

January Superintendents Report

February 13, 2024

January saw 4.71 inches of precipitation

Average daily flow was 26.40 MGD and a sum of 818.5 million gallons for the month. April 2022 is the last time we had more flow.

CBOD = 10 mg/L, TSS = 5 mg/L, NH₃ = 0.14 mg/L, Phos = 0.340 mg/L, Fecals 3 MPN, TN = 3.6 mg/L with 1 Data point remaining.

Industrial Appraisal company (IAC) was here last week

Mechanics repaired a broken plant water line at the UV building. They also repaired a leaking 2 inch potable water line in the Admin. building.

We need to send Mechanics to Backflow Prevention Certification renewal class with 1 Mechanic getting the initial training which is \$900. \$240 for renewals. These classes are in Binghamton.

On Saturday we experienced an influent surge due to heavy rainfall and a potential lightning strike. This put the auto controls into a cycle of trying to start under abnormal conditions. The process safety instrumentation repeatedly protected the equipment by shutting the system down during start-up. Operators were forced to run cells in hand to limit CN bypassing. As the flows subsided and with the help of our electrical engineer, operators were able to stabilize the system and get everything working in auto. The Superintendent, Assistant Superintendent, Senior operator, Electrical Engineer, Lead shift operator from 2nd shift and second shift personnel all worked to get the plant running. We notified the DEC (Matt Widay) via telephone, and sent out a NYALERT. I asked the operators to monitor the CN facility closely all night after everything was up in running. I spoke to Kruger, (Rockford Herrick) this morning to see if there are any programming solutions we could use or a "B" routine to use if this situation arises again. He said he would set something up.

Notes:

Operator Training advances.

Frito Lay letter.

Superintendents Summary Report for 2024																														
	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			
			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	26.40	4.71	116	10	91%	123	5	96%	7.40	0.10	99%							2.40	0.340	86%	7.30	0.14	98%	12.3	1.2	90%				
Feb																														
Mar																														
Apr																														
May																														
Jun																														
Jul																														
Aug																														
Sep																														
Oct																														
Nov																														
Dec																														
		TOT																												
Avg	26.40	4.71	116	10	91%	123	5.0	96%	7.40	0.10	99%	#DIV/0!	####	#####	2.40	0.340	86%	7.30	0.14	98%	12.30	1.20	90%							
<p style="text-align: center;">Ammonia Lbs in = 44848 Ammonia Lbs out = 882 (calculated)</p> <p style="text-align: center;">With One Data point remaining TN inf = 12.9, Eff = 3.6 mg/L</p> <p style="text-align: center;">Ammonia limit equates to approx 6 mg/L monthly Avg. / TKN limit equates to 38 mg/L Monthly Avg.</p> <p style="text-align: center;">TKN limit is 6.0 mg/L From O1A REM = Removal %</p> <p style="text-align: center;">The Permit for TN = Monitoring Monthly Avg. from Outfall OO1, Not to Exceed 639,261 lbs. as a Rolling 12 Month Avg.</p> <p style="text-align: center;">Outfall OO1 includes Flow Through O1A (DN cells) and O1B (DN Cell Bypass)</p> <p style="text-align: center;">These numbers represent Outfall from OO1</p>																														

Landfill 2024 Summary

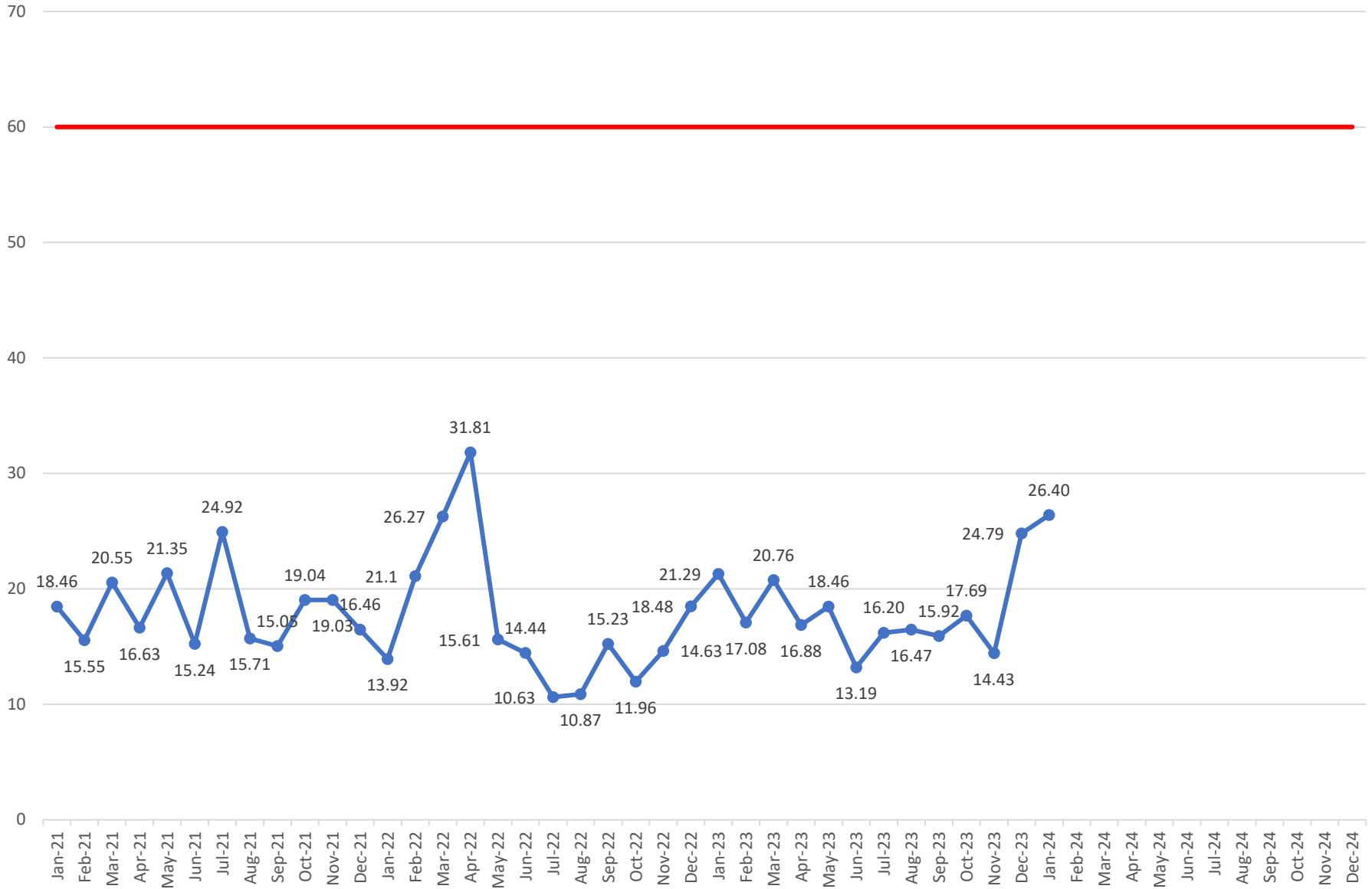
Date	Digested	Lime Stab	Solids Total		Bar screen	Grit and Screen		Grease
	Tons	Tons	Tons	Cost	Tons	Tons	Cost	Tons
January	717.02		717.02	\$28,680.80		22.98	\$1,034.10	
February								
March								
April								
May								
June								
July								
August								
September								
October								
November								
December								
Average	717.02		717.02	\$28,680.80		22.98	\$1,034.10	
Total	717.02		717.02	\$28,680.80		22.98	\$1,034.10	
				\$40/Ton			\$45/Ton	

\$29,714.90

Annual Cost to Date

\$420,000 budgeted for 2024

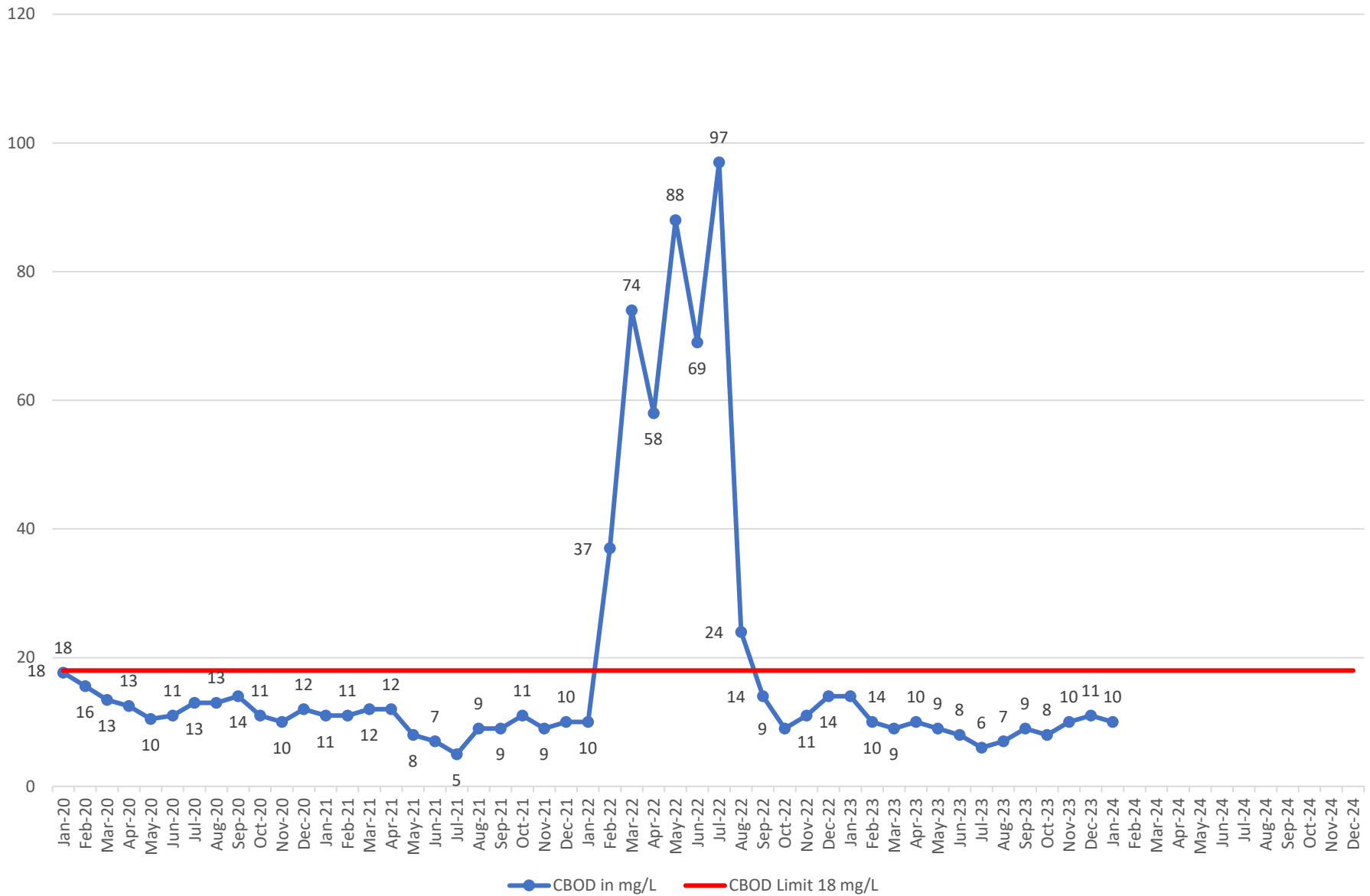
2021-2023 Flow



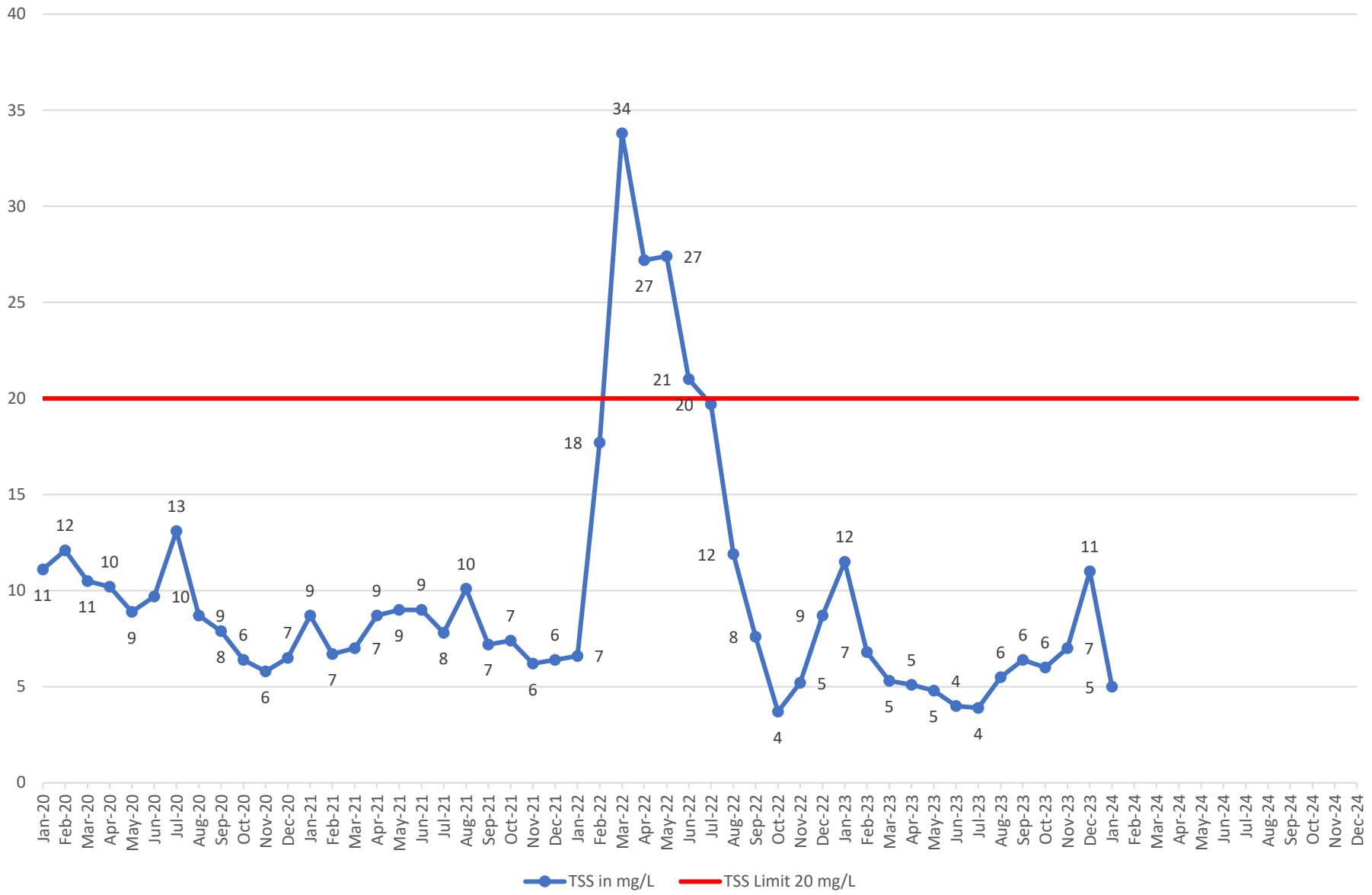
— Flow limit 60 MGD ●— Flow in MGD

2020-2023 CBOD

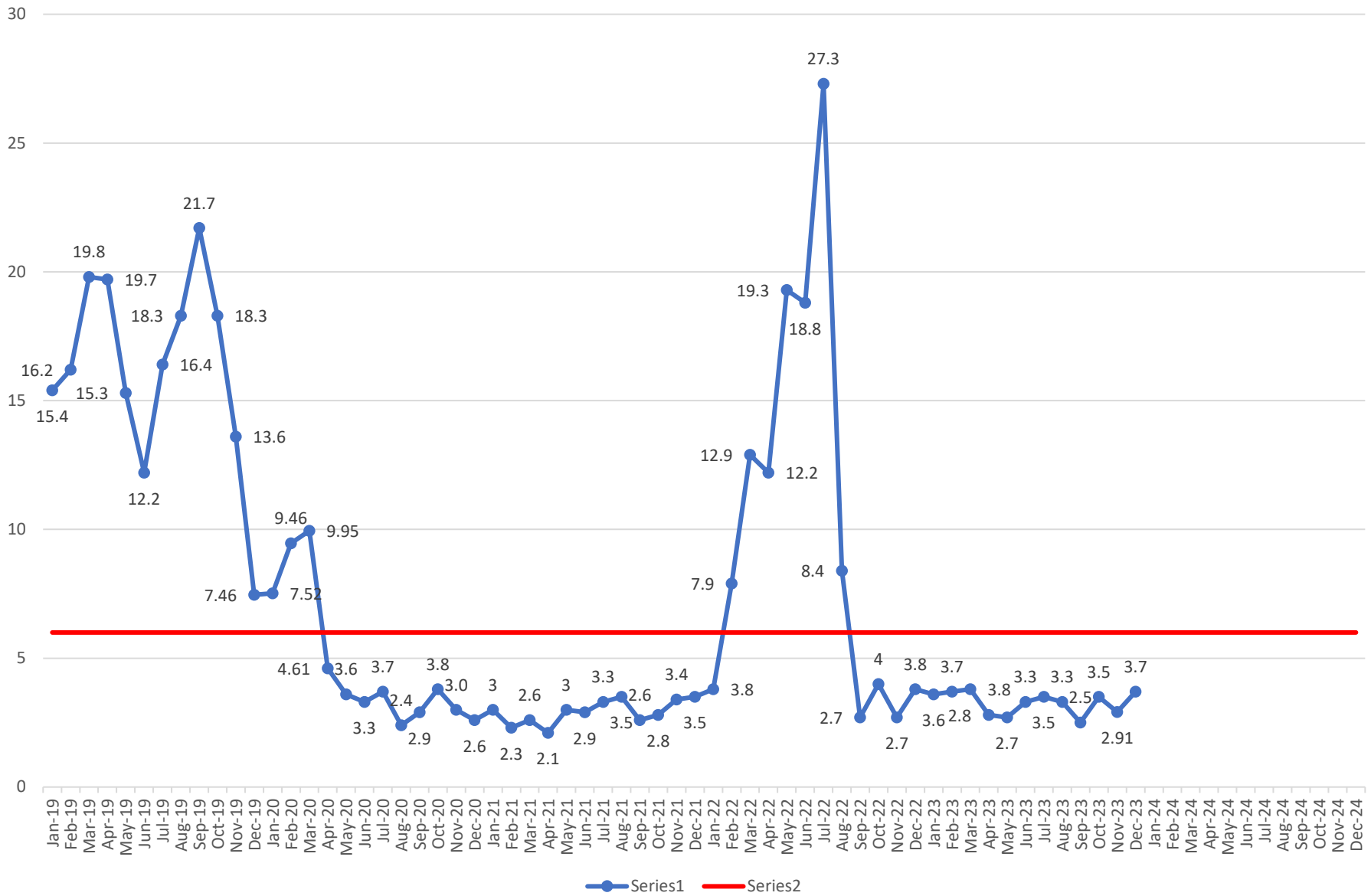
Limit = 18 mg/L/Day Monthly Avg



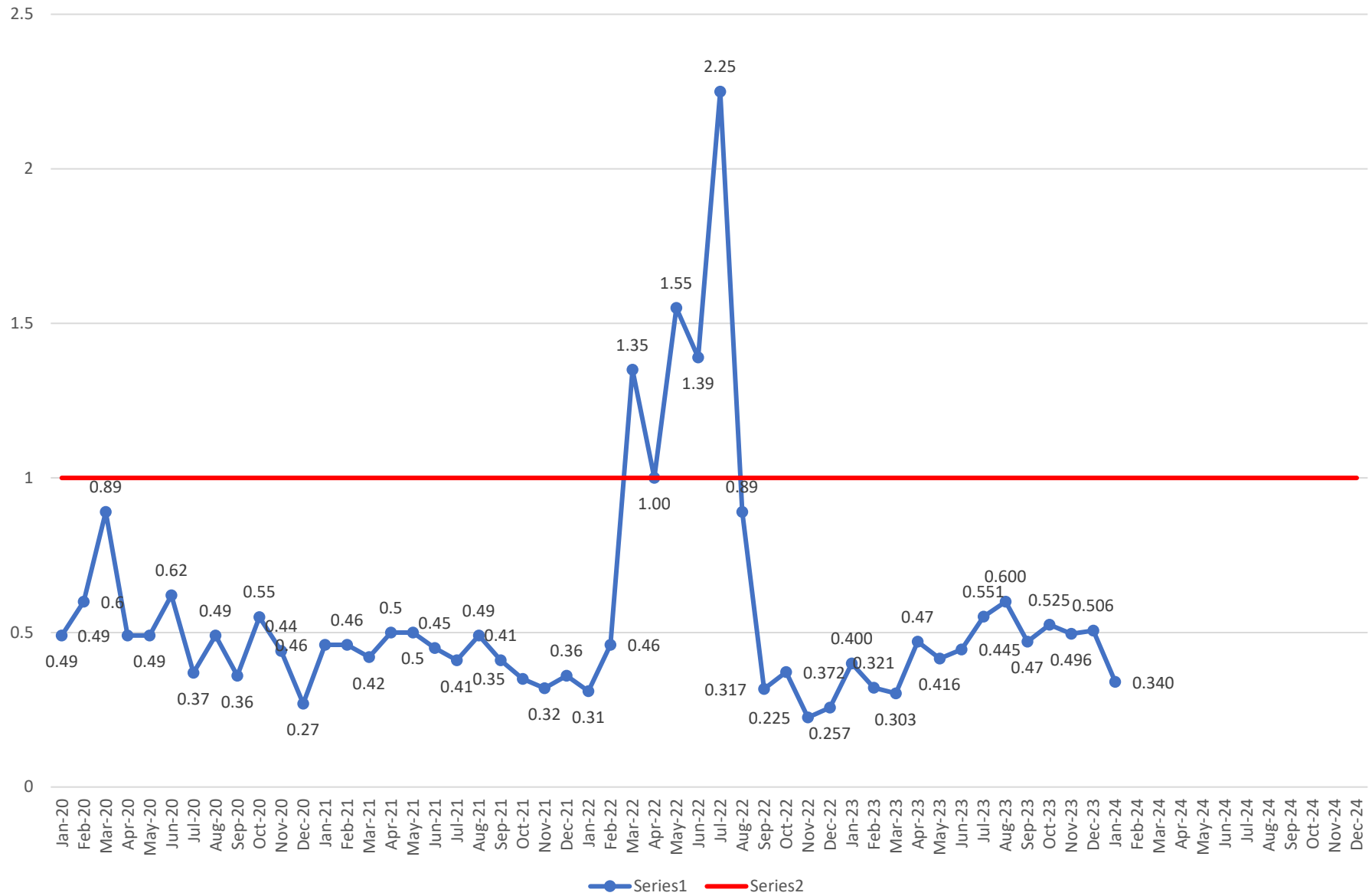
TSS 2020-2023 Limit = 20 mg/L/Day Monthly Avg



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

