014     | 528.00    | 08/25/2022 | 17799 | COPPER & CTS                  |
| 1,390                      | STILES COMPANY, INC        | 301070     | 3,237.97  | 08/25/2022 | 17799 | SERVICE BRASS                 |
| 1,390                      | STILES COMPANY, INC        | 301117     | 2,915.28  | 08/25/2022 | 17799 | SERVICE BRASS                 |
| 1,390                      | STILES COMPANY, INC        | 301118     | 198.89    | 08/25/2022 | 17799 | STOCK                         |
| 1,390                      | STILES COMPANY, INC        | 301321     | 1,145.30  | 09/08/2022 | 17834 | SERVICE BRASS                 |
|                            |                            |            | 10,722.70 |            |       |                               |
| SULLIVAN ASSOCIATES        |                            |            |           |            |       |                               |
| 832                        | SULLIVAN ASSOCIATES        | 40769      | 1,487.65  | 08/18/2022 | 17787 | CONSUMABLES: PROBES/SENSORS   |
|                            |                            |            | 1,487.65  |            |       |                               |
| SULLIVAN'S TIRE PORTSMOUTH |                            |            |           |            |       |                               |
| 144                        | SULLIVAN'S TIRE PORTSMOUTH | K58299     | 1,083.96  | 08/11/2022 | 17759 | TRUCK TIRES                   |
|                            |                            |            | 1,083.96  |            |       |                               |
| Treasurer State of Maine   |                            |            |           |            |       |                               |
| 201                        | Treasurer State of Maine   | 08/25/2022 | 25.00     | 08/25/2022 | 17800 | HIGHWAY OPENING PERMIT        |
|                            |                            |            | 25.00     |            |       |                               |
| TYLER TECHNOLOGIES, INC.   |                            |            |           |            |       |                               |
| 330                        | TYLER TECHNOLOGIES, INC.   | 045-389605 | 12,677.27 | 08/25/2022 | 17801 | QUARTERLY MUNIS CONTRACT      |
| 330                        | TYLER TECHNOLOGIES, INC.   | 045-389606 | 4,654.87  | 08/25/2022 | 17801 | ANNUAL TCM SUPPORT CONTRACT   |
|                            |                            |            | 17,332.14 |            |       |                               |
| UNIVAR USA, INC            |                            |            |           |            |       |                               |
| 585                        | UNIVAR USA, INC            | 50512467   | 3,124.83  | 09/08/2022 | 17835 | 2452 GAL CAUSTIC SODA         |
|                            |                            |            | 3,124.83  |            |       |                               |
| VERIZON WIRELESS           |                            |            |           |            |       |                               |
| 836                        | VERIZON WIRELESS           | 9913912686 | 832.70    | 08/31/2022 | 17822 | MONTHLY CELL PHONES & TABLETS |
| 836                        | VERIZON WIRELESS           | 9913912687 | 610.61    | 08/31/2022 | 17822 | MONTHLY ONE-TALK CHARGES      |
|                            |                            |            | 1,443.31  |            |       |                               |
| VERRILL                    |                            |            |           |            |       |                               |
| 128                        | VERRILL                    | 605020     | 1,461.50  | 08/25/2022 | 17802 | LEGAL - PROPERTY DISPUTE      |
| 128                        | VERRILL                    | 605021     | 477.00    | 08/25/2022 | 17802 | LEGAL - PROPERTY DISPUTE      |
|                            |                            |            | 1,938.50  |            |       |                               |
| W.B.MASON, INC.            |                            |            |           |            |       |                               |
| 532                        | W.B.MASON, INC.            | 231587441  | 107.32    | 08/11/2022 | 17760 | OFFICE SUPPLIES               |
| 532                        | W.B.MASON, INC.            | 231971365  | 253.04    | 08/25/2022 | 17803 | OFFICE SUPPLIES               |

DATE: 9/14/2022  
TIME: 1:25:09PM

**York Water District**  
**INVOICE LIST**  
**FOR CHECKS FROM 8/11/2022 TO 9/10/2022**

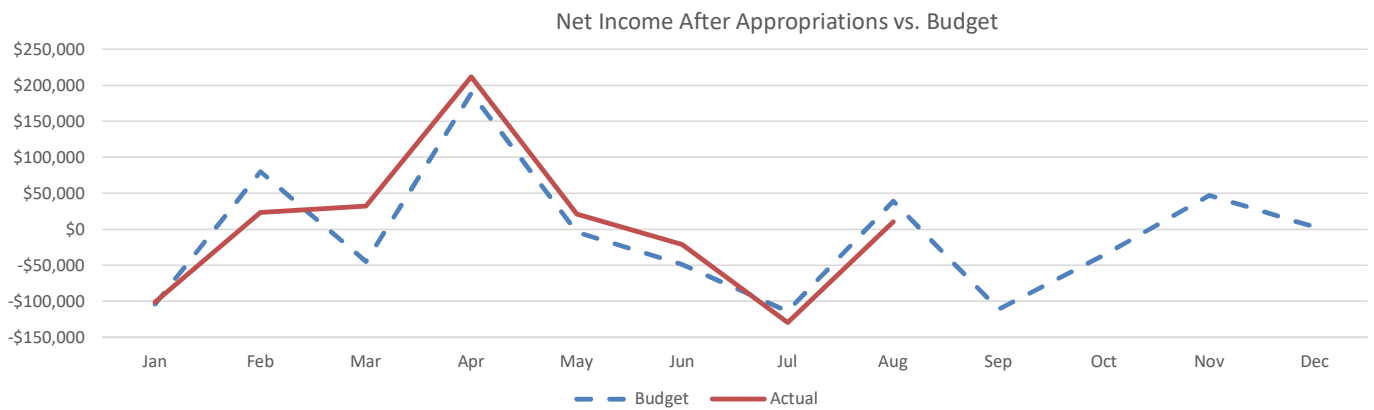
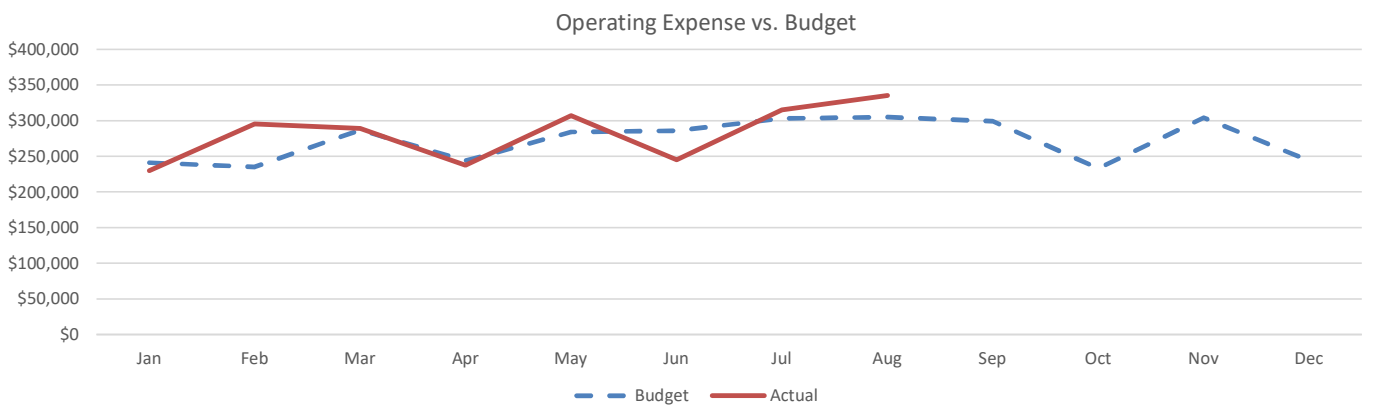
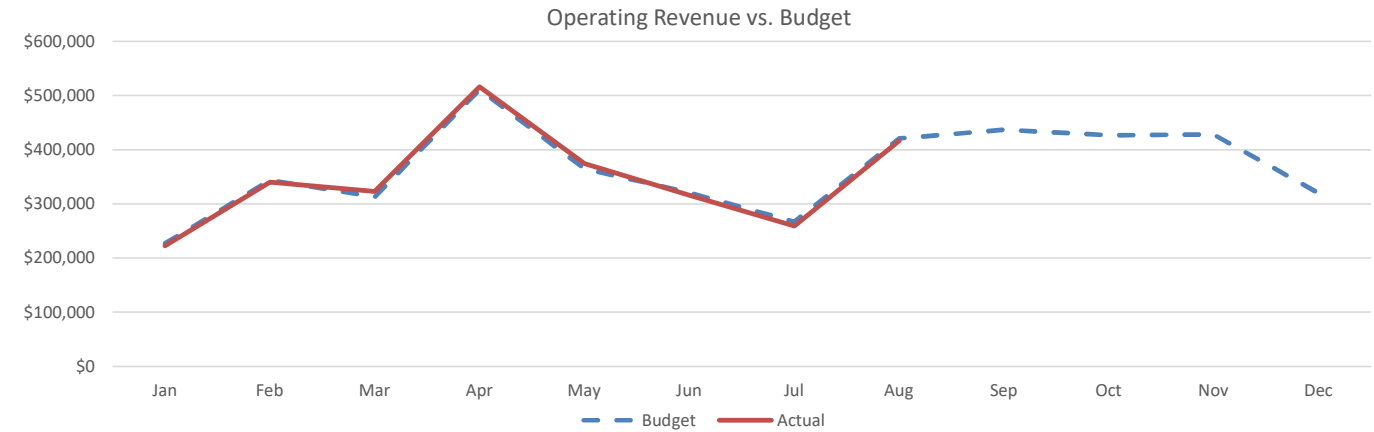
PAGE: 7

| <u>Vendor #</u>                  | <u>Vendor Name</u>       | <u>Invoice #</u> | <u>Amount</u>    | <u>Check Date</u> | <u>CHK #</u> | <u>Description</u>               |
|----------------------------------|--------------------------|------------------|------------------|-------------------|--------------|----------------------------------|
|                                  |                          |                  | <b>360.36</b>    |                   |              |                                  |
| <b>W.W. Grainger CO. Inc.</b>    |                          |                  |                  |                   |              |                                  |
| 65                               | W.W. Grainger CO. Inc.   | 9334457463       | 53.83            | 08/25/2022        | 17804        | TANK MAINT MATERIALS             |
| 65                               | W.W. Grainger CO. Inc.   | 9394144423       | 15.79            | 08/11/2022        | 17761        | PLANT MATERIALS                  |
| 65                               | W.W. Grainger CO. Inc.   | 9395587158       | 200.91           | 08/18/2022        | 17788        | PLANT MATERIALS                  |
| 65                               | W.W. Grainger CO. Inc.   | 9398503707       | 89.23            | 08/18/2022        | 17788        | SHOP SUPPLIES                    |
| 65                               | W.W. Grainger CO. Inc.   | 9406220625       | 155.85           | 08/25/2022        | 17804        | PANTS                            |
| 65                               | W.W. Grainger CO. Inc.   | 9415758680       | 36.60            | 08/31/2022        | 17823        | PLANT MAINT MATERIALS            |
| 65                               | W.W. Grainger CO. Inc.   | 9420829393       | 111.08           | 09/08/2022        | 17836        | SHOP SUPPLIES                    |
| 65                               | W.W. Grainger CO. Inc.   | 9420829401       | 31.94            | 09/08/2022        | 17836        | SHOP SUPPLIES                    |
| 65                               | W.W. Grainger CO. Inc.   | 9422584962       | 173.63           | 09/08/2022        | 17836        | PLANT MATERIALS                  |
| 65                               | W.W. Grainger CO. Inc.   | 9422584970       | 147.60           | 09/08/2022        | 17836        | SHOP MATERIALS                   |
| 65                               | W.W. Grainger CO. Inc.   | 9423245191       | 110.26           | 09/08/2022        | 17836        | SHOP SUPPLIES                    |
|                                  |                          |                  | <b>1,126.72</b>  |                   |              |                                  |
| <b>WARREN'S OFFICE SUPPLIES</b>  |                          |                  |                  |                   |              |                                  |
| 1,391                            | WARREN'S OFFICE SUPPLIES | 508717-01        | 25.43            | 08/25/2022        | 17805        | OFFICE SUPPLIES                  |
|                                  |                          |                  | <b>25.43</b>     |                   |              |                                  |
| <b>WES-TECH ENGINEERING, LLC</b> |                          |                  |                  |                   |              |                                  |
| 1,067                            | WES-TECH ENGINEERING, LI | 87888            | 7,451.53         | 08/31/2022        | 17824        | AC CLARIFIER MEDIA               |
|                                  |                          |                  | <b>7,451.53</b>  |                   |              |                                  |
| <b>WEX BANK</b>                  |                          |                  |                  |                   |              |                                  |
| 1,415                            | WEX BANK                 | 83472330         | 1,542.26         | 09/08/2022        | 17837        | MONTHLY FLEET GAS                |
|                                  |                          |                  | <b>1,542.26</b>  |                   |              |                                  |
| <b>WIN WASTE INNOVATIONS OF</b>  |                          |                  |                  |                   |              |                                  |
| 1,666                            | WIN WASTE INNOVATIONS (  | 23-0000196272    | 226.56           | 08/11/2022        | 17762        | DUMPSTER SERVICE                 |
|                                  |                          |                  | <b>226.56</b>    |                   |              |                                  |
| <b>Wright-Pierce</b>             |                          |                  |                  |                   |              |                                  |
| 137                              | Wright-Pierce            | 222146           | 4,926.26         | 09/08/2022        | 17838        | ENGINEERING - 1000 US RTE 1      |
| 137                              | Wright-Pierce            | 222150           | 6,112.39         | 08/11/2022        | 17763        | ENGINEERING - BATHYMETRIC SURVEY |
| 137                              | Wright-Pierce            | 222724           | 438.15           | 09/08/2022        | 17838        | ENGINEERING - 1000 US RTE 1      |
| 137                              | Wright-Pierce            | 222727           | 2,294.81         | 09/08/2022        | 17838        | BATHYMETRIC SURVEY               |
|                                  |                          |                  | <b>13,771.61</b> |                   |              |                                  |

WARRANT TOTAL:

**232,636**

**York Water District**  
**Monthly Operating Revenue, Expense & Net Income**



**Bank Statement Balances**

As of September 7, 2022

| <u>Account</u>             | <u>Balance</u> | <u>Account</u>           | <u>Balance</u> |
|----------------------------|----------------|--------------------------|----------------|
| Operating                  | \$2,446,933.47 | Watershed                | \$285,246.34   |
| System Development         | \$87,584.53    | Customer Advance         | \$430,443.20   |
| Reserved for Tank Painting | \$ 951,395.00  |                          |                |
| Operating Reserve          | \$1,583,123.00 | % of Recommended Reserve | 130%           |

**York Water District  
Income Statement  
For the Month Ending August 31, 2022**

**Operating Revenue**

▼ (\$4,100)

**Operating Expense**

▲ \$30,339

**Net Income/(Loss)**

▼ (\$28,346)

|                                        | <u>Actual</u>    | <u>Budget</u>    | <u>Variance</u>    | <u>Total Budget</u> | <u>Variance vs.<br/>Tot. Budget</u> |
|----------------------------------------|------------------|------------------|--------------------|---------------------|-------------------------------------|
| Residential Metered Sales              | \$ 229,265       | \$ 234,000       | \$ (4,735)         | \$ 2,548,000        | 0%                                  |
| Commercial Metered Sales               | 53,753           | 57,000           | (3,247)            | 499,000             | -1%                                 |
| Governmental Metered Sales             | 15,792           | 14,000           | 1,792              | 88,000              | 2%                                  |
| Public & Private Fire Protection       | 116,105          | 114,000          | 2,105              | 1,238,000           | 0%                                  |
| Other Operating Revenue                | 1,985            | 2,000            | (15)               | 17,000              | 0%                                  |
| <b>Total Operating Revenue</b>         | <b>416,900</b>   | <b>421,000</b>   | <b>(4,100)</b>     | <b>4,390,000</b>    | <b>0%</b>                           |
| Salaries & Wages                       | 140,923          | 141,000          | (77)               | 1,589,000           | 0%                                  |
| Employee Benefits                      | 63,666           | 67,000           | (3,334)            | 727,000             | 0%                                  |
| Purchased Power & Water                | 8,090            | 8,000            | 90                 | 79,000              | 0%                                  |
| Chemicals                              | 16,449           | 7,000            | 9,449              | 69,000              | 14%                                 |
| Materials & Supplies                   | 34,291           | 26,000           | 8,291              | 224,000             | 4%                                  |
| Contracted Services                    | 59,427           | 44,000           | 15,427             | 394,000             | 4%                                  |
| Transportation Expense                 | 4,760            | 3,000            | 1,760              | 43,000              | 4%                                  |
| Insurance                              | 5,816            | 5,000            | 816                | 56,000              | 1%                                  |
| Other Miscellaneous Expenses           | 1,917            | 4,000            | (2,083)            | 83,000              | -3%                                 |
| <b>Total Operating Expense</b>         | <b>335,339</b>   | <b>305,000</b>   | <b>30,339</b>      | <b>3,264,000</b>    | <b>1%</b>                           |
| Depreciation & Amortization Expense    | 83,615           | 84,000           | (385)              | 1,008,000           | 0%                                  |
| Net Non-Operating Income               | 29,787           | 24,000           | 5,787              | 327,000             | 2%                                  |
| Debt Service                           | 8,719            | 9,000            | (281)              | 491,000             | 0%                                  |
| Tank Painting Contribution             | 8,360            | 8,000            | 360                | 100,000             | 0%                                  |
| <b>Net Income After Appropriations</b> | <b>\$ 10,654</b> | <b>\$ 39,000</b> | <b>\$ (28,346)</b> | <b>\$ (146,000)</b> |                                     |

Four chemical purchases in August.

Quarterly Munis bill was budgeted in September but paid in August.

**York Water District  
Income Statement  
For the Eight Months Ending August 31, 2022**

**Operating Revenue**

▼ **(\$7,227)**

**Operating Expense**

▲ **\$71,804**

**Net Income/(Loss)**

▲ **\$46,319**

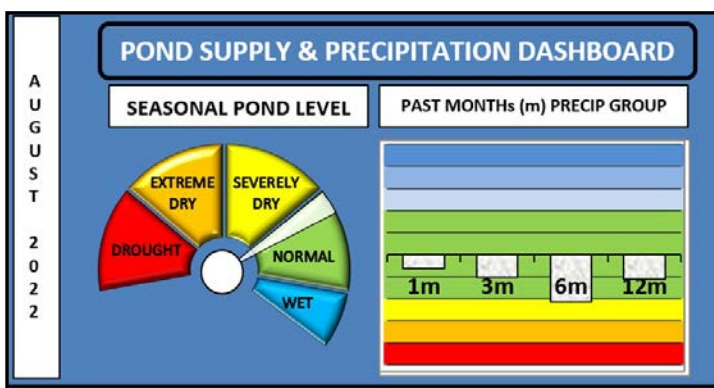
|                                        | <u>Actual</u>    | <u>Budget</u>    | <u>Variance</u>  | <u>Total Budget</u> | <u>Variance vs.<br/>Tot. Budget</u> |                                                                                                                                                                           |
|----------------------------------------|------------------|------------------|------------------|---------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Residential Metered Sales              | \$ 1,575,092     | \$ 1,606,000     | \$ (30,908)      | \$ 2,548,000        | -1%                                 |                                                                                                                                                                           |
| Commercial Metered Sales               | 283,110          | 273,000          | 10,110           | 499,000             | 2%                                  |                                                                                                                                                                           |
| Governmental Metered Sales             | 60,569           | 59,000           | 1,569            | 88,000              | 2%                                  |                                                                                                                                                                           |
| Public & Private Fire Protection       | 834,528          | 828,000          | 6,528            | 1,238,000           | 1%                                  |                                                                                                                                                                           |
| Other Operating Revenue                | 15,474           | 10,000           | 5,474            | 17,000              | 32%                                 | Recorded water sold to KKW in 2021.                                                                                                                                       |
| <b>Total Operating Revenue</b>         | <b>2,768,773</b> | <b>2,776,000</b> | <b>(7,227)</b>   | <b>4,390,000</b>    | <b>0%</b>                           |                                                                                                                                                                           |
| Salaries & Wages                       | 1,026,062        | 1,003,000        | 23,062           | 1,589,000           | 1%                                  |                                                                                                                                                                           |
| Employee Benefits                      | 515,124          | 512,000          | 3,124            | 727,000             | 0%                                  |                                                                                                                                                                           |
| Purchased Power & Water                | 53,759           | 51,000           | 2,759            | 79,000              | 3%                                  | There has been an increase in some chemical pricing. Timing of purchases is also a factor.                                                                                |
| Chemicals                              | 65,730           | 49,000           | 16,730           | 69,000              | 24%                                 |                                                                                                                                                                           |
| Materials & Supplies                   | 191,217          | 137,000          | 54,217           | 224,000             | 24%                                 | Incurred \$26,000 in expenses for projects that were included in the 2021. A few unplanned purchases also occurred. Gas and diesel prices have been higher than expected. |
| Contracted Services                    | 270,814          | 295,000          | (24,186)         | 394,000             | -6%                                 |                                                                                                                                                                           |
| Transportation Expense                 | 32,454           | 29,000           | 3,454            | 43,000              | 8%                                  |                                                                                                                                                                           |
| Insurance                              | 38,191           | 37,000           | 1,191            | 56,000              | 2%                                  |                                                                                                                                                                           |
| Other Miscellaneous Expenses           | 61,453           | 70,000           | (8,547)          | 83,000              | -10%                                |                                                                                                                                                                           |
| <b>Total Operating Expense</b>         | <b>2,254,804</b> | <b>2,183,000</b> | <b>71,804</b>    | <b>3,264,000</b>    | <b>2%</b>                           |                                                                                                                                                                           |
| Depreciation & Amortization Expense    | 668,920          | 669,000          | (80)             | 1,008,000           | 0%                                  |                                                                                                                                                                           |
| Net Non-Operating Income               | 374,278          | 249,000          | 125,278          | 327,000             | 38%                                 | Higher than expected income from System Development Charges. Lump sum payment from AT&T.                                                                                  |
| Debt Service                           | 106,128          | 106,000          | 128              | 491,000             | 0%                                  |                                                                                                                                                                           |
| Tank Painting Contribution             | 66,880           | 67,000           | (120)            | 100,000             | 0%                                  |                                                                                                                                                                           |
| <b>Net Income After Appropriations</b> | <b>\$ 46,319</b> | <b>\$ -</b>      | <b>\$ 46,319</b> | <b>\$ (146,000)</b> |                                     |                                                                                                                                                                           |

| YEAR | System Total^(MG) | Water Transfers* | Pond Level-Feet (Assessment) | Precipitation (Assessment) |
|------|-------------------|------------------|------------------------------|----------------------------|
| 2022 | 65.8              | -2.6 KKW         | -2.1 (Low Normal w/ KWD)     | 2.6" (Low Normal)          |
| 2021 | 58.4              | -3.5 KKW         | 0.0 (Very Wet)               | 3.9" (Normal)              |
| 2020 | 62.2              | -2.5 KKW         | -3.2 (Drought)               | 2.5" (Low Normal)          |
| 2019 | 54.6              | 0                | -1.5 (Normal)                | 5.2" (Very Wet)            |

\* Water Transfers= District & amount (in MG) transferred at interconnection. ^ Total system Demand excluding transfer.

## TREATMENT REPORT

By: Ryan Lynch



In July, we received 2.6 inches of precipitation which is below our average of 3.4 for the month. 2.6 is in the low-normal range. We are still suffering from continuing small monthly deficits which continue to compound over the long-term. You will notice that the 6 month precipitation indicator has fallen into the yellow which is 'Severely Dry'.

The seasonal pond level is in the green (good), at -2.1 feet below the splashboard/full. It is below the average but still a low-normal. This is an artificially high level however, due to the raw water transfers from Kittery Folly Pond. Chase's Pond otherwise would be at a 'Severely Dry' level more than a half foot lower. Fortunately, we are at the end of the high demand season. Through September, system demand drops significantly to the point that we can maintain pond level with around normal precipitation and even gain with a little above normal. By the end of September, we are no longer withdrawing a large daily amount of water from pond storage. Looking at NOAA's seasonal outlook for Maine, it still predicts normal precipitation, but we will continue to keep a close eye on rainfall.

### Inside this issue:

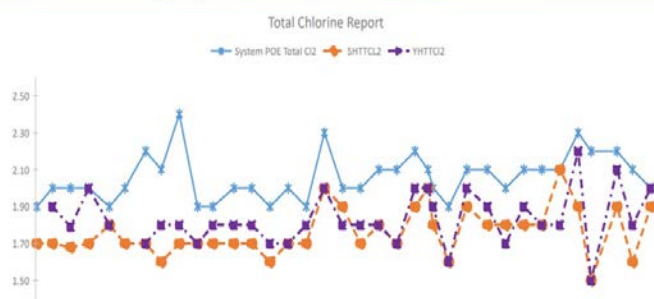
|                     |     |
|---------------------|-----|
| Treatment           | 1-2 |
| GIS                 | 2-3 |
| Resource Protection | 3-5 |
| Distribution        | 5   |
| Meters              | 6   |
| Wellness            | 6   |

This past month we were asked by Kennebunk, Kennebunkport and Wells Water District (KKW) to increase our normal August interconnection water flow of 50 gallons per minute (gpm) to as high as possible. KKW was seeing their highest August system demand in recorded history and were nearly maxed out with their sources. As this is also our highest demand time and the weather was dry, we agreed to send a safe flow of about 300 gpm for approximately 30 days and the distribution crew started transferring Kittery raw water from Folly to Chase's to compensate for the increased pond water use.

KKW needed to switch to their larger transfer system at the interconnection to get over 100 gpm from us. KKW booster station regulates the amount of flow and our station ramps up or down depending on the KKW set point. KKW started the transfer at 300 gpm, but overnight we noticed that the KKW system malfunctioned and kept increasing the flow until it was well over 500 gpm. This was the same problem they had the last time they took significant water in May. Their system was again troubleshot and reset.

but the same thing happened again leading to a low tank alarm for our system. We then shut the interconnection off. We eventually had KKW restart the smaller system at 50 gpm and have been providing them water at that normal rate since. KKW is working on fixing their high flow system. For August, KKW took 2.6 million gallons from the District and about 22 million gallons from Maine Water.

Total Chlorine Report (Finish, York Heights Tank, Simpson Hill Tank)



Treatment operators continue to watch the system and storage tanks for any indications of nitrification with increased sampling since June. The system and tank water quality results have been normal with no indication of a problem. The plot above is used to monitor total chlorine trends occurring in the tanks. The blue line is the plant chlorine output, orange is Simpson Hill Tank, and purple is York Heights Tank. Total chlorine in the tanks has remained above 1.5 mg/L which is nitrification limiting.

A small amount of plastic filtration media continues to sneak out of Clarifier A but only during the cleaning process. This is even after several potential fixes were applied. This month operators tried something different. At this time of year it is very hard to schedule more than an entire day out of service to perform an entire gasket overhaul but this is the next step for the coming weeks.

We have been working on a statement of work for a comprehensive subsurface cleaning and inspection of the Chase's Pond Dam's underwater surfaces and pilings. The six pilings that hold up the dam and the dam's underwater surfaces will be cleaned and videoed to assess their condition. We are working with three contractors to set this up for late in the year.

Operators worked with several suppliers to spec and price out replacement flow meters for the

high flow and domestic meter at Route One North Pump Station. The existing meters that failed have moving parts which break over time. The new meters will not have moving parts which can break. We are also working on sizing and ordering new chemical systems to be added to Route One South Pump Station and the joint Kittery Pump Station.

Operators had to replace a chemical system on/off control switch that starts and stops the system from feeding chemical and cleaned two dilution water flow meters. We received new piping and have started plumbing a new alum chemical feed line that was found to be clogged last month. The temporary feed line will then be discontinued.

Operators reviewed and sent various water quality and nitrification reports for the month, have been monitoring and changing dosages based on water quality changes and performed extensive fall cleaning. We are also working on logistics of other fall and end of year projects and discussing potential 2023 capital projects.



## GIS REPORT

By: Todd Hill

At the beginning of August, Gary asked me to prepare a timber harvest map around the Welches Pond area for the timber harvest that started in September. Along with the map I was asked to take some aerial video and pictures above the Welches Pond area with my drone.

I attended a meeting with two of the property

owners on Moody Lane that are part of the upcoming Moody Lane main extension. The meeting was scheduled to go over next steps and to discuss water service and meter locations and to see if any of the homes will end up needing meter pits. The contractor, the project engineer, and a representative from the York Sewer District were also part of the meeting as well.

I exported the fire hydrant maintenance data that was collected using Survey123. Once exported to a spreadsheet, I went through all the notes and anything that needed to be fixed was highlighted and marked and sent to Larry and Robbie to be fixed.

We have seen an increase in phishing emails over the last month but thankfully our cybersecurity training has prepared us to not fall for any of these attacks. Whatever or whoever are behind these emails are trying very hard to get into our computers and network.

Tom, Larry, Joe D and I recently had a meeting to discuss next steps to complete our Lead Service Line Inventory (LSLI). One of the things we discussed was to use a template that the EPA has created to collect the District's LSLI data. We also agreed that we need to start with the information that we have in the office. Any folder from past main replacement and extension projects that we have filed will have service line size, type, and year of installation. This will allow us to start with the public side of the inventory. Once we have collected all the data internally, we will start looking at ways to collect the private side of the service line. Overall, I feel we have a good plan in place and we are looking forward to getting this information collected. The guys have continued to use the Survey123 form that I created to collect LSLI data during water service repairs or when we gain access to a property. This information is stored within the ArcGIS Online cloud and will be converted over to the EPA spreadsheet once Joe D customizes the spreadsheet for our use.

Other work in August included:

- Worked on ArcGIS online mobile maps and updated Survey123 mobile forms.
- Completed several water service estimates including 22 Angel Avenue, 3 Broadway, 1845 U.S. Route One, and 220 Southside Road.

- Added a new concrete meter pit for 8 Shepherds Way, a relocated summer line meter box at 17 Carlton Street and a new one-inch plastic meter pit for 30 Southside Road to the distribution base map.
- Made construction signage for the upcoming High Street main extension and cut vinyl for watershed gate signs.
- Attended a water meter meeting at the office and a lead service line webinar.



**Folly Pond on the left and Welches Pond on the right**

## RESOURCE PROTECTION REPORT

By: Joe Dignam



**Digger's Excavating replacing a 24-inch culvert on the Red Management Road**

August is typically one of the busiest months for the Resource Protection Office, and this year is no different. We have been working on several different projects both in and out of the woods. Our biggest capital project of 2022, upgrades to the Red Management Road, was completed by Digger's Excavating this month. This road work

involved several large culvert replacements, trucking and grading of new gravel, shaping and ditching the road, as well as seeding the disturbed areas and adding erosion control where needed.

The distribution crew made significant upgrades to the Red Crossover Trail this month as well. New gravel and culverts were added to this smaller trail. These improvements repaired a section of trail that previously had several wet and muddy spots causing unnecessary erosion by ATV use. They also widened an ATV bridge on this trail to allow for truck access in the future to complete more upgrades.

The distribution crew has also been continuously trimming the invasive phragmites that were discovered in the watershed last year. So far, we have not seen any evidence of the plants spreading to new locations. It appears that the regular cutting of the grasses, although labor intensive, is working to prevent the spread of this invasive plant.

This month we began preparations for an upcoming selective timber harvest planned for September. The harvest area will be in Forest Management Compartment IV. This compartment is approximately 88 acres and surrounds Welch's Pond. This will be the first timber harvest we have done since 2020 on the Dicken's parcel. To prepare for the harvest, we have consulted with Brian Reader of Reader Forest Management. Brian uses best management practices in accordance with our Forestry Management Plan to identify sensitive areas and avoid risk to water quality while planning the routes used by loggers and trees to harvest.

Upon completion of the harvest plan by Reader Forest Management, we hired Spear Stream Consulting to complete a third-party review of the harvest plan. This ensures our harvest follows the Forestry Management Plan and provides an additional layer of protection to water quality and natural resources.

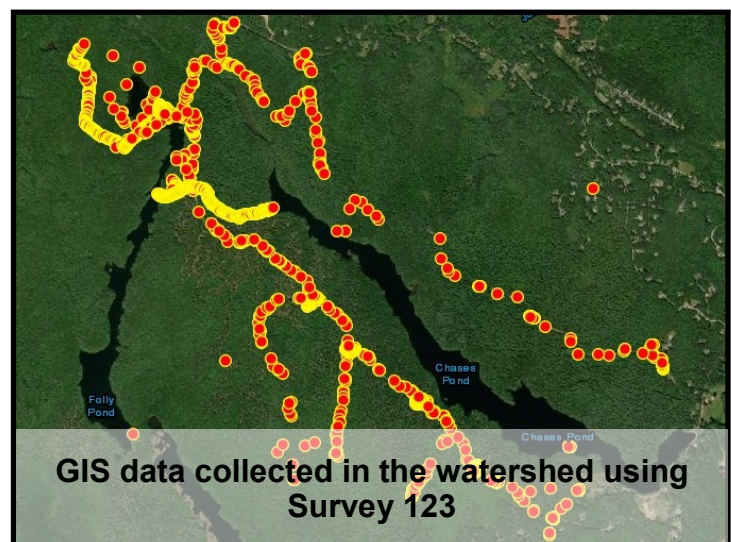
For the first time, we have captured drone footage of the harvest area. We plan to capture additional drone footage during and after for comparison.

Our Maine Conservation Corps Environmental



**Drone photo of the harvest area before loggers move equipment in.**

Steward, Madison, has been working hard this month on the Watershed Asset Inventory Project. This extensive data collection project will collect location and descriptive information about all watershed items. This includes, but is not limited to roads, trails, culverts, bridges, signs, gates, invasive species, timber landings, property boundaries, grave sites, cellar holes, water crossings, and trail maintenance needs. Pictures of each item are taken as well during the survey. This information will be a valuable tool moving forward as we work to make long term budget decisions regarding watershed maintenance and improvements. To date, Madison has collected over 2,000 data points. These data points will be used to create new layers in ArcGIS that will build a new watershed basemap for future use and improvement.



This month, the Maine Conservation Corps program manager Deidrah Stanchfield visited the Resource Protection Office to preform a host site review and check on the progress of the project. We are happy to report that we are making great progress, our site is top notch, and we were marked as one of the best sites in the Conservation Corps program. Not bad for our first time.

Resource Protection personnel spent a significant amount of time on compliance and water quality sampling this month. We are working to transfer the compliance sampling duties to the treatment plant, so time was spent training and directing the sample procedures with treatment plant personnel. We successfully completed annual lead and copper sampling, bacteria sampling, disinfection byproduct sampling, PFAS, and source water quality sampling on Chase's Pond. Also this month we attended a seminar regarding updates to the Lead and Copper Rule and made plans for the District's continued compliance with the new rule and service line inventory requirements.

This month, we delivered the second of three cords of firewood auctioned off during the York-wise auction. We also received a call about the auctioned off boat tour of Chases Pond, this has yet to be scheduled.

Due to the lack of rain this month, as a precaution, we have activated the Folly Pond siphon line to transfer raw water into Chase's Pond. This transfer has allowed the pond to maintain its level for a period of about two weeks. During the transfer we moved approximately 50 million gallons of raw water.

Another item of mention in August was an effort to collaborate with the York School District to host a high school intern at both York Water District and York Sewer District this school year. There was great enthusiasm from the school early on regarding this program and we felt that it would be a great benefit to all if we restarted the internship program. The last intern we hosted from the high school was Daniel Covell in 2019. Covid forced us to put the program on hold until now. Unfortunately, after the first meeting in late June, the school district was not present for either of the two follow up meetings regarding the program and we were forced to look at other options. We have made arrangements with South-

ern Maine Community College to host a student from their Water Treatment Technology program this year. We are looking forward to seeing this program move forward.

## **DISTRIBUTION REPORT**

By: Webster Ropke

In August, our crews ran temporary lines for the High Street water main replacement. The District is replacing 270 feet of old six-inch cast iron water main with a new six-inch ductile iron water main on High Street. This portion of water main starts at Main Street. Coming from the Freeman Street side on High Street, there is 97 feet of six-inch ductile iron that was installed in 2001. The new water main coming from the Main Street side will continue and fill in the gap of 170 feet. Once the job is completed, the main will be looped from the 16-inch water main on Main Street to the eight-inch water main on Freeman Street. This will improve the water quality on High Street. Over the years we would receive calls in the winter of discolored water from the few year-round homes on the street. This was due to the water flow and condition of the water main. The District put the job out to bid in January using our select contractors list. Mick Construction was low bidder and was awarded the contract. The job will be starting September 12<sup>th</sup>. Our crews ran 1,000 feet of two-inch poly pipe and 1,100 feet of one-inch plastic pipe for temporary services. We connected 21 homes to the temporary line.



**Welding temporary line for High Street**

## METER CREW REPORT

By: Tom Chase

During the month of August, David and I attended a couple more courses as part of the PUC Disconnection Series. So far this course has provided information relating to disconnection basics, customer de-escalation, deposits, and pay arrangements. In these sessions, utilities across the state were afforded the opportunity to ask questions pertaining to their own disconnection experiences to help gain clarity and guidance on how to approach difficult or unique customer situations.

David completed our largest meter installation to date at a new multi-unit building this month. The installation consisted of 43 individual meters for all the residential units and a single house meter (not seen in picture) for outside water, laundry, etc. Thankfully, the plumbing agency did a phenomenal job to separate the plumbing with the minimal room provided, allowing us to complete a very clean install of all the meters which proceeded to compliment the final product. In August, we installed a total of 50 new meters this month and changed out four.

I spent time with Noah this month going through our safety programs and inspection records which led up to our SHAPE renewal inspection on August 3rd. The Safety and Health Award for Public Employers (SHAPE) recognizes public sector employers who maintain an exemplary safety and health management system. Applications for acceptance into this program are reviewed by the Maine Department of Labor followed by a consultation to complete a hazard identification survey of the entire facility. They do involve employees in this process and look to make sure written programs are established in accordance with their compliance directives and that they are being revised as needed. They also confirm that employees have been trained on all the policies and that those records are documented and retained. Because of our commitment to maintaining high safety standards, we currently have an experience mod rating of 0.66, which means that we only pay 66% of the industry average rating of 1.0 towards our workman's compensation insurance. It takes good leadership to improve safety, but when employees gain credence through their own involvement, safety becomes paramount.

## WELLNESS REPORT

By: Karen Hale

### What You Need to Know About 988—The New Mental Health Crisis Hotline

People who are experiencing mental distress are now able to dial just three numbers (988) to reach the National Suicide Prevention Lifeline. Anyone in the United States can text or call 988 to reach trained counselors who can help them cope with a mental health emergency and direct them to additional resources for mental health and substance use treatment.

Maine already had a 1-800 mental health hotline, but the new 988 hotline will expand access to services because it's shorter and easy to remember. The new 988 hotline will allow callers to speak with trained professionals who will talk them through their crisis and connect them with ongoing mental health resources. The existing 1-800 number still works, but the service has gotten a makeover and will now be more able to address general mental health concerns and emotional distress, as well as suicide crises.

## AUGUST BILLING

York Village Route

| 2022         | Usage(cf) | Revenue   | Customers |
|--------------|-----------|-----------|-----------|
| Residential  | 3,149,900 | \$229,265 | 1,478     |
| Commercial   | 1,480,100 | \$53,753  | 176       |
| Governmental | 429,200   | \$15,792  | 35        |
| 2021         | Usage(cf) | Revenue   | Customers |
| Residential  | 3,318,100 | \$233,605 | 1,433     |
| Commercial   | 1,709,300 | \$57,106  | 176       |
| Governmental | 331,300   | \$13,984  | 35        |

**Clarifier repair**



**30 Southside Road one-inch plastic meter pit installation**



**Raw water from the siphon line flowing into Chase's Pond.**



**Large meter installation in new multi-unit building**

# WATER QUALITY REPORT

REPORT DATE: 9/6/2022

## AVERAGE PLANT FINISH WATER QUALITY RESULTS (Last 30 Days Before Report Date- Above)

| Avg Daily Gals Pumped | Avg TEMP | Avg Turb | Avg pH | AvgFreeCl2 | Avg TtlCl2 | Avg Ortho | Current Lvl | Avg Pond Lvl | Min Pond Lvl | Max Pond Lvl |
|-----------------------|----------|----------|--------|------------|------------|-----------|-------------|--------------|--------------|--------------|
| 2,071,967             | 76       | 0.08     | 9.05   | 0.09       | 2.16       | 1.57      | -2.20       | -1.93        | -2.20        | -1.70        |

## PLANT FINISH WATER QUALITY RESULTS

| TEST DATE                           | Temp F    | Turbidity      | pH          | Free Cl2        | Total Cl2      | Ortho           | Alkalinity    | Color        | Manganese       | Iron            | Aluminum        |
|-------------------------------------|-----------|----------------|-------------|-----------------|----------------|-----------------|---------------|--------------|-----------------|-----------------|-----------------|
| 8/24/2022                           | 75        | 0.07           | 8.98        | 0.07            | 2.10           | 1.56            | 15            | 0            | 0.004           | 0.01            | 0.006           |
| 8/18/2022                           | 76        | 0.08           | 9.12        | 0.13            | 2.20           | 1.55            | 16            | 3            | 0.012           | 0.04            | 0.031           |
| 8/8/2022                            | 80        | 0.06           | 9.08        | 0.04            | 2.20           | 1.52            | 15            | 6            | 0.000           | 0.00            | 0.049           |
| 8/3/2022                            | 78        | 0.10           | 9.11        | 0.10            | 2.30           | 1.60            | 15            | 3            | 0.003           | 0.01            | 0.010           |
| <b>AVERAGE RESULTS:</b>             | <b>77</b> | <b>0.08</b>    | <b>9.07</b> | <b>0.09</b>     | <b>2.20</b>    | <b>1.56</b>     | <b>15</b>     | <b>3</b>     | <b>0.005</b>    | <b>0.02</b>     | <b>0.024</b>    |
| <b>TREATMENT TARGET PARAMETERS:</b> |           | <b>&lt;0.3</b> | <b>9.0</b>  | <b>&lt;0.10</b> | <b>2.0-2.5</b> | <b>&gt;=1.5</b> | <b>&gt;10</b> | <b>&lt;5</b> | <b>&lt;0.05</b> | <b>&lt;0.05</b> | <b>&lt;0.05</b> |

## ROUTINE DISTRIBUTION WATER QUALITY RESULTS

| Sample Site                   | Date      | Turbidity | pH   | Free Cl2 | Total Cl2 | Ortho | Alkalinity | Color | Manganese | Iron  | Aluminum |
|-------------------------------|-----------|-----------|------|----------|-----------|-------|------------|-------|-----------|-------|----------|
| Route 1 at Pine Ledge Motel S | 8/31/2022 | 0.09      | 9.15 | 0.06     | 1.50      | 1.71  | 18         | 3     | 0.006     | 0.010 | 0.011    |
| Route 1 at Pine Ledge Motel S | 8/24/2022 | 0.16      | 9.15 | 0.08     | 1.50      | 1.81  | 16         | 0     | 0.000     | 0.040 | 0.000    |
| Route 1 at Pine Ledge Motel S | 8/18/2022 | 0.10      | 9.24 | 0.05     | 1.50      | 1.70  | 18         | 2     | 0.000     | 0.020 | 0.024    |
| Route 1 at Pine Ledge Motel S | 8/9/2022  | 0.21      | 9.11 | 0.03     | 0.90      | 1.78  | 18         | 0     | 0.000     | 0.020 | 0.030    |
| Route 1 at Pine Ledge Motel S | 8/3/2022  | 0.10      | 9.36 | 0.06     | 1.80      | 1.69  | 19         | 4     | 0.002     | 0.020 | 0.038    |
| Route 1 North Pump Station    | 8/31/2022 | 0.10      | 9.04 | 0.04     | 1.50      | 1.71  | 17         | 3     | 0.000     | 0.020 | 0.015    |
| Route 1 North Pump Station    | 8/24/2022 | 0.15      | 9.05 | 0.05     | 1.80      | 1.84  | 15         | 0     | 0.000     | 0.000 | 0.017    |
| Route 1 North Pump Station    | 8/18/2022 | 0.13      | 9.11 | 0.05     | 1.60      | 1.66  | 15         | 2     | 0.000     | 0.010 | 0.000    |
| Route 1 North Pump Station    | 8/9/2022  | 0.15      | 8.78 | 0.04     | 1.50      | 1.83  | 16         | 0     | 0.000     | 0.020 | 0.040    |
| Route 1 North Pump Station    | 8/3/2022  | 0.42      | 9.13 | 0.04     | 1.60      | 1.64  | 16         | 4     | 0.008     | 0.030 | 0.033    |
| Route 1 South Pump Station    | 8/31/2022 | 0.07      | 9.08 | 0.08     | 1.80      | 1.66  | 18         | 3     | 0.000     | 0.000 | 0.030    |
| Route 1 South Pump Station    | 8/24/2022 | 0.09      | 9.07 | 0.05     | 1.60      | 1.77  | 16         | 0     | 0.000     | 0.030 | 0.000    |
| Route 1 South Pump Station    | 8/18/2022 | 0.09      | 9.24 | 0.07     | 1.80      | 1.64  | 16         | 2     | 0.010     | 0.050 | 0.037    |

|                                   |           |                |                |                 |                    |                 |               |              |                 |                 |                 |
|-----------------------------------|-----------|----------------|----------------|-----------------|--------------------|-----------------|---------------|--------------|-----------------|-----------------|-----------------|
| Route 1 South Pump Station        | 8/8/2022  | 0.09           | 9.16           | 0.03            | 1.70               | 1.69            | 17            | 2            | 0.000           | 0.000           | 0.056           |
| Route 1 South Pump Station        | 8/3/2022  | 0.10           | 9.10           | 0.07            | 1.90               | 1.65            | 15            | 1            | 0.000           | 0.000           | 0.012           |
| York Water District Office        | 8/31/2022 | 0.08           | 8.88           | 0.04            | 1.70               | 1.70            | 15            | 3            | 0.000           | 0.010           | 0.064           |
| York Water District Office        | 8/24/2022 | 0.13           | 8.92           | 0.02            | 1.70               | 1.81            | 15            | 0            | 0.000           | 0.030           | 0.053           |
| York Water District Office        | 8/18/2022 | 0.11           | 9.19           | 0.05            | 1.90               | 1.69            | 17            | 2            | 0.001           | 0.000           | 0.000           |
| York Water District Office        | 8/8/2022  | 0.07           | 8.91           | 0.07            | 1.90               | 1.74            | 17            | 0            | 0.011           | 0.020           | 0.002           |
| York Water District Office        | 8/3/2022  | 0.11           | 8.99           | 0.05            | 1.70               | 1.66            | 15            | 1            | 0.000           | 0.000           | 0.044           |
| <b>AVERAGE RESULTS:</b>           |           | <b>0.13</b>    | <b>9.08</b>    | <b>0.05</b>     | <b>1.65</b>        | <b>1.72</b>     | <b>16</b>     | <b>2</b>     | <b>0.002</b>    | <b>0.017</b>    | <b>0.025</b>    |
| <b>TARGET MIN/MAX PARAMETERS:</b> |           | <b>&lt;0.3</b> | <b>8.0-9.2</b> | <b>&lt;0.10</b> | <b>&gt;&gt;1.0</b> | <b>&gt;=1.0</b> | <b>&gt;10</b> | <b>&lt;5</b> | <b>&lt;0.10</b> | <b>&lt;0.10</b> | <b>&lt;0.10</b> |

| <b>ROUTINE BACTERIA MONITORING PERFORMED (None if Empty)</b> |           |           |      |          |           |       |            |      |                |  |
|--------------------------------------------------------------|-----------|-----------|------|----------|-----------|-------|------------|------|----------------|--|
| Sample Site                                                  | Date      | Turbidity | pH   | Free Cl2 | Total Cl2 | Ortho | Alkalinity | Temp | Total Coliform |  |
| South Side Road Near Blaisdell Farm                          | 8/8/2022  | 0.12      | 8.84 | 0.10     | 1.80      | 1.67  | 16         | 22.4 | ABSENT         |  |
| Route 1 @ River Bend Road                                    | 8/8/2022  | 0.10      | 8.86 | 0.09     | 1.80      | 1.67  | 16         | 24.8 | ABSENT         |  |
| Organug Road @ Indian Trail                                  | 8/8/2022  | 0.12      | 8.92 | 0.10     | 1.80      | 1.63  | 17         | 25.3 | ABSENT         |  |
| Seabury Road Near Route 103                                  | 8/8/2022  | 0.11      | 8.98 | 0.06     | 1.70      | 1.66  | 16         | 22.4 | ABSENT         |  |
| White Pine Pump Station Near Route 1                         | 8/8/2022  | 0.13      | 8.95 | 0.12     | 2.00      | 1.61  | 16         | 26.3 | ABSENT         |  |
| Webber Road Near Ridge Road (73 Webber)                      | 8/8/2022  | 0.19      | 9.01 | 0.14     | 2.10      | 1.61  | 17         | 27.3 | ABSENT         |  |
| Nubble Road at Sewer Pump Station                            | 8/8/2022  | 0.14      | 9.05 | 0.09     | 1.70      | 1.71  | 17         | 23.3 | ABSENT         |  |
| Route 1 @ Old Post Road (Transmission Line)                  | 8/8/2022  | 0.09      | 9.07 | 0.08     | 2.10      | 1.55  | 16         | 27.9 | ABSENT         |  |
| Route 1A @ York Senior Center formerly YPD                   | 8/18/2022 | 0.13      | 9.30 | 0.07     | 2.00      | 1.67  | 17         | 24.2 | ABSENT         |  |
| Route 1A @ Roaring Rock Road                                 | 8/18/2022 | 0.08      | 8.94 | 0.05     | 1.80      | 1.68  | 14         | 23.0 | ABSENT         |  |
| Long Beach Ave Across From Long Beach Bath                   | 8/18/2022 | 0.12      | 8.89 | 0.08     | 1.90      | 1.67  | 15         | 23.5 | ABSENT         |  |
| Stageneck Road @ Harbor Beach Road                           | 8/18/2022 | 0.06      | 8.94 | 0.06     | 1.80      | 1.70  | 16         | 24.0 | ABSENT         |  |
| Yorkshire Commons @ York Street                              | 8/18/2022 | 0.07      | 8.91 | 0.08     | 2.20      | 1.62  | 16         | 23.0 | ABSENT         |  |
| Ridge Road Across from Coastal Ridge Elemen                  | 8/18/2022 | 0.08      | 8.92 | 0.08     | 1.90      | 1.86  | 17         | 20.2 | ABSENT         |  |
| Route 1 @ Mr. Mikes Convenience Store                        | 8/18/2022 | 0.08      | 8.90 | 0.06     | 2.10      | 1.63  | 16         | 23.9 | ABSENT         |  |

|  |          |      |      |      |      |      |    |      |
|--|----------|------|------|------|------|------|----|------|
|  | Average: | 0.11 | 8.97 | 0.08 | 1.91 | 1.66 | 16 | 24.1 |
|  | Minimum: | 0.06 | 8.84 | 0.05 | 1.70 | 1.55 | 14 | 20.2 |
|  | Maximum: | 0.19 | 9.30 | 0.14 | 2.20 | 1.86 | 17 | 27.9 |

|                                 |                                                 |                                     |        | <u>Jan</u> | <u>Feb</u> | <u>Mar</u> | <u>Apr</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>Aug</u> | <u>Sept</u> | <u>Oct</u> | <u>Nov</u> | <u>Dec</u> |
|---------------------------------|-------------------------------------------------|-------------------------------------|--------|------------|------------|------------|------------|------------|-------------|-------------|------------|-------------|------------|------------|------------|
| <b>BLS REQUIRED INSPECTIONS</b> | <b>Task</b>                                     | <b>Interval</b>                     |        |            |            |            |            |            |             |             |            |             |            |            |            |
|                                 | Eyewash Station checks                          | Weekly                              |        | √          | √          | √          | √          | √          | √           | √           | √          |             |            |            |            |
|                                 | Vehicle Checks                                  | Weekly                              |        | √          | √          | √          | √          | √          | √           | √           | √          |             |            |            |            |
|                                 | Portable Ladder inspections                     | Monthly                             |        | √          | √          | √          | √          | √          | √           | √           | √          |             |            |            |            |
|                                 | Sling/ lifting strap/ lifting chain inspections | Monthly                             |        | √          | √          | √          | √          | √          | √           | √           | √          |             |            |            |            |
|                                 | PPE inspections                                 | Monthly                             |        | √          | √          | √          | √          | √          | √           | √           | √          |             |            |            |            |
|                                 | Fire extinguisher inspections (internal)        | Monthly                             |        | √          | √          | √          | √          | √          | √           | √           | √          |             |            |            |            |
|                                 | First Aid Kit Inspections                       | Monthly                             |        | √          | √          | √          | √          | √          | √           | √           | √          |             |            |            |            |
|                                 | Jack inspections                                | Monthly                             |        | √          | √          | √          | √          | √          | √           | √           | √          |             |            |            |            |
|                                 | Jack stand inspections                          | Monthly                             |        | √          | √          | √          | √          | √          | √           | √           | √          |             |            |            |            |
|                                 | Welding equipment inspections                   | Monthly                             |        | √          | √          | √          | √          | √          | √           | √           | √          |             |            |            |            |
|                                 | Air Compressor relief valve check               | Monthly                             |        | √          | √          | √          | √          | √          | √           | √           | √          |             |            |            |            |
|                                 | Water heater relief valve check                 | Monthly                             |        | √          | √          | √          | √          | √          | √           | √           | √          |             |            |            |            |
|                                 | Grinding wheel/ guard inspection                | Monthly                             |        | √          | √          | √          | √          | √          | √           | √           | √          |             |            |            |            |
|                                 | Garage Door sensor checks                       | Monthly                             |        | √          | √          | √          | √          | √          | √           | √           | √          |             |            |            |            |
|                                 | Emergency Exit Lighting checks                  | Monthly                             |        | √          | √          | √          | √          | √          | √           | √           | √          |             |            |            |            |
|                                 | AED inspections                                 | Monthly                             |        | √          | √          | √          | √          | √          | √           | √           | √          |             |            |            |            |
|                                 | Fixed Ladder Inspections                        | Every 6 months - or when accessible |        |            |            |            |            |            | √           |             |            |             |            | -          |            |
|                                 | Air Quality Monitor Calibrations                | Every 6 months                      |        |            |            |            |            |            | √           |             |            |             |            |            |            |
|                                 | Lifts/Hoists (internal)                         | 6 months from KoneCrane inspection  |        |            |            |            |            |            | √           |             |            |             |            |            |            |
|                                 | Lifts/Hoists (Contracted)                       | Annually                            |        |            |            |            |            |            |             |             |            |             |            |            |            |
|                                 | Testing Panic buttons/security pads             | Annually                            |        |            |            |            |            |            |             |             |            |             |            |            |            |
|                                 | Fire extinguisher inspections (contracted)      | Annually                            |        |            |            |            |            |            |             |             |            |             |            |            |            |
| <b>BLS REQUIRED TRAINING</b>    | MMA - Fire Extinguisher Training                | Annual                              |        | -          | -          | -          | -          | √          |             |             |            |             |            |            |            |
|                                 | Confined Space Rescue Training*                 | Initial                             |        |            |            |            |            |            |             |             |            |             |            |            |            |
|                                 | Simulated Confined Space Rescue Training*       | Annual                              |        |            |            |            |            |            |             |             |            |             |            | -          |            |
|                                 | Basic First Aid Training*                       | Every 2 years - last 9/22/20        |        |            |            |            |            |            |             |             |            |             |            |            |            |
|                                 | CPR certification*                              | Every 2 years - last 9/22/20        |        |            |            |            |            |            |             |             |            |             |            |            |            |
|                                 | Hearing Tests/Training Video*                   | Annual                              |        |            |            |            |            |            |             |             |            |             |            |            |            |
|                                 | Respirator Medical Evaluations*                 | Annual                              |        |            |            |            |            |            | √           |             |            |             |            |            |            |
|                                 | Respirator Fit Tests*                           | Annual                              |        |            |            |            |            |            |             | -           | √          |             |            |            |            |
|                                 | Workzone/Flagger Training                       | Initial                             |        |            |            |            |            |            |             |             |            |             |            |            |            |
|                                 | Trenching & Excavation Training                 | Initial                             |        |            |            |            |            |            |             |             |            |             |            |            |            |
|                                 | Global Harmonization Video                      | Initial                             |        |            |            |            |            |            |             |             |            |             |            |            |            |
| <b>BLS REQUIRED PROGRAMS</b>    | Hazard Assessment of PPE                        | Program Review                      | Annual | √          |            |            |            |            |             |             |            |             |            |            |            |
|                                 |                                                 | Employee Review                     | Annual |            | √          | √          |            |            |             |             |            |             |            |            |            |
|                                 | Bloodborne Pathogen Policy                      | Program Review                      | Annual | √          |            |            |            |            |             |             |            |             |            |            |            |
|                                 |                                                 | Employee Review                     | Annual |            | √          | √          |            |            |             |             |            |             |            |            |            |
|                                 | Confined Space Program                          | Program Review                      | Annual | √          |            |            |            |            |             |             |            |             |            |            |            |
|                                 |                                                 | Employee Review                     | Annual |            | √          | √          |            |            |             |             |            |             |            |            |            |
|                                 | Emergency Action Plan                           | Program Review                      | Annual | √          |            |            |            |            |             |             |            |             |            |            |            |
|                                 |                                                 | Employee Review                     | Annual |            | √          | √          |            |            |             |             |            |             |            |            |            |
|                                 | Electrical Policy (Arc Flash)                   | Program Review                      | Annual | √          |            |            |            |            |             |             |            |             |            |            |            |
|                                 |                                                 | Employee Review                     | Annual |            | √          | √          |            |            |             |             |            |             |            |            |            |
|                                 | Fire Extinguisher Policy                        | Program Review                      | Annual | √          |            |            |            |            |             |             |            |             |            |            |            |
|                                 |                                                 | Employee Review                     | Annual |            | √          | √          |            |            |             |             |            |             |            |            |            |
|                                 | Global Harmonization Policy (HazCom)            | Program Review                      | Annual | √          |            |            |            |            |             |             |            |             |            |            |            |
|                                 |                                                 | Employee Review                     | Annual |            | √          | √          |            |            |             |             |            |             |            |            |            |
|                                 | Hearing Protection Program                      | Program Review                      | Annual | √          |            |            |            |            |             |             |            |             |            |            |            |
|                                 |                                                 | Employee Review                     | Annual |            | √          | √          |            |            |             |             |            |             |            |            |            |
|                                 | Ladder Policy                                   | Program Review                      | Annual | √          |            |            |            |            |             |             |            |             |            |            |            |
|                                 |                                                 | Employee Review                     | Annual |            | √          | √          |            |            |             |             |            |             |            |            |            |
|                                 | Lock Out / Tag Out Program                      | Program Review                      | Annual | √          |            |            |            |            |             |             |            |             |            |            |            |
|                                 |                                                 | Employee Review                     | Annual |            | √          | √          |            |            |             |             |            |             |            |            |            |
|                                 | Respiratory Protection Program                  | Program Review                      | Annual | √          |            |            |            |            |             |             |            |             |            |            |            |
|                                 |                                                 | Employee Review                     | Annual |            | √          | √          |            |            |             |             |            |             |            |            |            |
|                                 | Silica Exposure Prevention Program              | Program Review                      | Annual | √          |            |            |            |            |             |             |            |             |            |            |            |
|                                 |                                                 | Employee Review                     | Annual |            | √          | √          |            |            |             |             |            |             |            |            |            |
|                                 | Video Display Terminal Policy                   | Program Review                      | Annual | √          |            |            |            |            |             |             |            |             |            |            |            |
|                                 |                                                 | Employee Review                     | Annual |            | √          | √          |            |            |             |             |            |             |            |            |            |
| <b>MISC</b>                     | Safety Meetings                                 | Quarterly                           |        |            |            | √          |            |            | √           |             |            |             |            |            |            |
|                                 | Update Bureau of Labor posters                  | Every 6 months                      |        | √          |            |            |            |            |             | √           |            |             |            |            |            |
|                                 | Post OSHA 300 logs                              | Annual                              |        | √          |            |            |            |            |             |             |            |             |            |            |            |
|                                 | Prepare Safety budget                           | Annual                              |        |            |            |            |            |            |             |             |            |             |            |            |            |
|                                 | SDS inventory                                   | Annual                              |        | √          | √          |            |            |            |             |             |            |             |            | -          |            |
|                                 | NWZAW & Safe Digging Banners                    | Annual                              |        |            |            | √          | √          |            |             |             |            |             |            |            |            |
|                                 | SHAPE inspection                                | Every 3 years                       |        |            |            |            |            |            |             |             |            |             |            |            |            |

\* Applicable employees only

August 17, 2022

Mr. Don Neumann, Superintendent  
Auburn Water District  
268 Court Street  
Auburn, Maine 04210

SUBJECT: Water Age Hydraulic Modeling  
Proposal for Engineering Services

Dear Don,

We are pleased to provide a proposal to assist the District with assessing operational impacts of water age in Simpson Hill Tank using the hydraulic model. We have been operating the hydraulic model for many years and have continuously updated the model to reflect new infrastructure installed on an annual basis. The model has been used in the past for water age analysis when Wright-Pierce assisted with District in 2007 with the development of the Initial Distribution System Evaluation (IDSE) to determination of Stage II disinfection byproduct monitoring locations. The District experienced a nitrification event in 2021 in the area surrounding the Simpson Hill Tank. We know from prior studies, that the average water age in Simpson Hill tank is on the order of 2-3 times higher than the York Heights tank. The District is interested in evaluating possible operational changes including managing the timing and flow of water supplied to and from KKW to minimize water age impacts to York's system.

### Scope of Work

The following scope of work is proposed to support water age evaluation with respect to developing operational management strategies to minimize the development of seasonal nitrification events and consideration of other infrastructure changes to better manage water turn over in Simpson Hill tank.

1. Review hydraulic model extended period simulation and scenarios used for development of the IDSE in 2007.
2. Review the 2007 IDSE report to develop the prior base line of average water age distribution in the system and tanks including. Document those model assumptions (for example, did not assume water transfers from interconnection to the north and south)
3. Establish normal baseline operational setpoints for system operation (tank control setpoints, controlling tank, plant flow rate setpoint) during the months of June - September.
4. Summarize the volume of water transferred to and from KKW during 2020, 2021, and 2022 (June - September) including dates of transfers, volume of water transferred, and average pumped flow rate
5. Simulate average tank water age with current baseline system operational conditions during the summer system (assume no interconnection transfers)
  - a. Simulate existing conditions scenario with connection of the proposed 16" Route 1 water main currently being designed.

- b. Evaluate possible changes in tank operating setpoints and impact on system pressure at highpoints. Confirm treatment plant controlling tank and level setpoints are optimized for the system. Make recommendations for changes through model analysis if warranted.
    - c. Simulate baseline conditions for summer average day and maximum day demands
  6. Simulate tank water age water transfers to and from KKW at historical range of flow rates (interconnection pump capacity), duration, and frequency.
  7. Complete a trace analysis with the model to estimate the % of water transferred from KKW consistent with historical or possible future events to understand the fraction of KKW water mixed in each tank.
  8. Perform a preliminary assessment of benefits of tank mixing and pump storage strategies.
    - a. Simulate potential benefits and disadvantages of operating Simpson Hill Tank as pump storage to reduce water age seasonally.
  9. Identify operating transfer scenarios that minimize water age in Simpson Hill tank.
  10. Consider other operational strategies such as seasonal bleeders to manage water age
  11. Consider possibility of long-term recommendation to replace Simpson Hill tank with an elevated tank to reduce inactive storage volume.
  12. Facilitate a workshop with the District following the modeling scenario development to discuss results and general direction of conclusions and recommendations
  13. Prepare a letter report summarizing analysis conclusions and recommendations.
  14. Issue draft letter report to the District for review and comment
  15. Address District review comments and issue final report. Up to 5 hard copies will be provided in addition to an electronic copy.

## Schedule

We expect to complete this study within 8 weeks after your authorization to proceed

## Fee

We propose to undertake this study for a not-to-exceed fee of \$14,500. We have assumed a total budget of 120 hours with an estimate of 60-80 hours for hydraulic modeling and 20 – 40 hours for report preparations and meetings. The hydraulic modeling and report development will be led by Jacqueline Cobb, PE

Thank you for the opportunity to submit this proposal for the District's consideration. Upon review and acceptance of this proposal scope of work, we can generate an engineering services agreement for execution. We look forward to hearing from you.

Sincerely,  
WRIGHT-PIERCE



Daniel J Flaig, PE  
Regional Group Leader