

Mattapoissett River Valley Water District Commission
November 12, 2019

The Mattapoissett River Valley Water District Commission met on Tuesday, November 12, 2019 at 4:00 p.m. at the Fairhaven Board of Public Works, 5 Arsene Street, Fairhaven, MA.

In attendance:

Town of Fairhaven	Jeff Furtado	term expires: 5/2019
	Vincent Furtado	term expires: 5/2019
Town of Marion	David Pierce	term expires: 6/2021
	David Willett	term expires: 6/2021
Town of Mattapoissett	William Nicholson	term expires: 4/2020
	Paul Silva, Treasurer	term expires: 4/2021
	Henri Renauld	term expires: 4/2019
Town of Rochester	Rick Charon	term expires 4/2021
	Laurell J. Farinon	term expires: 4/2021
	Sandy Keese	term expires: 4/2021

Others in attendance were:	Paul Howard	Tata & Howard
	Meghan Davis	Tata & Howard
	Melanie Blake	Koch Membrane
	Jack Cangiano	Koch Membrane

Absent members included:	Mark Rees	term expires: 5/2019
	Randy Parker	term expires: 6/2021

Chairman Pierce called the meeting of the MRVWDC to order at 4:00 p.m.

1. Koch Membranes Puron Filter System Presentation
Melanie Blake and Jack Cangiano were in attendance representing Koch Separation Solutions KSS of Wilmington, MA. Ms. Blake explained that Koch has been in the membrane business for over fifty (50) years. The MRV Water Treatment Plant has 56 TARGA II cartridges with a recirculating design. The original design was for 6 MGD total production with a 5% bleed stream and an overall recovery of 90%. The current average is 2.35 MGD total production with an overall recovery of approximately 85%.

The current MRV Filter System has areas that can be improved. The rising levels of iron and manganese in feeding water requires increased cleaning.

Upsets in the clarifier can foul the membrane. The existing electrical controls have become obsolete. The aging valves and instruments require an increased amount of maintenance.

Ms. Blake explained that Koch's new Puron filter system is the only pressurized supported fiber cartridge in the market. The system eliminates fiber breaks, and has improved aeration and solids drainage.

The Puron MP Retrofit was explained as a phased approach to be done in the winter, two at one time. There are four stages, each containing 62 Puron MP cartridges with 2 spare slots. They can re-use the existing feed, backflush and CIP systems. A new blower system will be needed for air scour.

The benefits of the Puron system were explained to be a more robust fiber, fully automated, and caustic not used with this membrane.

The current MRV operating cost is \$283,000 per year, with an energy cost of \$172,000, and cleaning chemicals at approximately \$7,000 - \$8,000 per year. The Puron MP system is estimated to cost \$188,000 per years with a \$62,000 energy cost because no recirculation pump is needed. Cleaning chemicals are estimated to cost \$8,400.

Additional opportunities/recommendations include upgrade to the existing control panel, expanding the retrofit skid, and expanding the plant by adding additional stages.

Mr. Howard explained that MA DEP would not allow use of this specific product until a pilot study was done, and that a three month pilot would be adequate.

Chairman Pierce requested that costs for both options including the upgrade to the control panel be provided for consideration by the MRVWDC.

2. Acceptance of minutes of the October 8, 2019 meeting

Ms. Keese motioned to accept the minutes of the October 8, 2019 meeting, Mr. Vincent Furtado seconded, all in favor.

3. Treasurer's Report

Treasurer Silva reported that the monthly invoice schedule totaled \$26,981.39. Capital expenditures included a \$5291.01 invoice from Tata & Howard for consulting services related to primary replacement. Mr. Vincent Furtado motioned approval of the Treasurer's Report, Mr. Nicholson seconded, all in favor.

Invoices

Mattapoissett River Valley Water District
Invoice Schedule Account #089-000-2992-0000

Analytical Balance	\$	25.00
Analytical Balance	\$	75.00
Analytical Balance	\$	160.00
Verizon	\$	233.52
USA Bluebook	\$	178.64
Borden & Remington	\$	9,929.63
Sea Gas	\$	1,138.77
Sea Gas	\$	688.33
Mahoney's Building	\$	12.36
Verizon Wireless	\$	80.98
KP Law, PC	\$	228.00
Plumbers Supply	\$	8.40
Underwater Solutions	\$	3,990.00
Town of Mattapoissett	\$	302.23
W.B. Mason	\$	79.07
Regan Supply & Testing	\$	600.00
Grainger	\$	169.44
NBC Distributors	\$	437.50
Controller Service	\$	785.60
Eversource	\$	48.39
KP Law	\$	304.00
W.B. Mason	\$	29.04
Tata & Howard	\$	725.77
Borden & Remington	\$	1,531.74

Total	\$	26,981.39
Tata & Howard	\$	5,291.01

Mr. Vincent Furtado motioned approval and payment of the above referenced invoice schedule, Mr. Nicholson seconded, all in favor.

4. Draft FY 21 Operating Budget
Treasurer Silva reported that he will have figures together for the next meeting.
5. ECA Net Metering Update
Discussion ensued about finalization of one of the pertinent documents. Mr. Howard agreed to take the document back and get ECA's signature for finalization.

6. Eversource
Mr. Renauld reported that he has the electricity bill and that the MRVWDC finally received a \$21,000 credit plus a \$2,054.06 credit that Mr. Rees had facilitated with Eversource. We have 2-3 months of credit from ECA savings.
7. Review and Updates to Exhibit 4 – Raw Water Costs
Mr. Renauld reported that they sat down and discussed raw water costs and looked at budgets. The costs have been reduced considerably. They are still waiting for Marion's costs, and need to meet as a subcommittee in January or February of 2020.
8. Tata & Howard Report
Ms. Davis reported that they had a meeting with contractors and they are ready to begin on the primaries. She anticipates that construction will start after Thanksgiving.
9. Operations Update
Mr. Renauld reported that the plant is running well and the filters are doing well. He stated that in a period of eleven years as plant operator, they have never cleaned the backwash tanks until just recently. Over four feet of sediment has built up in the back wash tanks. It cost \$10,000 to clean the tanks; the majority of the sediment was iron and manganese. From now on the tanks will be on a maintenance program.

The plant experienced multiple power outages from October 16-18. Hope Air came in to fix the compressor. The new radios are in and are running well. The signal coming in to the plant is running at 100%. The CO2 and pH meters have been calibrated.

Mr. Renauld stated that a cyber security risk assessment is still needed. The MRVWDC was provided an estimate for said work for \$16,000, which needs to be put in the budget.

Mr. Jeff Furtado explained that they are still 2-3 weeks out from getting the Tinkham well in service. The pump has been ordered and the drilling has been done. They are waiting for Maher to get data for the pumping test, which will be submitted to DEP next week. Mr. Furtado said that the well has been down for 6 months, and he cannot thank Mr. Renauld and the Town of Mattapoisett enough for their assistance and good work.

Mr. Silva motioned to adjourn the meeting at 6:15 p.m., Mr. Nicholson seconded, all in favor.

The next meeting of the MRVWDC will be on December 10, 2019.