

Poughkeepsies' Water Treatment Facility

MEMORANDUM

August 2, 2018

To: Joint Water Board
From: Randy J. Alstadt, P.E.
Water Plant Administrator
Subject: August 2019 Status Report

Water Quality/Production Issues

The August average daily raw water flow was 11.54 MGD compared to 12.04 MGD in July 2019 and 11.66 MGD in August 2018. Water quality averaged 0.04 NTU which is the same as July 2019. The drinking water maximum contaminant level is 0.30 NTU.

Plant Update

Plant operated well. The solids thickener had 4.5 feet of solids at the end of August compared to 3.0 feet at the end of July 2019. Centrifuge average operating rate was 9.8 gpm compared to 11.6 gpm in July 2019.

Treatment Process Comparison July 2019 vs. August 2019

Parameter	July-19			August-19		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	12.04	14.84	10.09	11.54	13.67	10.36
Raw Turbidity, NTU	37	141	9	31	94	7
Effluent Turbidity, NTU	0.04	0.11	0.03	0.04	0.07	0.04

Sludge Process Comparison July 2019 vs. August 2019

Parameter	Jul-19	Aug-19	Change	
			Quantity	Percent
Residual Solids, gallons	776,672	741,245	(35,427)	-5%
Backwash, gallons	1,756,000	2,313,000	557,000	32%
Thickener, gallons	430,186	292,762	(137,424)	-32%
Plate Settler, gallons	26,800	30,636	3,836	14%
Centrifuge #1 gallons	218,182	135,783	(82,399)	-38%
Centrifuge #2 gallons	215,267	215,267	-	0%
Centrifuge Total	433,449	351,050	(82,399)	-19%
Centrifuge #1 gpm	10.8	9.8	(1.0)	-9%
Centrifuge #2 gpm	10.6	9.8	(0.8)	-8%
Solids Hauled, tons	404.96	307.34	(97.6)	-24%
Feed Solids Concentration	7.4	8.6	1.2	16%
Centrifuge #1 Cake percent	29.8	29.8	0.0	0%
Centrifuge #2 Cake percent	30.5	29.3	(1.2)	-4%

Our ozone system worked well in August.

Filters ran well. Average filter runs have returned to prior upgrade. Filter runs in August were 16,867 gal/ft² compared to July 2019 which was 16,867 gallons/ft².

Maintenance is continuing change out the sodium hypochlorite pumps.

Low Lift Pump check valve was received. The valve will be held in reserve.

Upgrade

Trailer manufacturing is continuing. Construction has been delayed further. Our first trailer is expected in September. Joe Marcinelli visited construction in Cambridge Indiana.

PLCs are now being constructed by Smith Controls. Completion date is expected soon. Installation documents are complete and being reviewed by State Health. Project is expected to be completed in early 2020.

UV Replacement

City and Town are establishing funding for project.

Staffing

We are currently looking for a Water Operator to replaced retired Operator Art Ziemens.