

**CITY OF WEST KELOWNA**

# Monthly Water Quality Report



Rose Valley Water Service Area

April 2025

# WATER SUPPLY AND TREATMENT





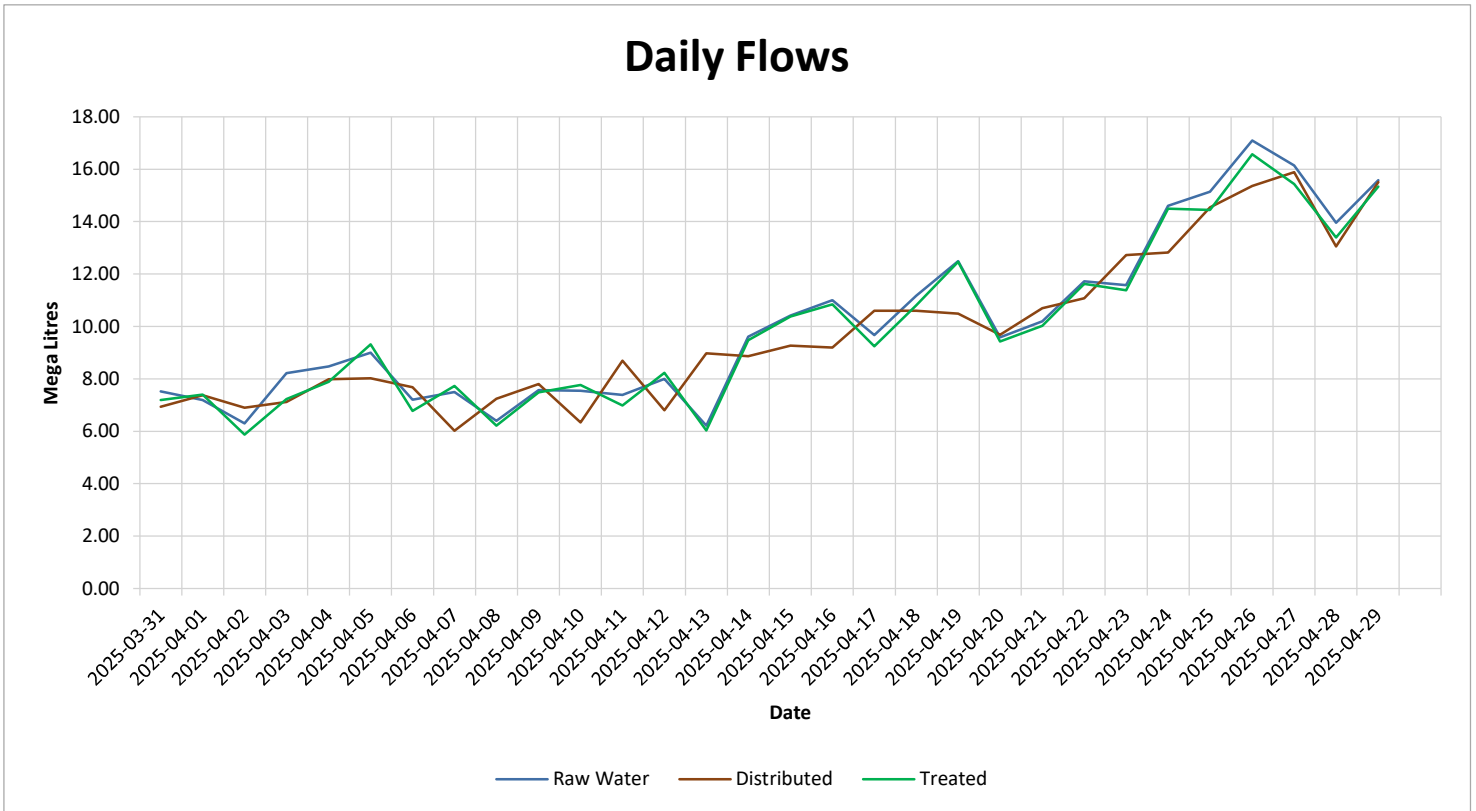
# Rose Valley Water Treatment Plant Monthly Water Quality Summary

2025-05-05

**April, 2025**

## Flow Demand:

|                      |                 |
|----------------------|-----------------|
|                      | Total for Month |
| Raw Processed Water: | 304.52 ML       |
| Treated Water :      | 297.49 ML       |
| Distributed Water :  | 294.26 ML       |
| Backwash Water :     | 10.80979 ML     |



## Notes:

## Raw Water Specifications:

| Date       | Raw Turbidity (NTU) |         |         | Raw pH |      |         |
|------------|---------------------|---------|---------|--------|------|---------|
|            | Min                 | Max     | Average | Min    | Max  | Average |
| 2025-04-01 | 0.95                | 2.00    | 1.49    | 7.74   | 8.12 | 7.91    |
| 2025-04-02 | 1.40                | 2.27    | 1.65    | 7.83   | 8.26 | 7.93    |
| 2025-04-03 | 1.27                | 2.11    | 1.58    | 7.88   | 8.46 | 8.07    |
| 2025-04-04 | 1.13                | 1.53    | 1.29    | 7.94   | 8.33 | 8.02    |
| 2025-04-05 | 1.17                | 1.67    | 1.31    | 7.84   | 8.01 | 7.93    |
| 2025-04-06 | 1.16                | 1.57    | 1.37    | 7.82   | 8.32 | 7.95    |
| 2025-04-07 | 1.07                | 1.34    | 1.16    | 7.89   | 8.23 | 8.08    |
| 2025-04-08 | 0.01                | 518.22  | 0.99    | 7.67   | 8.28 | 8.00    |
| 2025-04-09 | 1.20                | 1.53    | 1.35    | 7.88   | 8.11 | 7.96    |
| 2025-04-10 | 1.00                | 1.44    | 1.17    | 7.94   | 8.27 | 8.12    |
| 2025-04-11 | 1.01                | 1.35    | 1.17    | 7.91   | 7.98 | 7.93    |
| 2025-04-12 | 1.22                | 1.71    | 1.48    | 7.94   | 8.32 | 8.19    |
| 2025-04-13 | 0.92                | 1.36    | 1.06    | 8.05   | 8.26 | 8.16    |
| 2025-04-14 | 0.89                | 1.41    | 1.14    | 7.96   | 8.19 | 8.06    |
| 2025-04-15 | 1.06                | 1.72    | 1.37    | 7.96   | 8.28 | 8.13    |
| 2025-04-16 | 1.01                | 1.47    | 1.20    | 8.02   | 8.20 | 8.13    |
| 2025-04-17 | 0.75                | 24.34   | 0.90    | 7.98   | 8.08 | 8.04    |
| 2025-04-18 | 0.88                | 17.25   | 1.03    | 7.92   | 8.04 | 8.00    |
| 2025-04-19 | 0.89                | 1.50    | 1.08    | 7.91   | 8.10 | 7.99    |
| 2025-04-20 | 0.70                | 8.36    | 0.94    | 7.92   | 8.02 | 7.96    |
| 2025-04-21 | 1.01                | 1.71    | 1.23    | 7.91   | 8.04 | 7.98    |
| 2025-04-22 | 0.62                | 63.87   | 1.03    | 7.91   | 7.99 | 7.95    |
| 2025-04-23 | 0.63                | 233.08  | 10.13   | 7.46   | 8.00 | 7.87    |
| 2025-04-24 | 0.66                | 11.18   | 1.03    | 7.49   | 8.14 | 7.90    |
| 2025-04-25 | 0.69                | 39.23   | 1.15    | 7.74   | 8.01 | 7.89    |
| 2025-04-26 | 0.60                | 16.30   | 0.75    | 7.85   | 7.92 | 7.88    |
| 2025-04-27 | 0.67                | 10.14   | 0.81    | 7.78   | 7.91 | 7.87    |
| 2025-04-28 | 0.54                | 16.02   | 0.73    | 7.80   | 7.96 | 7.91    |
| 2025-04-29 | 0.00                | 1168.00 | 0.76    | 7.80   | 8.16 | 7.91    |
| 2025-04-30 | 0.00                | 28.27   | 0.75    | 7.82   | 7.96 | 7.92    |

### Notes:

Raw water analyzer not put on hold for am flushing on the 8th, , and 29th. On April 23rd we shut down our raw water main for maintenance and permanganate quill investigation, we ran about 80NTU to plant for around 4 hours which it treated nicely. Two spikes of 230NTU lasted 10 seconds then cleared.

## Raw Water Specifications (Continued):

| Date       | Raw Temp (°C) |       |         | Raw DOC (mg/L) |        |         |
|------------|---------------|-------|---------|----------------|--------|---------|
|            | Min           | Max   | Average | Min            | Max    | Average |
| 2025-04-01 | 5.36          | 6.14  | 5.70    | 10.55          | 11.62  | 10.91   |
| 2025-04-02 | 5.66          | 6.45  | 5.88    | 10.55          | 11.28  | 10.91   |
| 2025-04-03 | 5.81          | 6.81  | 6.15    | 10.55          | 12.26  | 11.00   |
| 2025-04-04 | 6.06          | 6.71  | 6.22    | 10.74          | 11.53  | 11.00   |
| 2025-04-05 | 6.18          | 6.70  | 6.39    | 9.96           | 12.36  | 10.95   |
| 2025-04-06 | 6.18          | 7.03  | 6.54    | 10.55          | 12.01  | 10.92   |
| 2025-04-07 | 6.33          | 6.87  | 6.65    | 10.21          | 11.38  | 10.88   |
| 2025-04-08 | 6.34          | 11.97 | 7.44    | 0.00           | 18.36  | 8.34    |
| 2025-04-09 | 6.34          | 6.65  | 6.51    | 10.50          | 11.48  | 10.80   |
| 2025-04-10 | 6.55          | 7.19  | 6.94    | 10.40          | 11.87  | 10.78   |
| 2025-04-11 | 6.70          | 6.84  | 6.74    | 10.31          | 12.36  | 10.71   |
| 2025-04-12 | 6.80          | 7.78  | 7.40    | 10.16          | 12.80  | 10.75   |
| 2025-04-13 | 7.39          | 7.80  | 7.59    | 10.06          | 11.38  | 10.69   |
| 2025-04-14 | 7.36          | 7.76  | 7.59    | 9.96           | 13.09  | 10.68   |
| 2025-04-15 | 7.32          | 8.82  | 7.94    | 9.96           | 14.65  | 10.64   |
| 2025-04-16 | 8.07          | 18.35 | 8.67    | 9.47           | 12.70  | 10.61   |
| 2025-04-17 | 8.26          | 8.85  | 8.47    | 9.08           | 11.28  | 10.53   |
| 2025-04-18 | 8.26          | 8.67  | 8.48    | 9.67           | 12.94  | 10.49   |
| 2025-04-19 | 8.21          | 9.39  | 8.67    | 10.16          | 12.45  | 10.50   |
| 2025-04-20 | 8.55          | 9.15  | 8.73    | 10.06          | 11.53  | 10.41   |
| 2025-04-21 | 8.52          | 9.54  | 9.00    | 9.96           | 11.28  | 10.38   |
| 2025-04-22 | 8.82          | 9.29  | 9.12    | 9.47           | 11.38  | 10.38   |
| 2025-04-23 | 8.87          | 13.70 | 9.97    | 8.50           | 43.71  | 12.87   |
| 2025-04-24 | 9.47          | 12.77 | 10.68   | 9.18           | 12.45  | 10.38   |
| 2025-04-25 | 9.39          | 15.60 | 9.90    | 0.00           | 47.67  | 10.34   |
| 2025-04-26 | 9.62          | 10.77 | 10.18   | 9.08           | 11.48  | 10.24   |
| 2025-04-27 | 10.13         | 13.59 | 10.80   | 9.18           | 12.11  | 10.20   |
| 2025-04-28 | 9.55          | 10.97 | 10.00   | 8.94           | 120.34 | 10.26   |
| 2025-04-29 | 9.49          | 12.87 | 10.11   | 0.00           | 31.65  | 9.91    |
| 2025-04-30 | 10.15         | 14.83 | 10.69   | 8.16           | 50.99  | 10.13   |

Notes:

**Raw Water Specifications (Continued):**

| Date       | Raw Cond R (µS/cm) |        |         | Streaming Current |        |         |
|------------|--------------------|--------|---------|-------------------|--------|---------|
|            | Min                | Max    | Average | Min               | Max    | Average |
| 2025-04-01 | 110.76             | 112.99 | 111.92  | -51.89            | 7.45   | -22.17  |
| 2025-04-02 | 110.54             | 113.03 | 111.83  | -247.01           | 76.80  | -47.24  |
| 2025-04-03 | 110.20             | 112.63 | 111.49  | -91.70            | 87.79  | -19.00  |
| 2025-04-04 | 110.33             | 112.22 | 111.25  | -58.49            | -5.74  | -21.94  |
| 2025-04-05 | 109.87             | 111.87 | 110.84  | -47.74            | -10.87 | -25.39  |
| 2025-04-06 | 109.03             | 112.16 | 110.73  | -242.86           | 71.92  | -68.76  |
| 2025-04-07 | 109.03             | 111.54 | 110.31  | -56.04            | -7.45  | -30.17  |
| 2025-04-08 | 82.01              | 113.13 | 93.61   | -251.89           | 69.72  | -50.40  |
| 2025-04-09 | 80.48              | 87.16  | 82.88   | -35.29            | 2.32   | -19.52  |
| 2025-04-10 | 84.47              | 112.11 | 101.39  | -110.50           | 3.54   | -27.78  |
| 2025-04-11 | 110.14             | 115.17 | 112.08  | -236.02           | 80.46  | -12.96  |
| 2025-04-12 | 114.11             | 116.73 | 115.35  | -68.25            | -1.59  | -41.12  |
| 2025-04-13 | 115.06             | 116.89 | 115.92  | -207.94           | 35.78  | -53.63  |
| 2025-04-14 | 113.61             | 116.59 | 115.12  | -76.56            | -11.11 | -24.34  |
| 2025-04-15 | 113.52             | 115.99 | 114.76  | -65.81            | -8.18  | -30.00  |
| 2025-04-16 | 113.47             | 115.86 | 114.68  | -140.29           | -7.94  | -29.30  |
| 2025-04-17 | 112.82             | 115.16 | 113.87  | -41.15            | 0.37   | -17.23  |
| 2025-04-18 | 111.67             | 114.31 | 112.94  | -42.86            | 15.26  | -19.35  |
| 2025-04-19 | 111.66             | 113.96 | 112.66  | -41.15            | 11.11  | -13.72  |
| 2025-04-20 | 111.36             | 113.27 | 112.35  | -44.81            | -4.52  | -22.56  |
| 2025-04-21 | 110.92             | 112.88 | 111.86  | -47.01            | 2.08   | -20.41  |
| 2025-04-22 | 110.38             | 112.42 | 111.30  | -115.14           | -9.16  | -23.08  |
| 2025-04-23 | 109.51             | 111.75 | 110.76  | -243.35           | 121.98 | -66.80  |
| 2025-04-24 | 108.88             | 111.62 | 110.37  | -261.90           | 177.41 | -44.88  |
| 2025-04-25 | 107.76             | 111.10 | 109.70  | -285.10           | 217.22 | -30.63  |
| 2025-04-26 | 107.82             | 110.43 | 109.08  | -39.93            | -5.01  | -22.44  |
| 2025-04-27 | 107.69             | 110.06 | 108.82  | -54.82            | -7.45  | -31.13  |
| 2025-04-28 | 106.43             | 109.86 | 108.05  | -227.72           | 165.93 | -48.79  |
| 2025-04-29 | 76.39              | 113.97 | 92.71   | -248.72           | 76.07  | -31.65  |
| 2025-04-30 | 76.97              | 97.78  | 82.02   | -201.83           | -13.55 | -29.46  |

Notes:

## Raw Water Specifications (Continued):

| Date       | Coagulated pH |      |         | Coagulated Temp (°C) |       |         |
|------------|---------------|------|---------|----------------------|-------|---------|
|            | Min           | Max  | Average | Min                  | Max   | Average |
| 2025-04-01 | 7.51          | 7.64 | 7.57    | 5.33                 | 6.11  | 5.70    |
| 2025-04-02 | 7.51          | 7.74 | 7.58    | 5.71                 | 6.51  | 5.92    |
| 2025-04-03 | 7.50          | 7.78 | 7.61    | 5.83                 | 6.79  | 6.19    |
| 2025-04-04 | 7.57          | 7.73 | 7.60    | 6.10                 | 6.69  | 6.28    |
| 2025-04-05 | 7.52          | 7.59 | 7.56    | 5.98                 | 6.44  | 6.25    |
| 2025-04-06 | 7.49          | 7.71 | 7.58    | 5.97                 | 6.69  | 6.18    |
| 2025-04-07 | 7.54          | 7.77 | 7.65    | 6.18                 | 7.12  | 6.66    |
| 2025-04-08 | 7.58          | 8.05 | 7.75    | 6.45                 | 6.99  | 6.62    |
| 2025-04-09 | 7.57          | 7.64 | 7.61    | 6.45                 | 7.39  | 6.62    |
| 2025-04-10 | 7.60          | 7.76 | 7.68    | 6.77                 | 7.30  | 7.08    |
| 2025-04-11 | 7.46          | 7.89 | 7.62    | 6.79                 | 7.43  | 6.91    |
| 2025-04-12 | 7.63          | 7.79 | 7.72    | 6.98                 | 7.86  | 7.50    |
| 2025-04-13 | 7.58          | 8.04 | 7.68    | 7.48                 | 8.39  | 7.70    |
| 2025-04-14 | 7.63          | 7.68 | 7.66    | 7.44                 | 7.94  | 7.72    |
| 2025-04-15 | 7.63          | 7.77 | 7.69    | 7.41                 | 8.90  | 8.03    |
| 2025-04-16 | 7.62          | 7.73 | 7.67    | 8.16                 | 9.58  | 8.69    |
| 2025-04-17 | 7.62          | 7.69 | 7.65    | 8.35                 | 8.95  | 8.63    |
| 2025-04-18 | 7.63          | 7.68 | 7.66    | 8.32                 | 9.09  | 8.49    |
| 2025-04-19 | 7.64          | 7.74 | 7.69    | 8.26                 | 9.39  | 8.70    |
| 2025-04-20 | 7.66          | 7.70 | 7.68    | 8.62                 | 9.47  | 8.76    |
| 2025-04-21 | 7.65          | 7.71 | 7.68    | 8.62                 | 9.59  | 9.05    |
| 2025-04-22 | 7.65          | 7.69 | 7.67    | 8.87                 | 9.49  | 9.17    |
| 2025-04-23 | 7.55          | 7.91 | 7.66    | 8.67                 | 10.47 | 9.43    |
| 2025-04-24 | 6.38          | 7.98 | 7.62    | 9.20                 | 10.50 | 9.73    |
| 2025-04-25 | 4.82          | 8.05 | 7.65    | 9.33                 | 9.79  | 9.48    |
| 2025-04-26 | 7.61          | 7.68 | 7.65    | 9.50                 | 9.77  | 9.66    |
| 2025-04-27 | 7.64          | 7.68 | 7.66    | 9.57                 | 10.11 | 9.81    |
| 2025-04-28 | 7.57          | 7.77 | 7.67    | 9.64                 | 10.13 | 9.89    |
| 2025-04-29 | 7.04          | 7.71 | 7.40    | 9.60                 | 18.50 | 10.21   |
| 2025-04-30 | 7.27          | 7.40 | 7.29    | 10.09                | 10.43 | 10.23   |

Notes:

## Raw Water Specifications (Continued):

| Date       | Raw Cond Y ( $\mu\text{S}/\text{cm}$ ) |        |         | Raw Water DO (mg/L) |       |         |
|------------|--|--------|---------|---------------------|-------|---------|
|            | Min                                    | Max    | Average | Min                 | Max   | Average |
| 2025-04-01 | 29.42                                  | 124.65 | 122.60  | 11.02               | 12.83 | 11.85   |
| 2025-04-02 | 122.41                                 | 125.39 | 123.32  | 11.33               | 13.41 | 11.93   |
| 2025-04-03 | 29.79                                  | 127.14 | 124.45  | 11.68               | 13.89 | 12.49   |
| 2025-04-04 | 10.54                                  | 126.92 | 125.83  | 12.02               | 13.40 | 12.31   |
| 2025-04-05 | 126.00                                 | 127.31 | 126.72  | 11.34               | 12.20 | 11.88   |
| 2025-04-06 | 126.20                                 | 129.05 | 127.13  | 11.28               | 13.35 | 11.83   |
| 2025-04-07 | 126.95                                 | 131.64 | 129.30  | 11.67               | 13.07 | 12.49   |
| 2025-04-08 | 129.02                                 | 148.71 | 132.22  | 10.44               | 12.62 | 11.88   |
| 2025-04-09 | 129.16                                 | 131.23 | 130.31  | 11.72               | 12.25 | 11.99   |
| 2025-04-10 | 7.53                                   | 135.13 | 132.69  | 11.90               | 12.84 | 12.40   |
| 2025-04-11 | 132.20                                 | 135.30 | 133.30  | 11.58               | 11.87 | 11.71   |
| 2025-04-12 | 133.55                                 | 158.23 | 145.13  | 11.21               | 12.55 | 11.88   |
| 2025-04-13 | 139.05                                 | 158.68 | 149.74  | 11.06               | 12.12 | 11.58   |
| 2025-04-14 | 15.55                                  | 160.13 | 149.44  | 11.07               | 11.91 | 11.46   |
| 2025-04-15 | 137.99                                 | 170.69 | 154.77  | 9.89                | 11.84 | 11.08   |
| 2025-04-16 | 87.60                                  | 167.63 | 149.89  | 9.37                | 12.09 | 11.68   |
| 2025-04-17 | 144.50                                 | 154.32 | 146.99  | 11.28               | 11.77 | 11.57   |
| 2025-04-18 | 149.75                                 | 176.56 | 163.53  | 8.34                | 11.46 | 10.29   |
| 2025-04-19 | 148.22                                 | 175.51 | 160.29  | 6.57                | 11.41 | 10.36   |
| 2025-04-20 | 150.49                                 | 168.75 | 163.03  | 8.83                | 11.02 | 10.02   |
| 2025-04-21 | 149.55                                 | 168.45 | 154.94  | 7.59                | 11.23 | 10.72   |
| 2025-04-22 | 11.01                                  | 165.69 | 156.61  | 10.00               | 10.98 | 10.66   |
| 2025-04-23 | 7.01                                   | 168.59 | 132.11  | 9.31                | 10.67 | 9.96    |
| 2025-04-24 | 8.44                                   | 164.75 | 71.30   | 9.46                | 10.86 | 10.11   |
| 2025-04-25 | 76.63                                  | 166.29 | 155.40  | 10.19               | 10.85 | 10.59   |
| 2025-04-26 | 153.56                                 | 167.96 | 155.11  | 10.21               | 10.72 | 10.58   |
| 2025-04-27 | 154.18                                 | 170.34 | 156.79  | 9.63                | 10.66 | 10.45   |
| 2025-04-28 | 5.94                                   | 164.46 | 155.01  | 9.84                | 10.65 | 10.44   |
| 2025-04-29 | 28.83                                  | 160.55 | 156.82  | 9.87                | 10.71 | 10.36   |
| 2025-04-30 | 10.64                                  | 160.48 | 158.77  | 10.12               | 10.48 | 10.32   |

**Notes:**

### Train 1 Filter Turbidity (NTU):

| Date       | Filter 1 |        |         | Filter 2 |        |         | Filter 3 |      |         |
|------------|----------|--------|---------|----------|--------|---------|----------|------|---------|
|            | Min      | Max    | Average | Min      | Max    | Average | Min      | Max  | Average |
| 2025-04-01 | 0.01     | 0.03   | 0.02    | 0.02     | 0.05   | 0.02    | 0.07     | 0.08 | 0.08    |
| 2025-04-02 | 0.01     | 566.31 | 0.10    | 0.01     | 0.06   | 0.02    | 0.01     | 0.51 | 0.07    |
| 2025-04-03 | 0.01     | 1.89   | 0.03    | 0.00     | 345.47 | 0.08    | 0.01     | 0.02 | 0.01    |
| 2025-04-04 | 0.01     | 0.02   | 0.02    | 0.01     | 0.05   | 0.02    | 0.01     | 0.02 | 0.01    |
| 2025-04-05 | 0.02     | 0.02   | 0.02    | 0.01     | 0.02   | 0.02    | 0.01     | 0.02 | 0.01    |
| 2025-04-06 | 0.02     | 0.03   | 0.02    | 0.01     | 0.05   | 0.02    | 0.01     | 0.02 | 0.02    |
| 2025-04-07 | 0.01     | 0.03   | 0.02    | 0.01     | 0.02   | 0.01    | 0.02     | 0.02 | 0.02    |
| 2025-04-08 | 0.01     | 0.03   | 0.02    | 0.01     | 0.03   | 0.01    | 0.02     | 0.02 | 0.02    |
| 2025-04-09 | 0.01     | 0.05   | 0.02    | 0.01     | 0.04   | 0.01    | 0.02     | 0.03 | 0.02    |
| 2025-04-10 | 0.01     | 0.03   | 0.02    | 0.01     | 0.02   | 0.01    | 0.02     | 0.06 | 0.03    |
| 2025-04-11 | 0.01     | 0.06   | 0.02    | 0.01     | 0.03   | 0.02    | 0.02     | 0.03 | 0.03    |
| 2025-04-12 | 0.01     | 0.03   | 0.02    | 0.01     | 0.03   | 0.02    | 0.03     | 0.03 | 0.03    |
| 2025-04-13 | 0.02     | 0.11   | 0.02    | 0.02     | 0.04   | 0.02    | 0.03     | 0.03 | 0.03    |
| 2025-04-14 | 0.02     | 0.06   | 0.03    | 0.02     | 0.05   | 0.03    | 0.03     | 0.03 | 0.03    |
| 2025-04-15 | 0.02     | 0.04   | 0.03    | 0.02     | 0.04   | 0.03    | 0.03     | 0.05 | 0.03    |
| 2025-04-16 | 0.02     | 0.06   | 0.03    | 0.02     | 0.04   | 0.02    | 0.02     | 0.06 | 0.03    |
| 2025-04-17 | 0.02     | 0.03   | 0.03    | 0.02     | 0.08   | 0.03    | 0.01     | 0.03 | 0.02    |
| 2025-04-18 | 0.02     | 0.05   | 0.02    | 0.02     | 0.05   | 0.03    | 0.02     | 0.03 | 0.02    |
| 2025-04-19 | 0.02     | 0.04   | 0.02    | 0.02     | 0.04   | 0.03    | 0.02     | 0.03 | 0.02    |
| 2025-04-20 | 0.01     | 0.03   | 0.02    | 0.02     | 0.04   | 0.03    | 0.02     | 0.03 | 0.02    |
| 2025-04-21 | 0.02     | 0.05   | 0.02    | 0.03     | 0.04   | 0.03    | 0.01     | 0.05 | 0.02    |
| 2025-04-22 | 0.01     | 0.05   | 0.02    | 0.03     | 0.04   | 0.03    | 0.01     | 0.03 | 0.02    |
| 2025-04-23 | 0.01     | 0.05   | 0.02    | 0.01     | 0.06   | 0.02    | 0.01     | 0.04 | 0.01    |
| 2025-04-24 | 0.01     | 0.05   | 0.02    | 0.01     | 0.04   | 0.01    | 0.01     | 0.02 | 0.01    |
| 2025-04-25 | 0.01     | 0.04   | 0.02    | 0.01     | 0.03   | 0.02    | 0.01     | 0.03 | 0.01    |
| 2025-04-26 | 0.01     | 0.03   | 0.02    | 0.01     | 0.03   | 0.02    | 0.01     | 0.01 | 0.01    |
| 2025-04-27 | 0.01     | 0.04   | 0.02    | 0.01     | 0.02   | 0.02    | 0.01     | 0.01 | 0.01    |
| 2025-04-28 | 0.01     | 0.03   | 0.02    | 0.01     | 0.03   | 0.02    | 0.01     | 0.02 | 0.01    |
| 2025-04-29 | 0.01     | 0.05   | 0.02    | 0.01     | 0.03   | 0.01    | 0.01     | 0.03 | 0.01    |
| 2025-04-30 | 0.02     | 0.04   | 0.02    | 0.01     | 0.03   | 0.02    | 0.01     | 0.02 | 0.01    |

**Notes:**

**April 2nd & 3rd**, higher NTU's are observed in Filter 1 & 2 due to draining the filters completely for Maple Reinders to perform trough maintenance. No flow went to the clear well.  
**April 3rd** - Higher NTU's on Filter 3 due filling filter up to 10% to perform backwash and put into service after winter shut down.

## Train 2 Filter Turbidity (NTU)

| Date       | Filter 4 |        |         | Filter 5 |        |         | Filter 6 |        |         |
|------------|----------|--------|---------|----------|--------|---------|----------|--------|---------|
|            | Min      | Max    | Average | Min      | Max    | Average | Min      | Max    | Average |
| 2025-04-01 | 0.03     | 0.04   | 0.04    | 0.02     | 0.03   | 0.02    | 0.01     | 0.02   | 0.02    |
| 2025-04-02 | 0.02     | 237.96 | 0.28    | 0.02     | 0.07   | 0.02    | 0.01     | 211.82 | 0.05    |
| 2025-04-03 | 0.02     | 49.68  | 0.05    | 0.02     | 941.10 | 0.12    | 0.01     | 0.10   | 0.02    |
| 2025-04-04 | 0.02     | 0.04   | 0.03    | 0.02     | 0.03   | 0.02    | 0.01     | 0.05   | 0.02    |
| 2025-04-05 | 0.03     | 0.03   | 0.03    | 0.02     | 0.03   | 0.02    | 0.01     | 0.02   | 0.01    |
| 2025-04-06 | 0.03     | 0.05   | 0.03    | 0.02     | 0.03   | 0.02    | 0.01     | 0.06   | 0.01    |
| 2025-04-07 | 0.03     | 0.05   | 0.04    | 0.02     | 0.03   | 0.02    | 0.01     | 0.02   | 0.01    |
| 2025-04-08 | 0.04     | 0.04   | 0.04    | 0.02     | 0.03   | 0.02    | 0.01     | 0.08   | 0.01    |
| 2025-04-09 | 0.04     | 0.05   | 0.05    | 0.02     | 0.03   | 0.03    | 0.01     | 0.02   | 0.01    |
| 2025-04-10 | 0.05     | 0.05   | 0.05    | 0.02     | 0.03   | 0.03    | 0.01     | 0.02   | 0.01    |
| 2025-04-11 | 0.05     | 8.45   | 0.05    | 0.01     | 0.05   | 0.02    | 0.01     | 0.03   | 0.01    |
| 2025-04-12 | 0.05     | 0.06   | 0.06    | 0.01     | 0.04   | 0.02    | 0.01     | 0.02   | 0.01    |
| 2025-04-13 | 0.05     | 0.07   | 0.06    | 0.02     | 0.09   | 0.02    | 0.01     | 0.02   | 0.02    |
| 2025-04-14 | 0.05     | 0.08   | 0.06    | 0.02     | 0.04   | 0.02    | 0.01     | 0.03   | 0.02    |
| 2025-04-15 | 0.05     | 0.06   | 0.05    | 0.02     | 0.04   | 0.02    | 0.02     | 0.03   | 0.02    |
| 2025-04-16 | 0.05     | 0.06   | 0.05    | 0.01     | 0.04   | 0.02    | 0.02     | 0.03   | 0.02    |
| 2025-04-17 | 0.02     | 0.06   | 0.04    | 0.01     | 0.05   | 0.02    | 0.02     | 0.03   | 0.02    |
| 2025-04-18 | 0.02     | 0.03   | 0.02    | 0.01     | 0.04   | 0.02    | 0.02     | 0.03   | 0.02    |
| 2025-04-19 | 0.02     | 0.33   | 0.02    | 0.01     | 0.04   | 0.02    | 0.01     | 0.02   | 0.02    |
| 2025-04-20 | 0.01     | 26.38  | 0.02    | 0.01     | 0.03   | 0.02    | 0.01     | 0.04   | 0.02    |
| 2025-04-21 | 0.01     | 0.04   | 0.02    | 0.01     | 0.04   | 0.01    | 0.01     | 0.03   | 0.02    |
| 2025-04-22 | 0.01     | 7.08   | 0.02    | 0.01     | 0.03   | 0.02    | 0.01     | 0.03   | 0.02    |
| 2025-04-23 | 0.01     | 0.04   | 0.01    | 0.01     | 0.04   | 0.02    | 0.02     | 0.02   | 0.02    |
| 2025-04-24 | 0.01     | 0.16   | 0.02    | 0.01     | 0.04   | 0.02    | 0.02     | 0.03   | 0.02    |
| 2025-04-25 | 0.01     | 19.93  | 0.02    | 0.01     | 0.03   | 0.02    | 0.02     | 0.03   | 0.03    |
| 2025-04-26 | 0.01     | 0.06   | 0.01    | 0.01     | 0.03   | 0.01    | 0.01     | 0.03   | 0.02    |
| 2025-04-27 | 0.01     | 0.04   | 0.01    | 0.01     | 0.03   | 0.02    | 0.01     | 0.04   | 0.02    |
| 2025-04-28 | 0.01     | 0.03   | 0.01    | 0.01     | 0.04   | 0.01    | 0.01     | 0.03   | 0.02    |
| 2025-04-29 | 0.01     | 0.02   | 0.02    | 0.01     | 0.03   | 0.01    | 0.01     | 0.03   | 0.02    |
| 2025-04-30 | 0.02     | 0.04   | 0.02    | 0.01     | 0.02   | 0.01    | 0.01     | 0.02   | 0.02    |

### Notes:

- April 2nd & 3rd** - Filter 4, 5 & 6 showing higher NTU's on these days due to draining filters completely for trough maintenance and Filter 4 having its first fill and backwash since winter shut down.
- April 11th** - Filter 4 is offline and had a 15 sec spike. no flow through filter
- April 20th** - Filter 4, after the FTW cycle, had a small spike for 20 seconds and then returned back down to 0.05NTU
- April 22nd** - Filter 4 showed a small spike for 22 seconds. then returned to 0.01 NTU.
- April 25th** - Filter 4 displaying a 2 second spike up to 19.9 NTU then back down to 0.02.

**UV Treatment:**

| <b>Date</b> | <b>Average Flow<br/>(L/s)</b> | <b>Avg Validated Dose<br/>(mj/cm2)</b> | <b>Undosed Flow<br/>(ML)</b> |
|-------------|-------------------------------|--|------------------------------|
| 2025-04-01  | 72.97                         | 18.42                                  | 0.0000                       |
| 2025-04-02  | 95.76                         | 22.00                                  | 0.0009                       |
| 2025-04-03  | 95.16                         | 22.00                                  | 0.0000                       |
| 2025-04-04  | 107.64                        | 22.00                                  | 0.0000                       |
| 2025-04-05  | 85.18                         | 18.47                                  | 0.0000                       |
| 2025-04-06  | 93.90                         | 22.00                                  | 0.0007                       |
| 2025-04-07  | 73.49                         | 18.50                                  | 0.0000                       |
| 2025-04-08  | 90.89                         | 22.00                                  | 0.0008                       |
| 2025-04-09  | 92.51                         | 22.00                                  | 0.0000                       |
| 2025-04-10  | 84.94                         | 21.56                                  | 0.0000                       |
| 2025-04-11  | 95.64                         | 22.00                                  | 0.0121                       |
| 2025-04-12  | 73.85                         | 17.23                                  | 0.0000                       |
| 2025-04-13  | 109.20                        | 22.00                                  | 0.0007                       |
| 2025-04-14  | 117.27                        | 22.00                                  | 0.0000                       |
| 2025-04-15  | 128.87                        | 22.00                                  | 0.0000                       |
| 2025-04-16  | 114.06                        | 22.00                                  | 0.0000                       |
| 2025-04-17  | 128.06                        | 22.00                                  | 0.0003                       |
| 2025-04-18  | 147.11                        | 22.00                                  | 0.0000                       |
| 2025-04-19  | 112.17                        | 22.00                                  | 0.0000                       |
| 2025-04-20  | 119.30                        | 22.00                                  | 0.0000                       |
| 2025-04-21  | 137.77                        | 22.00                                  | 0.0000                       |
| 2025-04-22  | 129.93                        | 18.26                                  | 0.0000                       |
| 2025-04-23  | 165.95                        | 20.20                                  | 0.0000                       |
| 2025-04-24  | 175.10                        | 22.00                                  | 0.0000                       |
| 2025-04-25  | 204.13                        | 22.00                                  | 0.0000                       |
| 2025-04-26  | 186.20                        | 22.00                                  | 0.0000                       |
| 2025-04-27  | 178.73                        | 21.97                                  | 0.0000                       |
| 2025-04-28  | 166.51                        | 21.47                                  | 0.0000                       |
| 2025-04-29  | 204.71                        | 22.00                                  | 0.0000                       |
| 2025-04-30  | 218.35                        | 22.00                                  | 0.0000                       |

Monthly Total (ML): 0.0155

% of monthly water that was not UV treated: 0.005%

Notes:

## UV Transmittance %:

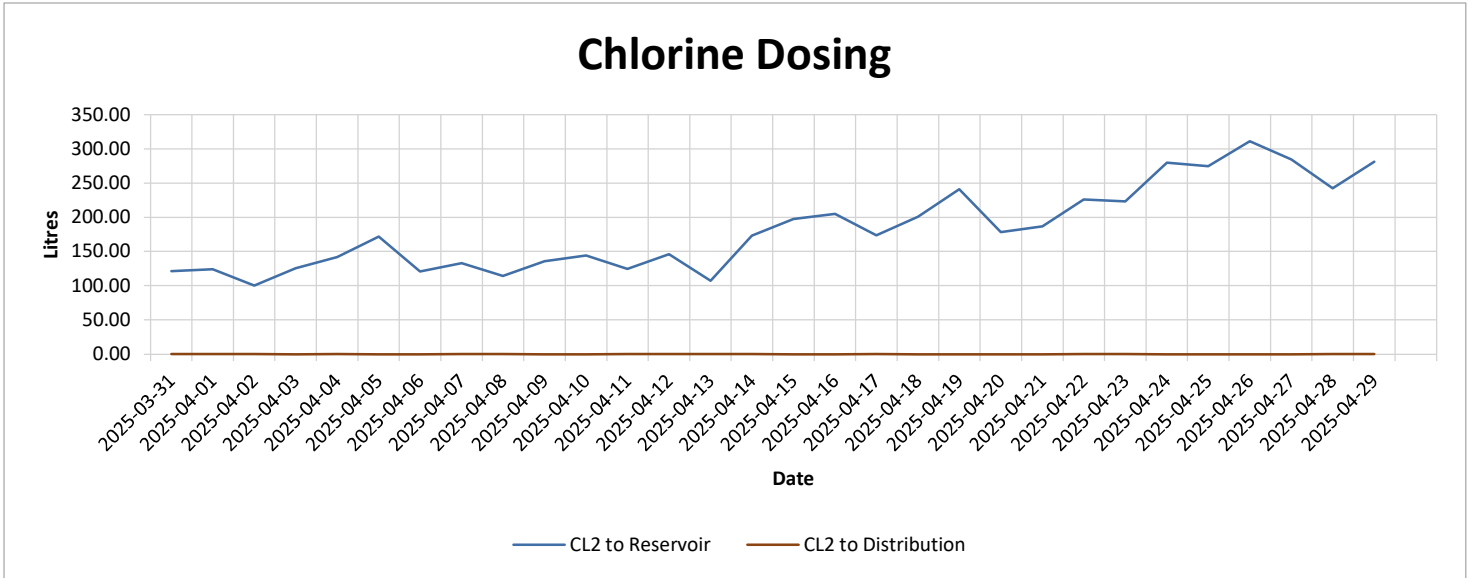
| Date       | Min   | Max   | Average |
|------------|-------|-------|---------|
| 2025-04-01 | 86.94 | 89.65 | 88.40   |
| 2025-04-02 | 87.16 | 89.65 | 88.59   |
| 2025-04-03 | 86.81 | 89.57 | 88.44   |
| 2025-04-04 | 85.84 | 89.69 | 88.33   |
| 2025-04-05 | 87.40 | 89.60 | 88.50   |
| 2025-04-06 | 86.76 | 89.57 | 88.23   |
| 2025-04-07 | 86.45 | 89.45 | 88.30   |
| 2025-04-08 | 87.42 | 89.69 | 88.64   |
| 2025-04-09 | 86.81 | 89.30 | 88.52   |
| 2025-04-10 | 87.18 | 89.30 | 88.28   |
| 2025-04-11 | 87.52 | 89.30 | 88.71   |
| 2025-04-12 | 86.45 | 89.30 | 87.95   |
| 2025-04-13 | 86.52 | 89.06 | 87.76   |
| 2025-04-14 | 86.86 | 89.65 | 88.39   |
| 2025-04-15 | 86.40 | 90.09 | 88.12   |
| 2025-04-16 | 85.37 | 89.11 | 88.15   |
| 2025-04-17 | 87.89 | 89.65 | 88.74   |
| 2025-04-18 | 87.18 | 89.52 | 88.57   |
| 2025-04-19 | 87.77 | 89.96 | 88.71   |
| 2025-04-20 | 87.18 | 89.30 | 88.39   |
| 2025-04-21 | 87.35 | 89.40 | 88.51   |
| 2025-04-22 | 86.13 | 89.30 | 88.43   |
| 2025-04-23 | 87.11 | 89.65 | 88.49   |
| 2025-04-24 | 87.30 | 89.47 | 88.55   |
| 2025-04-25 | 87.03 | 89.72 | 88.70   |
| 2025-04-26 | 87.84 | 89.28 | 88.58   |
| 2025-04-27 | 87.42 | 89.30 | 88.30   |
| 2025-04-28 | 87.47 | 89.89 | 88.10   |
| 2025-04-29 | 86.25 | 88.99 | 87.79   |
| 2025-04-30 | 87.06 | 88.50 | 87.80   |

### Notes:

# Chemical Demand:

Chlorine Used:

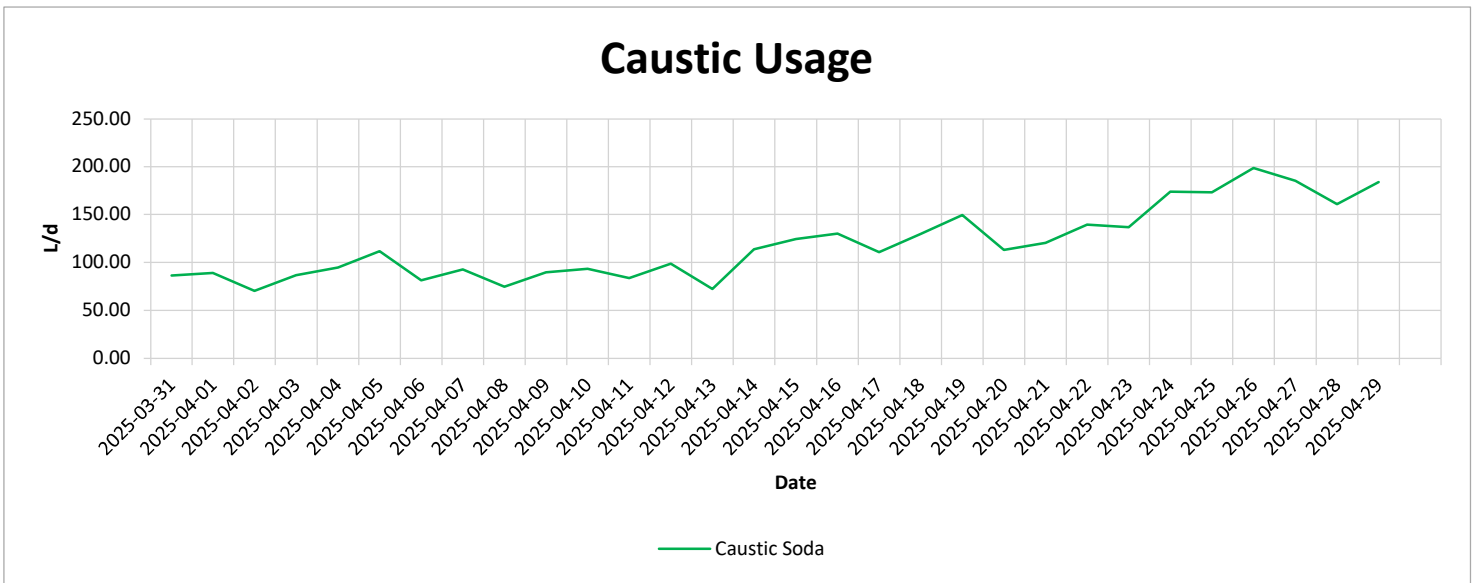
Total for Month  
5489.18 Litres



Notes:

Caustic Soda Used:

Total for Month  
3569.30 Litres

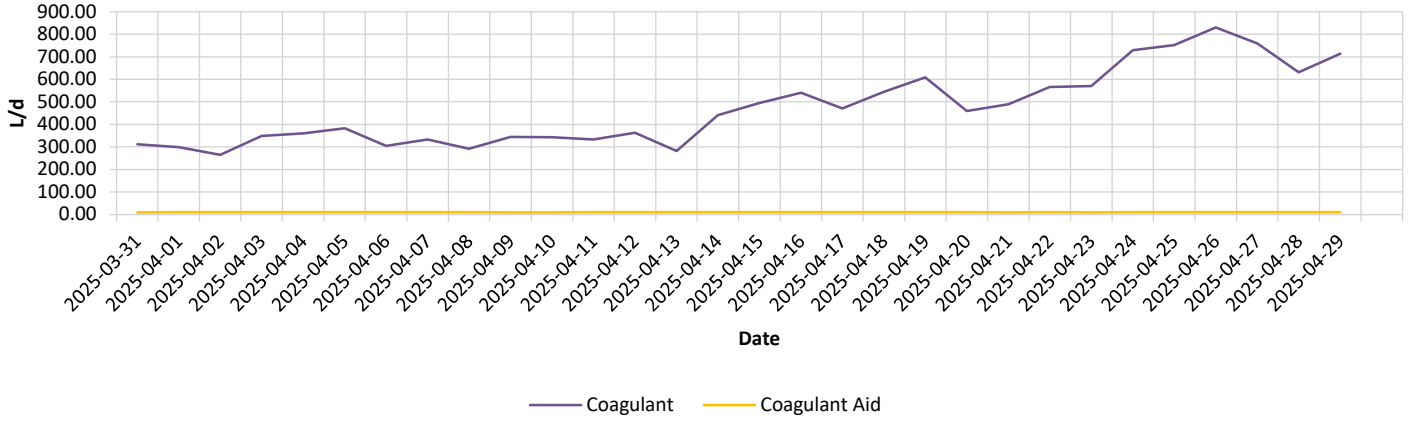


Notes:

**Coagulant Used:**  
**Coagulant Aid Used:**

Total for Month  
 14159.88 Litres  
 289.88 Litres

### Coagulant and Aid Usage



Notes:

**Polymer @ .2% Concentration:**

Total for Month  
 40176.01 Litres

**Polymer @ .5% Concentration:**

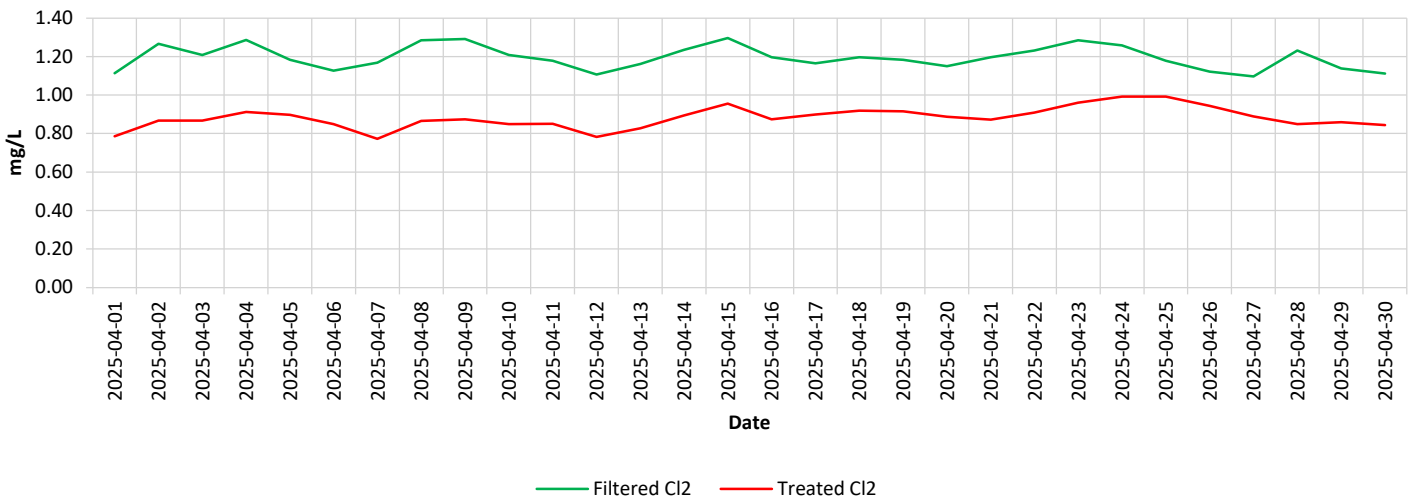
Total for Month  
 51400.64 Litres

**Chlorine Dose**

Filtered Water Residual Cl<sub>2</sub> Average (mg/L): 1.20 mg/L

Treated Water (Distributed) Cl<sub>2</sub> Average (mg/L): 0.88 mg/L

### Average Residual CL<sub>2</sub> Content

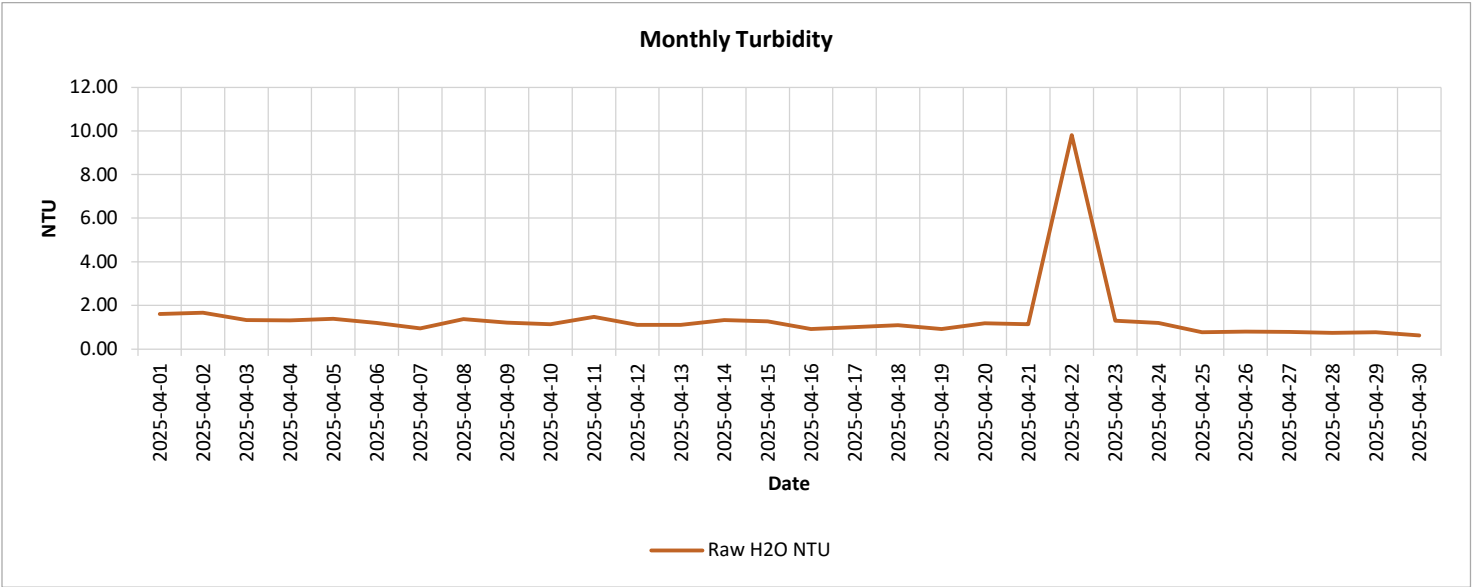


# Water Quality Analytics:

## Turbidity

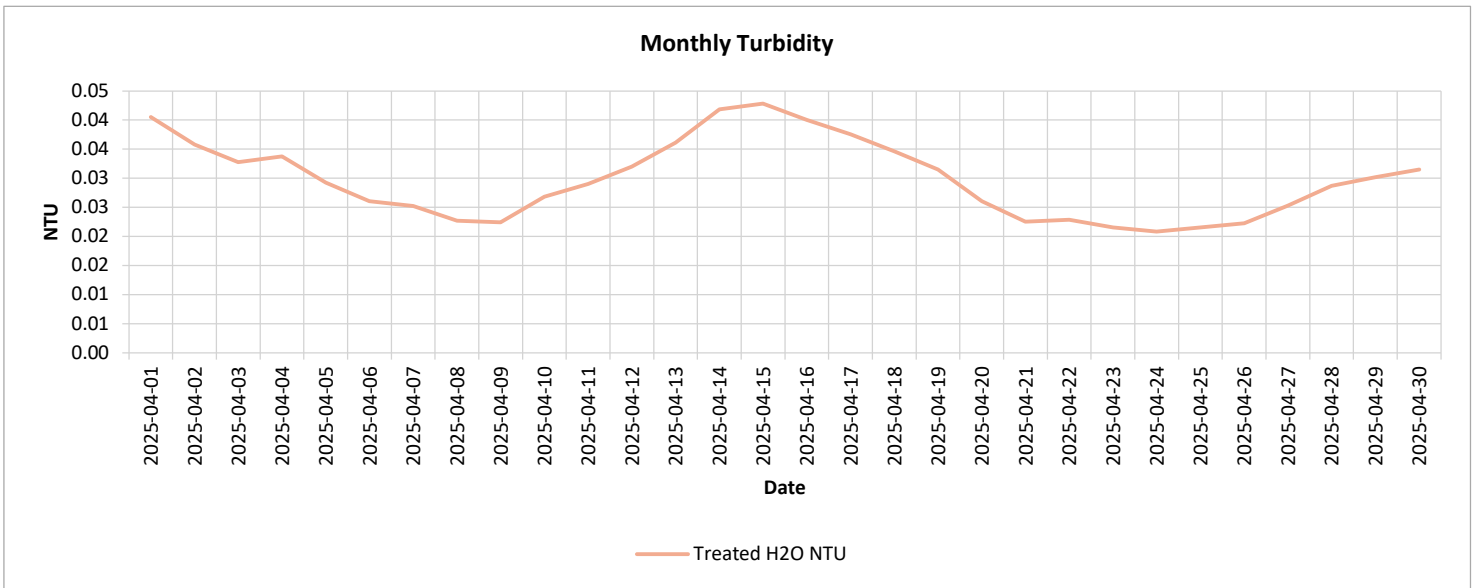
Raw Water Monthly Average:

1.42 NTU



Treated Water Monthly Average:

0.03 NTU



### Notes:

Raw water NTU spike on the 23rd of April due to a shut down on the raw water main feeding the treatment plant. After the main was put back into service the plant handled approximately 80NTU for 3-4 hours while it settled back out. We had two spikes that the analyzer read 233 NTU which lasted for 10 seconds each time.

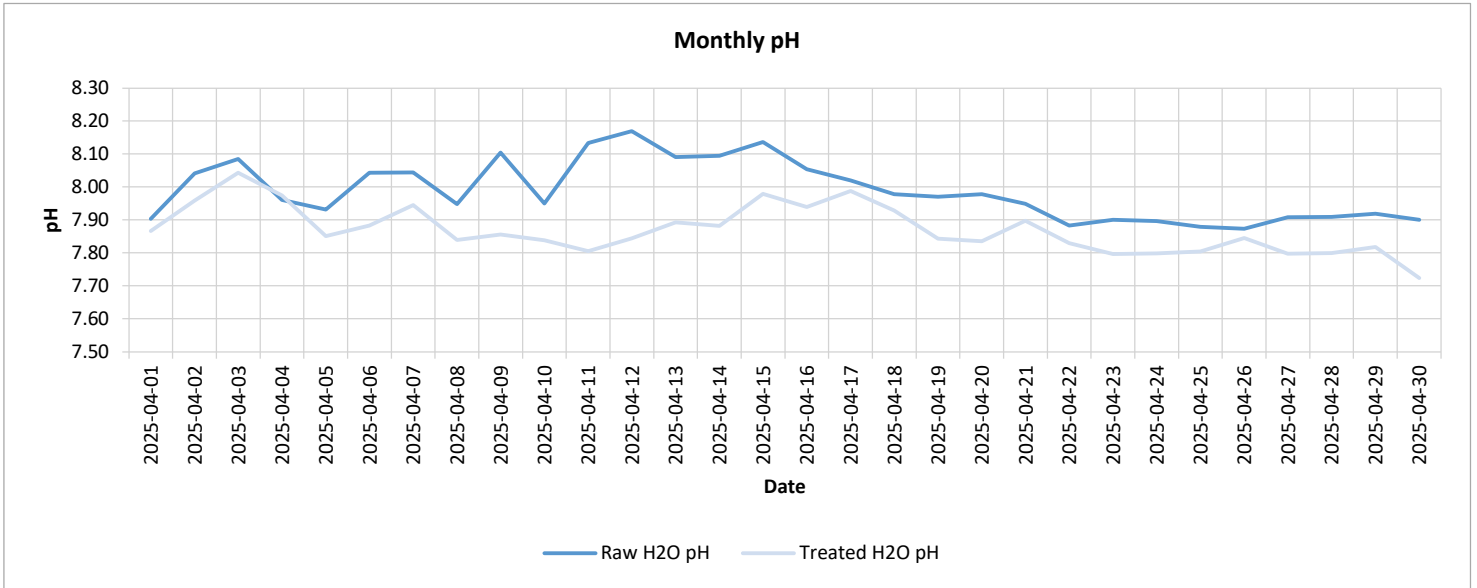
**pH**

Raw Water Monthly Average:

7.99      pH

Treated Water Monthly Average:

7.87      pH



**Notes:**

## Rose Valley WTP Operational Highlights:

**April 1st** - Floc tank bi-annual maintenance on Daf 1.

**April 2nd** - Maple Reinders onsite doing trough maintenance on filters 1, 3 & 4. Removing Mastic from center of troughs after filter installer stated it didn't need to be there.

**April 3rd** - Maple continuing trough maintenance on Filters 2, 5 & 6. Backwash all filters after maintenance complete.

**April 4th** - Start programming and prep for Manganese analyzer

**April 7th** - clean all turbidity and pH analyzers, Colilert samples from Distribution.

**April 8th** - Calibrate all necessary pH & turbidity analyzers; Lamella poly tank maintenance and clean

**April 10th** - Power loss even @ 0230; Colilert samples from distribution (now Tuesdays and Thursdays on rotation).

**April 13th** - High winding temperature on our transformer not allowing our Filtered Water Pumps to pump up to our reservoir. Brought in Keldon for inspection and seems to be faulty alarm. Electrical department investigating potential sources with programmers.

**April 14th** - Reservoir checks.

**April 16th** - Start second Daf and bring third filter online. Buffer calibration on Raw ph.

**April 17th** - Cummins onsite for 6 month generator service

**April 22nd** - Colilert samples from distribution

**April 23rd** - Shutdown plant to assess condition of Raw water main for adapting permanganate injection at the reservoir building. Found out that the sluice gate valve on the intake pipe does not hold. Need to use the 24" butterfly in the intake chamber.

**April 24th** - Shutdown plant to test isolation of 24" butterfly valve. It held so changed out some old plumbing to inspect pipe. Need to assess injection quill location for permanganate based on findings and working with engineering group. \*Manganese analyzer installed and historizing data as of 2pm this day!

**April 29th** - Switched to 600mm raw water main due to demand. (Treated water main swapped to larger main on May 2nd)

## Rose Valley Watershed Operational Highlights:

### Rose Valley

-Weekly Dam inspections

-Apr 1<sup>st</sup> Ran Generator/Piezometers

-Apr 28<sup>th</sup> level 596.54

### BCI

-Daily checks on BCI and Cedar Creek

-BCI is accumulating lots of sand from the washout at km 8 on Bear Main. Might need to be cleaned out.

-Cedar Creek has dropped quit a bit and is now flowing under pipe, about 10' of pipe is exposed.

-Apr 28<sup>th</sup> finished fixing easement road to get to CedarCreek.

## Definitions:

**CL2 to Reservoir:** Chlorine that is injected post Filtered Water Pumps into the 1050mm Main up to the onsite reservoir

**CL2 to Distribution:** Chlorine that is injected in the meter chamber to top up residual heading to Distribution if necessary.

**Undosed Flow:** Water that has gone through the UV reactor that cannot be verified the target dose has been reached.

**Filtered Water Residual:** Filtered water that leaves the plant and heads to the onsite treated water reservoir

**Treated Water Residual:** Treated water residual that is tested in the meter vault before it leaves site and heads to distribution.

Setpoint to set filter offline and trigger backwash = **0.25 NTU**

# WATER DISTRIBUTION



# Rose Valley Water Service Area - Distribution System Monitoring

APRIL 2025

## Water Quality Data Review

- Based on the distribution system sample monitoring data it appears the water quality objectives were met for free chlorine residual, turbidity and bacteriological parameters for the month.
  - Bacteriological Samples:
    - 24 samples analyzed at external lab (CARO Analytical)
    - 15 samples analyzed in-house at RVWTP
    - All bacteriological samples came back at <1 CFU/mL for Total Coliforms and <1 CFU/mL for *E.coli*
- In April the new Drinking Water Monitoring Program was started, throughout the month changes were made to the new program as it was carried out.
- April 1, 2025 – Blackwood Pump Station online ORP analyzer calibration adjustment 64mV increase.
- April 2, 2025 – Lakeview Cove Pump Station online FCR analyzer calibration adjustment 0.36mg/L increase.
- April 11, 2025 – Menu Pump Station online FCR analyzer calibration adjustment 0.10mg/L increase.
- April 24, 2025 – Menu Pump Station online FCR analyzer calibration adjustment 0.56mg/L decrease.
- April 24, 2025 – Rosewood Pump Station online FCR analyzer calibration adjustment 0.28mg/L decrease.
- April 25, 2025 – Blackwood Pump Station inlet and outlet online FCR analyzers were calibrated; inlet adjustment 0.22mg/L decrease and outlet adjustment 0.30mg/L decrease.
- April 28, 2025 – Menu Pump Station online FCR analyzer had sensors cleaned and then calibrated; adjustment 0.13mg/L increase.

Sampling Location Table:

| Sample Name                       | Civic Address                       | Pressure Zone | WQ Sampling Rationale   |
|-----------------------------------|-------------------------------------|---------------|---|
| <b>Rosewood PS</b>                | 1463 Rosewood Dr                    | 597           | Installed new online water quality analyzer at Rosewood PS and changed grab sample location from <b>RV Trails</b> to this new location to coincide and best represent as the "First Customer Sample" entering the RVWSA distribution network. |
| <b>Menu PS</b>                    | Adjacent to 1181 Menu Dr            | 597           | Mid system water quality check. Water quality entering the Mission Hill, Sunnyside, Pritchard and Green Bay areas from dedicated main from treatment plant.   |
| <b>Blackwood PS</b>               | 1551 Blackwood Dr                   | 584           | Mid system water quality check. Water quality entering the West Kelowna Estates area.   |
| <b>Thacker SS</b>                 | 3111 Thacker Dr                     | 539           | End system water quality check.   |
| <b>Upper Boucherie Res Outlet</b> | Entry across from 1489 Cabernet Way | 627           | Mid system water quality check. Water quality entering the Sunnyside area.  |
| <b>Shannon Way SS</b>             | 2240 Hihannah Dr                    | 597           | Mid system water quality check. Water quality for the Shannon Lake area.  |
| <b>Lower Horizon SS</b>           | 2100 Horizon Dr                     | 507           | End system water quality check.   |

|                         |                                   |     |   |
|-------------------------|-----------------------------------|-----|---|
| <b>Pritchard SS</b>     | 1599 Pritchard Dr                 | 409 | End system water quality check.   |
| <b>Vineyard View SS</b> | Adjacent to 3284 Vineyard View Dr | 588 | Mid system water quality check. Location is after re-chlorination at the Upper Boucherie Reservoir. Replaced the <b>Viognier PRV</b> sample location. |
| <b>Lakeview Cove PS</b> | Adjacent to 3052 Lakeview Cove Rd | 609 | End system water quality check. Water quality distributed throughout Lakeview Heights area.   |

Note – the locations included in the monthly report are the samples that are tested regularly on a weekly basis but are 9 of 19 total grab sample locations taken throughout the system in the month.

**PS** = Pump Station  
**SS**= Sample Station  
**Res**=Reservoir

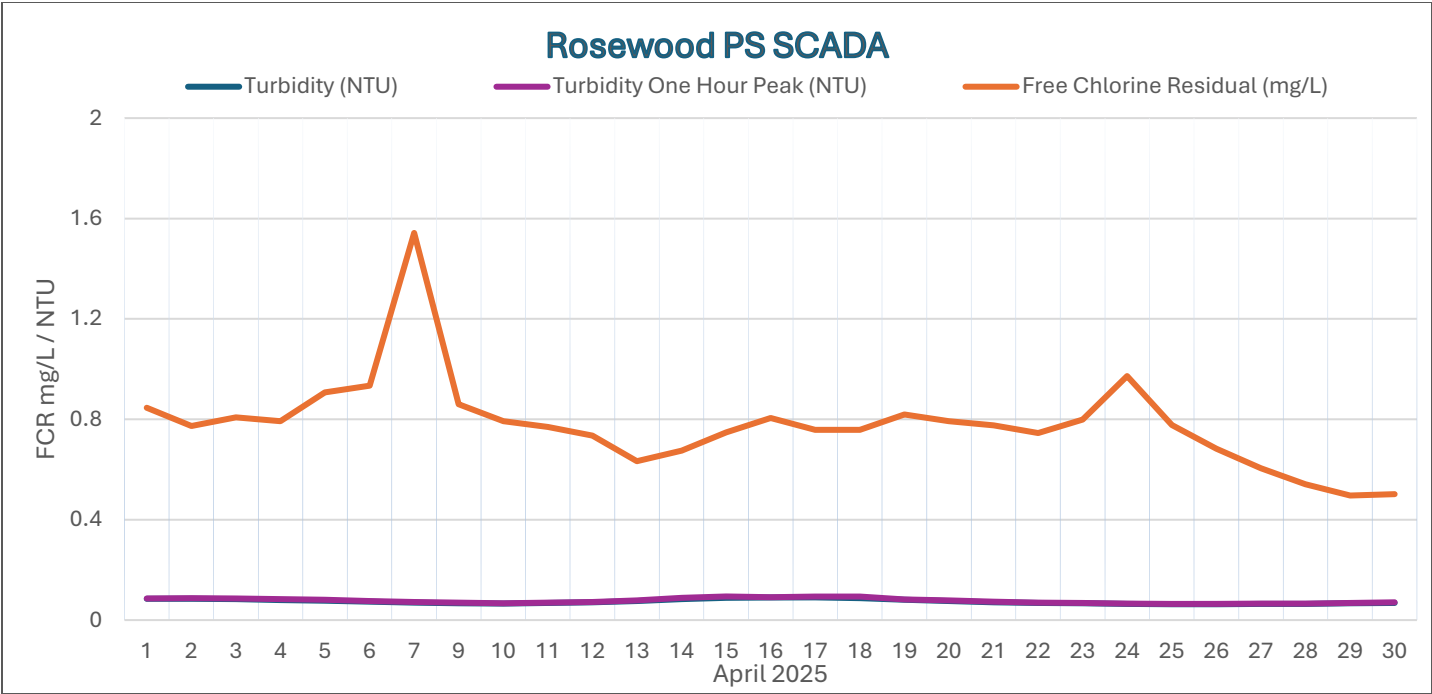
## Operational System Improvements/Events

- April 2, 2025 – With the change in seasons the hypo being used in re-chlorination stations has been switched from 6% to 12% and dose rates adjusted accordingly.
- April 2, 2025 – Unidirectional Flushing Program commenced in the Sunnyside Zone 3 area.
  - PSA and precautionary water quality advisory went out Tuesday April 1<sup>st</sup>, 2025.
- April 7, 2025 – Rosewood Pump Station online analyzer service and calibration verification
  - FCR online as found 0.45mg/L, after calibration 0.80mg/L
  - pH online as found 6.45, after calibration 7.00
- April 8, 2025 – Menu Pump Station online water quality analyzer operation was temporarily interrupted during installation of floor grating system in station and temporary turbidity spike indicated in trending was not representative of the actual water quality conditions at the time.
- April 10, 2025 – Lower Boucherie Pump Station online analyzer pump failed and was put out of service until a replacement was installed April 23<sup>rd</sup>, 2025.
- April 10, 2025 – Pinewoods Pump Station re-chlorination system dosing tank was exchanged to 20L carboys containers from supplier in effort to reduce safety risks related to chemical transferring by operators and the implementation of external ventilation.
- April 11, 2025 – Thacker Dr air valve required repair and was updated with new bleeder valve.
- April 11, 2025 – Menu Pump Station temporary SCADA communication loss and control module for automated flow control valve required reprogramming and was returned to service.
- April 13, 2025 – Menu Pump Station communications loss occurred, requiring reprogramming again. Upgrade to radio communication planning in advance of scheduled project being considered to address issue.
- April 14, 2025 – Sunnyside Zone 3 Unidirectional Flushing completed, and precautionary water quality advisory related to this work removed.
- April 15, 2025 – Rose Valley Zone 1 Unidirectional Flushing commenced with Public Service Announcement notifying the area’s customers of the implemented precautionary Water Quality Advisory related to flushing activities.

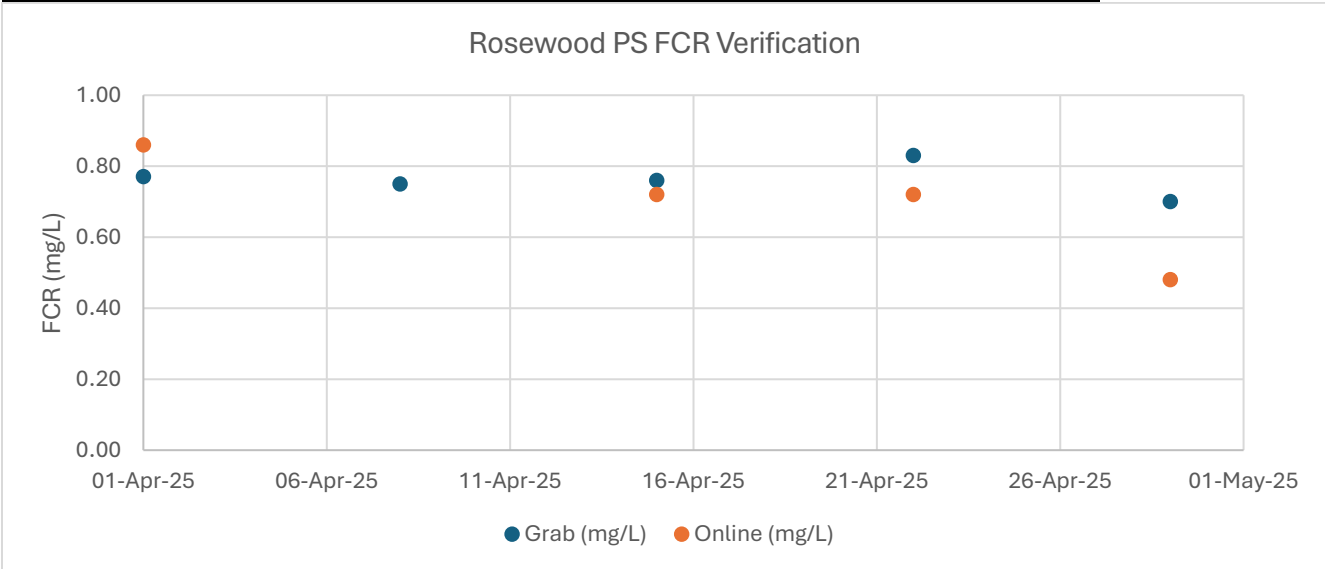
# WQ Field and SCADA Data

## Rosewood PS

| Rosewood PS SCADA |           |                          |               |               |               |               |             |          |
|-------------------|-----------|--------------------------|---------------|---------------|---------------|---------------|-------------|----------|
| Date              | Turbidity | Turbidity<br>(Peak 1 Hr) | FCR           |               |               | Water<br>Temp | pH          | ORP      |
|                   | Avg (NTU) | Max Based<br>On 1 Hr Avg | Min<br>(mg/L) | Max<br>(mg/L) | Avg<br>(mg/L) | Avg (°C)      | Avg<br>(pH) | Avg (mV) |
| <b>April</b>      |           |                          |               |               |               |               |             |          |
| 1                 | 0.09      | 0.09                     | 0.78          | 0.89          | 0.85          | 6.45          | 7.80        | 722      |
| 2                 | 0.08      | 0.09                     | 0.71          | 0.83          | 0.77          | 6.56          | 7.85        | 720      |
| 3                 | 0.08      | 0.09                     | 0.76          | 0.84          | 0.81          | 6.73          | 7.91        | 686      |
| 4                 | 0.08      | 0.08                     | 0.74          | 0.86          | 0.79          | 6.85          | 7.97        | 689      |
| 5                 | 0.08      | 0.08                     | 0.81          | 0.98          | 0.91          | 7.00          | 7.92        | 727      |
| 6                 | 0.07      | 0.08                     | 0.90          | 0.99          | 0.93          | 7.05          | 7.85        | 756      |
| 7                 | 0.07      | 0.07                     | 0.82          | 3.08          | 1.54          | 7.12          | 7.92        | 797      |
| 8                 |           |                          |               |               |               |               |             |          |
| 9                 | 0.07      | 0.07                     | 0.80          | 0.93          | 0.86          | 7.52          | 7.85        | 829      |
| 10                | 0.07      | 0.07                     | 0.72          | 0.86          | 0.79          | 7.53          | 7.81        | 823      |
| 11                | 0.07      | 0.07                     | 0.72          | 5.11          | 0.77          | 7.79          | 7.79        | 817      |
| 12                | 0.07      | 0.07                     | 0.66          | 0.79          | 0.73          | 7.87          | 7.76        | 806      |
| 13                | 0.08      | 0.08                     | 0.59          | 0.68          | 0.63          | 8.03          | 7.79        | 802      |
| 14                | 0.08      | 0.09                     | 0.57          | 0.78          | 0.67          | 8.21          | 7.82        | 795      |
| 15                | 0.09      | 0.09                     | 0.68          | 0.78          | 0.75          | 8.43          | 7.82        | 796      |
| 16                | 0.09      | 0.09                     | 0.00          | 6.10          | 0.80          | 8.64          | 7.90        | 793      |
| 17                | 0.09      | 0.09                     | 0.69          | 0.82          | 0.76          | 8.96          | 7.87        | 791      |
| 18                | 0.09      | 0.09                     | 0.71          | 0.81          | 0.76          | 9.10          | 7.91        | 792      |
| 19                | 0.08      | 0.08                     | 0.70          | 0.90          | 0.82          | 9.03          | 7.87        | 804      |
| 20                | 0.08      | 0.08                     | 0.74          | 0.86          | 0.79          | 9.18          | 7.79        | 813      |
| 21                | 0.07      | 0.07                     | 0.74          | 0.81          | 0.78          | 9.29          | 7.80        | 805      |
| 22                | 0.07      | 0.07                     | 0.69          | 0.81          | 0.75          | 9.44          | 7.83        | 798      |
| 23                | 0.07      | 0.07                     | 0.70          | 0.93          | 0.80          | 9.55          | 7.76        | 804      |
| 24                | 0.06      | 0.07                     | 0.80          | 1.17          | 0.97          | 9.70          | 7.72        | 798      |
| 25                | 0.06      | 0.06                     | 0.72          | 0.83          | 0.78          | 9.75          | 7.70        | 808      |
| 26                | 0.06      | 0.06                     | 0.63          | 0.73          | 0.68          | 10.01         | 7.70        | 788      |
| 27                | 0.06      | 0.07                     | 0.57          | 0.65          | 0.60          | 10.20         | 7.72        | 798      |
| 28                | 0.06      | 0.07                     | 0.48          | 0.59          | 0.54          | 10.27         | 7.68        | 800      |
| 29                | 0.07      | 0.07                     | 0.45          | 0.53          | 0.50          | 10.23         | 7.71        | 793      |
| 30                | 0.07      | 0.07                     | 0.46          | 0.53          | 0.50          | 10.52         | 7.76        | 785      |
| <b>Average</b>    | 0.07      |                          | 0.67          | 1.22          | 0.78          | 8.52          | 7.81        | 783.98   |
| <b>Min</b>        | 0.06      |                          | 0.00          | 0.53          | 0.50          | 6.45          | 7.68        | 685.92   |
| <b>Max</b>        | 0.09      | 0.09                     | 0.90          | 6.10          | 1.54          | 10.52         | 7.97        | 828.55   |

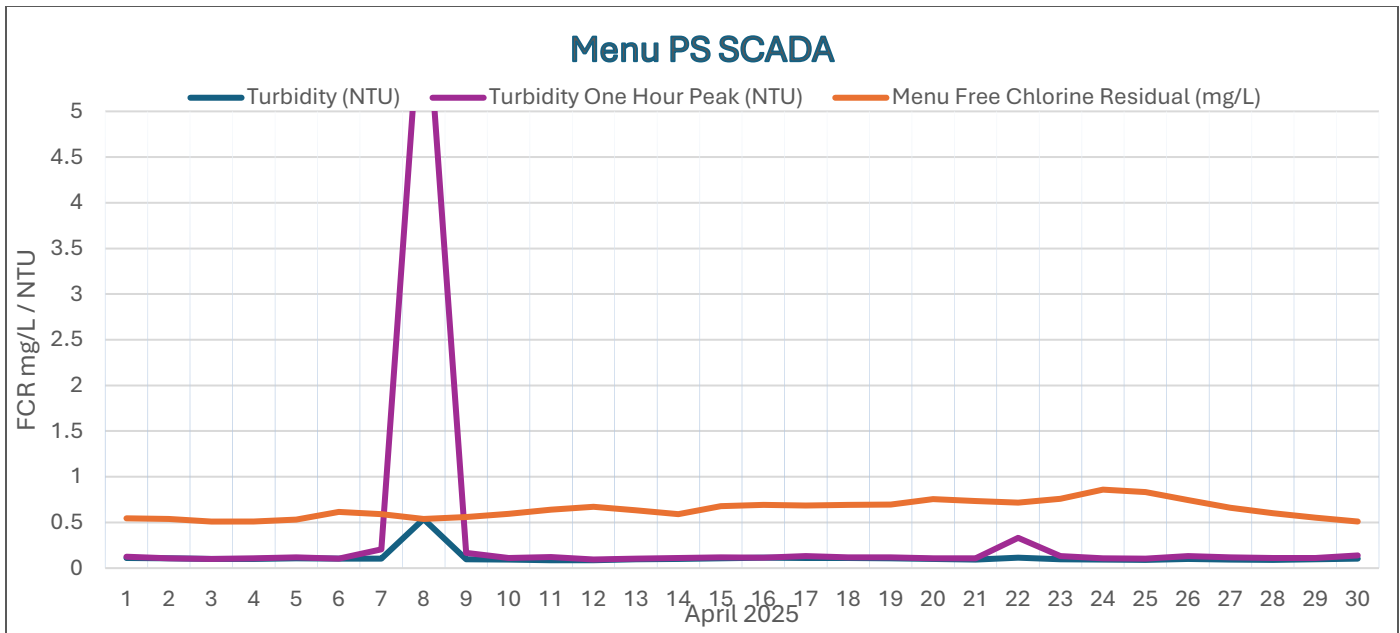


| Rosewood PS Water Quality |            |              |            |             |               |           |
|---------------------------|------------|--------------|------------|-------------|---------------|-----------|
| Date                      | Turbidity  |              | Water Temp | FCR         |               | pH        |
|                           | Grab (NTU) | Online (NTU) | Grab (°C)  | Grab (mg/L) | Online (mg/L) |           |
| 01-Apr-25                 | 0.10       | 0.08         | 6.40       | 0.77        | 0.86          | 7.50      |
| 08-Apr-25                 | 0.06       | 0.07         | 6.90       | 0.75        |               | 7.38      |
| 15-Apr-25                 | 0.17       | 0.08         | 8.26       | 0.76        | 0.72          | 7.35      |
| 22-Apr-25                 | 0.09       | 0.06         | 9.30       | 0.83        | 0.72          | 7.80      |
| 29-Apr-25                 | 0.10       | 0.07         | 10.07      | 0.70        | 0.48          | 7.56      |
| # of Samples              | 5          | 5            | 5          | 5           | 4             | 5         |
| Average                   | 0.10       | 0.07         | 8.19       | 0.76        | 0.70          | 7.52      |
| Range                     | 0.06-0.17  | 0.06-0.08    | 6.40-10.07 | 0.70-0.83   | 0.48-0.86     | 7.35-7.80 |



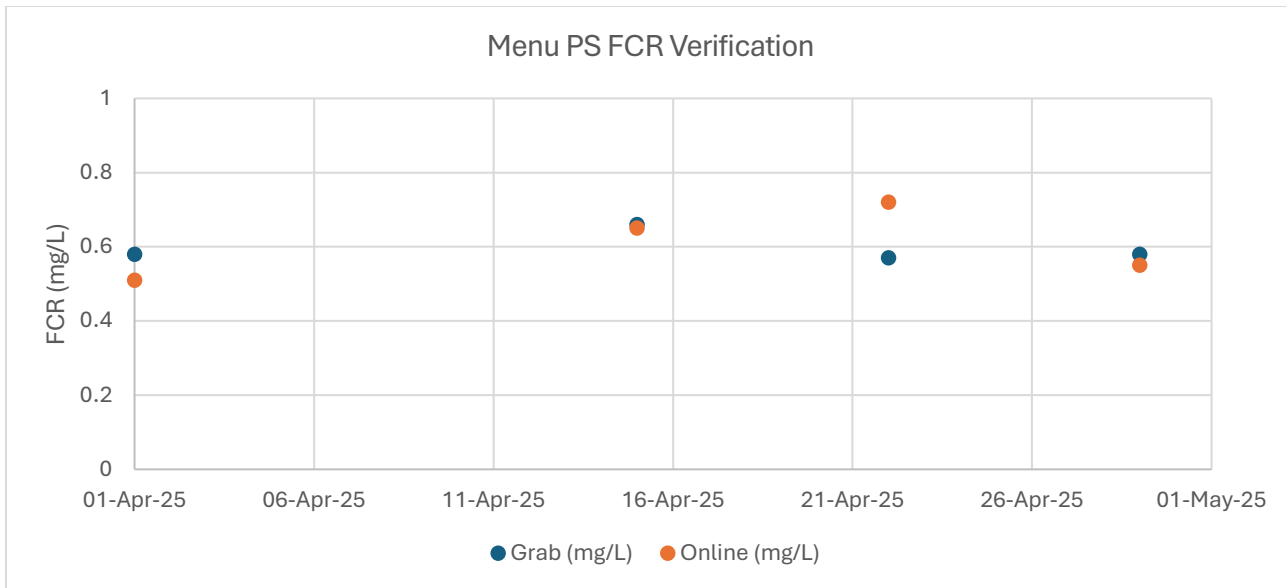
# Menu PS

| Menu PS SCADA  |                                   |           |                       |            |          |          |            |            |            |
|----------------|-----------------------------------|-----------|-----------------------|------------|----------|----------|------------|------------|------------|
| Date           | Combined Flow Total From RV to SS | Turbidity | Turbidity (Peak 1 Hr) | Water Temp | pH       | ORP      | FCR        |            |            |
|                | (m <sup>3</sup> )                 | Avg (NTU) | Max Based On 1 Hr Avg | Avg (°C)   | Avg (pH) | Avg (mV) | Min (mg/L) | Max (mg/L) | Avg (mg/L) |
| <b>April</b>   |                                   |           |                       |            |          |          |            |            |            |
| 1              | 1535                              | 0.11      | 0.13                  | 6.54       | 7.37     | 755      | 0.49       | 0.62       | 0.55       |
| 2              | 1266                              | 0.11      | 0.11                  | 6.67       | 7.36     | 756      | 0.50       | 0.58       | 0.54       |
| 3              | 1112                              | 0.10      | 0.10                  | 6.75       | 7.41     | 741      | 0.48       | 0.56       | 0.51       |
| 4              | 1185                              | 0.10      | 0.11                  | 6.91       | 7.48     | 722      | 0.48       | 0.55       | 0.51       |
| 5              | 1690                              | 0.11      | 0.12                  | 7.04       | 7.52     | 742      | 0.47       | 0.64       | 0.53       |
| 6              | 1370                              | 0.10      | 0.10                  | 7.15       | 7.44     | 776      | 0.57       | 0.65       | 0.61       |
| 7              | 1150                              | 0.10      | 0.21                  | 7.21       | 7.43     | 788      | 0.55       | 0.63       | 0.59       |
| 8              | 1415                              | 0.54      | 6.69                  | 7.76       | 7.48     | 797      | 0.49       | 0.59       | 0.54       |
| 9              | 1691                              | 0.10      | 0.17                  | 8.87       | 7.51     | 815      | 0.48       | 0.66       | 0.56       |
| 10             | 1337                              | 0.09      | 0.11                  | 8.88       | 7.48     | 822      | 0.54       | 0.65       | 0.59       |
| 11             | 1657                              | 0.09      | 0.12                  | 8.43       | 7.46     | 814      | 0.58       | 0.72       | 0.64       |
| 12             | 933                               | 0.09      | 0.09                  | 7.88       | 7.44     | 789      | 0.63       | 0.73       | 0.67       |
| 13             | 2129                              | 0.10      | 0.10                  | 7.97       | 7.44     | 790      | 0.59       | 0.70       | 0.63       |
| 14             | 1569                              | 0.10      | 0.11                  | 8.31       | 7.47     | 785      | 0.54       | 0.72       | 0.59       |
| 15             | 1915                              | 0.11      | 0.12                  | 8.67       | 7.43     | 781      | 0.00       | 0.75       | 0.68       |
| 16             | 1334                              | 0.11      | 0.12                  | 8.73       | 7.55     | 794      | 0.64       | 0.76       | 0.69       |
| 17             | 1915                              | 0.11      | 0.13                  | 8.90       | 7.56     | 792      | 0.64       | 0.73       | 0.68       |
| 18             | 1956                              | 0.11      | 0.12                  | 9.16       | 7.57     | 790      | 0.65       | 0.74       | 0.69       |
| 19             | 2357                              | 0.11      | 0.12                  | 9.26       | 7.58     | 796      | 0.64       | 0.82       | 0.70       |
| 20             | 1794                              | 0.10      | 0.11                  | 9.30       | 7.49     | 809      | 0.72       | 0.80       | 0.76       |
| 21             | 2126                              | 0.09      | 0.11                  | 9.40       | 7.47     | 807      | 0.67       | 0.79       | 0.73       |
| 22             | 2061                              | 0.11      | 0.33                  | 9.47       | 7.51     | 797      | 0.66       | 0.76       | 0.72       |
| 23             | 2401                              | 0.10      | 0.13                  | 9.61       | 7.48     | 797      | 0.67       | 0.85       | 0.76       |
| 24             | 2302                              | 0.09      | 0.11                  | 9.63       | 7.45     | 787      | 0.70       | 1.24       | 0.86       |
| 25             | 2916                              | 0.09      | 0.11                  | 9.81       | 7.45     | 801      | 0.76       | 0.89       | 0.83       |
| 26             | 3255                              | 0.10      | 0.13                  | 10.05      | 7.47     | 786      | 0.66       | 0.81       | 0.75       |
| 27             | 3438                              | 0.09      | 0.12                  | 10.21      | 7.51     | 792      | 0.61       | 0.72       | 0.66       |
| 28             | 2494                              | 0.09      | 0.11                  | 10.22      | 7.47     | 792      | 0.56       | 0.64       | 0.60       |
| 29             | 3569                              | 0.10      | 0.11                  | 10.14      | 7.49     | 800      | 0.51       | 0.59       | 0.55       |
| 30             | 2720                              | 0.11      | 0.14                  | 10.38      | 7.56     | 796      | 0.46       | 0.56       | 0.51       |
| <b>Total</b>   | 57059                             |           |                       |            |          |          |            |            |            |
| <b>Average</b> | 1953.12                           | 0.12      |                       | 8.64       | 7.48     | 786.88   | 0.56       | 0.71       | 0.64       |
| <b>Min</b>     | 932.79                            | 0.09      |                       | 6.54       | 7.36     | 722.17   | 0.00       | 0.55       | 0.51       |
| <b>Max</b>     | 3569.47                           | 0.54      | 6.69                  | 10.38      | 7.58     | 821.55   | 0.76       | 1.24       | 0.86       |



**Note:** April 8<sup>th</sup> Menu Pump Station online water quality analyzer operation was temporarily interrupted during installation of floor grating system in station and temporary turbidity spike indicated in trending was not representative of the actual water quality conditions at the time. Analyzer was cleaned and calibrated on April 11<sup>th</sup> 2025 after construction was finished.

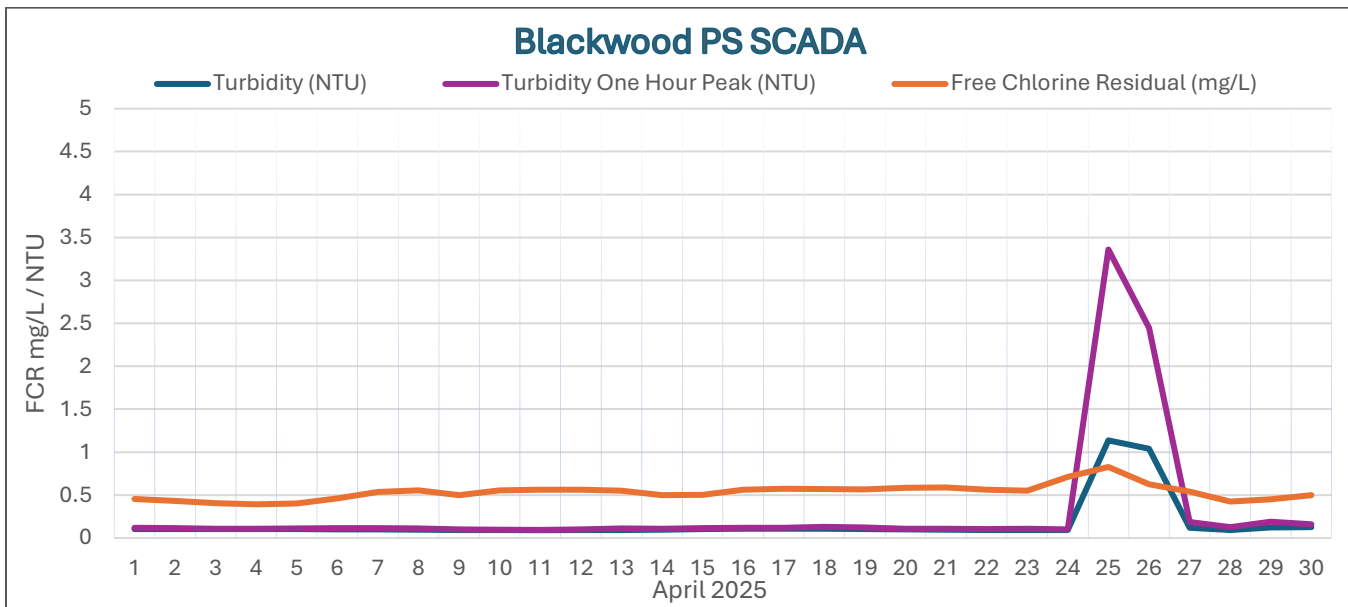
| Menu PS Water Quality |            |              |            |             |               |           |
|-----------------------|------------|--------------|------------|-------------|---------------|-----------|
| Date                  | Turbidity  |              | Water Temp | FCR         |               | pH        |
|                       | Grab (NTU) | Online (NTU) | Grab (°C)  | Grab (mg/L) | Online (mg/L) |           |
| 01-Apr-25             | 0.11       | 0.1          | 6.5        | 0.58        | 0.51          | 7.51      |
| 08-Apr-25             |            |              |            |             |               |           |
| 15-Apr-25             | 0.09       | 0.11         | 8.6        | 0.66        | 0.65          | 7.42      |
| 22-Apr-25             | 0.24       | 0.18         | 9.4        | 0.57        | 0.72          | 7.31      |
| 29-Apr-25             | 0.11       | 0.08         | 10.1       | 0.58        | 0.55          | 7.48      |
| # of Samples          | 4          | 4            | 4          | 4           | 4             | 4         |
| Average               | 0.14       | 0.12         | 8.65       | 0.6         | 0.61          | 7.43      |
| Range                 | 0.09-0.24  | 0.08-0.18    | 6.50-10.1  | 0.57-0.66   | 0.51-0.72     | 7.31-7.51 |



## Blackwood PS

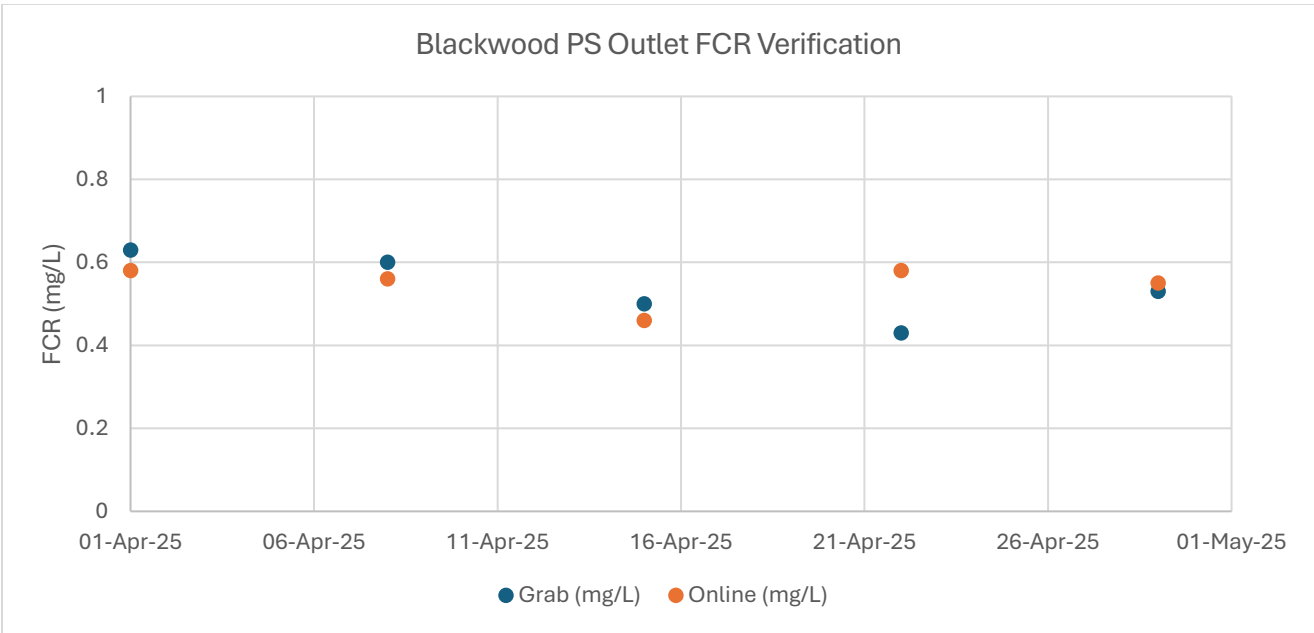
| Blackwood PS SCADA |                                     |           |           |                       |            |            |            |            |          |
|--------------------|-------------------------------------|-----------|-----------|-----------------------|------------|------------|------------|------------|----------|
| Date               | Rose Valley To Blackwood Flow Total | Peak Flow | Turbidity | Turbidity (Peak 1 Hr) | FCR        |            |            | Water Temp | pH       |
|                    | (m <sup>3</sup> )                   | Max (L/s) | Avg (NTU) | Max Based On 1 Hr Avg | Min (mg/L) | Max (mg/L) | Avg (mg/L) | Avg (°C)   | Avg (pH) |
| <b>April</b>       |                                     |           |           |                       |            |            |            |            |          |
| 1                  | 1071.9                              | 36.1      | 0.10      | 0.12                  | 0.40       | 0.51       | 0.45       | 6.76       | 7.73     |
| 2                  | 932.5                               | 37.3      | 0.10      | 0.11                  | 0.37       | 0.48       | 0.43       | 6.58       | 7.73     |
| 3                  | 1058.1                              | 41.1      | 0.10      | 0.11                  | 0.35       | 0.46       | 0.41       | 6.52       | 7.74     |
| 4                  | 898.4                               | 37.4      | 0.10      | 0.11                  | 0.33       | 0.44       | 0.39       | 6.69       | 7.79     |
| 5                  | 1209.7                              | 35.6      | 0.10      | 0.11                  | 0.34       | 0.45       | 0.40       | 6.72       | 7.83     |
| 6                  | 1354.3                              | 35.6      | 0.10      | 0.11                  | 0.40       | 0.53       | 0.46       | 6.97       | 7.82     |
| 7                  | 1033.9                              | 38.9      | 0.10      | 0.11                  | 0.45       | 0.64       | 0.54       | 7.04       | 7.77     |
| 8                  | 1062.5                              | 35.7      | 0.10      | 0.11                  | 0.47       | 0.63       | 0.55       | 7.06       | 7.77     |
| 9                  | 1184.0                              | 34.4      | 0.09      | 0.10                  | 0.41       | 0.58       | 0.50       | 7.12       | 7.81     |
| 10                 | 1124.5                              | 35.9      | 0.09      | 0.10                  | 0.47       | 0.61       | 0.55       | 7.35       | 7.79     |
| 11                 | 1140.5                              | 36.1      | 0.09      | 0.09                  | 0.48       | 0.63       | 0.56       | 7.38       | 7.77     |
| 12                 | 1265.2                              | 36.8      | 0.09      | 0.10                  | 0.48       | 0.63       | 0.56       | 7.55       | 7.75     |
| 13                 | 1374.4                              | 33.2      | 0.09      | 0.11                  | 0.48       | 0.62       | 0.55       | 7.61       | 7.73     |
| 14                 | 1290.8                              | 33.8      | 0.10      | 0.11                  | 0.42       | 0.57       | 0.50       | 7.93       | 7.75     |
| 15                 | 1315.9                              | 33.9      | 0.10      | 0.12                  | 0.40       | 0.61       | 0.50       | 8.47       | 7.77     |
| 16                 | 1323.4                              | 37.7      | 0.11      | 0.12                  | 0.46       | 0.64       | 0.56       | 8.57       | 7.78     |
| 17                 | 1467.5                              | 36.5      | 0.11      | 0.12                  | 0.49       | 0.62       | 0.57       | 8.86       | 7.84     |
| 18                 | 1446.1                              | 35.9      | 0.11      | 0.13                  | 0.49       | 0.63       | 0.57       | 9.18       | 7.81     |
| 19                 | 1463.5                              | 41.0      | 0.11      | 0.12                  | 0.47       | 0.64       | 0.57       | 9.34       | 7.85     |
| 20                 | 1434.6                              | 39.5      | 0.10      | 0.11                  | 0.46       | 0.68       | 0.58       | 9.31       | 7.79     |
| 21                 | 1524.1                              | 39.0      | 0.10      | 0.11                  | 0.51       | 0.64       | 0.59       | 9.51       | 7.75     |
| 22                 | 1472.4                              | 35.6      | 0.09      | 0.10                  | 0.50       | 0.61       | 0.56       | 9.58       | 7.74     |

|                |           |       |      |      |      |      |      |       |      |
|----------------|-----------|-------|------|------|------|------|------|-------|------|
| 23             | 1414.2    | 38.1  | 0.09 | 0.11 | 0.46 | 0.62 | 0.55 | 9.82  | 7.75 |
| 24             | 1798.5    | 38.2  | 0.09 | 0.10 | 0.49 | 1.10 | 0.71 | 9.78  | 7.67 |
| 25             | 1818.1    | 91.8  | 1.14 | 3.36 | 0.56 | 1.14 | 0.83 | 10.14 | 7.65 |
| 26             | 1911.7    | 43.2  | 1.04 | 2.45 | 0.54 | 0.68 | 0.62 | 10.29 | 7.67 |
| 27             | 1937.9    | 42.2  | 0.12 | 0.19 | 0.45 | 0.60 | 0.54 | 10.53 | 7.69 |
| 28             | 1693.6    | 75.1  | 0.09 | 0.13 | 0.30 | 0.73 | 0.43 | 10.32 | 7.70 |
| 29             | 1863.0    | 43.0  | 0.12 | 0.19 | 0.33 | 0.57 | 0.45 | 10.46 | 7.64 |
| 30             | 2208.9    | 44.5  | 0.13 | 0.16 | 0.42 | 0.55 | 0.50 | 10.57 | 7.69 |
| <b>Total</b>   | 41022.145 |       |      |      |      |      |      |       |      |
| <b>Average</b> | 1403.13   | 40.78 | 0.17 |      | 0.44 | 0.63 | 0.53 | 8.47  | 7.75 |
| <b>Min</b>     | 898.43    | 33.16 | 0.09 |      | 0.30 | 0.44 | 0.39 | 6.52  | 7.64 |
| <b>Max</b>     | 2208.90   | 91.82 | 1.14 | 3.36 | 0.56 | 1.14 | 0.83 | 10.57 | 7.85 |



**Note:** April 25<sup>th</sup> 2025 the EI technician cleaned and calibrated the online analyzer but wasn't put on hold causing erroneous spikes in the SCADA data that day.

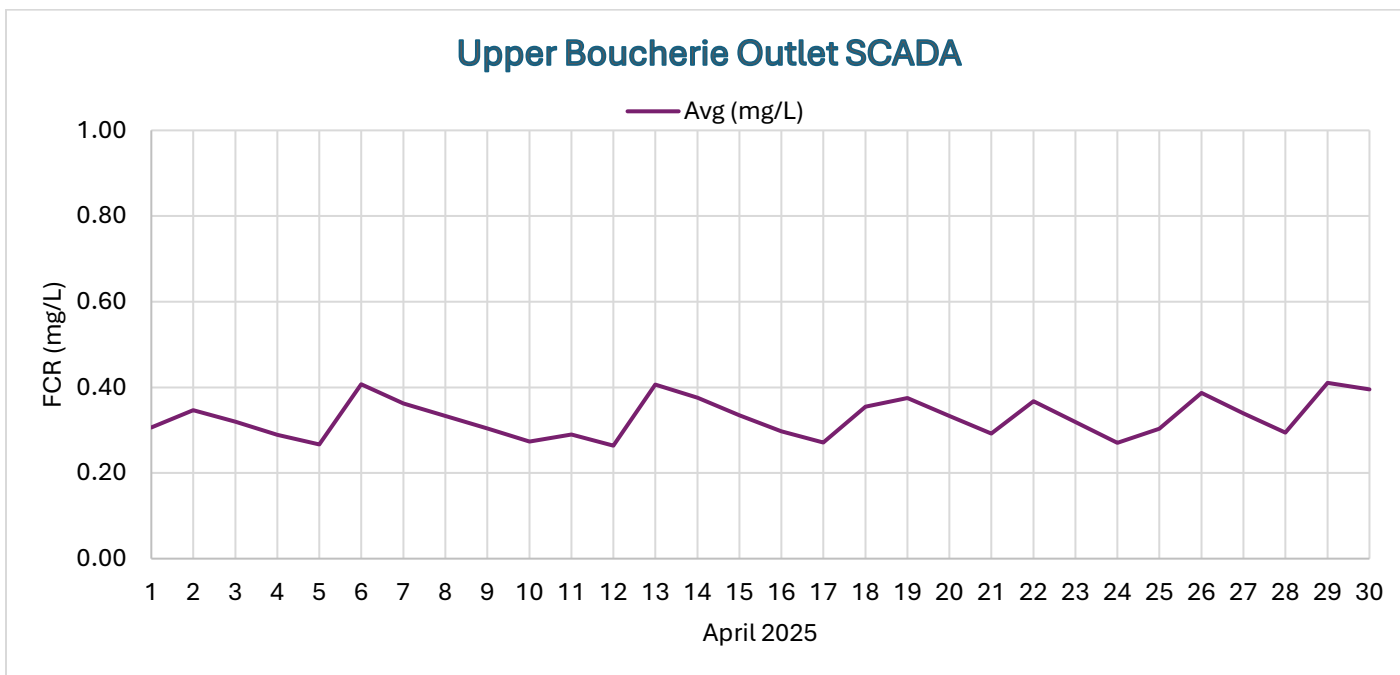
| Blackwood PS Outlet Water Quality |            |              |            |             |               |           |
|-----------------------------------|------------|--------------|------------|-------------|---------------|-----------|
| Date                              | Turbidity  |              | Water Temp | FCR         |               | pH        |
|                                   | Grab (NTU) | Online (NTU) | Grab (°C)  | Grab (mg/L) | Online (mg/L) |           |
| 01-Apr-25                         | 0.12       | 0.1          | 6.8        | 0.63        | 0.58          | 7.51      |
| 08-Apr-25                         | 0.09       | 0.1          | 7.1        | 0.6         | 0.56          | 7.77      |
| 15-Apr-25                         | 0.13       | 0.17         | 8.1        | 0.5         | 0.46          | 7.35      |
| 22-Apr-25                         | 0.18       | 0.09         | 9.3        | 0.43        | 0.58          | 7.7       |
| 29-Apr-25                         | 0.21       | 0.09         | 10.6       | 0.53        | 0.55          | 7.63      |
| # of Samples                      | 5          | 5            | 5          | 5           | 5             | 5         |
| Average                           | 0.15       | 0.11         | 8.38       | 0.54        | 0.55          | 7.59      |
| Range                             | 0.09-0.21  | 0.09-0.17    | 6.80-10.6  | 0.43-0.63   | 0.46-0.58     | 7.35-7.77 |



### Upper Boucherie Outlet

| Upper Boucherie Outlet SCADA |            |            |            |
|------------------------------|------------|------------|------------|
| Date                         | FCR        |            |            |
|                              | Min (mg/L) | Max (mg/L) | Avg (mg/L) |
| <b>April</b>                 |            |            |            |
| 1                            | 0.23       | 0.61       | 0.31       |
| 2                            | 0.33       | 0.36       | 0.35       |
| 3                            | 0.30       | 0.33       | 0.32       |
| 4                            | 0.27       | 0.30       | 0.29       |
| 5                            | 0.25       | 0.42       | 0.27       |
| 6                            | 0.26       | 0.75       | 0.41       |
| 7                            | 0.34       | 0.38       | 0.36       |
| 8                            | 0.32       | 0.34       | 0.33       |
| 9                            | 0.28       | 0.32       | 0.30       |
| 10                           | 0.25       | 0.28       | 0.27       |
| 11                           | 0.26       | 0.32       | 0.29       |
| 12                           | 0.25       | 0.27       | 0.26       |
| 13                           | 0.25       | 0.77       | 0.41       |
| 14                           | 0.35       | 0.39       | 0.38       |
| 15                           | 0.31       | 0.35       | 0.33       |
| 16                           | 0.28       | 0.31       | 0.30       |
| 17                           | 0.24       | 0.30       | 0.27       |
| 18                           | 0.24       | 0.96       | 0.36       |
| 19                           | 0.35       | 0.39       | 0.38       |
| 20                           | 0.31       | 0.35       | 0.33       |
| 21                           | 0.27       | 0.31       | 0.29       |

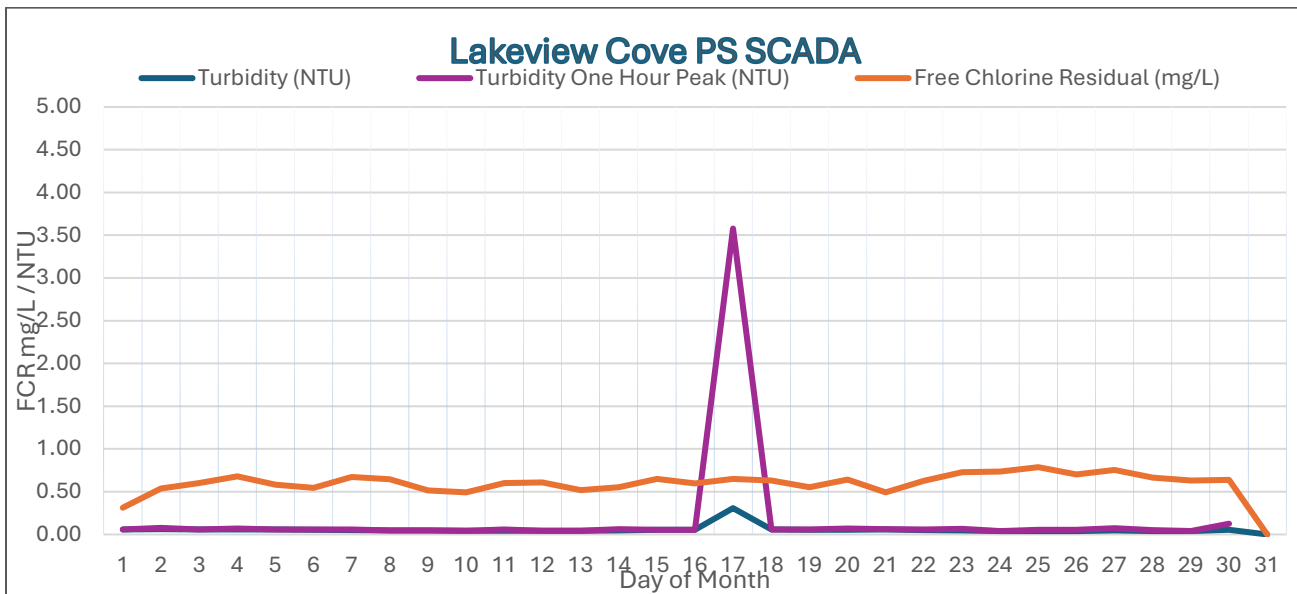
|                |      |      |      |
|----------------|------|------|------|
| 22             | 0.27 | 0.67 | 0.37 |
| 23             | 0.29 | 0.34 | 0.32 |
| 24             | 0.24 | 0.29 | 0.27 |
| 25             | 0.22 | 0.91 | 0.30 |
| 26             | 0.36 | 0.40 | 0.39 |
| 27             | 0.31 | 0.36 | 0.34 |
| 28             | 0.27 | 0.31 | 0.29 |
| 29             | 0.26 | 0.88 | 0.41 |
| 30             | 0.35 | 0.43 | 0.40 |
| <b>Average</b> | 0.28 | 0.45 | 0.33 |
| <b>Min</b>     | 0.22 | 0.27 | 0.26 |
| <b>Max</b>     | 0.36 | 0.96 | 0.41 |



## Lakeview Cove PS

| Lakeview Cove PS SCADA |           |                       |            |            |            |            |
|------------------------|-----------|-----------------------|------------|------------|------------|------------|
| Date                   | Turbidity | Turbidity (Peak 1 Hr) | FCR        |            |            | Water Temp |
|                        | Avg (NTU) | Max Based On 1 Hr Avg | Min (mg/L) | Max (mg/L) | Avg (mg/L) | Avg (°C)   |
| <b>April</b>           |           |                       |            |            |            |            |
| 1                      | 0.06      | 0.06                  | 0.26       | 0.37       | 0.31       | 9.46       |
| 2                      | 0.06      | 0.08                  | 0.26       | 0.93       | 0.54       | 9.62       |
| 3                      | 0.06      | 0.06                  | 0.53       | 0.93       | 0.60       | 9.67       |
| 4                      | 0.06      | 0.07                  | 0.52       | 0.94       | 0.68       | 9.21       |
| 5                      | 0.06      | 0.06                  | 0.51       | 0.64       | 0.58       | 9.80       |
| 6                      | 0.06      | 0.06                  | 0.48       | 0.61       | 0.55       | 9.98       |

|                |      |      |      |      |      |       |
|----------------|------|------|------|------|------|-------|
| 7              | 0.05 | 0.06 | 0.58 | 0.90 | 0.67 | 9.68  |
| 8              | 0.05 | 0.05 | 0.52 | 0.82 | 0.65 | 10.13 |
| 9              | 0.05 | 0.05 | 0.47 | 0.55 | 0.51 | 10.31 |
| 10             | 0.04 | 0.04 | 0.45 | 0.56 | 0.49 | 10.46 |
| 11             | 0.04 | 0.06 | 0.52 | 0.72 | 0.60 | 10.11 |
| 12             | 0.04 | 0.04 | 0.52 | 0.69 | 0.61 | 10.47 |
| 13             | 0.04 | 0.04 | 0.50 | 0.54 | 0.52 | 10.49 |
| 14             | 0.05 | 0.06 | 0.44 | 0.77 | 0.55 | 10.22 |
| 15             | 0.05 | 0.05 | 0.60 | 0.76 | 0.65 | 10.92 |
| 16             | 0.05 | 0.06 | 0.56 | 0.65 | 0.60 | 11.14 |
| 17             | 0.31 | 3.58 | 0.59 | 0.81 | 0.65 | 10.60 |
| 18             | 0.06 | 0.06 | 0.55 | 0.79 | 0.63 | 10.81 |
| 19             | 0.06 | 0.06 | 0.53 | 0.57 | 0.55 | 11.05 |
| 20             | 0.06 | 0.07 | 0.49 | 1.97 | 0.64 | 10.34 |
| 21             | 0.06 | 0.06 | 0.43 | 0.75 | 0.49 | 9.34  |
| 22             | 0.05 | 0.06 | 0.48 | 2.03 | 0.63 | 9.48  |
| 23             | 0.05 | 0.07 | 0.48 | 0.92 | 0.73 | 10.53 |
| 24             | 0.04 | 0.04 | 0.68 | 0.85 | 0.74 | 11.43 |
| 25             | 0.04 | 0.05 | 0.68 | 0.88 | 0.79 | 11.33 |
| 26             | 0.04 | 0.06 | 0.61 | 0.80 | 0.70 | 11.53 |
| 27             | 0.05 | 0.07 | 0.65 | 0.99 | 0.76 | 12.25 |
| 28             | 0.04 | 0.05 | 0.59 | 0.71 | 0.66 | 11.53 |
| 29             | 0.04 | 0.04 | 0.54 | 0.73 | 0.63 | 11.04 |
| 30             | 0.06 | 0.12 | 0.51 | 0.75 | 0.64 | 10.91 |
| <b>Average</b> | 0.06 |      | 0.52 | 0.83 | 0.61 | 10.46 |
| <b>Min</b>     | 0.04 |      | 0.26 | 0.37 | 0.31 | 9.21  |
| <b>Max</b>     | 0.31 | 3.58 | 0.68 | 2.03 | 0.79 | 12.25 |



# WQ Field Data

## Thacker SS

| Thacker SS Water Quality |            |            |             |           |
|--------------------------|------------|------------|-------------|-----------|
| Date                     | Turbidity  | Water Temp | FCR         | pH        |
|                          | Grab (NTU) | Grab (°C)  | Grab (mg/L) |           |
| 01-Apr-25                | 0.16       | 7.8        | 0.43        | 7.59      |
| 08-Apr-25                | 0.24       | 8.4        | 0.63        | 7.55      |
| 15-Apr-25                | 0.17       | 9.3        | 0.54        | 7.31      |
| 22-Apr-25                | 0.13       | 9.4        | 0.44        | 7.23      |
| 29-Apr-25                | 0.09       | 9.8        | 0.62        | 7.52      |
| # of Samples             | 5          | 5          | 5           | 5         |
| Average                  | 0.16       | 8.94       | 0.53        | 7.44      |
| Range                    | 0.09-0.24  | 7.8-9.8    | 0.43-0.63   | 7.23-7.59 |

## Shannon Way SS

| Shannon Way SS Water Quality |            |            |             |           |
|------------------------------|------------|------------|-------------|-----------|
| Date                         | Turbidity  | Water Temp | FCR         | pH        |
|                              | Grab (NTU) | Grab (°C)  | Grab (mg/L) |           |
| 01-Apr-25                    | 0.12       | 6.8        | 0.5         | 7.54      |
| 08-Apr-25                    | 0.09       | 7.9        | 0.57        | 7.74      |
| 15-Apr-25                    | 0.08       | 9.1        | 0.41        | 7.49      |
| 22-Apr-25                    | 0.1        | 8.9        | 0.41        | 7.6       |
| 29-Apr-25                    | 0.17       | 9.8        | 0.53        | 7.63      |
| # of Samples                 | 5          | 5          | 5           | 5         |
| Average                      | 0.11       | 8.50       | 0.48        | 7.60      |
| Range                        | 0.08-0.17  | 6.8-9.8    | 0.41-0.57   | 7.49-7.74 |

## Lower Horizon SS

| Lower Horizon SS Water Quality |            |            |             |      |
|--------------------------------|------------|------------|-------------|------|
| Date                           | Turbidity  | Water Temp | FCR         | pH   |
|                                | Grab (NTU) | Grab (°C)  | Grab (mg/L) |      |
| 01-Apr-25                      | 0.1        | 7.3        | 0.55        | 7.47 |
| 08-Apr-25                      | 0.11       | 7.7        | 0.65        | 7.71 |
| 15-Apr-25                      | 0.16       | 8.7        | 0.44        | 7.27 |
| 22-Apr-25                      | 0.16       | 9          | 0.4         | 7.36 |

|              |           |         |           |           |
|--------------|-----------|---------|-----------|-----------|
| 29-Apr-25    | 0.15      | 9.8     | 0.5       | 7.55      |
| # of Samples | 5         | 5       | 5         | 5         |
| Average      | 0.14      | 8.50    | 0.51      | 7.47      |
| Range        | 0.10-0.16 | 7.3-9.8 | 0.40-0.65 | 7.27-7.71 |

## Pritchard SS

| Pritchard SS Water Quality |            |            |             |           |
|----------------------------|------------|------------|-------------|-----------|
| Date                       | Turbidity  | Water Temp | FCR         | pH        |
|                            | Grab (NTU) | Grab (°C)  | Grab (mg/L) |           |
| 01-Apr-25                  | 0.16       | 9          | 0.46        | 7.61      |
| 08-Apr-25                  | 0.13       | 9.4        | 0.44        | 7.81      |
| 15-Apr-25                  | 0.14       | 10.3       | 0.34        | 7.38      |
| 22-Apr-25                  | 0.14       | 10.3       | 0.31        | 7.48      |
| 29-Apr-25                  | 0.14       | 11.1       | 0.48        | 7.62      |
| # of Samples               | 5          | 5          | 5           | 5         |
| Average                    | 0.14       | 10.02      | 0.41        | 7.58      |
| Range                      | 0.13-0.16  | 9.0-11.1   | 0.31-0.48   | 7.38-7.81 |

## Vineyard View SS

| Vineyard View SS Water Quality |            |            |             |           |
|--------------------------------|------------|------------|-------------|-----------|
| Date                           | Turbidity  | Water Temp | FCR         | pH        |
|                                | Grab (NTU) | Grab (°C)  | Grab (mg/L) |           |
| 01-Apr-25                      | 0.17       | 8.1        | 0.24        | 7.55      |
| 08-Apr-25                      | 0.13       | 8.6        | 0.29        | 7.69      |
| 15-Apr-25                      | 0.11       | 9.6        | 0.26        | 7.35      |
| 22-Apr-25                      | 0.11       | 9.8        | 0.34        | 7.25      |
| 29-Apr-25                      | 0.14       | 11         | 0.5         | 7.54      |
| # of Samples                   | 5          | 5          | 5           | 5         |
| Average                        | 0.13       | 9.42       | 0.33        | 7.48      |
| Range                          | 0.11-0.17  | 8.10-11    | 0.24-0.50   | 7.25-7.69 |