COON CREEK WATERSHED DISTRICT
Request for Board Action

MEETING DATE: August 27, 2018
AGENDA NUMBER: 12
ITEM: Request to Seek Quotes-LCC Bank Stab Project

FISCAL IMPACT: $62,500
POLICY IMPACT: Policy

REQUEST
Authorize staff to seek quotes for project

BACKGROUND
On June 5, 2009 Staff received a citizen’s complaint about approximately 400 linear feet of severe erosion along a steep outside bend of Lower Coon Creek. An inspection determined that the erosion was significant but appeared to be occurring gradually over time. The site was added to the District’s list of potential bank stabilization projects.

In 2010 and 2015 Staff completed a routine inspection of Lower Coon Creek. The bank was surveyed and photographed to monitor the rate of erosion.

As part of the Comprehensive and Capital Improvement planning process, the Lower Coon Creek Bank Stabilization project was prioritized and budgeted $62,500 for work in 2018 as part of the District Bank Stabilization Program.

On September 11, 2017 the Board approved the 2018 budget including $62,500 for the Lower Coon Creek Bank Stabilization project.

In February 2018 down trees and debris were removed from the channel along the project area as part of a routine forestry maintenance project to prevent flooding and erosion.

On May 8, 2018 Staff surveyed the site to determine current conditions for design.

On June 14, 2018 Wenck provided a preliminary design and engineers estimate for a boulder wall and high vane installation.

On August 20, 2018 staff met with the property owners to review the project and finalize the design.

ISSUES/CONCERNS
Project budget: $62,500

Engineers estimate: $32,962. The estimate utilizes higher than expected costs and includes a 10% contingency. The estimate is significantly below budget because the budgeted scope of the project was twice as long (400 feet) and was later determined that
only the upstream most 200 linear feet needed to be armored and that flow could be redirected to protect the remaining 200 linear feet downstream.

**Failure:** The eroded bank is located along a tall steep outside bend of Lower Coon Creek where water flow has, and continues to, gradually erode the bank toe over time. Additionally, trees routinely fall into the channel which obstruct and divert flow accelerating the rate of erosion. If left unattended the toe will eventually erode to a point where the larger upslope will slough into the creek causing significant property loss and deposit significant material into the creek.

**Water quality:** The existing gradual erosion is contributing approximately 180 tons TSS/yr and 72 lbs TP/yr (NRCS estimation method). If left unattended the eventual upslope failure could instantly contribute approximately 720 tons of TSS and 287 lbs TP (assuming approximately 442 cubic yards of slough material) as well as cause a channel obstruction.

**Access:** will be via 9864 East River Road which is a vacant lot currently owned by the Housing and Redevelopment Authority. This property provides a gently sloped access to the inside bend of the creek. The contractor will work within the channel to install the boulders.

**Properties:** There are 7 affected properties for this project. Agreements will be executed with all parties prior to issuing a notice to proceed.

**RECOMMENDATION**
Authorize staff to seek quotes from pre-qualified contractors
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Item 12: Request to Seek Quotes on Lower Coon Creek Bank Stabilization Project
Engineers Estimate
QUOTE FORM

Coon Creek Watershed District
Lower Coon Creek Stabilization from Station 108+50 to 110+20

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Estimated Quantity</th>
<th>Unit Price</th>
<th>Extended Amount</th>
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<td>Mobilization – Demobilization, MN DOT 2021</td>
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Subtotal $29,965

10% Cont. $2,967

Total Quote $: $32,962

Total Quote in Words: ____________________________________________________________

Company Name: ________________________________________________________________
Signature: ________________________________________________________________
Name Printed: ____________________________________________________________
Phone Number: ___________________________ Date: ____________________________

** MN DOT spec 3601. No limestone rip rap allowed.