

MINUTES
June 25, 2020

A virtual meeting of the Technical Advisory Committee (TAC) of the Shingle Creek and West Mississippi Watershed Management Commissions was called to order by Chairman Richard McCoy at 8:30 a.m., Thursday, June 25, 2020.

Present were: Mitch Robinson, Brooklyn Park; Mark Ray, Crystal; Derek Ashe, Maple Grove; Megan Hedstrom, New Hope; Ben Scharenbroich and Amy Riegel, Plymouth; Richard McCoy and Marta Roser, Robbinsdale; Ed Matthiesen, Diane Spector, and Eric Megow, Wenck Associates, Inc.; and Judie Anderson and Amy Juntunen, JASS.

Not represented: Brooklyn Center, Champlin, Minneapolis, and Osseo.

Also present: Karen Jaeger, Maple Grove.

- I. Motion by Ashe, second by Ray to **approve the agenda.*** *Motion carried unanimously.*
- II. Motion by Ray, second by Ashe to **approve the minutes*** of the May 28, 2020 meeting. *Motion carried unanimously.*
- III. **Project Review Fees.***

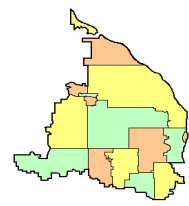
The members of the TAC and the Commissioners are interested in reviewing the fee schedule to ascertain that it covers the cost of project reviews and that the fees are in line with those of other joint powers WMOs in the area. The existing fee schedule was last updated in 2014 and reviewed in 2018, at which time the Commission voted to not revise the schedule. In 2018 the review fees were adequate to cover the costs overall, but in 2019 they were not.

Ashe provided an update of the Elm Creek Commission's progress in revising and updating its application and fee schedule. It was noted that the Elm Creek Commission is generally based on size, with a flat rate per acre. The Bassett Creek Commission is generally based on flat amounts, with a base rate and other flat add-on rates for special analyses.

McCoy emphasized the resultant schedule should be in a format that is easy to follow. Ashe responded that that may depend upon the types and elements of the projects submitted. Spector proposed that members continue to monitor progress in Elm Creek.

IV. HUC 8 Model.

Megow provided a presentational update of the hydrologic model with figures and preliminary results. The preliminary results included 24-hour and 48-hour Atlas-14, 100-yr (1% Chance) storm events. The preliminary results showed that the 48-hr event resulted in slightly higher water levels showing that



additional 7-day and 10-day duration storm events need to be investigated to determine the watershed-wide critical storm event.

The 7-day and 10-day storm events, along with calibration storm events from June 2014 and September 2018, will be completed in July and draft results for the hydrologic model will be sent out to the cities and DNR for review

One area where the preliminary storm event showed large increases from existing FEMA Base Flood Elevations (BFEs) is in the Memory-Gaulke-Hagemeister pond system. Wenck will work with Mark Ray and the City of Crystal to determine the modeling assumptions are consistent with their pump operations and as-built/survey information.

V. Crescent Cove Cost-Share Project.*

The City of Brooklyn Center has forwarded a Partnership Cost Share application for \$50,000 from Stephen Mastey on behalf of Crescent Cove, a children's respite care and hospice facility on the north end of Upper Twin Lake. Improvements to the site including a play space, gardens, and native buffer were reviewed as part of project review SC2020-005 at the June Commission meeting.

Projects adjacent to public waters or wetlands or within the floodplain require a mandatory Commission review. While the overall project minimally increases impervious area, the applicant is incorporating voluntary BPMs that will have water quality or habitat benefit. The project includes two pretreatment sumps to treat runoff from the drive and parking lot and part of the roof. The applicant also proposes to create new runoff storage in a Tire Derived Aggregate infiltration system below the new play area. Finally, the current turf grass adjacent to the wetland and channel along the east side of the property will be replaced with a new native plant buffer and a pollinator garden that will also treat runoff from the site. The turf is difficult to maintain because it is located within the floodplain of Upper Twin Lake.

While generally in favor of approving the cost-share, the members requested some sort of engineering plans and details as well as more information regarding potential pollutant load removals in time for the July Commission meeting.

Motion by Ray, second by Riegel to recommend to the Commission approval of this project at the requested amount. *Motion carried unanimously.*

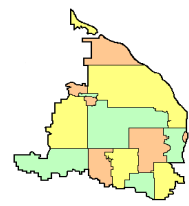
VI. Other Business.

A. Eagle Lake Golf Course.

On June 2, 2020, Brian Vlach, Three Rivers Park District, forwarded to Matthiesen a copy of the Eagle Lake Golf Course Water Reuse Feasibility Study. Vlach was inquiring whether this project would qualify for some financial support from the Shingle Creek Commission as a City CIP item or some other special project funding source?. He stated that the Park District would also pursue grant funding for the project. The project would reduce ground water use and phosphorus loading as well as increase storage depth in the existing pond. It was a consensus of the members that the TAC would consider this project dependent upon submittal of a proposal for the work and quantification of benefit to the watershed.

B. Proposed Robbinsdale Centralized Water Treatment Plant.

McCoy discussed the site for the proposed Water Treatment Plant (3648 Lee Avenue North) with respect to stormwater issues. The size of the site falls below the threshold for review by the Commission. Existing storm sewer at the site flows into an excavated holding basin at the rear of the site



together with runoff from the development to the south (Lee Square Apartments). Any stormwater collected in the basin infiltrates so there is no discharge from the site.

The proposed stormwater design will continue the use of this basin (modified in shape and position to allow construction of the new plant) so there will remain no discharge from the site. A new drinking water well will be located on the WTP site and will be approximately 400 feet away from the basin.

Drainage analysis performed by the City's Consultant indicates that the 100 year storm will be retained in the basin. A double ring infiltrometer test conducted in the native subgrade soil on the WTP site indicated an infiltration capacity of 36" per hour although the drainage calculations used a rate of 5" per hour. The plans for the water treatment plan are currently out for bid.

C. Filamentous Algae.

Following alum treatments in Bass and Upper Twin lakes, some filamentous algae growth has been observed. Brian Vlach at Three Rivers Park District has experienced the same results, so it appears to be a regional problem. Meadow Lake experienced the same conditions after its drawdown. It may be related to the temperature at the time of the treatments. It is possible that a broader distribution of alum and wider coverage areas may help get ahead of the FA problem. Spector will contact University of Wisconsin Stout to expedite the spring core results. The fall lake alum treatment project is out for bid.

Staff have been looking at options for treating/living with filamentous algae in Twin Lake and will share their advice with the residents. They also want to create educational materials for lakeshore owners so that they understand what FA is and how to deal with it.

VII. Next Meeting.

The next Technical Advisory Committee meeting is scheduled for 8:30 a.m., Thursday, July 23, 2020. This also will be a virtual meeting.

The meeting was adjourned at 9:29 a.m.

Respectfully submitted,

Judie A. Anderson
Recording Secretary
JAA:tim

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