

## October Superintendents report

November 14, 2023

October Received 5.28 Inches; Total plant flow was 548.43 MG with an average daily flow of 17.69 MGD. CBOD of 8 mg/L, Tss of 6 mg/L, TN of 3.5 mg/L. Phos 0.525 mg/L, Ammonia of 0.139 mg/L.

The special board meeting resulted in the board authorizing the use of Welliver and the ok to use \$250,000 from contingency to a line to be used to pay the contractor. Also authorized the use of the Professional services line to pay GHD for its engineering of the pumping plans required for this work.

The DEC will also require a periodic review and status update by an engineer as the work progresses.

They also require the plant superintendent to provide a daily report containing what work has been accomplished, the daily process data and all processes that are in service or bypassed. This is like the reporting after the February 18 event.

Since then, Influent channels 1 and 2. CN effluent channels 3, 4, 7, 8, and 9 have been completed. Bypass pumps were returned, and we are down to CN effluent channel number 5 left to be completed. DN backwash channels will be revisited next year as temperature and flow allow. On 11/13/2023 Welliver and plant staff had another Diversion project and Welliver completed the membrane installation on Channel 3. We will be performing this procedure one more time this year as soon as the flow permits. That will leave only the inspection and work in channels 10 and 11 remaining.

Since the water leak was repaired and we got RSP to come fix issues with the Microturbines, they have averaged 3,415 kwh/day, for a total of 105,850 kwh for the month of October. This equates to approximately \$6,828.40 offset of our monthly electric bill.

Digesters averaged 58.20 VSR (Volatile Solids Reduction).

We are actively reviewing resumes for the Instrumentation tech position.

On 11/08/2023 we returned our Electrical Line-up to normal operating status. We utilize Both 3B and 4B feeders, opened the Tie-Switch and placed both Generators in Auto.

On 11/11/2023 we experienced a loss of power from the Harper Sub-Station. At that time, both our back-up generators kicked in, and ran until power was restored and deemed stable by the Automatic Emergency Generator Control System. The NYSEG power was out for approximately 1 hour. Our Maximum demand on return to power was 1.396 Mega-Watts.

**Superintendents Summary Report for 2023**

|     | FLOW  | Precip | CBOD5   |       | REM | Tot Susp Solids |       |     | REM   | Settleable Solids |      |      | REM   | Total Nitrogen |      |       | REM | Phosphorous |       |     | REM   | Ammonia       |     | REM | TKN           |     | REM |
|-----|-------|--------|---------|-------|-----|-----------------|-------|-----|-------|-------------------|------|------|-------|----------------|------|-------|-----|-------------|-------|-----|-------|---------------|-----|-----|---------------|-----|-----|
|     | MGD   | Inches | In      | out   | %   | In              | out   | %   | In    | out               | %    | In   | out   | %              | In   | out   | %   | In          | out   | %   | In    | out           | In  | out | In            | out |     |
|     | AVG   |        |         | limit |     |                 | limit |     |       | limit             |      |      | limit |                |      | limit |     |             | limit |     |       | limit         |     |     | limit         |     |     |
|     |       |        | 18 mg/L |       |     | 20 mg/L         |       |     |       | 0.3 mL/L          |      |      |       | 6.0 mg/L       |      |       |     | 1.0 mg/L    |       |     |       | 1800 lbs./Day |     |     | 11000 lbs/Day |     |     |
| Jan | 21.29 | 3.29   | 165     | 14    | 92% | 151             | 11.5  | 92% | 7.60  | 0.07              | 99%  | 17.9 | 3.6   | 80%            | 3.10 | 0.400 | 87% | 9.80        | 0.2   | 98% | 17.5  | 1.8           | 90% |     |               |     |     |
| Feb | 17.08 | 1.53   | 198     | 10    | 95% | 189             | 6.8   | 96% | 9.50  | 0.05              | 99%  | 22.7 | 3.7   | 84%            | 5.10 | 0.321 | 94% | 12.90       | 0.3   | 98% | 22.4  | 1.5           | 93% |     |               |     |     |
| Mar | 20.76 | 2.82   | 177     | 9     | 95% | 183             | 5.3   | 97% | 8.40  | 0.03              | 100% | 19.1 | 3.8   | 80%            | 2.78 | 0.303 | 89% | 10.20       | 0.14  | 99% | 18.6  | 1.4           | 92% |     |               |     |     |
| Apr | 16.88 | 3.47   | 200     | 10    | 95% | 178             | 5.1   | 97% | 12.40 | 0.07              | 99%  | 21.9 | 2.8   | 87%            | 3.00 | 0.470 | 84% | 12.90       | 0.136 | 99% | 21.8  | 1.6           | 93% |     |               |     |     |
| May | 18.46 | 0.62   | 204     | 9     | 96% | 192             | 4.8   | 98% | 11.60 | 0.10              | 99%  | 21.9 | 2.7   | 88%            | 3.20 | 0.416 | 87% | 11.60       | 0.107 | 99% | 21.7  | 1.3           | 94% |     |               |     |     |
| Jun | 13.19 | 4.40   | 201     | 8     | 96% | 207             | 4.0   | 98% | 15.00 | 0.10              | 99%  | 21.3 | 3.3   | 85%            | 3.00 | 0.445 | 85% | 14.50       | 0.196 | 99% | 21.3  | 1.6           | 92% |     |               |     |     |
| Jul | 16.20 | 6.82   | 153     | 6     | 96% | 170             | 3.9   | 98% | 12.80 | 0.10              | 99%  | 15.7 | 3.5   | 78%            | 2.42 | 0.551 | 77% | 8.90        | 0.160 | 98% | 15.6  | 1.19          | 92% |     |               |     |     |
| Aug | 16.47 | 4.79   | 168     | 7     | 96% | 174             | 6.0   | 97% | 12.00 | 0.10              | 99%  | 18.1 | 3.3   | 82%            | 2.94 | 0.600 | 80% | 12.80       | 0.122 | 99% | 18.0  | 1.36          | 92% |     |               |     |     |
| Sep | 15.92 | 2.97   | 160     | 9     | 94% | 163             | 6.0   | 96% | 17.00 | 0.10              | 99%  | 21.4 | 2.5   | 88%            | 3.10 | 0.470 | 85% | 13.00       | 0.145 | 99% | 21.3  | 1.5           | 93% |     |               |     |     |
| Oct | 17.69 | 5.28   | 171     | 8     | 95% | 166             | 6.0   | 96% | 13.20 | 0.10              | 99%  | 20.1 | 3.5   | 83%            | 3.70 | 0.525 | 86% | 12.50       | 0.139 | 99% | 19.9  | 1.65          | 92% |     |               |     |     |
| Nov |       |        |         |       |     |                 |       |     |       |                   |      |      |       |                |      |       |     |             |       |     |       |               |     |     |               |     |     |
| Dec |       |        |         |       |     |                 |       |     |       |                   |      |      |       |                |      |       |     |             |       |     |       |               |     |     |               |     |     |
|     |       | TOT    |         |       |     |                 |       |     |       |                   |      |      |       |                |      |       |     |             |       |     |       |               |     |     |               |     |     |
| Avg | 17.39 | 35.99  | 180     | 9     | 95% | 177             | 5.9   | 97% | 11.95 | 0.08              | 99%  | 20.0 | 3.3   | 83%            | 3.23 | 0.450 | 85% | 11.91       | 0.16  | 99% | 19.81 | 1.49          | 92% |     |               |     |     |

**Ammonia Lbs in = 52,089      Ammonia Lbs out = 582 calculated**

**TKN Lbs in = 84,797      TKN Lbs out = 7,622 sum of daily Lbs**

**Ammonia limit equates to approx 6 mg/L monthly Avg. / TKN limit equates to 38 mg/L Monthly Avg.**

**TN limit is 6.0 mg/L From O1A    REM = Removal %**

**The Permit for TN = Monitoring Monthly Avg. from Outfall OO1, Not to Exceed 639,261 lbs. as a Rolling 12 Month Avg.**

**Outfall OO1 includes Flow Through O1A (DN cells) and O1B (DN Cell Bypass)**

**These numbers represent Outfall from OO1**

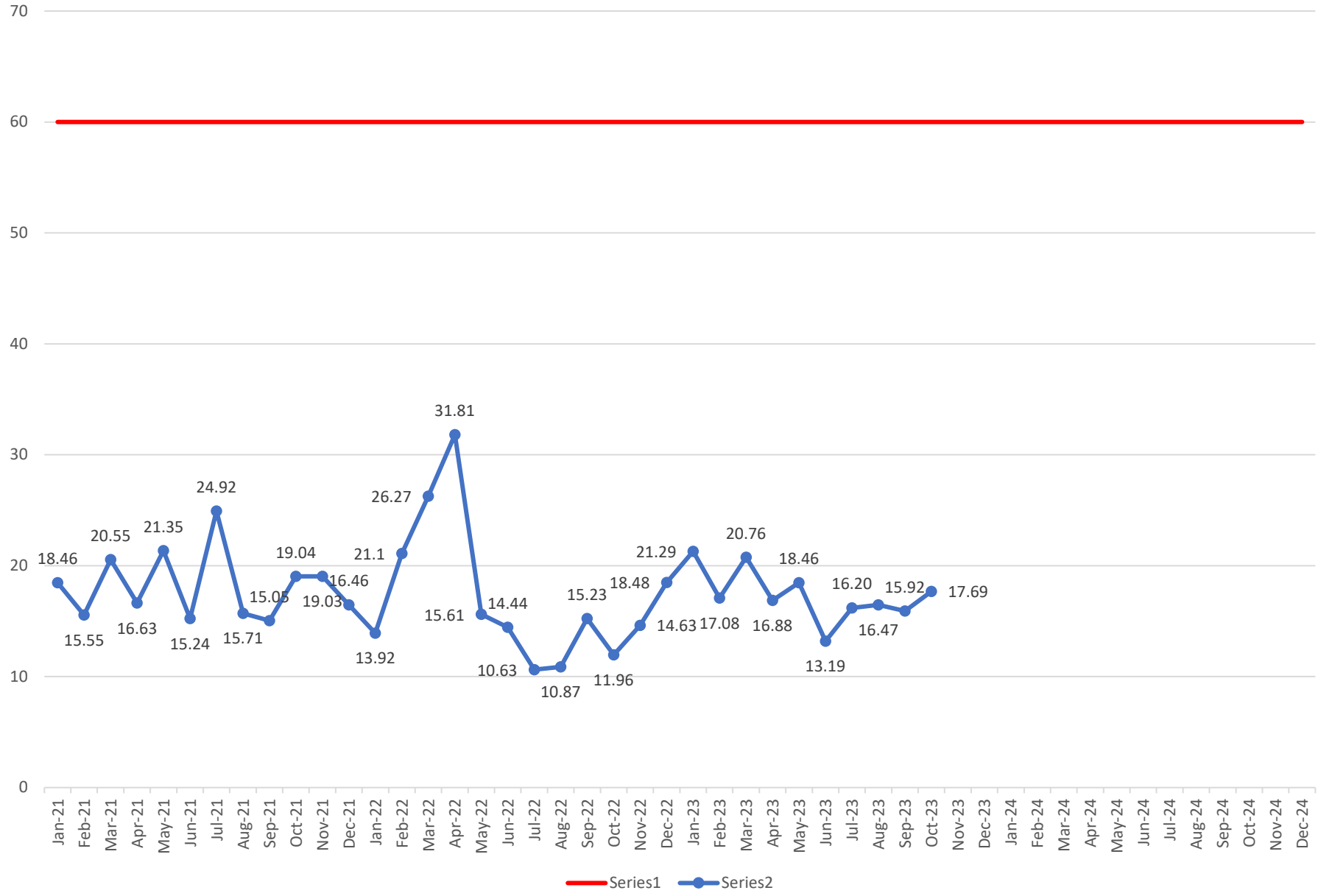
**Landfill 2023 Summary**

| Date      | Digested | Lime Stab | Solids Total |              | Bar screen | Grit and Screen |             | Grease |
|-----------|----------|-----------|--------------|--------------|------------|-----------------|-------------|--------|
|           | Tons     | Tons      | Tons         | Cost         | Tons       | Tons            | Cost        | Tons   |
| January   | 694.60   |           | 694.60       | \$27,784.00  |            | 15.70           | \$706.50    |        |
| February  | 572.08   |           | 572.08       | \$22,883.20  |            | 13.97           | \$628.65    |        |
| March     | 702.74   |           | 702.74       | \$28,109.60  |            | 25.90           | \$1,165.50  |        |
| April     | 584.34   |           | 584.34       | \$23,373.60  |            | 8.63            | \$388.35    |        |
| May       | 669.35   |           | 669.35       | \$26,774.00  |            | 28.04           | \$1,261.80  |        |
| June      | 708.35   |           | 708.35       | \$28,334.00  |            | 26.26           | \$1,181.70  |        |
| July      | 781.79   |           | 781.79       | \$31,271.60  |            | 24.07           | \$1,083.15  |        |
| August    | 626.47   |           | 626.47       | \$25,058.80  |            | 38.00           | \$1,710.00  |        |
| September | 629.29   |           | 629.29       | \$25,171.60  |            | 25.36           | \$1,153.35  |        |
| October   | 746.69   |           | 746.69       | \$29,867.60  |            | 21.00           | \$945.00    |        |
| November  |          |           |              |              |            |                 |             |        |
| December  |          |           |              |              |            |                 |             |        |
| Average   | 671.57   |           | 671.57       | \$26,862.80  |            | 22.69           | \$1,022.40  |        |
| Total     | 6,715.70 |           | 6,715.70     | \$268,628.00 |            | 226.93          | \$10,224.00 |        |
|           |          |           |              | \$40/Ton     |            |                 | \$45/Ton    |        |

\$278,852.00

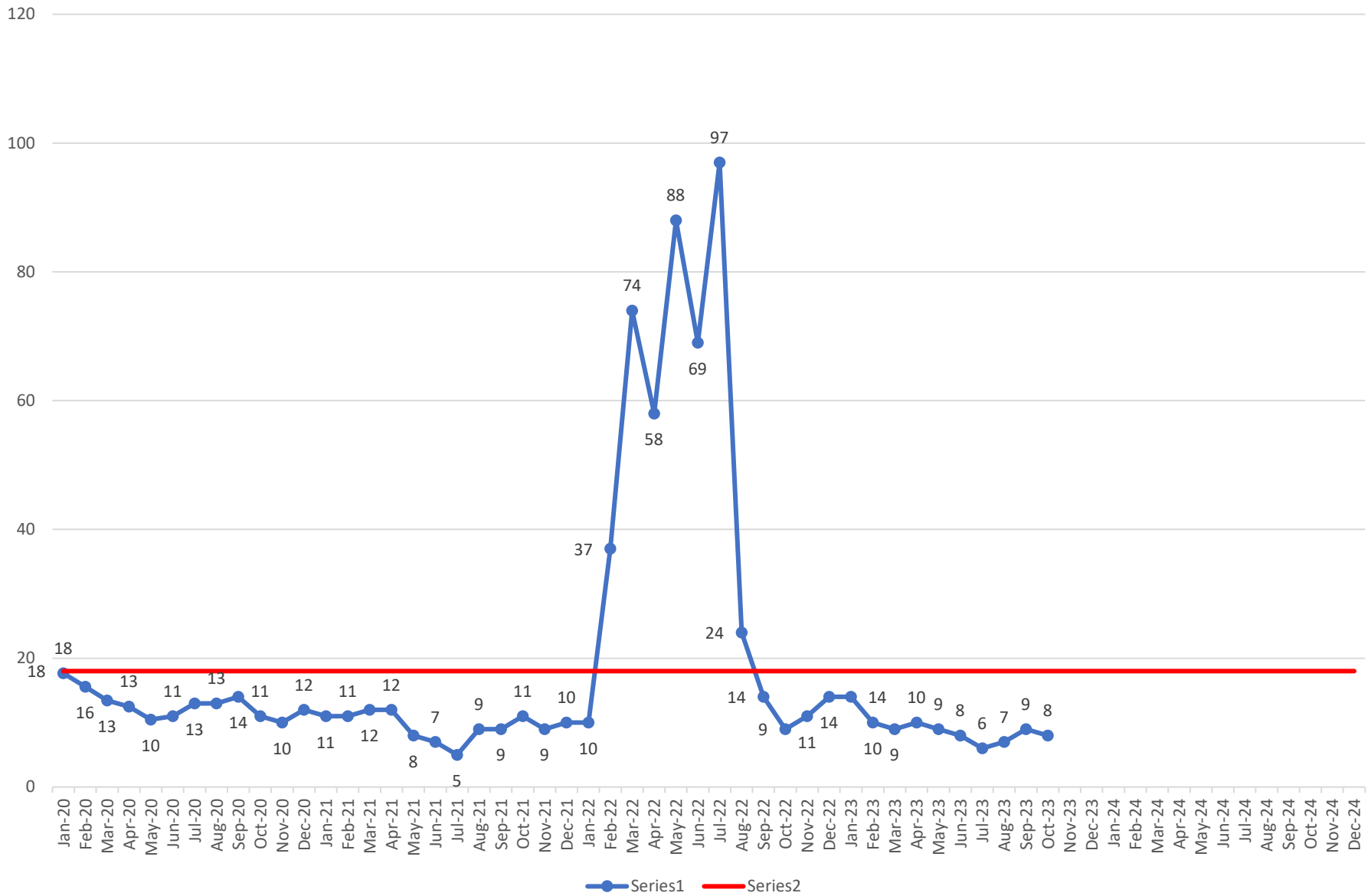
Annual Cost to Date

# 2021-2023 Flow

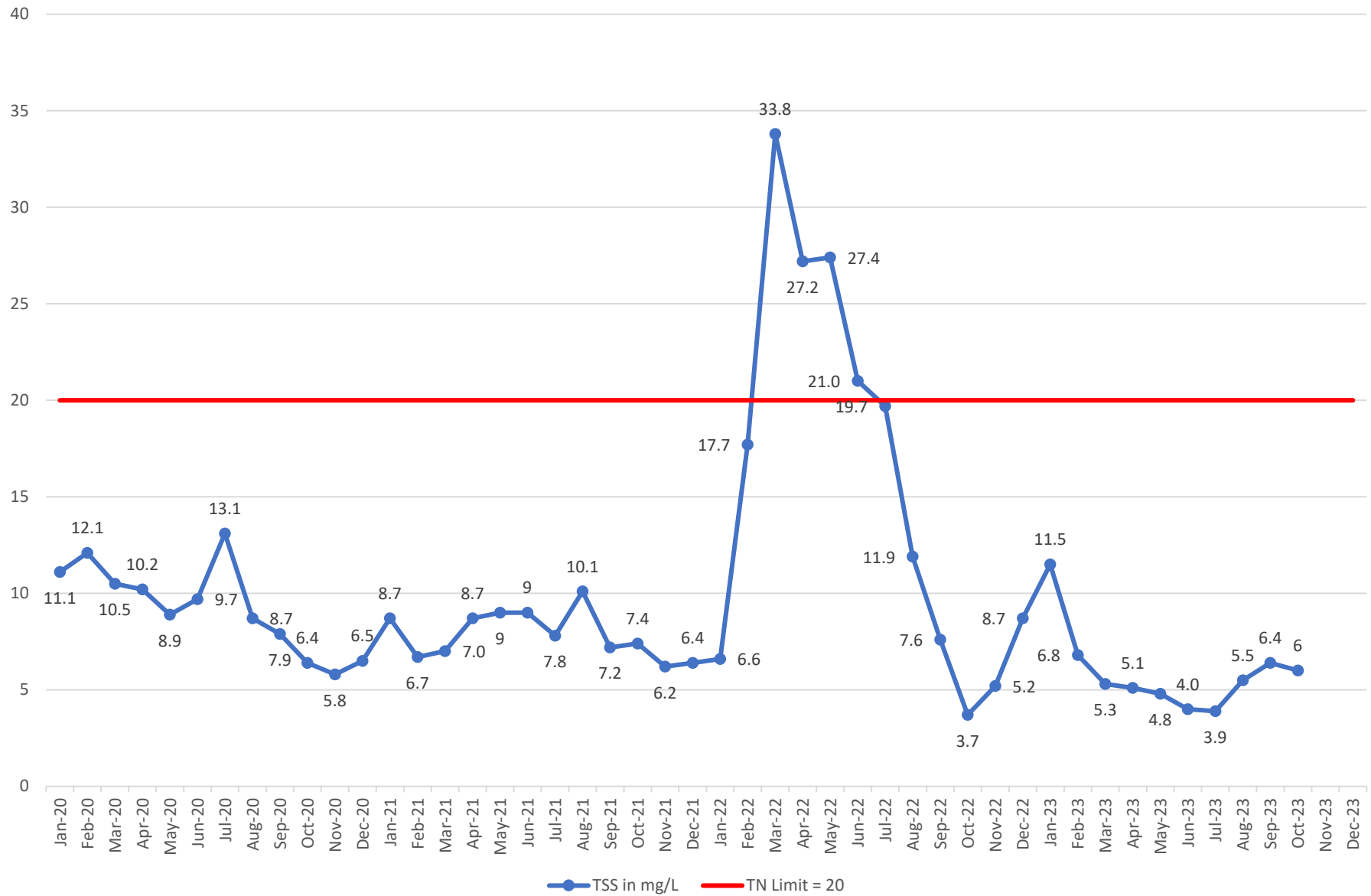


## 2020-2023 CBOD

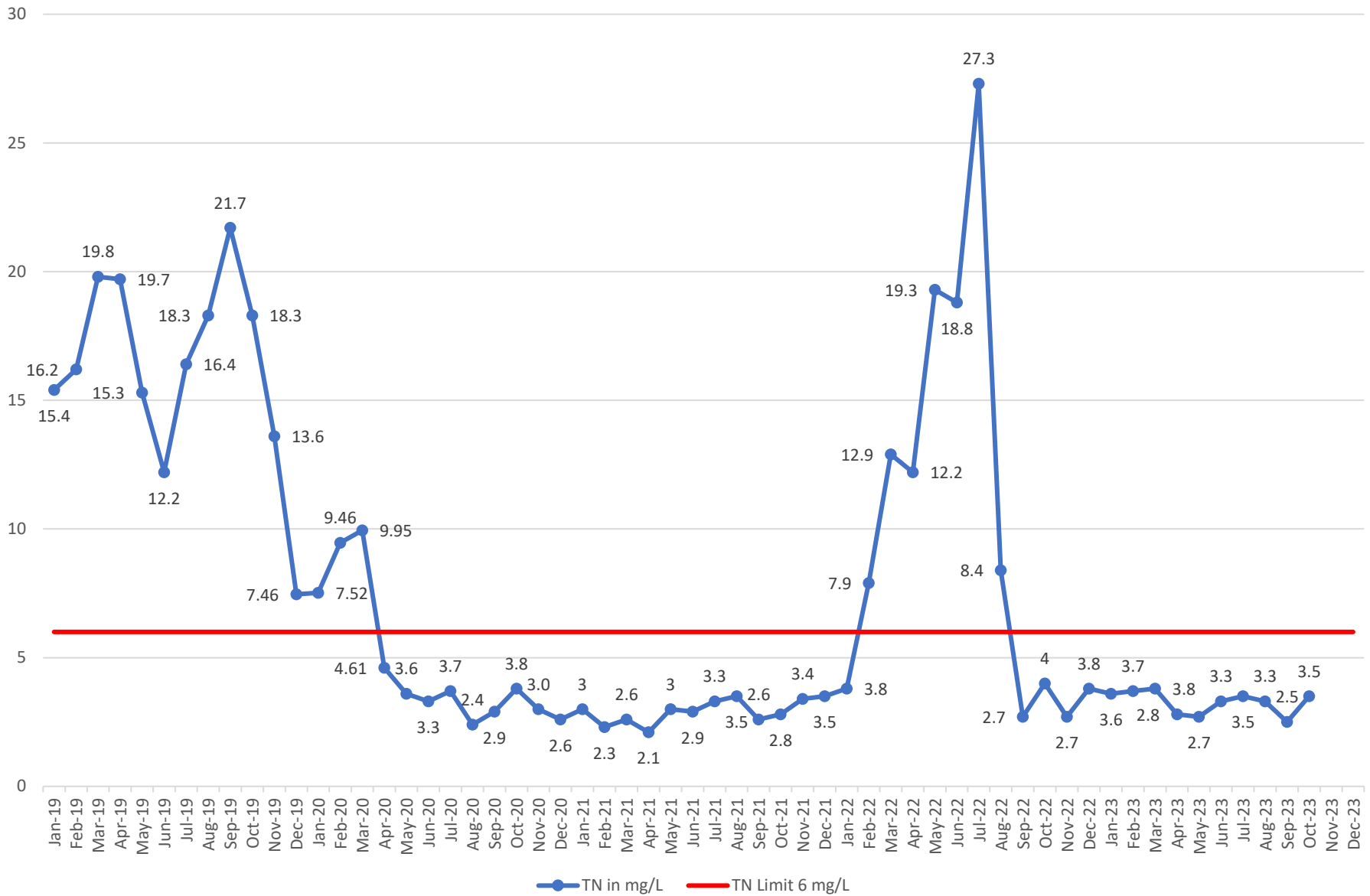
Limit = 18 mg/L/Day Monthly Avg



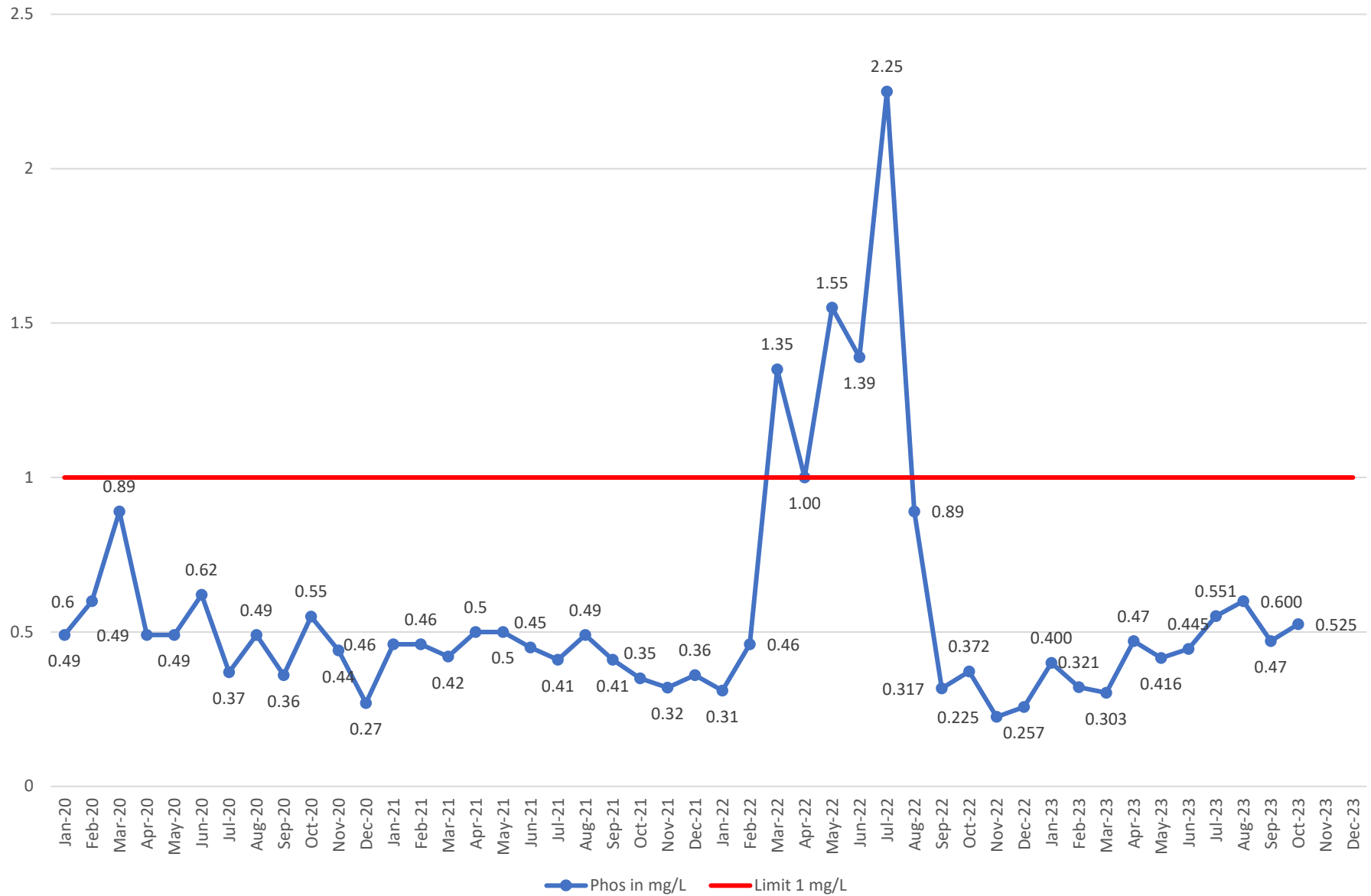
TSS 2020-2023  
Limit = 20 mg/L/Day Monthly Avg



TN 2019-2023  
Limit = 6.0 mg/L /Day Monthly Avg



2020-2023 Phos  
Limit = 1.0 mg/L/Day Monthly Avg





2020-2023 NH3 in Avg. Lbs/Day  
Limit = 1800 Lbs/Day

