

# Poughkeepsies' Water Treatment Facility

## MEMORANDUM

February 3, 2018

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

### Water Quality/Production Issues

The January average daily raw water flow was 10.43 MGD compared to 10.54 MGD in December and 11.45 MGD in January 2018. Water quality averaged 0.03 NTU which is identical to December 2018. The drinking water maximum contaminant level is 0.30 NTU.

### Plant Update

Plant operated well. The solids thickener had 2.5feet of solids at the end of January compared to 6.0 feet at the end of December 2018. Centrifuge average operating rate was 14.5 gpm compared to 15.2 gpm in November 2018.

#### Treatment Process Comparison December 2018 vs. January 2019

Parameter	December-18			January-19		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	10.54	12.78	9.08	10.43	12.05	8.99
Raw Turbidity, NTU	46	115	17	31	93	14
Effluent Turbidity, NTU	0.03	0.06	0.02	0.03	0.08	0.02

#### Sludge Process Comparison December 2018 vs. January 2019

Parameter	Dec-18	Jan-19	Change	
			Quantity	Percent
Residual Solids, gallons	781,636	840,188	58,552	7%
Backwash, gallons	1,443,000	1,368,000	(75,000)	-5%
Thickener, gallons	461,552	549,446	87,894	19%
Plate Settler, gallons	31,728	60,022	28,294	89%
Centrifuge #1 gallons	149,608	386,087	236,479	158%
Centrifuge #2 gallons	335,717	232,188	(103,529)	-31%
Centrifuge Total	485,325	618,275	132,950	27%
Centrifuge #1 gpm	15.4	14.7	(0.6)	-4%
Centrifuge #2 gpm	13.6	14.7	1.1	8%
Solids Hauled, tons	423.73	287.96	(136)	-32%
Feed Solids Concentration	6.4	8.1	1.7	27%
Centrifuge #1 Cake percent	31.3	30.3	(1.0)	-3%
Centrifuge #2 Cake percent	30.5	31.6	1.1	4%

Our ozone system ran well. Basin #2 remains out of service to reduce liquid oxygen consumption.

Filters ran well. Average filter runs have dropped compared to December 2018. Average Filter Run volumes in January 2019 were 16,200 gallon/ft2 compared to 19,834 gallons /ft2 in December 2018.

**Upgrade**

Smith Controls and staff scheduled a preconstruction meeting for early February. Trailer manufacturing is continuing.

**Filter and Disinfection Studies**

We are finalizing the Tighe Bond submitted report on the Disinfection Study and expect to propose a construction plan at the February 2019 Board meeting

**Staffing**

Our Maintenance Mechanics that has been off payroll since January 20, 2018 was terminated at the end of day January 22, 2019. We have filed application to replace employee. We expect to post position in early February.