

Hello Dorothy,

I am happy to report that the MCES has not found any problems with the sewer line that runs along Silver Lake. For your reference, the MCES calls this line 7017-4. MCES crews will do another visual inspection sometime between now and late spring of 2017.

Please remember that this sewer line does not run full therefore if a leak develops ground water or lake water will leak into the pipe, the wastewater will not leak out. This is because under normal operation the pressure in the pipe is much less than the pressure outside of the pipe. It is the same as putting a hollow or partially filled tube underwater and then poking a hole in the tube; water will run in the tube, not out.

I hope this helps,
Tim

Sent: Thursday, February 02, 2017 9:34 PM
mriedel@umn.edu>; bill.heyman@gmail.com; klausclark@mchsi.com; glkiecker@fastmail.com

Hi Tim-

You might recall I contacted you a couple of years ago about the repair of the sewer line along/in Silver Lake. As you noted below, there was to be a re-inspection of the line in 2016; I'm following up with you to ask for the results of the inspection. I'm currently part of a group of residents forming a lake association for Silver Lake, and we're interested in the safety of the repaired line.

Please feel free to call/email me-we appreciate your help-

Dorothy

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Sent: Tuesday, May 05, 2015 8:19 AM
ohnson, Kent; Odonnell, Tim

MS. Pedersen,

As requested I will be sending a series of 3 emails with spot reports attached, copy of a 2011 work order to repair leaks, a PowerPoint presentation and 3 photos and a power point presentation showing the repairs. Also, I offer the following in response to your emails of May 1 and May 4, 2015.

* It is very important to understand that the problem in this gravity sewer pipe was ground and surface water leaking into the pipe and not waste water leaking out the pipe. Waste water cannot leak out of the partially filled gravity pipe because the hydrostatic pressure (pressure from the ground water) far exceeds the pressure inside the pipe. Water leaking into the pipe is illustrated in several photographs taken with CCTV equipment from within the pipe and is most evident in the attached photo labeled "Before Link Seal".

* To stop the ground and surface water from entering the pipe Link Seals were installed and the top elevations of the MH's were raised. Link seals are a stainless steel band that are installed and grouted from inside the pipe and are used to repair leaking pipe joints and cracks in the pipe walls. The repairs were completed in 2011 following an inspection performed in 2010.

* The inspection report recommends the pipe be re-inspected in 2016. This is the only near term ongoing monitoring that is planned.

* It is extremely unlikely that people observed feces floating in the lake that would have come from the MCES pipe. Feces breaks down very rapidly in the sewer pipes, it does not stay intact and in this case would have to have traveled through small cracks in the pipe. I have walked inside many large sanitary sewers and observed

email: Dorothy Pedersen, Keegan, Timothy, 'DorothyPedersen', Keegan, Timoth...Page 2

rved countless CCTV footage of others and have only very rarely seen intact feces, perhaps as few as two or three times.

* I am sorry but the MCES does not have the wherewithal to help monitor the quality of water in Silver Lake.

* I am not aware of any future plans the MCES has for Silver Lake other than the re-inspection in 2016 then, assuming no additional problems, re-inspections on 10 to 15 year intervals. If the planned 2016 inspection reveals additional problems the MCES will react accordingly.

Thank you for the opportunity to respond to your concerns. I hope this answers your questions regarding the condition and history of our pipe in the area of Silver Lake.

Your last email indicates you are very busy at this time. If you still wish to meet please offer a couple of dates, times and locations when you are available.

Thank You,
Tim Keegan

Sent: Monday, May 04, 2015 5:15 PM

Tim-

Thank you for responding to my email. I would be happy to meet, and would still like to have a copy of the initial leakage report, and report of what repairs were made to share with my Ridge Road neighbors and RPBCWD. My schedule is pretty tight for the next few weeks since this is my busy season, but this is important. I'll wait to hear from you.

Thank you-

Dorothy Pedersen

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Sent: Monday, May 04, 2015 8:41 AM
t

Good Morning Ms. Pedersen,

After reading your email I think it best if we meet and discuss. Is it possible for you to meet with me, one of our managers and possibly a field crew member to answer the questions you have raised? My schedule this week is not good but there are a few mornings next week that I am available. Please let me know.

Tim Keegan

Sent: Friday, May 01, 2015 4:53 PM

Good Afternoon, Tim-

You recently received an email request from Brian Johnson concerning a possible sewer leak on Silver Lake in Shorewood. My name is Dorothy Pedersen, and I have been following up on this issue since 2011.

During the summer of 2011, I stopped a couple of times to talk to the crew that was collecting data about the sewer line that runs along and in Silver Lake. On both occasions, the crew told me there were several cracks in the line, and that it would be very difficult to actually repair/contain those leaks. The sewer lines run down a steep slope from all of the residents on our road-43 homes. At that time, I contacted Brian Johnson by phone and email to volunteer to monitor Silver Lake by taking readings through your lake program, and did not hear back from him. I followed up with a phone call to Brad Nielson, the City of Shorewood, and was told the problem with the lines was Met Council's responsibility. Since then I have joined the CAC for RPBCWD. I contacted Claire Bleser, RPBCWD, and she followed up as well. My under

standing is that you are "monitoring" the situation after some repairs had been made in 2011. I am wondering what monitoring has been done, when and how; I'd also like a copy of the initial leakage report, as well as the repairs that were completed.

Besides my work for the CAC for RPBCWD, I own a landscape design/installation business, and am in the Master Water Steward Program. Silver Lake is one of the most polluted lakes in RPBCWD, which feeds Purgatory Creek and eventually the Minnesota River. Two residents reported seeing what they believed to be floating feces in the water in both 2013 and 2014, which is disturbing. The RBCWD began collecting regular data from Silver last year for the first time, and this time on a more regular bi-monthly basis. It is scheduled this year for a Paleolimnology study. There is, however, no funding available for E.coli water testing through the watershed. I have called a lab and was told to run several season long tests-as I understand that is a more reliable scientific proof of a leak- would cost around a \$1000 or so. A group of concerned residents on the road and I would be happy to canoe out, take water samples, and send the samples in.

Tim, I am hoping you will have time to follow up by providing us with further information concerning the initial leakage, the work performed, and what monitoring has been done, as well as any future plans for the lake. We would be happy to help take water samples, if Met Council would be willing to take all or even part of the cost. The lake currently has a clarity depth of about 6", and is hypereutrophic. We are concerned, and want to ensure we protect Silver, as well as our water resources for the Watershed, Minnesota and eventually the Mississippi.

Please don't hesitate to contact me with any questions or to discuss--and thank you for your assistance--

Dorothy Pedersen

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