

Poughkeepsies' Water Treatment Facility

MEMORANDUM

May 28, 2021

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

Water Quality/Production Issues

The May average daily raw water flow was 11.83 MGD which was 0.74 MGD greater than April and 0.84 MGD more than May 2020. Water quality averaged 0.05 NTU which is 0.01 NTU greater than April 2021. The drinking water maximum contaminant level is 0.30 NTU.

Treatment Process Comparison April 2021 vs. May 2021

Parameter	April-21			May-21		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	11.09	11.83	9.86	11.97	15.52	9.89
Raw Turbidity, NTU	40	129	13	34	126	5
Effluent Turbidity, NTU	0.04	0.06	0.03	0.05	0.07	0.04

Sludge Process Comparison April 2021 vs. May 2021

Parameter	Apr-21	May-21	Change	
			Quantity	Percent
Residual Solids, gallons	1,286,071	1,400,311	114,240	8.9%
Backwash, gallons	1,610,000	1,959,000	349,000	21.7%
Thickener, gallons	542,689	626,705	84,016.00	15.5%
Plate Settler, gallons	50,267	44,148	(6,119.00)	-12.2%
Centrifuge #1 gallons	632,309	395,533	(236,776)	-37.4%
Centrifuge #2 gallons	127,225	319,545	192,320	
Centrifuge Total	759,534	715,078	(44,456.00)	-5.9%
Centrifuge #1 gpm	20.22	18.69	(1.53)	-7.6%
Centrifuge #2 gpm	18.28	18.70	0.42	2.3%
Solids Hauled, tons	407.82	384.2	(23.62)	-5.8%
Feed Solids Concentration	4.24	5.7	1.46	34.4%
Centrifuge #1 Cake percent	27.12	26.34	(0.78)	-2.9%
Centrifuge #2 Cake percent	24.15	26.26	2.11	8.7%

Plant Update

Plant operated very well. Raw water average turbidity was 34 NTU; slightly less than April. At the end of May the solids thickener was at 2.0 feet of solids which was the same as March 2021.

Low Lift #3 was returned May 26th and is operating well. Low Lift #4 will be sent out later in the month.

UV operated well.

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 are \$100,000 less than budget.

COVID 19

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