

Parks and Rec Report of PPRC Meeting of October 19, 2023
ZOOM Meeting, 1:00 P.M.

Attendees Cathy Weber, Brian Luetzow, Eric Benn, Al Drum in person; Virtual Attendees Graig Neville and Kendra of MSquared

Graig reported that the Dam Failure Analysis (DFA) is substantially completed resulting in the determination of the shape of the flood shadow. Two downstream private properties are affected by the flood shadow. Several flood conditions were modeled. A firm named Stantec also has run simulations in the area, helping with our project. Graig and Kendra then discussed some of the new dam system features to be considered. Graig mentioned that in a north pond impoundment failure, only one downstream property is affected, with approximately one half foot of flood water exposure.

Three features need to be abandoned in the Pipke Park dam system: 1) The current water flow control structure between the south dam and the north dam which had been modified in 2021; 2) The existing inlet to the south pond from Little Horsehead Creek; 3) The long pipe leading from the creek to the north pond.

The concrete inlet that had been delivering water to the north pond through the long pipe mentioned just above will be repurposed to deliver controlled water flow to the north pond from the south pond. A new pipe segment and control mechanism will thereby be connected from the south pond to this repurposed concrete inlet structure.

Members discussed seasonal adjustments of water levels in the south pond.

Presque Isle members asked whether or not a siphon can be used for complete emptying of the south pond waters as a permanent installation. MSquared members answered that the siphon is not a good permanent solution for pond emptying, and that a permanent pond emptying drain pipe having a steady gravity gradient is necessary. Of course, a siphon can be employed as a supplemental drain.

Presque Isle attendees asked for an estimate of likely total cost for engineering and construction. Graig and Kendra estimated a total of between \$200,000 and \$250,000, pointing out that engineering costs for a project like this are usually between 12% and 15% of the total.

Presque Isle attendees urged MSquared to get approval of the DFA from DNR as soon as possible; Graig and Kendra felt that the final DFA results will be in the hands of DNR by the end of October. Presque Isle PPRC members then urged MSquared to complete detailed design and construction plans, construction specifications, and new Operation and Maintenance Plans and Emergency Action Plans, hopefully by the end of December and very urgently by the end of January. PPRC members pointed out that the actual final, complete engineering documentation and grant application form (which Presque Isle PPRC members will complete) need to be submitted by March 1, 2024, and that by that date, it will be very important for the submittal to have received full DNR approval and support.

PPRC members asked about what entity will oversee construction (*NR 333.08 requires that "All dams shall be constructed or reconstructed under the supervision of a professional engineer..."*), and who would likely arrange for subcontracted specialties such as geotechnical sampling and specialized trenching or boring for new piping. Answers to these questions are unclear at this point.

Attendees also briefly discussed how to deal with existing buried natural gas lines and broadband fiber optic cables. Members agreed that gas can probably be interrupted during warm weather construction activities; dealing with buried fiber optic is a subject for another day.

Other questions not finalized are 1) Is grant money all from the State of Wisconsin?; 2) How can we develop a list of likely project contract bidders? In answer to the second question, attendees felt that PPRC members should contact Forrest Van Asten for a competent bidder contractor list.

Adjourned at 2:00 P.M.

Transcribed by Al Drum, November 5, 2023