

Memorandum

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 5H – Consider Authorization to Increase Schaper Pond Effectiveness Monitoring Budget
BCWMC January 18, 2018 Meeting Agenda
Date: January 10, 2018

5H. Consider Authorization to Increase Schaper Pond Effectiveness Monitoring Budget

Recommendations:

1. Consider authorizing a \$3,500 increase in the Schaper Pond Effectiveness Monitoring budget to reflect the performance of additional work. The additional budget would be funded through the Capital Improvements Program (CIP) Projects account.

Background

The Schaper Pond Effectiveness Monitoring project is nearly complete – the Commission Engineer completed the stormwater and pond monitoring in 2017, and compiled and summarized preliminary flow and water quality monitoring data. Over the next two weeks, we will complete detailed loading estimates, including flow-based comparisons with the pre-project monitoring period, and report on the results and management implications. The results of the project are expected to be presented to the Commission at its February 15, 2018 meeting.

As part of the project, we performed the following additional unanticipated work, which resulted in additional costs:

1. Additional costs associated with the new equipment purchases on behalf of BCWMC—In addition to the equipment purchase price, our costs included working with vendors on options/quotes/orders; unpacking, assembling, labeling, programming, and bench testing the new equipment; setting up telemetry and the cell modem connection; and changing the code and wiring to extend the battery life of the datalogger. Estimated additional cost = \$2,500.
2. Additional follow-up monitoring—After we identified that some of the sample results showed unexpectedly high phosphorus concentrations leaving Schaper Pond, we conducted longitudinal monitoring on November 17th throughout the pond and tested water quality samples to better understand the potential source(s) of the cause(s). Estimated additional cost = \$1,000.

The total estimated additional costs = \$3,500.

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Page: 2

Current total project budget:	\$44,000
Requested additional project budget	\$3,500
Requested total project budget	\$47,500

The current project budget is funded through the CIP Projects account; we recommend the additional budget also be funded through the CIP Projects account.

The Commission Engineer will use the BCWMC-purchased monitoring equipment for the BCWMC stream monitoring program, slated to begin later this year.