

Poughkeepsies' Water Treatment Facility

MEMORANDUM

October 2, 2017

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

Water Quality/Production Issues

Process data for August 2017 and September 2017 are presented in the following tables. September Average Daily Flow was greater than August by 0.30 MGD. August 2017 demand was 0.31MGD greater than September 2016. Quality was excellent. Plant effluent turbidity averaged 0.06 NTU while influent turbidity averaged 35 NTU (99.9% reduction).

Treatment Process Comparison August 2017 vs. September 2017

Parameter	August-17			September-17		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	10.99	12.83	9.75	11.29	13.65	10.16
Raw Turbidity, NTU	38	93	4	35	132	8
Effluent Turbidity, NTU	0.06	0.17	0.05	0.06	0.07	0.03

Sludge Process Comparison August 2017 vs. September 2017

Parameter	August-17	September-17	Change	
			Quantity	Percent
Residual Solids, gallons	1,518,109	1,546,914	28,805	2%
Backwash, gallons	6,408,000	3,414,000	(2,994,000)	-47%
Thickener, gallons	599,676	374,582	(225,094)	-38%
Plate Settler, gallons	29,487	30,674	1,187	4%
Centrifuge #1 gallons	296,320	183,787	(112,533)	-38%
Centrifuge #2 gallons	343,942	292,020	(51,922)	-15%
Centrifuge Total	640,262	475,807	(164,455)	-26%
Centrifuge #1 gpm	14	14	-	0%
Centrifuge #2 gpm	13	13	-	0%
Solids Hauled, tons	412.53	296.75	(116)	-28%
Feed Solids Concentration	5.5	6.8	1.3	23%
Centrifuge #1 Cake percent	30.4	28.9	(1.5)	-5%
Centrifuge #2 Cake percent	29.4	28.5	(0.9)	-3%

Plant Update

Plant operated well. The solids thickener had 4.5 feet of solids at the end of September (0.5 feet less than August). Centrifuge average operating rate was 13 gpm. Centrifuge feed solids concentration average 5.5-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 in September he will get his license in October.

Upgrade

EFC approved the bid and upgrade of our PLC's. We expect to issue a bid package in October.

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 provided a waiver request to reduce MWBE participation. Request was submitted to EFC. EFC has now requested additional information which RLJ has yet to supply.

We will be conducting high rate testing for Ozone equipment in October.