

**PROGRESS REPORT #2**  
**PERIOD 7/21/19 – 8/23/19**

**LAKE SHAMINEAU HIGH WATER PROJECT STEP 2**

**SUMMARY OF PERIOD ACTIVITIES:** Attended several project management meetings with LID Board Members. Attended TEP meeting on August 8, 2019 to discuss preliminary design groundwater design issues with DNR, Corps of Engineers, Morrison SWCD, BWSR, and Morrison County staff. Coordinated surveying of Bugle Road right-of-way and section corners. Mobilized to site to obtain water levels in observation wells. Prepared and sent easement offer letters to Perfetti, Kylanders, and Cattleberries. Met with property owner to discuss infiltration basin design and piping. Worked on preliminary designs for infiltration basin and pumping station. Worked on groundwater modeling of infiltration basins to evaluate designs and impact on groundwater levels. Prepared preliminary design work for selected outlet alternative alignment. Working on grading plan for infiltration basins. Discussed easement offers with property owner along discharge pipe route. Prepared design cost updates for LID Annual Meeting. Prepared memo on design constraints for gravity flow to a wetland basin. Prepared data and memo on Stanchfield Dam.

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**SUMMARY OF PAST ACTIVITIES:** Coordinated surveying of gravel pit and Stanchfield Dam for infiltration basin design. Met with gravel pit property owner to discuss design and easement for the infiltration basins. Completed site reconnaissance of three outlet alternatives. Completed surveying and sounding of lake bottom at the northeast end of the lake. Completed preliminary design layouts for three alternative routes and prepared detailed costs for comparison. Attended public information meeting to discuss preliminary design and design steps that will be completed. Prepared easement letters for proposed facilities. Toured the Little McDonald and Devils Lake project facilities and discussed design and operation issues. Prepared preliminary design work for selected outlet alternative alignment.

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**COSTS INCURRED FOR THIS PERIOD:**   \$28,320.46                      **DUE THIS PERIOD:**   \$28,320.46

**TOTAL BILLINGS TO DATE:**   \$72,957.30      **ADDITIONAL CONTRACTED COSTS:**   \$57,042.70

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**KEY INFORMATION OBTAINED:** Found that Cantleberry Bay is deep enough for the inlet pipe in addition to other areas along the east shore. Infiltrating 3 feet per day with raise groundwater under the basins by 20 feet and groundwater elevations along the downgradient wetlands by 2 feet.

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**ISSUES / CONCERNS:** Obtaining cooperation from property owners has become very problematic.

**GOALS FOR THE NEAR FUTURE:** Complete additional detailed design for selected alternative. Prepare easement letters for the designed route. Meet with DNR to review their permit requirements and discuss the groundwater modeling review. Provide additional cost and project description information to Lake Shamineau LID. Complete soil borings along selected outlet route

and at the pumping station. Completed detailed design drawings of selected outlet route.

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**SCOPE CHANGES / VALUE ADDED TO DATE:** Participated in weekly status update meetings with Cindy Kevern and Rick Rosar. Evaluated three alignment alternatives with preliminary design and cost estimates. Met three times with one landowner to date and have talked to one other about redesign several times.

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**SCHEDULE STATUS:**

- Working on Step 2
- Step 2 to be completed September 30, 2019
- Step 3 to start October 1, 2019

**INPUT NEEDED FROM CLIENT OR OTHERS:** None at this time.

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DATE:

9/26/19

SIGNED:

Brian A. Row

