

Poughkeepsies' Water Treatment Facility

MEMORANDUM

January 4, 2021

To: Joint Water Board
From: Randy J. Alstadt
Water Plant Administrator
Subject: December 2020 Status Report

Water Quality/Production Issues

The December average daily raw water flow was 10.34 MGD which was 0.48 MGD less than November and 0.02 MGD less than December 2019. Water quality averaged 0.04 NTU which is 0.01 NTU greater than November 2020. The drinking water maximum contaminant level is 0.30 NTU.

Plant Update

Plant operated very well. Raw water turbidity increased significantly at an average of 61 NTU significantly greater than November. At the end of December the solids thickener was at 4.5 feet of solids which was 1.0 feet greater than November.

Treatment Process Comparison November 2020 vs. December 2020

Parameter	November-20			December-20		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	10.82	14.96	7.70	10.34	13.16	7.07
Raw Turbidity, NTU	28	75	8	61	258	14
Effluent Turbidity, NTU	0.03	0.04	0.11	0.04	0.08	0.04

Sludge Process Comparison November 2020 vs. December 2020

Parameter	Nov-20	Dec-20	Change	
			Quantity	Percent
Residual Solids, gallons	1,099,144	1,300,197	201,053	18.3%
Backwash, gallons	1,789,000	1,423,000	(366,000)	-20.5%
Thickener, gallons	476,770	634,187	157,417	33.0%
Plate Settler, gallons	35,018	33,117	(1,901)	-5.4%
Centrifuge #1 gallons	NA	NA	NA	NA
Centrifuge #2 gallons	339,394	391,332	51,938	15.3%
Centrifuge Total	NA	NA	NA	NA
Centrifuge #1 gpm	18.84	22.7	3.86	20.5%
Centrifuge #2 gpm	24.86	23.01	(1.85)	-7.4%
Solids Hauled, tons	332.46	378.36	45.90	13.8%
Feed Solids Concentration	4.1	4.23	0.13	3.2%
Centrifuge #1 Cake percent	24.74	27.22	2.48	10.0%
Centrifuge #2 Cake percent	24.75	27.04	2.29	9.3%

Low Lift Pump #1 was placed into service December 4th. The manufacturer increased the number of gussets on lower portion of column and added an additional

bearing.

We continue to have multiple UV problems that continue to be under investigation. Problems with #6 filter, seem to have been resolved, however, filter #4 is now problematic. We expect to get Aquionics on site later this week.

UV Replacement

Project is on schedule.

Upgrade

The first trailer was delivered the first week of December. Paperwork was delivered to the garage, however, we have yet to get it licensed in New York. One of our other trailers is no longer road worthy and requires significant repairs. Trailer #2 should be delivered early next year.

The PLC bid has not been reissued.

COVID 19

We continue to follow strict safety procedures to avoid being infected. An Operator was in contact with an infected individual. He was told to not attend work until he could provide negative COVI test which was provided after 9 days of isolation.