Poughkeepsies' Water Treatment Facility

MEMORANDUM

August 5, 2013

To: Joint Water Board

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

Subject: **July2013 Status Report**

Water Quality/Production Issues

Process data for June 2013 and July 2013 are presented in the following tables. Average Daily Flow was up 1.4 MGD (14.7 percent) in July 2013 compared to June 2013. Quality was excellent. Plant effluent turbidity averaged 0.06 NTU while influent turbidity averaged 81 NTU (99.9% reduction).

Treatment Process Comparison June 2013 vs. July 2013

Parameter	June-13			July-13		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	9.51	14.04	4.92	10.90	14.30	6.40
Raw Turbidity, NTU	70	207	15	81	220	23
Effluent Turbidity, NTU	0.04	0.07	0.04	0.06	0.11	0.04

Sludge Process Comparison June 2013 vs. July 2013

Parameter	June-13	July-13	Change	
			Quantity	Percent
Residual Solids, gallons	882,428	768,603	(113,825)	-13%
Backwash, gallons	772,000	768,000	(4,000)	-1%
Thickener, gallons	309,975	261,597	(48,378)	-16%
Plate Settler, gallons	29,004	73,145	44,141	152%
Centrifuge #1 gallons	195,862	208,833	12,971	7%
Centrifuge #2 gallons	142,272	135,852	(6,420)	-5%
Centrifuge Total	338,134	344,685	6,551	2%
Centrifuge #1 gpm	5.9	5.5	5.2	87%
Centrifuge #2 gpm	4.7	4.7	6.0	128%
Solids Hauled, tons	400.49	490.88	90.39	23%

Plant Update

Plant operated well.

As of June 30th the solids thickener solids level lowered to 10.0 feet down 4.5 feet from June 30, 2013. We continue to closely monitor levels and encourage overtime when level exceeds 10 feet.

Centrifuge #2 VFD failed resulting in less production and increased overtime to process solids.

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High Lift Pump #2 motor bearing temperature remained high throughout the month due to seasonal high temperatures.

Low Lift Pump #3 had repeated shutdowns after operating 2 hours. Troy Motors is scheduled to evaluate pump in early August.

Plant Upgrade

Kick off meeting was held with Engineers and Staff in attendance.

City Boil Water Event

July 8th we were notified on that College Hill Reservoir was 0.4 mg/L. Effluent chlorine residual was increased from 2.0 mg/L to 2.25 mg/L.

July 10th we were advised that City distribution chlorine residuals continued to be low. Effluent residual was increased to 2.5 mg/L.

July 11th we were notified City had a positive e. coli in distribution testing.

July 12th City issued boil water issue. Staff added 30 gallons of chlorine into College Hill Reservoir to increase free chlorine in reservoir.

July 14th staff added 25 gallons of chlorine into College Hill Reservoir to increase free chlorine in reservoir.

July 15th staff conducted internal inspection of reservoir.

Stage 2 Disinfection By-Product Waiver

Received consent order from EPA. Order mandates City/Town maintain schedule for upgrade and that a quarterly certified progress is supported. If fail to comply fines up to $37,500 per day could be assessed.