

<p style="text-align: center;">YANKEE SPRINGS TOWNSHIP BOARD OF TRUSTEES</p> <p style="text-align: center;"><u>Special Board Meeting with D. DeVries of Fleis & Vandenbrink Regarding YS Water System/Water Reliability Study Proposal</u></p> <p style="text-align: center;"><u>Thursday, February 8, 2018</u> 6:00 p.m.</p> <p style="text-align: center;">Yankee Springs Township Hall 284 N. Briggs Rd., Middleville, Michigan 49333</p> <p style="text-align: center;">MINUTES</p>	<p>FINAL MINUTES Page 1 of 1 YST Bd Trustees/Fleis & VDBrink 2.8.18 Approved March 26, 2018 with additional information attached.</p>
<p>Meeting called to order at 6:00 PM by Supervisor Mark Englerth.</p> <p><u>PLEDGE OF ALLEGIANCE:</u></p> <p><u>Roll Call:</u> Jansma, J. Lippert, Englerth, Boysen, VandenBerg. (All Present).</p> <p><u>Staff Present:</u> Rich Beukema; Cathy Strickland; Frank Fiala; John Frigmanski</p> <p><u>Visitors:</u> (2) Don DeVries of Fleis & Vandenbrink, Larry Knowles, GLASWA Director</p> <p><u>Discussion with Don DeVries, Engineer from Fleis and Vandenbrink regarding The Yankee Springs Water System.</u></p> <p>This meeting was requested by the Board at the January Board meeting. The MDEQ requires a reliability study be performed every five years to satisfy the requirements of Act 399. The last reliability study was completed in 2012. This study was included in the Board Packet (dated April 2012).</p> <p>Discussion occurred regarding questions on: hydrant testing, current well, possible new well site, testing of existing wells, arsenic testing, arsenic removal system, iron removal, loop recommendation approximately five years ago, line going down Chief Nooday, aquifer, ISO ratings and meeting MDEQ requirements.</p> <p>A. Jansma reminded the Board of the signing of the Shalinda Development Loop agreement.</p> <p><i>Motion by Jansma with support from VandenBerg to accept the proposal from Fleis & Vandenbrink to do a water reliability study for YS Township. ROLL CALL VOTE: Jansma: Yes, J. Lippert: Yes, Englerth: Yes, Boysen: Yes, VandenBerg: Yes. Yes: 5, No: 0. MOTION CARRIED.</i></p> <p>Don DeVries agreed to come back for further discussion. D. DeVries would like to consult his environmental engineer regarding testing the four (existing) wells. D. DeVries asked if any records were available of testing the wells 25 years ago. Englerth gave contact information that may be helpful with that information.</p>	<p>CALL TO ORDER</p> <p>PLEDGE ROLL CALL</p> <hr/> <p>MOTION to ACCEPT PROPOSAL for WATER RELIABILITY STUDY from FLEIS & VANDENBRINK</p>
<p><u>ADJOURNMENT:</u> Motion by Englerth with support from Boysen to adjourn at approximately 6:50 p.m. (prior to the Regular Board Meeting at 7 p.m. this evening.) Approved by all. Motion Carried.</p> <p>Respectfully submitted: Date: Draft Circulated 2-19-18 Deb Mousseau Recording Secretary 2.17.18 PER AUDIO Approved :March 26, 2018 as amended with additional information attached. Janice C. Lippert, Township Clerk</p>	<p><u>ADJOURNMENT</u></p>

Please see attached (following): Additional Information to be added to minutes of Feb. 8th, 2018 – 6 p.m. Meeting with Don DeVries of Fleis & VandenBrink regarding Water Reliability Study Proposal.

Requested by S. VandenBerg to add to minutes of February 8, 2018 (6 p.m.) -(in reference to the loop): *25 minutes 35 seconds into audio:*

Don DeVries commented, “Will I lose sleep on it? No. I probably won’t lose any sleep if that loop doesn’t get put in.”

Conversation with above-mentioned comment requested by J. Lippert:
23 minutes 46 minutes into audio:

M. Englerth commented regarding the loop, (additional wells, easement, location), “I think these discussions need to be made or had before we pull the trigger on a quarter of a million dollars. That’s one of the most important questions I have to ask tonight- is if we are going to spend some money, is this the money best spent for the system?”

S. VandenBerg commented, “When they put down that third well, I was approached by Al McCrumb. That’s many years ago. I’ve been here, in all honesty, from the beginning and he wanted to know if I’d be willing to work with the township and sell them a piece of property to put a well on. It never got past that, but we communicated that.”

M. Englerth, commented, “So back to my question.”

Don DeVries commented, “Right, because I know back to the arsenic when we were all kind of having a heartache over having to put into an arsenic system because we were only a few parts per trillion over the new limit. I remember working with Al and we were looking at possibly a new well site. You know we looked at moving over 100 feet. We looked at maybe a brand new well site and what not and we weren’t finding any good options out there. So that’s how we actually settled in on just keeping the current well house, wells and system and treating the water. Back to the looping, I guess I still feel it’s important. It will still, I can tell you right now, it will be in the new reliability study that we would do- is that loop in there. The DEQ has been encouraging it. Will they require it? They won’t put you under like administrative consent for it, but they will keep telling you that it’s recommended- that it’s needed. Dead end lines are something that’s never, I guess, recommended. Will I lose sleep on it? No, I probably won’t lose any sleep if that loop doesn’t get put in. But I will say it is recommended. It is something from an engineering standpoint that is very good for your system. It helps with overall reliability. It reduces your stagnation in the water there. It increases fire flow. It increases chlorine residual, which is overall safety to the residents. If you get low chlorine, you get bacteria growth in the system. You get ..?. form bacteria going. It’s good for a lot of many reasons. It gives you another loop. You got your wells all located way to the east of your system. And then you got your tower more to the west end of your system. You have one line down Chief Noonday Road that connects the tower to the wells. Right now if that line breaks I guess you would have a break in the system where you can’t feed the tower with water. If you put this loop in, it helps somewhat get a dual feed out to there. Not a complete link, but a portion of that...”

S. VandenBerg commented, “So at that point, that would be a benefit to the entire township, as far as all the users on the system.”

Don DeVries commented, “ Yeah. I would say that the loop can benefit...”

S. VandenBerg commented, “Thank you.”

Don DeVries, continued “the (J. Lippert commented, “The users”), because it does provide another connection to the tower.”

J. Lippert repeated, “Only the users.”

Don DeVries commented, “Yeah. Yeah.”

M. Boysen asked about the 8” line that goes down Chief Noonday, commenting “How old is that?”

Don DeVries commented, “91?”

M. Englerth referred to his daughter’s age and remembering having an infant and the stage of putting bottled water on the front porch.

To be included into the Minutes of February 8th, 2018

On Motion by: Lippert; Supported by; Jansma.

Ayes; _Englerth, Jansma; Lippert; Boysen and VandenBerg

Janice C. Lippert, Clerk

Dated: Special Meeting 3-26-18