# Monthly Operating Report

# FEBRUARY 2023





Rockland, MA WWTP





| Mr. Chuck Heshion  |
|--|
| Rockland Sewer Commission Chairman   |
| 587 Rear Summer Street   |
| Rockland, MA 02370   |
| RE: Rockland Wastewater Facility   |
| Monthly Report—February 2023   |
| Dear Mr. Heshion,  |
| I have enclosed February's 2023 Monthly Operating Report (MOR) for the Veolia Operations and Maintenance contract. |
| Please contact me if you should you have any questions regarding this report.                                      |
| Sincerely,   |
| Rick Kotouch   |
| Veolia Project Manager   |
| CC: Daniel Duross Sherri Vallie  |

# FEBRAURY 2023 MONTHLY OPERATING REPORT

## 1. SUMMARY:

The facility will be reporting 1 exceedance for the month of February 2023

- 1) There was 0 lost time / first aid injuries throughout the month
- The facility treated a total of 82,380,000 Million Gallons. The average daily flow was 2.942 MGD
- 3) The total rainfall for this reporting period was 1.69"
- 4) I&I Work is ongoing
- 5) **152** work orders were closed in February, with **6** as corrective maintenance work order and 3 were emergency call outs
- 6) Massachusetts general wastewater permit will begin April 1st.

#### 2. STAFFING:

| Current Employee Licenses as of 08/31/2022 |                          |                |                                |            |    |    |     |                     |    |   |
|--|--------------------------|----------------|--------------------------------|------------|----|----|-----|---------------------|----|---|
|  |                          | Hoisting       |                                | Wastewater |    |    | NEW | NEWEA<br>Laboratory |    |   |
| Employee                                   | Title                    | 1C<br>Forklift | 1B<br>Boom Truck<br>& Forklift | 3M         | 5C | 7C | 1   | Ш                   | IV | I |
| Richard Kotouch                            | Project<br>Manager       |                |                                |            |    | х  |     |                     | х  |   |
| Megan Kelly-Lynch                          | Asst. Project<br>Manager | х              |                                |            |    | х  |     |                     |    |   |
| Steven Butts                               | Lab<br>Technician        |                |                                |            |    | х  |     |                     |    | Х |
| Charles Amaral                             | Maintenance<br>Foreman   |                |                                |            | х  |    |     | х                   |    |   |
| Garry Murrill                              | O&M Tech II              |                |                                |            | х  |    |     | х                   |    |   |
| Maxwell Jackson                            | O&M Tech I               |                |                                | Х          |    |    |     |                     |    |   |
| Cristian Ryan                              | Operator in<br>Training  |                |                                |            |    |    |     |                     |    |   |
| Shaun Chaponis<br>(Part Time Weekends)     | O&M Tech II              |                |                                |            | х  |    | Х   |                     |    |   |

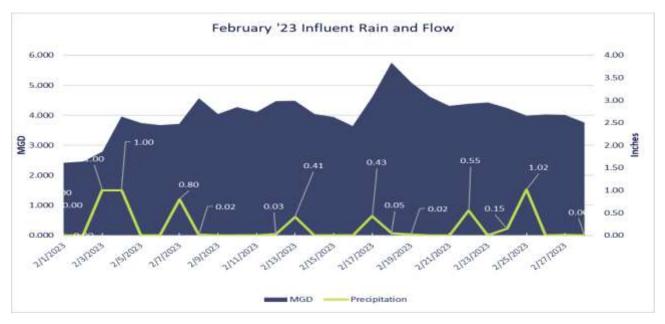
#### 3. EMPLOYEE HEALTH AND SAFETY:

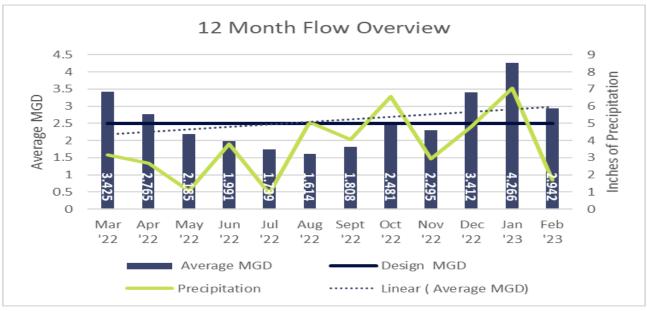
Throughout the COVID-19 (Coronavirus) pandemic in an attempt to continue to serve the Town of Rockland with reliable operations and protect the staff of the Rockland team, Veolia has implemented numerous procedures to ensure continuity of the operations. As the COVID-19 Delta variant and Omicron rates decrease, Veolia at the Rockland facility has downgraded to a Threat Level 0 guideline as follows: We ask all essential personnel, contractor's to stay home if they have Covid like symptons or have been exposed to someone having Covid.

#### 4 FLOWS AND LOADINGS:

#### 4.0 FLOWS, PRECIPITATION, AND WEATHER

- The facility treated a total of 82,380,000 MG during the month. The daily average flow was 2.942 MGD. This was 1.116 MGD than than the previous February monthly average, which was recorded at 4.058 MGD. The highest daily flow was recorded on February 1<sup>st</sup> as 3.910 MGD. The lowest daily flow was recorded on February 20th<sup>st</sup> as 2.530 MGD.
- The highest *peak* flow was recorded on February 3<sup>rd</sup> as **4.830** MGD. The lowest instantaneous flow was **0.760** MGD, recorded on February 15<sup>th</sup>.
- A total of 1.69" of precipitation was received at the facility. The highest single day precipitation total was recorded on February 22<sup>nd</sup> as 0.61"
- The coldest day was February 4th at -12°F. The warmest day was February 3rd at 62°F.





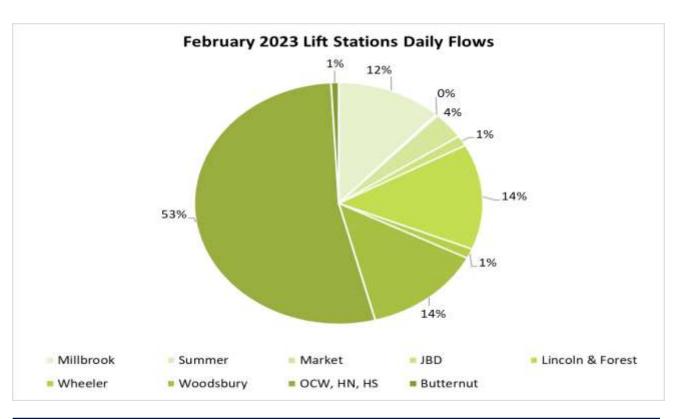
#### 4.1 INFLUENT BOD AND TSS LOADING

|          | ROCKLAND FLOW AND LOADINGS TRACKING |            |             |                        |                       |                       |  |  |  |
|----------|-------------------------------------|------------|-------------|------------------------|-----------------------|-----------------------|--|--|--|
| Month/Yr | Inf.<br>Flow                        | Inf<br>BOD | Inf.<br>TSS | Inf. Flow<br>Mov. Avg. | Inf. BOD<br>Mov. Avg. | Inf. TSS<br>Mov. Avg. |  |  |  |
|          | MGD                                 | LBS        | LBS         | MGD                    | LBS                   | LBS                   |  |  |  |
| Mar '22  | 3.425                               | 3,887      | 4,456       | 3.055                  | 3,240                 | 3,855                 |  |  |  |
| Apr '22  | 2.765                               | 3,907      | 4,051       | 3.024                  | 3,299                 | 3,891                 |  |  |  |
| May '22  | 2.185                               | 3,809      | 4,229       | 2.988                  | 3,326                 | 3,909                 |  |  |  |
| Jun'22   | 1.991                               | 4,343      | 4,006       | 2.952                  | 3,365                 | 3,975                 |  |  |  |
| Jul'22   | 1.739                               | 3,316      | 3,546       | 2.810                  | 3,446                 | 3,990                 |  |  |  |
| Aug'22   | 1.614                               | 3,313      | 3,758       | 2.702                  | 3,469                 | 3,969                 |  |  |  |
| Sep'22   | 1.808                               | 3,716      | 3,838       | 2.597                  | 3,581                 | 3,880                 |  |  |  |
| Oct'22   | 2.481                               | 3,323      | 4,180       | 2.538                  | 3,608                 | 3,904                 |  |  |  |
| Nov'22   | 2.295                               | 4,948      | 3,227       | 2.469                  | 3,832                 | 3,881                 |  |  |  |
| Dec'22   | 3.412                               | 4,234      | 3,802       | 2.544                  | 3,885                 | 3,890                 |  |  |  |
| Jan '23  | 4.266                               | 4,250      | 3,763       | 2.670                  | 2,913                 | 3,897                 |  |  |  |
| Feb '23  | 2.942                               | 3,408      | 2,970       | 2.577                  | 3,871                 | 3,819                 |  |  |  |

#### 4.2 LIFT STATION FLOWS

The lift stations accounted for **10,470,840** gallons throughout the month, **13%** of the total plant flow. Please note that monthly lift station flow totals are purely estimates based off of pump run hours and estimated flow rates. Values are not intended to in any way be used as design capacity volumes for potential future rehab / replacement projects.

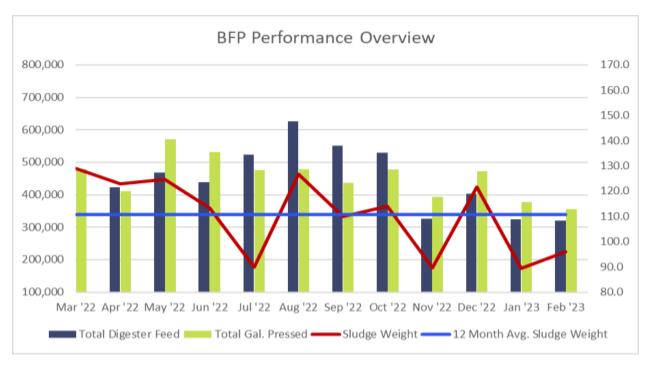
| Total F         | lows for February 20 | 23 |
|-----------------|----------------------|----|
|                 | Total                |    |
| Station         | Gallons              |    |
| Millbrook       | 1,234,440            |    |
| Summer          | 24,240               |    |
| Market          | 379,500              |    |
| John Burke      | 145,200              |    |
| Lincoln, Forest | 1,482,600            |    |
| Wheeler         | 137,160              |    |
| Woodsbury       | 1,405,800            |    |
| OCW, HN, HS     | 5,572,800            |    |
| Butternut       | 89,100               |    |
| Total:          | 10,470,840           |    |



|         |           |        |        | Lift Stati | on Month | ly Average | Daily Flov | ws (GPD)  |                    |                  |                  |            |
|---------|-----------|--------|--------|------------|----------|------------|------------|-----------|--------------------|------------------|------------------|------------|
| Month   | Millbrook | Summer | Market | John Burke | Lincoln  | Forrest    | Wheeler    | Woodsbury | Old Country<br>Way | Hingham<br>North | Hingham<br>South | Butternut  |
|         | GPD       | GPD    | GPD    | GPD        | GPD      | GPD        | GPD        | GPD       | GPD                | GPD              | GPD              |            |
| Mar '22 | 31,459    | 929    | 15,677 | 1,881      | 3,232    | 42,339     | 703        | 49,355    | 59,206             | 157,994          | 182,555          |            |
| Apr '22 | 33,156    | 920    | 16,150 | 2,456      | 2,600    | 42,980     | 834        | 46,620    | 57,960             | 151,920          | 172,800          |            |
| May '22 | 31,738    | 937    | 15,677 | 2,655      | 2,400    | 39,155     | 726        | 45,348    | 53,110             | 142,142          | 155,380          | Old System |
| Jun '22 | 33,073    | 994    | 15,640 | 1,872      | 2,520    | 41,300     | 828        | 45,060    | 53,900             | 144,540          | 159,480          |            |
| Jul '22 | 27,975    | 1,223  | 14,318 | 1,644      | 2,110    | 36,581     | 586        | 32,865    | 51,755             | 73,335           | 273,484          |            |
| Aug '22 | 31,459    | 1,076  | 15,581 | 2,145      | 2,439    | 40,442     | 703        | 38,265    | 44,100             | 134,843          | 113,574          | 3475       |
| Sep '22 | 29,628    | 976    | 15,400 | 1,816      | 2,389    | 45,990     | 732        | 45,660    | 42,350             | 134,460          | 141,480          | 2,040      |
| Oct '22 | 38,114    | 1,092  | 14,758 | 1,386      | 2,419    | 49,181     | 743        | 43,897    | 46,810             | 149,807          | 273,484          | 3,870      |
| Nov '22 | 35,316    | 1,112  | 14,450 | 1,840      | 2,460    | 46,410     | 918        | 40,740    | 46,970             | 142,920          | 165,599          | 2,640      |
| Dec '22 | 47,052    | 888    | 14,750 | 2,480      | 2,580    | 56,070     | 786        | 57,780    | 60,155             | 169,200          | 199,974          | 3,658      |
| Jan '23 | 47,052    | 888    | 14,750 | 2,480      | 2,580    | 56,070     | 786        | 57,780    | 60,155             | 169,200          | 199,974          | 3,658      |
| Feb '23 | 44,087    | 866    | 13,554 | 5,186      | 3,000    | 52,950     | 4,899      | 50,207    | 58,650             | 164,565          | 199,029          | 3,182      |
| Average | 35,842    | 992    | 15,059 | 2,320      | 2,561    | 45,789     | 1,104      | 46,131    | 52,927             | 144,577          | 186,401          | 3,218      |

#### 5.0 SOLIDS HANDLING

The BFP was operated a total of **134.25** hours this month and a total of **355,441** gallons were processed producing **96.05** Wet Tons of sludge that was hauled from the facility. The average BFP feed percent solids were **1.59%** and the BFP Cake average percent solids were **18.77%**. The sludge processing Dry Tons conversion sheet is attached to this report.



| Date         | BFP Run<br>Hours | Total<br>Digester<br>Feed | Total<br>BFP Feed | Polymer<br>Used | Actual<br>Sludge<br>Weight | Average<br>Press<br>Feed Total<br>Solids | Average<br>Cake Total<br>Solids | Sludge<br>Pick Up | Grit<br>Removed |
|--------------|------------------|---------------------------|-------------------|-----------------|----------------------------|--|---------------------------------|-------------------|-----------------|
|              | HRS              | Gal.                      | Gal.              | Gal.            | Wet Tons                   | %  | %                               | Dumpster          | Tons            |
| Mar '22      | 533.0            | 412,533                   | 477,919           | 136.1           | 128.9                      | 1.79                                     | 18.32                           | 7.00              |                 |
| Apr '22      | 133.8            | 422,314                   | 410,793           | 123.4           | 123.0                      | 2.66                                     | 19.69                           | 6.00              |                 |
| May '22      | 174.3            | 468,083                   | 571,658           | 154.1           | 124.7                      | 1.89                                     | 21.14                           | 8.00              |                 |
| June '22     | 151.3            | 439,371                   | 530,756           | 132.9           | 113.3                      | 2.26                                     | 21.92                           | 6.00              |                 |
| July '22     | 137.5            | 524,233                   | 475,614           | 119.6           | 89.8                       | 2.04                                     | 22.05                           | 5.00              |                 |
| Aug '22      | 152.6            | 626,023                   | 477,850           | 132.8           | 126.8                      | 2.15                                     | 23.45                           | 7.00              |                 |
| Sep '22      | 140.6            | 550,718                   | 436,908           | 118.4           | 110.0                      | 2.46                                     | 24.43                           | 7.00              |                 |
| Oct '22      | 154.3            | 528,474                   | 478,215           | 142.4           | 114.0                      | 2.48                                     | 22.86                           | 6.00              |                 |
| Nov '22      | 130.0            | 325,410                   | 393,155           | 90.4            | 89.6                       | 1.96                                     | 22.45                           | 5.00              |                 |
| Dec '22      | 150.5            | 403,272                   | 472,903           | 115.2           | 121.6                      | 1.73                                     | 20.27                           | 6.00              |                 |
| Jan '23      | 129.2            | 324,034                   | 377,362           | 119.2           | 89.4                       | 1.72                                     | 19.24                           | 6.00              |                 |
| Feb '23      | 134.3            | 320,572                   | 355,441           | 115.5           | 96.1                       | 1.59                                     | 18.77                           | 6.00              |                 |
| Annual Total | 2,121            | 5,345,037                 | 5,458,574         | 1,500           | 1,327                      | ****                                     | ****                            | 75                | 0.00            |
| Avg.         | 177              | 445,420                   | 454,881           | 125             | 111                        | 2.06                                     | 21.22                           | 6.3               | ****            |

# 6.0 ENVIRONMENTAL COMPLIANCE

#### **6.1 REGULATORY REPORTING**

- 1. The OSHA 300A was posted on 2/1/2023
- 2. Annual Biosolids Sludge Report (503B) was submitted online on 2/6/2023
- 3. Annual Tier II Report was submitted online on 2/13/2023
- 4. The EPA and MADEP February NETDMR was submitted on the CDX website on 3/9/2023

#### 6.2 NPDES COMPLIANCE

The facility will be reporting (1) exceedance(s) for the month of February 2023

|                      | Plant | BOD  | BOD      | TSS   | TSS      | NH3  | Total P | Ph   | E. Coli                                 | Aluminum | Copper | Dissolved | Limits             | Monthly        | Weekly         | Daily Max        |
|----------------------|-------|------|----------|-------|----------|------|---------|------|---|----------|--------|-----------|--------------------|----------------|----------------|------------------|
| Date                 | Flow  | БОБ  | ВОВ      | 133   | 133      | MIIJ | Totali  | 111  | Coliform                                | Alummum  | copper | Oxygen    | Lillits            | Avg.           | Avg.           | Daily Max        |
|                      | MGD   | Mg/L | Lbs./Day | Mg/L  | Lbs./Day | Mg/L | Mg/L    | Ph   | CFU/100 ml                              | Ug/L     | Ug/L   | Mg/L      | BOD                |                |                |                  |
| Wed, Feb 1           | 3.910 |      |          |       |          |      |         | 7.18 |   |          |        |           | Oct. 1 -           | 20 Mg/L        | 20 Mg/L        | 30 Mg/l          |
| Thur, Feb 2          | 3.780 | 7.9  | 249      | 7     | 230      | 2.70 | 0.31    | 7.13 |   |          |        |           | Aprill 30          | 417 bs/day     | 417 lbs/Day    | 626 lbs/Day      |
| Fri, Feb 3           | 3.600 |      |          |       |          |      |         | 7.12 |   |          |        |           | May1 -             | 6 Mg/L         | 6 Mg/L         | 10Mg/L           |
| Sat, Feb 4           | 3.590 |      |          |       |          |      |         | 6.94 |   |          |        |           | Sept. 30           | 125<br>Lbs/Dav | 125 lbs/Day    | 209<br>Lbs/day   |
| Sun, Feb 5           | 3.500 |      |          |       |          |      |         | 6.88 |   |          |        |           | TSS                |                |                |                  |
| Mon, Feb 6           | 3.170 |      |          |       |          |      |         | 7.39 | 68                                      |          |        |           | Oct. 1 -           | 20 Mg/L        | 20 Mg/L        | 30 Mg/l          |
| Tue, Feb 7           | 3.100 | 4.0  | 103      | 4.7   | 122      | 0.55 | 0.28    | 7.61 | 54                                      | 17       | 6.4    |           | Aprill 30          | 417<br>Lbs/Day | 417<br>Lbs/Day | 626 lbs/Day      |
| Wed, Feb 8           | 2.990 |      |          |       |          |      |         | 7.33 | 123                                     |          |        |           | May1 -             | 10 Mg/L        | 10 Mg/L        | 15Mg/L           |
| Thur, Feb 9          | 2.960 | 3.2  | 79       | 4.7   | 116      | 0.10 |         | 7.55 |   |          |        |           | Sept. 30           | 209<br>Lhs/Day | 209 lbs/Day    | / 313<br>Lhs/day |
| Fri, Feb 10          | 2.820 |      |          |       |          |      |         | 7.30 |   |          |        |           | NH3                | 1115/11/05     |                | TUSTIAN          |
| Sat, Feb 11          | 2.830 |      |          |       |          |      |         | 7.26 |   |          |        |           | Oct.1 - Mar.       |                |                |                  |
| Sun, Feb 12          | 2.940 |      |          |       |          |      |         | 7.28 |   |          |        |           | 31                 | 3.3 Mg/L       | 3.3 Mg/l       | 5.7 Mg/L         |
| Mon, Feb 13          | 2.760 |      |          |       |          |      |         | 7.39 | 219                                     |          |        |           | Apr. 1 -           |                |                |                  |
| Tue, Feb 14          | 2.620 | 2.0  | 44       | 4.7   | 103      | 0.16 | 0.19    | 7.25 | 50                                      |          |        |           | May 31             | 2.5 Mg/L       | 2.5 Mg/l       | 5.7 Mg/l         |
| Wed, Feb 15          | 2.630 |      |          |       |          |      |         | 7.21 | 129                                     |          |        |           | June1 -            |                |                |                  |
| Thur, Feb 16         | 2.640 | 2.4  | 53       | 3.3   | 73       | 1.30 |         | 7.23 |   |          |        |           | Sept. 30           | 1.0 Mg/L       | 1.0 Mg/L       | 1.5 Mg/L         |
| Fri, Feb 17          | 2.560 |      |          |       |          |      |         | 6.77 |   |          |        |           | Total Phps         | phorus         |                |                  |
| Sat, Feb 18          | 2.600 |      |          |       |          |      |         | 6.80 |   |          |        |           | Apr.1 -            |                | ******         | *********        |
| Sun, Feb 19          | 2.740 |      |          |       |          |      |         | 7.32 |   |          |        |           | Oct.31             | 0.2 Mg/L       | ********       | *******          |
| Mon, Feb 20          | 2.530 |      |          |       |          |      |         | 7.41 | 68                                      |          |        |           | Nov. 1 -           |                |                |                  |
| Tue, Feb 21          | 2.560 | 4.9  | 105      | 11.0  | 235      | 0.93 | 0.43    | 7.50 | 40                                      |          |        |           | Mar. 31            | 1.0 Mg/L       | *******        | *******          |
| Wed, Feb 22          | 2.560 |      |          |       |          |      |         | 7.49 | 7                                       |          |        |           | Ph                 |                |                |                  |
| Thur, Feb 23         | 2.820 | 3.7  | 87       | 4.0   | 94       | 0.31 |         | 7.44 |   |          |        |           |                    | 6.5            | - 8.3          |                  |
| Fri, Feb 24          | 2.810 |      |          |       |          |      |         | 7.41 |   |          |        |           | Fecal              |                |                |                  |
| Sat, Feb 25          | 2.860 |      |          |       |          |      |         | 7.41 |   |          |        |           |                    | 200            | П              | 400              |
| Sun, Feb 26          | 2.980 |      |          |       |          |      |         | 7.32 |   |          |        |           | *******            | CFU/100ml      | *******        | CFU/100ml        |
| Mon, Feb 27          | 2.720 |      |          |       |          |      |         | 7.40 | 395                                     |          |        |           | Aluminum           |                |                |                  |
| Tue, Feb 28          | 2.800 | 4.6  | 107      | 7.3   | 170      | 0.93 | 0.44    | 7.57 | 25                                      |          |        |           | ******             | 88 ug/l        | *********      | *******          |
|                      |       |      |          |       |          |      |         |      |   |          |        |           | Copper             | -5             |                |                  |
|                      |       |      |          |       |          |      |         |      |   |          |        |           |                    |                |                |                  |
|                      |       |      |          |       |          |      |         |      |   |          |        |           |                    |                |                |                  |
| Daily Max            | 2.010 | 7.00 | 240.05   | 11.00 | 224.05   | 2.70 | 0.44    | 7.61 |   | ******   | ****** | ******    | May 1 -            |                | > 7.4 mg/l     |                  |
| Daily Max Daily Min. | 3.910 | 7.90 | 249.05   | 11.00 | 234.85   | 2.70 | 0.44    | 7.61 | ******                                  | ******   | ****** |           | > 7.4 mg/L<br>     |                |                |                  |
| ,                    | 2.530 |      |          |       |          |      |         | 6.77 | *************************************** |          |        | ******    | Plant Flow 2.5 MGD |                |                |                  |
| Month Avg.           | 2.942 | 4.09 | 103.38   | 5.88  | 142.88   | 0.87 | 0.33    | 7.28 |   | 17       | 6.4    | *******   |                    | 2.5            | IVIGD          |                  |

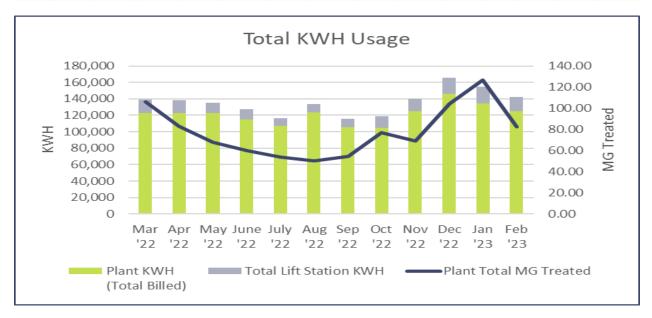
#### 7.0 ENERGY CONSUMPTION

#### 7.1 ELECTRICAL OVERVIEW

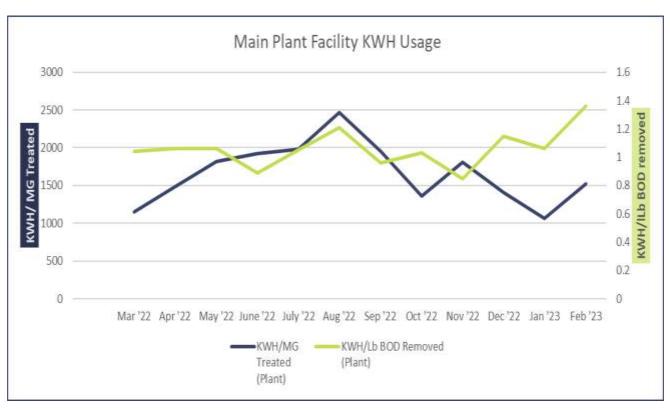
The department used a total of **142,112** *KWH* for the month of February 2023. Of this total, the lift stations accounted for **12%**, using **16,712** KWH. The Main Plant accounted for the remaining **125,400** KWH.

The KWH/ MG treated was 1,522 for the month, which is 7% lower than the previous 12-month average of 1,639 KWH/MG. The KWH/Lb. BOD Removed was 1.36 KWH/Lb. for the month, which is 23% higher than the previous 12-month average of 1.05 KWH/Lb.

|          |                  |                  |        |           |                    | Monthly | Lift Statio | n KWH   |        |         |        |          |            |        |
|----------|------------------|------------------|--------|-----------|--------------------|---------|-------------|---------|--------|---------|--------|----------|------------|--------|
| Month    | Hingham<br>North | Hingham<br>South | Spruce | Butternut | Old Country<br>Way | Market  | Woodsbury   | Lincoln | Forest | Wheeler | Summer | Milbrook | John Burke | Total  |
| Mar '22  | 2,995            | 5,100            | 246    | 434       | 1,353              | 851     | 1,353       | 283     | 1,915  | 58      | 67     | 1,524    | 236        | 16,322 |
| Apr '22  | 3,149            | 5,000            | 215    | 161       | 1,332              | 964     | 1,332       | 280     | 1,809  | 72      | 69     | 1,562    | 185        | 15,055 |
| May '22  | 2,429            | 4,100            | 111    | 58        | 930                | 667     | 930         | 176     | 1,418  | 57      | 61     | 1,256    | 116        | 12,380 |
| June '22 | 2,540            | 4,300            | 109    | 63        | 853                | 347     | 892         | 168     | 1,371  | 59      | 74     | 1,234    | 113        | 12,123 |
| July '22 | 2,119            | 2,900            | 110    | 49        | 741                | 337     | 685         | 134     | 1,202  | 49      | 69     | 832      | 89         | 9,326  |
| Aug '22  | 2,293            | 3,200            | 102    | 54        | 871                | 334     | 820         | 153     | 1,337  | 54      | 68     | 967      | 91         | 10,344 |
| Sept '22 | 2,094            | 2,900            | 110    | 48        | 807                | 348     | 928         | 172     | 1,269  | 48      | 56     | 1,015    | 82         | 9,877  |
| Oct '22  | 2,943            | 4,100            | 195    | 73        | 952                | 887     | 1,308       | 260     | 1,942  | 69      | 80     | 1,325    | 142        | 14,276 |
| Nov'22   | 2,907            | 4,600            | 218    | 66        | 1,184              | 832     | 1,240       | 308     | 2,043  | 63      | 67     | 1,734    | 207        | 15,469 |
| Dec'22   | 3,575            | 6,100            | 156    | 83        | 1,427              | 957     | 1,841       | 352     | 2,515  | 63      | 63     | 2,026    | 263        | 19,421 |
| Jan '23  | 3,577            | 6,500            | 145    | 90        | 1,802              | 924     | 1,848       | 341     | 2,466  | 123     | 62     | 1,863    | 308        | 20,049 |
| Feb '23  | 3,039            | 5,000            | 141    | 70        | 1,281              | 862     | 1,440       | 325     | 2,187  | 227     | 59     | 1,749    | 332        | 16,712 |
| Average  | 2,805            | 4,483            | 155    | 104       | 1,128              | 693     | 1,218       | 246     | 1,790  | 79      | 66     | 1,424    | 180        | 14,280 |



|          | Monthly Energy Consumption               |                                 |                             |                              |                             |                                  |                               |                           |                              |                                    |
|----------|--|---------------------------------|-----------------------------|------------------------------|-----------------------------|----------------------------------|-------------------------------|---------------------------|------------------------------|------------------------------------|
| Month    | Plant Average<br>Daily Flow<br>(NO HFMP) | Plant Total<br>Influent<br>Flow | Plant KWH<br>(Total Billed) | KWH/MG<br>Treated<br>(Plant) | Plant Lbs<br>BOD<br>Removed | KWH/Lb BOD<br>Removed<br>(Plant) | Off Peak<br>Demand<br>(Plant) | Peak<br>Demand<br>(Plant) | Total Lift<br>Station<br>KWH | Total KWH<br>(Plant &<br>Stations) |
|          | MGD                                      | MG                              | KWH                         | KWH/MG                       | Lbs                         | KWH/Lb                           | KW                            | KW                        | KWH                          | KWH                                |
| Mar '22  | 3.43                                     | 106.19                          | 122,400                     | 1,153                        | 117,284                     | 1.04                             | 222                           | 222                       | 16,322                       | 138,722                            |
| Apr'22   | 2.77                                     | 82.96                           | 123,000                     | 1,483                        | 115,947                     | 1.06                             | 198                           | 204                       | 15,055                       | 138,055                            |
| May '22  | 2.19                                     | 67.74                           | 123,000                     | 1,816                        | 116,352                     | 1.06                             | 183                           | 198                       | 12,380                       | 135,380                            |
| June '22 | 1.99                                     | 59.74                           | 114,900                     | 1,923                        | 129,049                     | 0.89                             | 189                           | 201                       | 12,123                       | 127,023                            |
| July '22 | 1.74                                     | 53.9                            | 106,800                     | 1,981                        | 101,883                     | 1.05                             | 198                           | 216                       | 9,326                        | 116,126                            |
| Aug '22  | 1.61                                     | 50.02                           | 123,300                     | 2,465                        | 101,859                     | 1.21                             | 177                           | 195                       | 10,344                       | 133,644                            |
| Sep '22  | 1.81                                     | 54.23                           | 105,900                     | 1,953                        | 110,510                     | 0.96                             | 186                           | 210                       | 9,877                        | 115,777                            |
| Oct '22  | 2.48                                     | 76.91                           | 104,700                     | 1,361                        | 101,712                     | 1.03                             | 195                           | 201                       | 14,276                       | 118,976                            |
| Nov '22  | 2.3                                      | 68.86                           | 124,800                     | 1,812                        | 146,152                     | 0.85                             | 186                           | 213                       | 15,469                       | 140,269                            |
| Dec '22  | 3.36                                     | 104.19                          | 146,400                     | 1,405                        | 127,264                     | 1.15                             | 243                           | 258                       | 19,421                       | 165,821                            |
| Jan '23  | 4.08                                     | 126.55                          | 134,400                     | 1,062                        | 126,998                     | 1.06                             | 252                           | 258                       | 20,049                       | 154,449                            |
| Feb '23  | 2.94                                     | 82.38                           | 125,400                     | 1,522                        | 92,522                      | 1.36                             | 213                           | 210                       | 16,712                       | 142,112                            |
| Average  | 2.56                                     | 77.81                           | 121,250                     | 1,661                        | 115,628                     | 1.06                             | 204                           | 216                       | 14,280                       | 135,530                            |



# 8.0 MAINTENANCE

#### 8.1 WORK ORDER OVERVIEW

| WO Type                   | Total This Month | Total This Year |
|---------------------------|------------------|-----------------|
| Preventative Maintenance  | 152              | 318             |
| Corrective Maintenance    | 6                | 38              |
| Emergency Call Outs Total | 3                | 9               |

#### 8.2 SIGNIFICANT CORRECTIVE WORK ORDERS FOR THE MONTH

| CM Description | WO #                      |
|----------------|---------------------------|
| 23414          | EIS replaced modem for    |
| 23414          | SCADA                     |
|                | Sounder Systems           |
| 23415          | Replacing the fire alarms |
|                | in the main building      |

#### 8.3 EMERGENCY CALL OUTS FOR THE MONTH

| Туре                                 | Total this Month | Total this Year |
|--------------------------------------|------------------|-----------------|
| Sewer Back Up / Collection<br>System | 4                | 6               |
| Pump Station                         | 1                | 5               |
| Plant                                | 1                | 3               |
| Odor                                 | 0                | 0               |
| Power Outages                        | 1                | 1               |
| Total:                               | 7                | 15              |

#### 8.4 INSPECTIONS / ANNUAL PMS COMPLETED DURING THE MONTH

- 1. All pump station alarms checked
- 2. Spruce probe cleaned weekly
- 3. Eye wash inspections completed weekly
- 4. Fire extinguisher inspections completed monthly
- 5. Annual UST Inspection for Digester Boiler and Plant Generator

## 8.5 COLLECTION SYSTEM AND IPP ASSISTANCE PERFORMED BY VEOLIA

#### **COLLECTION SYSTEM ASSITANCE:**

| Туре                       | Total This Month | Total This Year |
|----------------------------|------------------|-----------------|
| Sewer Inspection / Tie-Ins | 0                | 0               |
| Sewer Location mark Outs   | 41               | 122             |
| Sewer Back Up              | 4                | 4               |

#### 8.6 WORK ORDER STATISTICS

There were **83.50** total reported maintenance hours during the month. Of this total, outside contractors accounted for 29% with **24** hours recorded.

