

## September Assistant Superintendents Report

October 8, 2024

In September we received 1.94 inches of Rain, for a total of 36.72 inches so far this year.

The Average flow was 11.16 MGD for September.

CBOD = 5 mg/L, TSS = 3 mg/L, Fecal 15 MPN, Ammonia =? mg/L and Phos =? mg/L. Still waiting on 6 data points.

Micro-Turbines Produced 39,463 KWH.

Operations department is working with the Electrical department on cleaning electrical disconnects throughout the plant.

Operations cleaned, inspected and replaced nozzles where needed in all CN and DN cells. Drained the north methanol tank and west sodium hypochlorite tank for cleaning and 5-year inspection on October 10<sup>th</sup>.

Building maintenance cleaned up after NYSEG cut down trees and brush around transfer station. Picking up debris and weed eating the area. As well as their normal duties.

Mechanics and Electricians continue performing their maintenance tasks utilizing the CMMS software and are finishing the flagpole landscape, lighting project.

The lab and operations have passed their PT's and continue to do a great job.

We continue to make progress on the CBS and PBS NOV's. and working on getting the plant water pump replacement kept on track.

Binghamton Fire completed a tour of confined space/safety areas throughout the plant with our safety coordinator.

Superintendents Summary Report for 2024

FLOW	Precip Inches	CBOD5		REM %	Tot Susp Solids		REM %	Settleable Solids		REM %	Total Nitrogen		REM %	Phosphorous		REM %	Ammonia		REM %	TKN		REM %	
		In	out		In	out		In	out		In	out		In	out		In	out		In	out		In
MGD																							
AVG																							
				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	7.40	0.10	99%	12.9	3.6	72%	2.40	0.340	86%	7.30	0.14	98%	12.3	1.2	2518/266	90%
Feb	18.72	1.63	181	8	96%	194	3	11.10	0.10	99%	17.8	3.9	78%	3.80	0.290	92%	12.90	0.15	99%	17.7	1.5	2650/244	92%
Mar	24.33	4.10	137	7	95%	153	4	7.70	0.10	99%	14.2	4.8	66%	2.64	0.358	86%	9.00	0.149	98%	13.7	1.4	2595/289	90%
Apr	22.87	4.42	150	8	95%	170	5	9.80	0.10	99%	14.9	4.4	70%	3.19	0.459	86%	9.50	0.202	98%	14.6	1.3	2683/245	91%
May	16.12	3.67	175	7	96%	176	4	13.00	0.10	99%	20.4	4.0	80%	3.10	0.421	86%	10.70	0.151	99%	20.3	1.3	2709/179	94%
Jun	12.56	3.09	193	10	95%	193	7	16.30	0.10	99%	25.6	2.0	92%	4.02	0.564	86%	12.70	0.331	97%	25.6	1.6	2650/173	94%
Jul	13.79	6.02	178	9	95%	194	6	14.90	0.10	99%	21.4	2.3	89%	3.74	0.480	87%	12.20	0.199	98%	21.3	1.4	2324/165	93%
Aug	18.35	7.14	169	6	96%	189	4	12.50	0.10	99%	18.2	3.2	82%	3.57	0.290	92%	10.70	0.164	98%	18.1	1.09	2435/172	94%
Sep	11.16	1.94	228	5	98%	213	3	15.50	0.10	99%													
Oct																							
Nov																							
Dec																							
		TOT																					
AVG	18.26	36.72	170	8	95%	178	4.6	12.02	0.10	99%	18.2	3.5	79%	3.31	0.400	88%	10.63	0.19	98%	17.95	1.35	92%	

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 O01, Not to Exceed 639,261 lbs. as a Rolling 12 Month Avg.

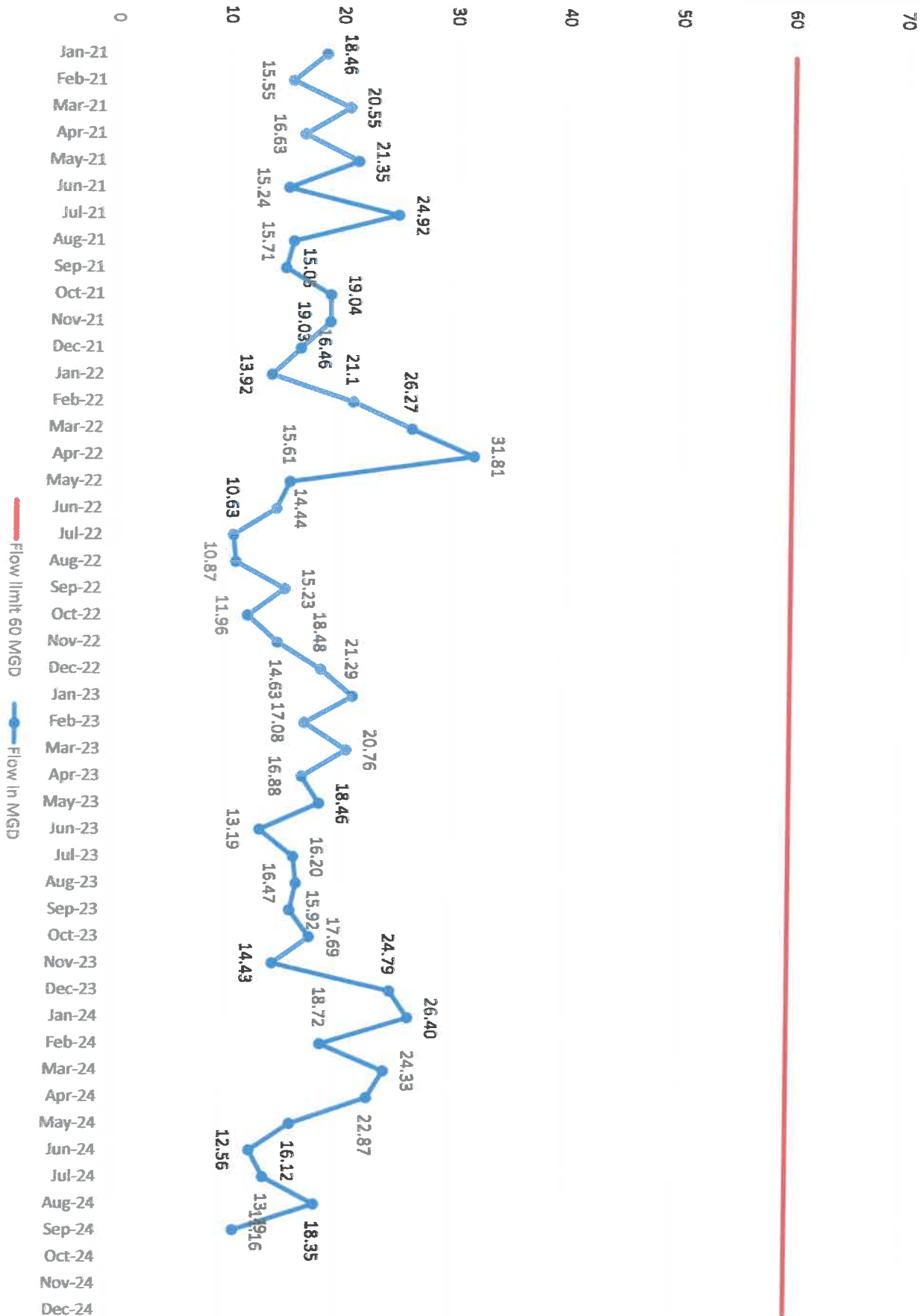
Outfall O01 includes Flow Through O1A (DN cells) and O18 (DN Cell Bypass)

These numbers represent Outfall from O01

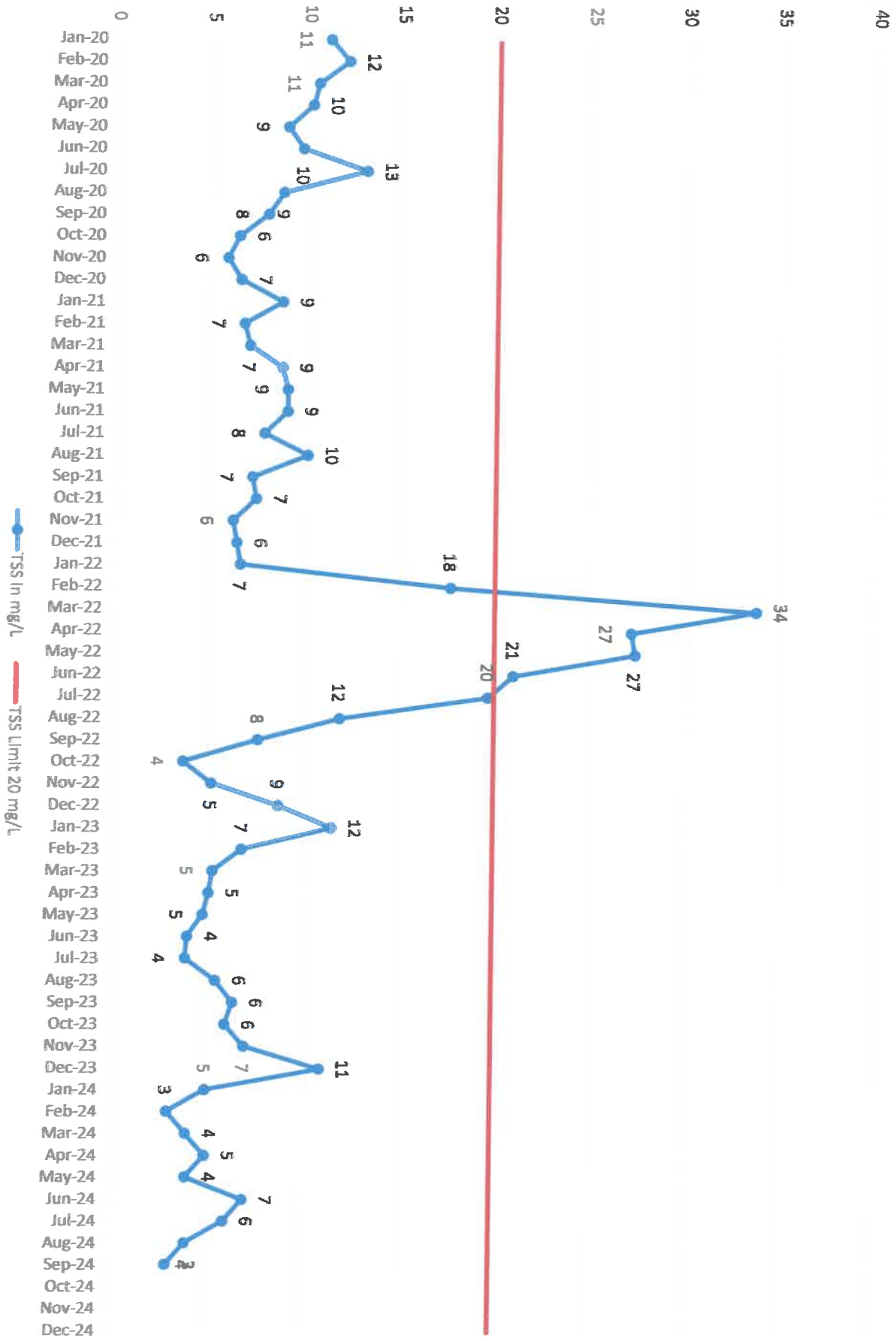
### Landfill 2024 Summary

Date	Digested	Lime Stab	Solids Total	Cost	Bar screen	Grit and Screen	Cost	Grease
	Tons	Tons	Tons		Tons	Tons		Tons
January	717.02		717.02	\$28,680.80		22.98	\$1,034.10	
February	613.29		613.29	\$24,531.60		17.01	\$765.45	
March	666.43		666.43	\$26,657.20		29.68	\$1,335.60	
April	685.81		685.81	\$27,432.40		23.46	\$1,055.70	
May	627.24		627.24	\$25,089.60		29.70	\$1,336.50	
June	623.85		623.85	\$25,035.20		22.74	\$1,023.30	
July	768.65		768.65	\$30,746.00		34.95	\$1,572.75	
August	812.06		812.06	\$32,482.40		26.29	\$1,183.05	
September	577.48		577.48	\$23,099.20		19.41	\$873.45	
October								
November								
December								
Average	676.87		676.87	\$27,083.82		25.14	\$1,131.10	
Total	6,091.83		6,091.83	\$243,754.40		226.22	\$10,179.90	
				\$40/Ton			\$45/Ton	
				<b>\$253,934.30</b>				
				Annual Cost to Date				
				\$420,000 budgeted for 2024				
				ES8130.54804				

## 2021-2024 Flow



TSS 2020-2024  
 Limit = 20 mg/L/Day Monthly Avg



## 2020-2024 CBOD

Limit = 18 mg/L/Day Monthly Avg

