Poughkeepsies' Water Treatment Facility

MEMORANDUM

August 30, 2013

To: Joint Water Board

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

Subject: **August 2013 Status Report**

Water Quality/Production Issues

Process data for July 2013 and August 2013 are presented in the following tables. Average Daily Flow was down 1.06 MGD (9.7 percent) in August 2013 compared to July 2013. Quality was excellent. Plant effluent turbidity averaged 0.03 NTU while influent turbidity averaged 48 NTU (99.6% reduction).

Treatment Process Comparison July 2013 vs. August 2013

Parameter	July-13			August-13		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	10.90	14.30	6.40	9.84	13.91	5.44
Raw Turbidity, NTU	81	220	23	48	127	16
Effluent Turbidity, NTU	0.06	0.11	0.04	0.03	0.08	0.02

Sludge Process Comparison July 2013 vs. August 2013

Parameter	July-13	August-13	Change	
			Quantity	Percent
Residual Solids, gallons	768,603	NA		
Backwash, gallons	768,000	NA		
Thickener, gallons	261,597	NA		
Plate Settler, gallons	73,145	NA		
Centrifuge #1 gallons	208,833	NA		
Centrifuge #2 gallons	135,852	NA		
Centrifuge Total	344,685	NA		
Centrifuge #1 gpm	5.5	NA		
Centrifuge #2 gpm	4.7	NA		
Solids Hauled, tons	490.88	NA		

Plant Update

Plant operated well.

As of August 30th the solids thickener solids level up to 12.0 feet up 2.0 feet from July 31, 2013. We continue to closely monitor levels and encourage overtime when level exceeds 10 feet.

Both centrifuges operated well. Control heaters, VFD Drives and fuses were replaced.

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South mixer to TSST failed. Mixer was repaired by manufacturer and reinstalled.

A chemical leak was found and repaired on PaCl line. Plant was taken off line for repairs. During repairs chemical lines were flushed and chemical strainers cleaned.

#4 filter effluent valve operator failed. Replacement has been ordered.

Aquionics technician was brought in to troubleshoot problems with UV units. Two control motherboards were found defective and were replaced.

Plant was taken off line one (1) hours for an energy curtailment test.

Plant Upgrade

Sludge samples were sent out to Andritz for testing in preparation of centrifuge bid.

Stage 2 Disinfection By-Product Waiver

Signed consent order was sent to EPA.