



RECEIVED
2019 AUG 21 AM 10:23
TOWN OF COLCHESTER
1001 FINESTREET
COLCHESTER, CT 06415

Colchester Sewer and Water Commission

**Minutes of the March 14, 2019 Regular Monthly Meeting
7:00 P.M Colchester Town Hall. Room 1
127 Norwich Avenue
Colchester, Connecticut**

Members Present: S. Coyle, R. Silberman, R. Peter, M. Hayes (7:09), K. Fargnoli
Members Absent: T. Hochdorfer
Others Present: J. Paggioli (Public Works), Stan Soby

Special Monthly Meeting

1. **Call to Order-** Chairman Coyle called the meeting to order at 7:00 p.m.
2. **Approval of the Sewer and Water Commission February 21, 2019 Special Monthly Meeting Minutes–** Motion to approve the minutes of the February 21, 2019 Special Monthly Meeting Minutes as submitted, by R. Silberman, second by R. Peter; Motion approved 4-0.
3. **Citizen's Comments** - None.
5. **Subcommittee Reports**
 - A. **Finance – Transfers, Monthly financial reports, Quarterly billing, Disputes, other**

Transfers – None
Monthly Financials – Discussion – question regarding Sewer
Quarterly Billing –As of 2/28/2019 we have billed out 78.4% of the projected FY 18-19 budget and have collected 74.5%.
Disputes: On going issue with 307 Lebanon Avenue. Unauthorized turn on issues. Complaint filed with Police Department awaiting arrest.
6. **Water Activities**
 - A. **Water Activities Report – February**
 - 1) Service Work: Mark outs, Samples –Dist. And Source Finals. Profiles, Service Calls, Quarterly Readings conducted 12/3, respond to customers complaint issues, Elevated sodium and testing.
 - 2) New Developments – None.

- 3) Water Hauling – Halted with Voluntary Conservation Notice –Still in effect.
- 4) Cross Connection Surveys- Inishmoor, Colchester Wine and Spirits, Tractor Supply – All Complied
- 5) Main breaks: None
- 6) Violation review – Testing paperwork error and develop protocol to address.
- 7) Additional distribution Testing for Sodium.
- 8) Service calls general.
- 9) Determine and arrange new Lead and Copper test locations throughout distribution system. 40 Test Sites have been submitted to State DPH for approval.
- 10) Weston and Sampson proposal review Filtration Vessels.

B. Water Projects Status –

- 1) See individual items below.

7. Sewer Activities

A. Joint Facilities Report – February 19 was cancelled. Budget documents have been prepared for sewer portion of Joint Facilities Budget. Discussion concerning the emailed proposed budget was had, with Mr. Paggioli recommending that those on the JF Committee review carefully the increase to Consolidated share increase due to the increase in Capital Spending together with the apparent discrepancy between the total numeric increase and the written description on the cover page. This will be brought up during the March 19, 2019 JF Meeting.

B. Sewer Activities Report – During the reconstruction of Old Hartford Road, an oversized manhole was discovered that had been buried over which contained an air release valve that has significant rusting issues. The manhole riser will be installed prior to final paving, however the air release valve will likely need to be replaced in the near future. Update: Manhole arrived after paving, awaiting delivery of Air Release valve to finish work. Update: Work to commence in spring 2019

C. Sewer Projects Status – See Below.

8. Old Business

- A) RFP 2015-16 Engineering Services Well 3A Project** – Background. Well location adjustment required due to obstruction at 38 feet below surface. 20 feet away depth to 68 feet occurred. Sister well (2 feet away) indicated delay in recharge rate. Due to proximity of pump well, it was determined to place new sister well 14 feet away in order to obtain a more diverse indication of the local area recharge rate. Pump tests conducted on revised location and secondary location closer to existing Well 3 building. Awaiting calculations and design contract to be delivered to us for First Selectman signature (Done and delivered). Meeting held with Weston and Sampson and S.B Church to review design. Proposed well design to be a 48”-54” outside casing with a 24” withdrawal casing. Screen location to be 7 to 9 feet in length at the 40 to 49 foot depth. Instead of gravel pack, the annual fill is proposed to utilize SiLi Beads gradation. The beads have been utilized successfully in other states and are less subject to iron clogging that is problematic with gravel packed wells, therefor the well will require redevelopment less. They were instructed to

prepare the final design plans for submission to DPH. Conservative calculation anticipates a withdrawal rate of 350 gpm which would be sufficient to maximize the permitted diversion totals for the well field. Weston Sampson meeting with DPH for approval postponed due to DPH rescheduling. Conducted. SiLi Beads has been approved for well media. Location adjustment paper work submitted. Final Design documents being prepared, expect contract specification documents in 30-45 days. Meet with consultant for initial review of the specification documents. 7/2/18. September 6, 2018. Finally receive Amended Well Site Approval Certification from DPH. (see attached). Meeting with Weston and Sampson and Church set for 9/13/18 to determine start of well drilling and final plan delivery. Update, Church is concerned with cost associated with the larger exterior casing drilling cost and has forwarded an alternative to Weston and Sampson. I have directed that Weston and Sampson obtain and forward directly to me the costs for both proposals and the relative performance differences. It is anticipated that a reduction in yield would be approximately 5%. Construction Documents received and staff review occurred and returned to Engineer for revision. Proposals received for both well designs. Anticipated withdrawals for each are equivalent 300 to 500 gpm. Both designs screen length is 18 feet in order to maximize the aquifer withdrawal. SiLi Beads is used in both as the annular fill media. The Oversized double core (48"x 24") cost is \$400,000. Single Core (24"x18") cost is \$175,000. The entire project was originally estimated to be in the \$385,000 range for well construction, building, piping, machinery/programming. The estimate for the well portion was \$185,000. Mr. Paggioli recommended that the Single Core well design be accepted and that the Sewer and Water Commission recommend to the Board of Selectmen that the well drilling portion of the project be awarded to the S.B. Church Company for the Single Core Well Drilling as detailed in the February 14, 2019 quote, and that the First selectmen be authorized to sign any documents required. During the February 21, 2019 Special Meeting a motion was made by R. Peter, seconded by M. Hayes; That the Sewer and Water Commission recommend to the Board of Selectmen that the well drilling portion of the project be awarded to the S.B. Church Company for the Single Core Well Drilling as detailed in the February 14, 2019 quote for a price of \$175,000, and that the First Selectmen be authorized to sign any documents required. Motion passed 5-0.

Estimated start time to drill – 6 weeks.

For the remaining portion of the project (Building/piping/pumps/connection to SCADA system) there are multiple general contractors that can perform the work required. This portion of the work will be put out to bid within the next 30 days.

Update: Well permit granted to SB. Church 3/13/19.

- B) Prospect Hill Pump Station** – Replacement of check valve. Check valve material arrived at Joint Facilities. Awaiting low rainfall timing for installation. During January, a pump shaft broke during operation of the station. A replacement pump was installed and operational within 48 hours. A second replacement pump was ordered and delivered and is on hand at the station. It

was determined that the cause of the break was not due to “a flushable wipe” clog. No evidence of large particulate material was found within the volute.

- C) Water Rate Structure discussion.** – Dependent upon the discussions regarding rate structure and anticipated Capital projects that are required for the Water system, the need to fund these projects which are on the fixed assets of the system, should be done on the base rate side each account. Discussion was held regarding that this was more suitable for a Base Rate increase since all users of the system benefit from the successful completion of these Capital Projects regardless of water consumption. Additionally the average monthly “fixed charge” for other utilities (electric, cable, phone, internet, along with other water systems) generally range from \$10.00 to \$ 36.00 per month. An increase of the system’s base rate for water by \$10.00 per quarter, would bring the base rate to \$24.00 per quarter (\$23.00 + \$1.00 State DPH Fee) and equates to an \$8.00 per month fee which is still below other average utility base rate. Consensus was reached to develop the FY 19-20 Water budget with the proposed increased base rate structure. FY19-20 Budget will be presented at April Meeting.

- D) Filtration Vessels 1 & 2 Weld Failure** – Previous Sewer and Water Commission meetings detailed the failure of the welds that secure the elevated media support plate of Filter Vessels #1 and #2. These were new vessels installed during the 2009 filtration plant upgrade and the existing 3 vessels (#3,#4) having been converted to a concrete floor style base and piping and media being supported by the base of each vessel. The repair solution to eliminate the potential failure of future welds of vessels #1 and #2 is to convert them to a concrete base system similar to the remaining. This option was discussed and designed by the original designer of the filtration plant (Weston and Sampson) and an independent vessel construction firm (Water Service Professionals) in order to have an independent design view from the original vessel provider (Layne Construction). As such a repair proposal was submitted dated 2/26/19 by Weston and Sampson and 3/5/19 by Water Service Professionals. See attached proposals for proposed repair, scope and price. The cost falls within the range of expected expenditure. Additionally, there is a 50% reduction in the normal cost of Filter Media within the quote. Mr. Paggioli recommended that the Commission approve the repair quotes and recommend the Board of Selectmen for signature authorization. The repair as significantly time sensitive to be completed prior to the summer demand season such that the Water System can meet the demand requirements of the customers. A motion was made by R. Silberman, seconded by K. Fagnoli; That the Sewer and Water Commission recommend to the Board of Selectmen that the repair of Filtration Vessels #1 & #2 be awarded to the Weston and Sampson as detailed in quote dated February 26, 2019 for a cost of \$39,500 and to Water Service Professionals as detailed in quote dated March 5, 2019 for \$25,500; and that the First Selectmen be authorized to sign any documents required. Motion passed 5-0.

9. New Business – None.

10. Citizens Comments - None

- 11. Adjourn** - Motion to adjourn, by K. Fagnoli, second by M. Hayes ; Motion approved 5-0. Chairman Coyle adjourned the meeting at 8:04 p.m.

Respectfully submitted,
James Paggioli, L.S.