

# Poughkeepsies' Water Treatment Facility

## MEMORANDUM

July 2, 2021

**To:** Joint Water Board  
**From:** Randy J. Alstadt  
Water Plant Administrator  
**Subject:** June 2021 Status Report

### Water Quality/Production Issues

The June average daily raw water flow was 12.20 MGD which was 0.23 MGD greater than May and 0.84 MGD and 0.82 more than June 2020. Water quality averaged 0.05 NTU which is the same as May 2021. The drinking water maximum contaminant level is 0.30 NTU.

#### Treatment Process Comparison May 2021 vs. June 2021

Parameter	May-21			June-21		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	11.97	15.52	9.89	12.20	15.81	9.69
Raw Turbidity, NTU	34	126	5	27	99	5
Effluent Turbidity, NTU	0.05	0.07	0.04	0.05	0.07	0.04

#### Sludge Process Comparison May 2021 vs. June 2021

Parameter	May-21	Jun-21	Change	
			Quantity	Percent
Residual Solids, gallons	1,400,311	669,893	(730,418)	-52.2%
Backwash, gallons	1,959,000	7,839,000	5,880,000	300.2%
Thickener, gallons	626,705	341,483	(285,222.00)	-45.5%
Plate Settler, gallons	44,148	21,797	(22,351.00)	-50.6%
Centrifuge #1 gallons	395,533	395,533	-	0.0%
Centrifuge #2 gallons	319,545	224,813	(94,732)	-29.6%
Centrifuge Total	715,078	620,346	(94,732.00)	-13.2%
Centrifuge #1 gpm	18.69	15.29	(3.40)	-18.2%
Centrifuge #2 gpm	18.70	15.73	(2.97)	-15.9%
Solids Hauled, tons	384.2	330.18	(54.02)	-14.1%
Feed Solids Concentration	5.7	5.7	-	0.0%
Centrifuge #1 Cake percent	26.34	27.57	1.23	4.7%
Centrifuge #2 Cake percent	26.26	28.55	2.29	8.7%

### Plant Update

Plant operated very well. Raw water average turbidity was 27 NTU; slightly less than May. At the end of June the solids thickener was at 3.0 feet of solids which was 1 foot greater than May 2021.

Low Lift #4 returned to service center for repairs which when complete will finish Low Lift Pump upgrades.

UV operated well. Tighe&Bond conducted an ozone training class July 1.

**UV Replacement**

Project documents remain with NY State Health for review. It is estimated costs will be within budget. We are in the process of resolving outstanding issues to finalize EFC Loan for the project.

**Upgrade**

Trailer #2 is being manufactured and will be completed by summer.

The PLC bids were received. Lowest bid was under Engineers estimate. Budget concerns have risen requiring project to be placed on hold. It appears funds will be taken from our operating budget to complete this project. Contractor has requested a waiver for MWBE requirements. Contract will not be awarded until waiver is granted.

**COVID 19**

No new infections. We are now leaving front gate open Monday through Friday 6 AM until 4 PM.