

Poughkeepsies' Water Treatment Facility

MEMORANDUM

November 6, 2017

To: Joint Water Board
From: Randy J. Alstadt, P.E.
Water Plant Administrator
Subject: October 2017 Status Report

Water Quality/Production Issues

Process data for September 2017 and October 2017 are presented in the following tables. October Average Daily Flow was less than September 2017 by 0.43 MGD. October 2017 demand was 1.65 MGD greater than October 2016. Quality was excellent. Plant effluent turbidity averaged 0.06 NTU while influent turbidity averaged 41 NTU (99.8% reduction).

Treatment Process Comparison September 2017 vs. October 2017

Parameter	September-17			October-17		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	11.29	13.65	10.16	10.86	11.89	9.77
Raw Turbidity, NTU	35	132	8	41	138	7
Effluent Turbidity, NTU	0.06	0.07	0.03	0.06	0.07	0.05

Sludge Process Comparison September 2017 vs. October 2017

Parameter	September-17	October-17	Change	
			Quantity	Percent
Residual Solids, gallons	1,546,914	838,857	(708,057)	-46%
Backwash, gallons	3,414,000	3,555,000	141,000	4%
Thickener, gallons	374,582	326,708	(47,874)	-13%
Plate Settler, gallons	30,674	21,133	(9,541)	-31%
Centrifuge #1 gallons	183,787	206,472	22,685	12%
Centrifuge #2 gallons	292,020	203,769	(88,251)	-30%
Centrifuge Total	475,807	410,241	(65,566)	-14%
Centrifuge #1 gpm	14	13	(1)	-4%
Centrifuge #2 gpm	13	13	-	0%
Solids Hauled, tons	296.75	296.63	(0)	0%
Feed Solids Concentration	6.8	6.7	(0.1)	-2%
Centrifuge #1 Cake percent	28.9	29.4	0.5	2%
Centrifuge #2 Cake percent	28.5	29.1	0.6	2%

Plant Update

Plant operated well. The solids thickener had 5 feet of solids at the end of October (0.5 feet more than September). Centrifuge average operating rate was 13 gpm. Centrifuge feed solids concentration average 6.8-percent solids.

Our ozone system is working well. The filters have had problems with plugging requiring multiple washes. We have found that filtration hours and volumes are significantly less than prior to becoming biological and expect that trend to continue.

Staffing

Sara Holmes obtained her Grade 2A Water Operator License 2A in September.

Shane Hunt passed the Rural Water Operator Course Final Examination. He also successfully completed his walk through interview with Pete Marlow of Dutchess County Health. Pete has submitted completed application and his recommendation to State Health for approval.

Upgrade

Trailer manufacturing is underway.

State Health conducted an on-site inspection. They have requested additional information from contractors concerning compliance to American Steel and compliance to pay rate schedule by subcontractors. I have notified contractors. HT Lyons has provided information while others have yet to respond

RLJ Electric was issued a letter from City Corporation Counsel concerning their lack of providing sufficient information for MWBE variance and need to complete the remaining work. RLJ has not responded.

High rate testing for Ozone equipment was successfully completed in October.