Poughkeepsies' Water Treatment Facility

MEMORANDUM

February 4, 2014

To: Joint Water Board

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

Subject: **February 2014 Status Report**

Water Quality/Production Issues

Process data for January 2014 and February 2014 are presented in the following tables. Average Daily Flow decreased 0.09 MGD (1.0 percent) in February 2014 compared to January 2014. Quality was excellent. Plant effluent turbidity averaged 0.03 NTU while influent turbidity averaged 18 NTU (99.9% reduction).

Treatment Process Comparison January 2014 vs. February 2014

Parameter	January-14			February-14		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	9.00	11.41	5.14	8.91	11.41	5.14
Raw Turbidity, NTU	51	247	19	18	57	8
Effluent Turbidity, NTU	0.04	0.08	0.03	0.03	0.07	0.02

Sludge Process Comparison January 2014 vs. Febraury 2014

Parameter	January-14	February-14	Change	
			Quantity	Percent
Residual Solids, gallons	631,865	693,304	61,439	10%
Backwash, gallons	1,547,000	1,699,000	152,000	10%
Thickener, gallons	401,082	382,942	(18,140)	-5%
Plate Settler, gallons	28,211	26,434	(1,777)	-6%
Centrifuge #1 gallons	215,516	274,503	58,987	27%
Centrifuge #2 gallons	199,865	153,179	(46,686)	-23%
Centrifuge Total	415,381	427,682	12,301	3%
Centrifuge #1 gpm	6.1	8.7	2.6	44%
Centrifuge #2 gpm	4.7	6.7	1.9	41%
Solids Hauled, tons	383.06	288.86	(94)	-25%

Plant Update

Plant operated well.

As of February 28th the solids thickener solids level was at 13.5 feet, 2.5 feet greater than January 31st. We continue to closely monitor levels and encourage overtime when level exceeds 10 feet.

Centrifuge #1 muffin monster failed requiring a call in to our instrumentation contractor. Unit was repaired and returned to service. Total production from centrifuges was increased 12,301 gallons or 3-percent.

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The heating unit for the filter gallery failed repeatedly. It has now been in service two (2) weeks.

#2 filter drain valve actuator continues to be problematic. We have received permission to replace it and placed an order.

Plant Upgrade

We continued bid evaluation of centrifuges and ozone systems. Bids were received January 30th and are to be awarded by March 16th. The low bidder for the ozone system was declared non responsive due to lack of references within their bid.

The centrifuge low bidder has been directed to conduct performance test. The manufacturer has indicated they cannot conduct a test with the selected sized centrifuge. We are continuing discussions.

Compliance Order

A signed Compliance Order from EPA has not been received. It is expected soon.

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