

TOWN OF SHELBY

LA CROSSE COUNTY, WISCONSIN



2800 Ward Ave
La Crosse, WI 54601
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APPROVED

Meeting Minutes

Date: Thursday, June 23, 2022

Time: 4:30 p.m.

Location: 2800 Ward Ave, La Crosse, WI 54601

OFFICIALS PRESENT: Commissioners Kurt Knutson, Tim Ehler, and Robert Lynn, Town Board Supervisor Renee Knutson (Zoom), Town Administrator Christina Peterson, Treasurer Sara Jarr, Public Works Director Terry Wright, and Water Operator Dan Odeen.

ATTENDANCE LIST: SEH: Tom Madden (Zoom), John Thom (Zoom), and Torey Leonard (Zoom). Charlie Cameron, DNR (partial mtg - Zoom).

1. Call to Order at 4:32 p.m. by Chairperson Kurt Knutson.
2. Arbor Hills Well #2 – Iron Level.
 - a. Peterson gave a recap noting the recent televising of Well #2 and reported that she, Wright and Odeen had a phone call with Tom Madden from SEH on June 22, 2022, to get him up to speed with the system and concerns.
 - b. John Thom was present during the televising and gave an overview of the findings, as follows: Static Level 580, a fair amount of iron build-up from static level to bottom of well is present. The bottom of the casing looked good. There is a slight indentation where pump was set since it was just outside of the casing. Thom estimated about 5 ft. of loose sediment at the bottom. His opinion is that there was no real problem with the well, but that iron is present.
 - c. Tom Madden discussed the reason for televising was to eliminate any obvious difference in the well from what would be expected. He agreed with Thom that there was no obvious issue, and rock layers are not uniform; some areas have more iron than others. He also mentioned that with the water system we have, the pumps start and stop a lot, and the operator reported that the iron is high at start up. The system which runs on a pressure tank never has the opportunity to flush the system out.
 - d. Peterson wanted to clarify that the findings from the televising showed that the pump was below the casing. Madden explained how the contractor places the pump pipe in sections and the last section of pipe put the pump just below the casing. Thom's recommendation is to remove a section of pump pipe. Peterson asked Madden if he saw the indentation on the video. He explained they use a packer at the end of the casing to hold back grout, and it can get into cracks and crevices. Madden does not put much concern on the areas that grout seeps past the casing.
 - e. Peterson also asked about the loose material that had filled in the bottom of the well above the grouting of the overdrill. One goal of the televising was to find out the elevation of the bottom of the well, which would be at the top of the grouting from overdrill. Peterson asked if it was worth digging out the loose material to find the elevation of bottom of well. She asked if we did that and found that the grout did not entirely fill the overdrill, could that be the source of the iron. Madden noted that the well drilling was gamma logged which may have gone down to the bottom of bore hole, which would have given indication what we would need for actual depth of well. Madden will look at gamma log to review the formations of the well and will also review the drillers log. Typically, you would want to penetrate the entire formation that produces water, and the only way you know you have

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- done that is to go into a different type of rock. Normally that different rock is a confining layer and would not transmit water. Madden will review drillers log to review the layers.
- f. Peterson noted that a few ideas were discussed with Madden on the phone call the day before. Including filtration, constructing a reservoir, connecting to another water system to increase demand, and pumping to waste. Madden reiterated how the high iron is mostly present at start up and clears out minutes later and made the following comments regarding the options:
- i. Pump to Waste. If it were in a system with a water tower where the water was going to run for 4 or 5 hours straight, it would make sense to start pump with valve open and let drain to waste. Our system does not have a tower and because of this, the well starts and stops 40-50 times a day. The well turns on because pressure in system is dropping, and the amount of water in pressure tank is dropping. System does not have 3 minutes to pump to waste because the pressure will drop too low.
 - ii. Filtration. Filtering will not work with our pressure system because the on and off is hard on that type of system. Filters need backwash, and there is not enough volume in tank to provide backwash service. Noted that the current system does not have capacity to deal with filtration system.
 - iii. Tank / Reservoir. Reservoir would provide reserve capacity to pump to waste for a few minutes. Madden noted a reservoir would have additional benefits such as some settlement, providing back up water and extend pump run time to help save on the pumps.
- g. Peterson asked about pump to waste and noted that Wellhouse 2 does not have sewer, but she asked if the pump to waste with an overland discharge permit is an option. Madden suggested that SEH could prepare a report to compare the options of pumping to sewer versus overland discharge. Peterson asked if pumping to sewer is allowed, although noted it was not preferred. He noted that if we had to do treatment, there would be a lot more backwash going to sewer system with iron in it.
- h. Knutson asked about the potential cost for these options. Madden offered to put together some cost estimates. Torey noted the Water Master Plan had cost estimates for additional components.
- i. Ehler asked about connecting to another system. Madden discussed the pros and cons of connecting two systems. Knutson noted his support for connecting the three independent systems as proposed in the Water Master Plan. Peterson noted the Master Plan included a connection from Arbor Hills to Wedgewood Valley but questioned whether it included a plan to pipe back to Arbor Hills. Leonard mentioned the pressure tank with Well 2 was temporary, as a reservoir is part of the master plan. Leonard mentioned the discussion was to pump back up to the ridge for new areas, but not necessarily back to Arbor Hills. Madden explained pumping down to the Well 1 Reservoir would allow for longer pumping times at Well 2. Leonard mentioned the system has a check valve that does not allow Well 2 to fill the Well 1 reservoir. Wright mentioned it would need a separate pipe to pump to Well 1 Reservoir. Odeen discussed the idea of an atmospheric valve to allow pumping from Well 2 to Well 1 reservoir through the system.
- j. Knutson asked if raising the pump into the casing would help reduce iron. Madden thinks it would reduce the amount of material that gets scraped and settles to bottom, but not necessarily iron.

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- k. Knutson closed out the discussion by asking SEH to report back on the options and costs. Knutson suggested the next meeting date of July 21, 2022, to allow a month for SEH to work on this.

Knutson reminded the staff that he would like reports of complaints and concerns documented and a summary shared at the meetings. Peterson asked about getting a message out to Arbor Hills residents, and it was suggested that Dan can continue to communicate as needed with the residents. A formal letter will go out to the residents after receiving more direction from SEH.

3. Minutes from 5/12/2022. Motion by Lynn, second by Knutson to approve meeting minutes from 05/12/2022. Motion carried unanimously.
4. Review and Approve Bills Payable. Lynn asked about the Asphalt Armor bill. Wright noted the bill was for Thistledown and Sherwood, totaling \$4,765.80. Motion by Knutson, second by Lynn to approve Open Invoices and Paid Invoices totaling \$28,187.35. Motion carried unanimously.
5. Citizens' Concerns. None.
6. Resolution - Compliance Maintenance Annual Report (CMAR) Wastewater Collection System. Motion by Ehler, second by Lynn to approve Resolution. Motion carried Unanimously.
7. 2021 Water Quality Report. Odeen explained that this report goes out to water customers each year.
8. Administrator Report. GIS System setup is getting close to ready. Knutson asked about the Comprehensive Plan process, and Peterson said staff would get them a link to the proposed plan. She noted the Public Hearing on July 19, 2022. Lynn asked general questions about land development.
9. Public Works.
 - a. Sewer MH caps are in, and Public Works is working on getting them installed.
 - b. Wright will meet with St. Joes Construction to discuss replacing sewer pipe in Arbor Hills before redoing Lift Station.
 - c. Planning for the lining of sewer sections, including Boma Rd.
 - d. Lynn asked about Ebner Coulee sewer line. Wright mentioned they replaced a section and redirected a storm drain. Then they filled hole with dirt and placed riprap. Peterson and Wright will continue to work on a plan to improve drainage for the larger area.
10. Chairperson/Commissioners. None.
11. Adjournment. Motion by Knutson to adjourn at 6:27 p.m., second by Ehler. Motion carried unanimously.

Respectfully Submitted,
Christina Peterson, Town Administrator