



December 27, 2017

Re: Mirror Lake Dewatering
Mirror Lake Stormwater Quality Improvement Project
WSB Project No. 1626-79

Dear Resident:

Due to the warm weather last winter, the Contractor was unable to finish the lake excavation. Therefore, the lake excavation will be completed this winter. The procedure will be similar to last year.

1. Dewatering of Mirror Lake

a. Dewatering is necessary to get the soil on the bottom of the lake to freeze. If the soils are not adequately frozen, the contractor will get equipment stuck in the muck. This could result in increased construction time, expenses, and a higher risk of environmental impacts.

b. The dewatering is completed in two steps:

i. Removal of the outlet stop logs, this was completed in October.

- This is a passive method of removing the water from the lake. It was started in September to allow for amphibians to relocate during the winter. However, this method is not able to remove all the water

ii. Pumping

- The water remaining in the lake after the stop logs have been removed will need to be pumped, allowing the lake bed to freeze. Once pumping begins it must continue, 24 hours a day, until the construction/excavation is finished. This is necessary because water enters the lake from the inlet pipe throughout the winter. The contractor will be taking measures to reduce the pump noise during the City's quiet hours.
- The contractor is anticipated to begin pumping on January 8, 2018. This start date is weather dependent.

2. The contractor may need to move the snow on top of the lake. Snow insulates the soil, slowing and reducing the frost depth.

3. The excavation is anticipated to begin in mid-to-late January, depending on the weather.

4. The lake's outlet control structure will be replaced once the excavation is complete.

5. The flood berm will be "roughed in" once the outlet structure is in place.

6. Final grading, restoration of the access point, and berm will be completed in the spring once the soils have dried to allow for better workability.

Many of the above tasks are weather dependent; therefore, exact start and stop dates are challenging to predict. We appreciate your patience during this construction process. If you have any questions or comments related to this project, please contact Tony Miller at 612-554-6974 or tmiller@wsbeng.com.

Sincerely,
Todd Hubmer, PE
City Engineer