

Poughkeepsies' Water Treatment Facility

MEMORANDUM

April 2, 2017

To: Joint Water Board
From: Randy J. Alstadt, P.E.
Water Plant Administrator
Subject: March 2018 Status Report

Water Quality/Production Issues

Process data for February 2018 and March 2018 are presented in the following tables. March Average Daily Flow was less than February 2018 by 0.20 MGD. March 2018 demand was 0.70 MGD greater than March 2017. Quality was excellent. Plant effluent turbidity averaged 0.03 NTU while influent turbidity averaged 53 NTU (99.91% reduction).

Treatment Process Comparison February 2018 vs. March 2018

Parameter	February-18			March-18		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	10.65	11.81	9.23	10.55	11.40	8.71
Raw Turbidity, NTU	40	189	15	53	255	15
Effluent Turbidity, NTU	0.03	0.04	0.02	0.03	0.10	0.02

Sludge Process Comparison February 2018 vs. March 2018

Parameter	February-18	March-18	Change	
			Quantity	Percent
Residual Solids, gallons	932,389	1,470,394	538,005	58%
Backwash, gallons	2,749,000	3,182,000	433,000	16%
Thickener, gallons	679,579	802,459	122,880	18%
Plate Settler, gallons	33,463	35,886	2,423	7%
Centrifuge #1 gallons	400,889	420,438	19,549	5%
Centrifuge #2 gallons	341,037	432,388	91,351	27%
Centrifuge Total	741,926	852,826	110,900	15%
Centrifuge #1 gpm	32	37	5	15%
Centrifuge #2 gpm	34	26	(8)	-24%
Solids Hauled, tons	236.05	463.26	227	96%
Feed Solids Concentration	2.3	3.2	0.9	41%
Centrifuge #1 Cake percent	25.9	31.2	5.4	21%
Centrifuge #2 Cake percent	26.1	31.1	5.0	19%

Plant Update

Plant operated well. The solids thickener had 7.5 feet of solids at the end of March which was the same as end of February 2018. Centrifuge average operating rate was 31 gpm. Centrifuge feed solids concentration average 3.2-percent solids.

Our ozone system is working well. The filters have operated longer between washes. Run hours are slightly less than historical.

We had a Filter Panel PLC failure resulting in plant shutdown. PLC is scheduled to be replaced.

Upgrade

Trailer manufacturing is continuing. We expect to receive trailers in April 2018.

We met with RLJ Electric to resolve issues with MWBE compliance and project completion. Meeting was successful as RLJ agreed to what work remains, revise MWBE application change and complete record drawings. Record drawings have been received. Other work has continued to be stalled.

EFC has agreed to waive RLJ MWBE requirement based upon overall project compliance being obtained, however, we still not RLJ to complete proper form.

Staffing

Operator, Art Ziemins returned to work after recovering from a non-work fall. Maintenance Mechanic, Keith Rauch, continues to be out due to a non work foot injury.