Poughkeepsies' Water Treatment Facility

MEMORANDUM

February 3, 2013

To: Joint Water Board

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

Subject: **January 2013 Status Report**

Water Quality/Production Issues

Process data for December 2012 and January 2013 are presented in the following tables. Average Daily Flow was up 0.31 MGD (3 percent) in January 2013 compared to December 2012. Quality was excellent. Plant effluent turbidity averaged 0.04 NTU while influent turbidity averaged 43 NTU (99.9% reduction).

Treatment Process Comparison December 2012 vs. January 2013

Parameter	December-12			January-13		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	8.67	12.16	3.66	8.98	11.70	5.83
Raw Turbidity, NTU	47	165	13	43	118	12
Effluent Turbidity, NTU	0.05	0.07	0.03	0.04	0.08	0.03

Sludge Process Comparison December 2012 vs. January 2013

Parameter	December-12	January-13	Change	
			Quantity	Percent
Residual Solids, gallons	691,513	606,322	(85,191)	-12%
Backwash, gallons	1,025,000	1,411,000	386,000	38%
Thickener, gallons	307,008	306,947	(61)	0%
Plate Settler, gallons	15,834	11,023	(4,811)	-30%
Centrifuge #1 gallons	166,773	162,447	(4,326)	-3%
Centrifuge #2 gallons	167,590	161,795	(5,795)	-3%
Centrifuge Total	334,363	324,242	(10,121)	-3%
Centrifuge #1 gpm	6.2	5.6	(0.6)	-9%
Centrifuge #2 gpm	6.2	5.7	(0.5)	-8%
Solids Hauled, tons	209.96	343.82	133.86	64%

Plant Update

Plant operated well.

As of January 31st the solids thickener solids level was 11.0 down 2.0 feet from the end of December. The decrease reflects a reduction in coagulant dosage from 60 mg/L to 50 mg/L. We continue to closely monitor levels and encourage overtime when level exceeds 10 feet.

Low Lift Pump #2 experienced shaft damage and was taken out of service. The damage requires repair by a certified repair shop. We are currently soliciting repair

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quotes. Preliminary estimate is cost will be $20,000 to $30,000 which was not budgeted. Pumping capacity of the three (3) remaining pumps is sufficient to provide required flows, however, flexibility has been reduced and should another pump fail operation capabilities would be severely curtailed.

Centrifuges are working well. Centrifuge centrate line valves were replaced

Sludge pump #2 was rebuilt.

Heat throughout the plant continues to be a problem. Roof top unit (RTU) #1 failed due to a short in wiring. Make up air (MAU) #3 burner failed and was replaced.

The UV transmittance meter was replaced by HACH at no cost after repeated attempts by them to repair.

Staffing

Our Heavy Equipment Operator (Truck Driver) resigned effective January 31, 2013. Head Maintenance Mechanic, Joseph Marcinelli will continue to haul our solids and perform these duties until a new driver can be hired. Request forms for replacement have been submitted to the City.

Operator, Jay Benedict, has scheduled his retirement effective February 19, 2013. His last working day was February 3, 2013. Request forms for replacement have been submitted to the City. Job was posted January 31st.