

# ***Poughkeepsies' Water Treatment Facility***

## **MEMORANDUM**

June 27, 2018

**To:** Joint Water Board

**From:** Randy J. Alstadt, P.E.  
Water Plant Administrator

**Subject:** July 2018 Status Report

### **Water Quality/Production Issues**

The July average daily raw water flow was 11.4 MGD compared to 11.5 MGD in June and 11.0 MGD in July 2017. Water quality averaged 0.04 NTU which is identical to June and significantly less than the 0.30 NTU standard.

### **Plant Update**

Plant operated well. The solids thickener had 3.0 feet of solids at the end of July which was 2.5 foot greater than June 2018. Centrifuge average operating rate was 13.4 gpm compared to 16.1 gpm in June. This reduction was caused by increase in solids concentration of centrifuge feed solids.

#### **Treatment Process Comparison June 2018 vs. July 2018**

<b>Parameter</b>	<b>June-18</b>			<b>July-18</b>		
	<b>Average</b>	<b>Maximum</b>	<b>Minimum</b>	<b>Average</b>	<b>Maximum</b>	<b>Minimum</b>
Raw Flow, MGD	11.40	14.13	9.67	11.96	14.13	9.67
Raw Turbidity, NTU	38	123	10	38	123	10
Effluent Turbidity, NTU	0.04	0.07	0.03	0.04	0.09	0.02

#### **Sludge Process Comparison April 2018 vs. May 2018**

<b>Parameter</b>	<b>June-18</b>	<b>July-18</b>	<b>Change</b>	
			<b>Quantity</b>	<b>Percent</b>
Residual Solids, gallons	1,093,018	696,092	(396,926)	-36%
Backwash, gallons	3,410,000	3,641,000	231,000	7%
Thickener, gallons	341,421	217,039	(124,382)	-36%
Plate Settler, gallons	54,189	24,139	(30,050)	-55%
Centrifuge #1 gallons	250,219	181,176	(69,043)	-28%
Centrifuge #2 gallons	306,717	55,720	(250,997)	-82%
Centrifuge Total	556,936	236,896	(320,040)	-57%
Centrifuge #1 gpm	18	16	(2)	-9%
Centrifuge #2 gpm	14	11	(4)	-26%
Solids Hauled, tons	353.83	245.29	(109)	-31%
Feed Solids Concentration	4.5	10.0	5.5	123%
Centrifuge #1 Cake percent	35.1	31.0	(4.1)	-12%
Centrifuge #2 Cake percent	32.4	30.1	(2.3)	-7%

Our ozone system is working well.

We have continued adding chlorine to backwash water for filters to reduce biological growth. This action no longer seems to be improving filter runs. We are now working with Tighe Bond to develop a plan for improving filter operation.

Installation of all floating covers on Sedimentation Basins was completed.

We are waiting for the replacement check valve. Our supplier has advised that delivery will be at least 30 days beyond quoted.

### **Upgrade**

PLC bid was released on July 12<sup>th</sup>. A prebid meeting was held July 20<sup>th</sup>. Six fabricators were in attendance.

Trailer manufacturing is continuing. We conducted a site visit to establish construction progress and fix a realistic delivery date. Fabrication is moving forward.

### **Staffing**

One of our Maintenance Mechanics continues to be out due to a non work foot injury. His latest Doctor's excuse states he will be out until October. This has negatively impacted our overtime expenses