

November Superintendents report

December 12, 2023

November received 1.49 inches; Total plant flow was 432.85 MG with an average daily flow of 14.43 MGD. CBOD of 10 mg/L, Tss of 7 mg/L, TN of 3.0 mg/L, with three data points to go. Phos 0.496 mg/L, Ammonia of 0.164 mg/L.

Microturbines averaged 3,415 kwh/day, and a total of 105,850 kwh for the month of October. Microturbines averaged 4,657 kwh/day, and a total of 139,712 kwh for the Month of November. Solar production for November was 3,110 kwh for the month.

Howard and Jim have been working with P&J on an alternative solution that may buy us time to get the other more pressing project done first.

Digesters averaged 60.51% VSR (Volatile Solids Reduction).

I would like to thank the board and especially Ron Lake for the help in getting the H-Line project nearly complete. The dollar savings in electric cost, wear and tear on all associated equipment and the chemical cost will be substantial.

We are still looking for resumes for Instrumentation tech position.

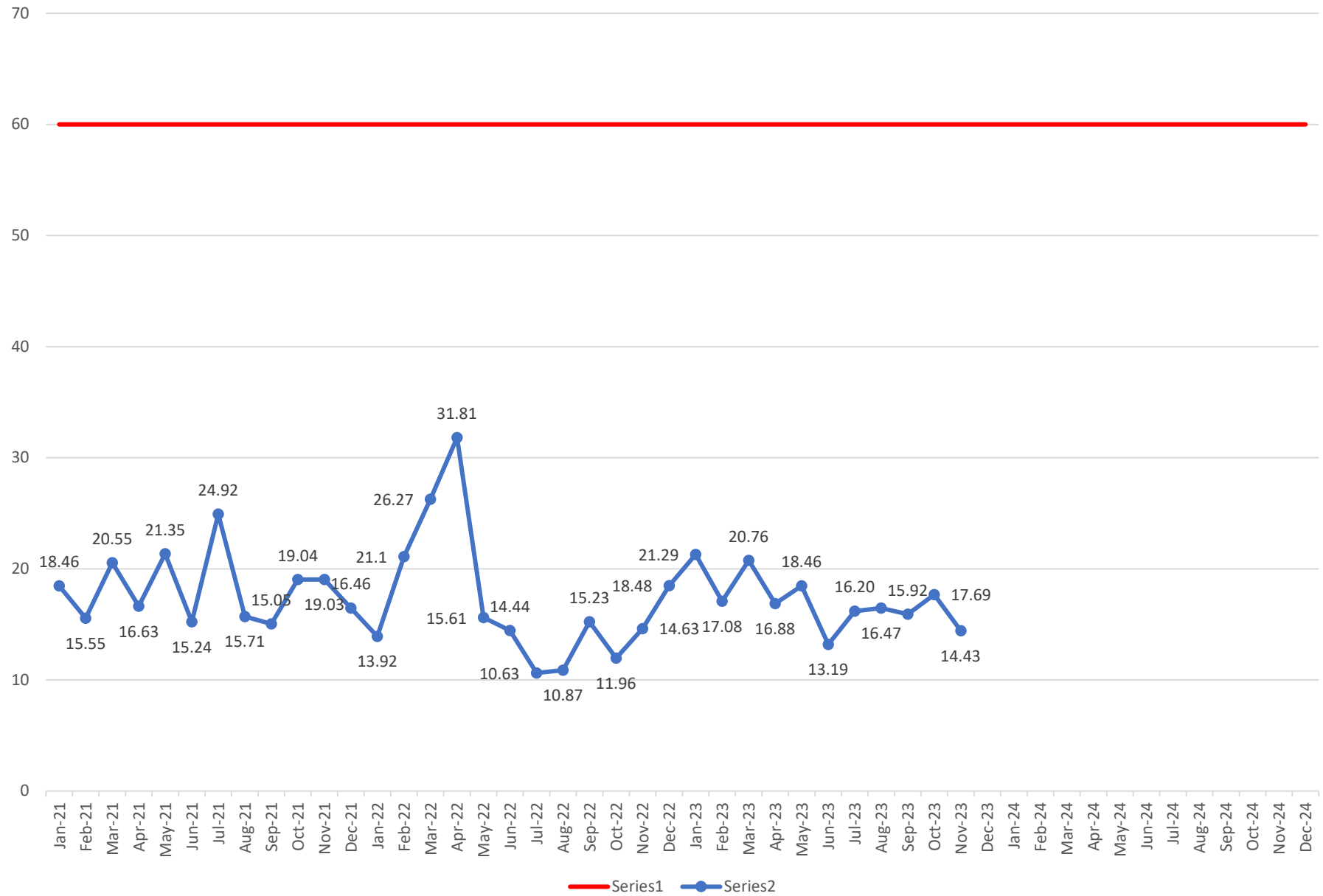
I would like to thank Billie for working on the daunting task of the CPI increases. I would also like to mention her tireless tuning of the budget process and detailed tracking of our budget lines with Rachel, resulting in transparency for the Board and the Owners.

I would like to congratulate M. Cisek for passing his operator 1 DEC examination and following in his fathers' footsteps.

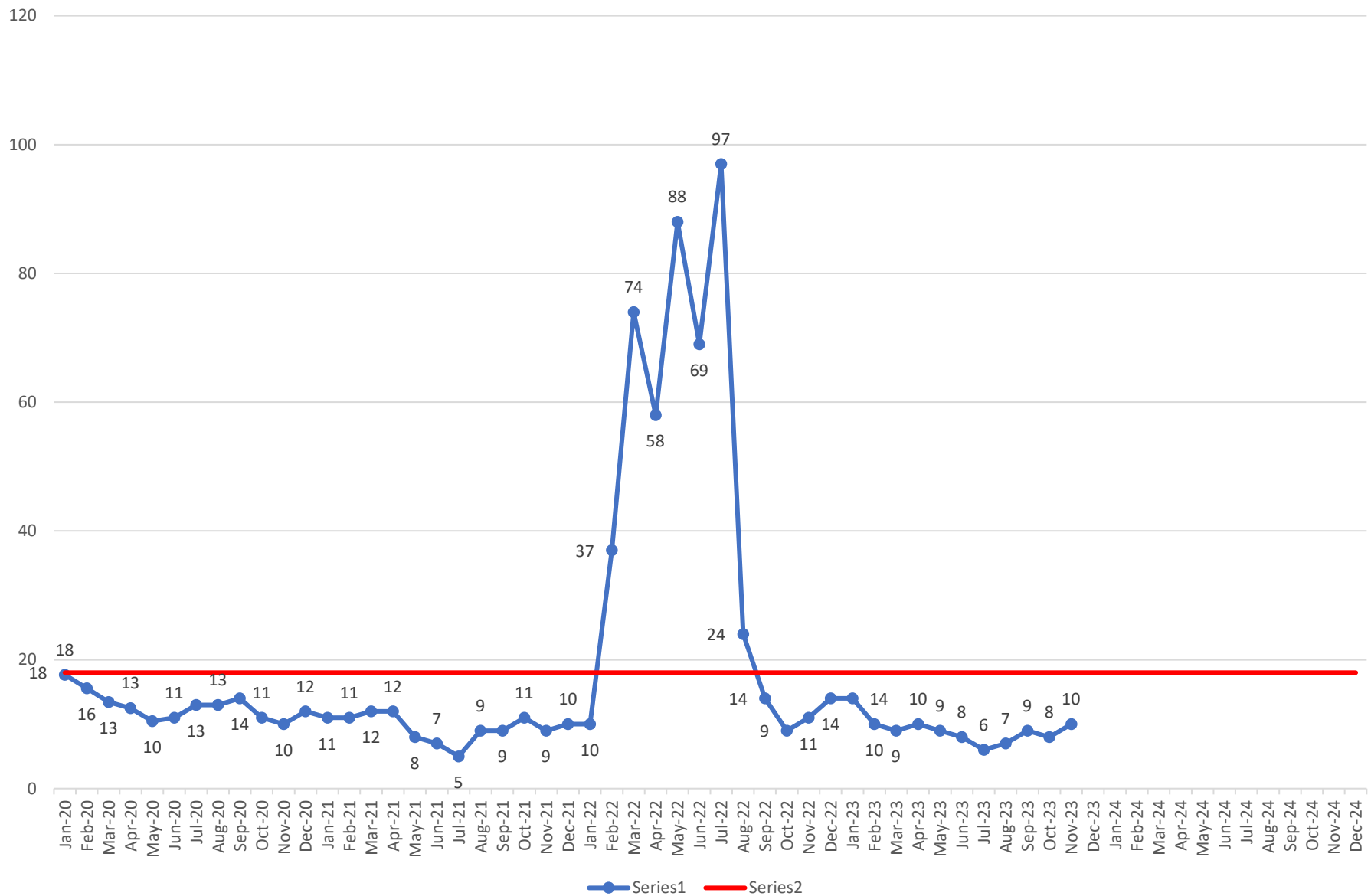
Superintendents Summary Report for 2023																							
	FLOW	Precip	CBOD5		REM	Tot Susp Solids		REM	Settleable Solids		REM	Total Nitrogen		REM	Phosphorous		REM	Ammonia		REM	TKN		REM
	MGD	Inches	In	out	%	In	out	%	In	out	%	In	out	%	In	out	%	In	out	%	In	out	%
	AVG			limit			limit			limit			limit			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	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	14.43	1.49	229	10	96%	233	7.0	97%	15.10	0.12	99%				5.02	0.496	90%	14.2	0.164	99%	24.5	1.9	92%
Dec																							
Avg	17.12	37.48	184	9	95%	182	6.0	97%	12.24	0.09	99%	20.0	3.3	83%	3.40	0.454	86%	12.12	0.16	99%	20.24	1.53	92%
Ammonia Lbs in = 50,801 Ammonia Lbs out = 592 calculated TKN Lbs in = 81,992 TKN Lbs out = 6,232 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	726.62		726.62	\$29,064.80		22.54	\$1,014.30	
December								
Average	676.57		676.57	\$27,062.98		22.68	\$1,021.66	
Total	7,442.32		7,442.32	\$297,692.80		249.47	\$11,238.30	
				\$40/Ton			\$45/Ton	
\$308,931.10								
Annual Cost to Date								
\$400,000 budgeted								

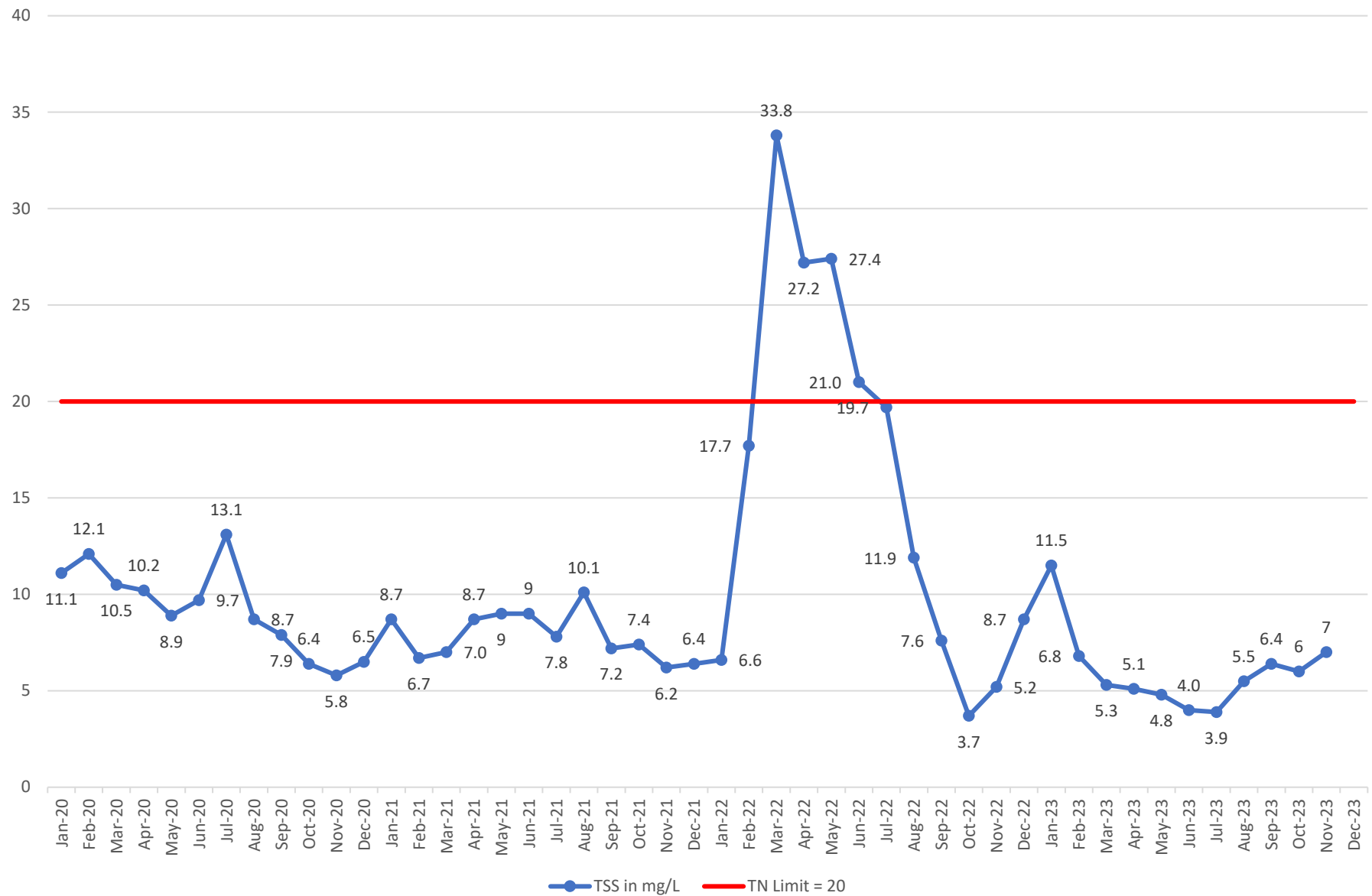
2021-2023 Flow



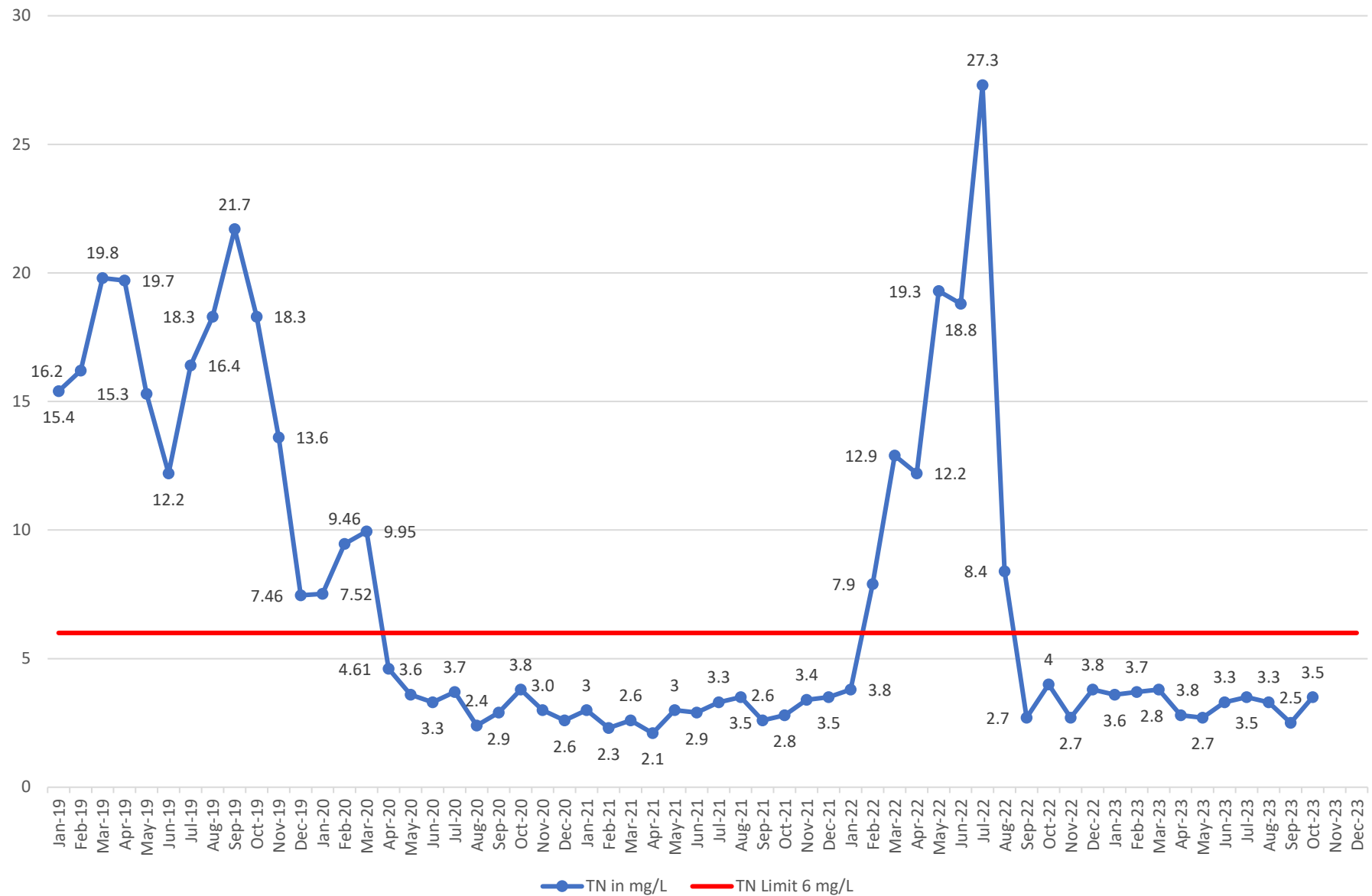
2020-2023 CBOD
Limit = 18 mg/L/Day Monthly Avg



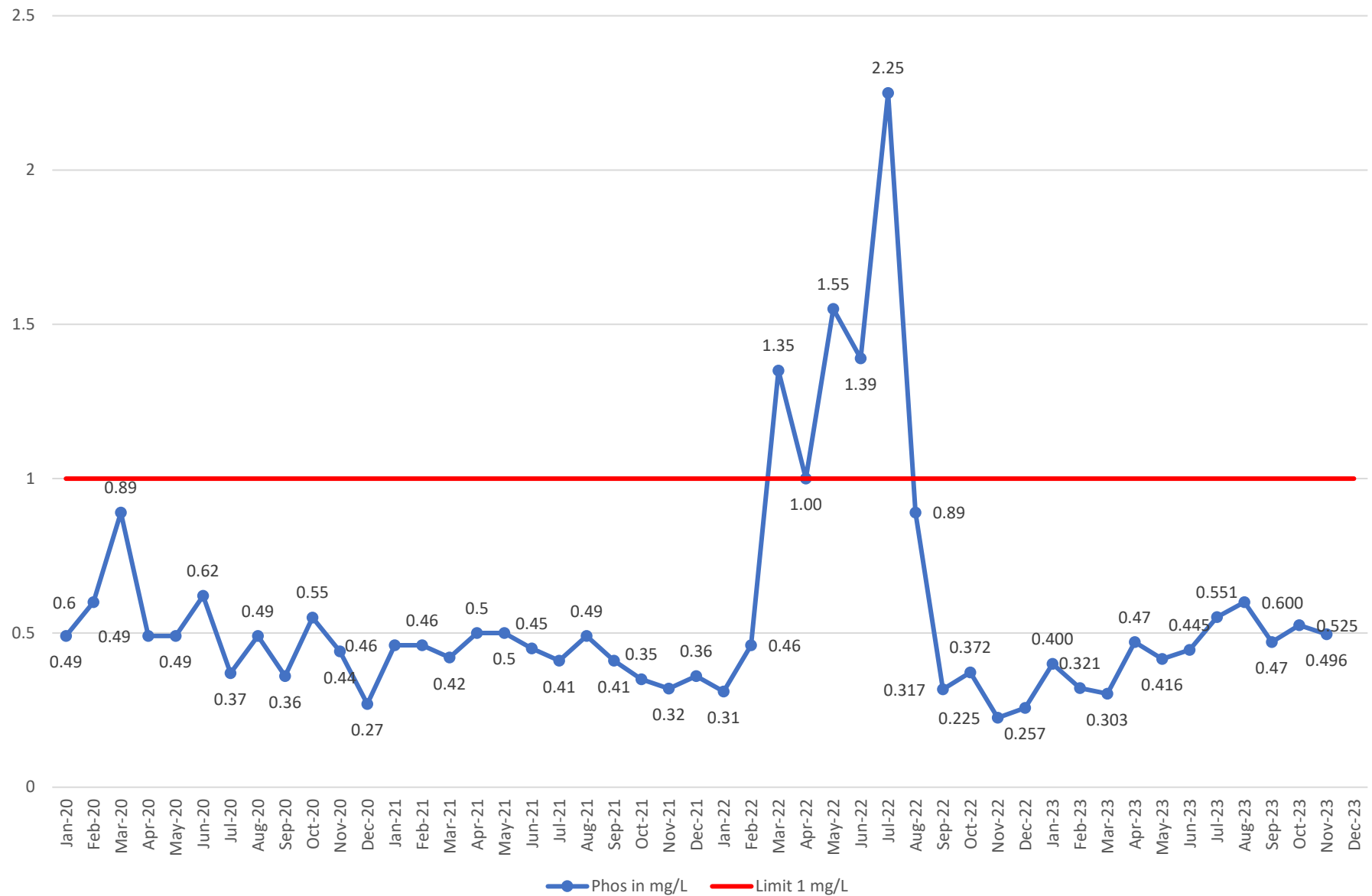
TSS 2020-2023
Limit = 20 mg/L/Day Monthly Avg



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

