MEETING DATE: September 22, 2014
AGENDA NUMBER: 5
ITEM: Forwarding Comprehensive Plan Amendment Addressing County Ditch 17 to BWSR

POLICY IMPACT: Policy
FISCAL IMPACT: Budgeted

REQUEST
Commence Comprehensive Plan amendment process

BACKGROUND
On August 11, 2014 the Board of Managers clarified the alignment and extent of County Ditch 17 in Blaine and directed staff to prepare an amendment to the Coon Creek Watershed District’s watershed management plan to reflect the terminus of Anoka County Public Ditch No. 17 south of 97th Avenue.

The District would be amending Appendix B: Resource Assessment, Section 6: Stream Flow; the first part (Current Plan) by inserting a table and map. A copy of that amendment is attached.

Comprehensive Plan amendments are governed by Minnesota Rule 8410.0140. Two options exist for proceeding

OPTIONS
1. General plan amendment
2. Minor Plan Amendment

Minor plan amendments include items such as:
1. Recodification of the plan
2. Revision of a procedure meant to streamline administration of the plan
3. Clarification of the intent of a policy
4. The inclusion of additional data not requiring interpretation
5. Any other action that will not adversely affect a local unit of government or diminish a water management organization's ability to achieve its plan's goals or implementation program.

Staff concludes that the clarification of the scope of County Ditch 17 through the general tabulation and revision of the map showing public ditches meets the fourth criteria for a minor plan amendment
ISSUES/CONCERNS

Process and Timeline:

<table>
<thead>
<tr>
<th>Task</th>
<th>Days</th>
<th>Start</th>
<th>End</th>
<th>Staff Hrs</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agency review &amp; concurrence</td>
<td>45</td>
<td>23-Sep</td>
<td>7-Nov</td>
<td>6</td>
<td>450</td>
</tr>
<tr>
<td>Public Notice</td>
<td>14</td>
<td>31-Oct</td>
<td>7-Nov</td>
<td>1</td>
<td>675</td>
</tr>
<tr>
<td>Public Meeting to explain</td>
<td></td>
<td></td>
<td>10-Nov</td>
<td>1</td>
<td>75</td>
</tr>
<tr>
<td>Consider Comments</td>
<td>11-Nov</td>
<td>13-Nov</td>
<td>4</td>
<td>300</td>
<td></td>
</tr>
<tr>
<td>Distribute corrections</td>
<td>14-Nov</td>
<td>15-Nov</td>
<td>2</td>
<td>150</td>
<td></td>
</tr>
</tbody>
</table>

14 $ 1,650

RECOMMENDATION
Direct staff to:
1. Distribute the revised portions of Appendix B: Resource Assessment, Section 6: Stream Flow; the first part (Current Plan) to BWSR and the other State Agencies
2. Prepare for a public review at the Board’s November 10 meeting, provided that no significant issues are raised.
Stream Flow
Current Plan

The Coon Creek Watershed District contains the following flowages and conveyance systems:

<table>
<thead>
<tr>
<th>Component</th>
<th>Systems</th>
<th>Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Ditches</td>
<td>20</td>
<td>134</td>
</tr>
<tr>
<td>Other Public and Private Ditches, Swales and Channels</td>
<td>844</td>
<td>173</td>
</tr>
<tr>
<td>Municipal Storm Sewer Systems</td>
<td>7</td>
<td>384</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>871</strong></td>
<td><strong>690.4</strong></td>
</tr>
</tbody>
</table>

In 2009 the Coon Creek Watershed updated the hydrologic modeling for the watershed using XPSWMM (Wenck & Assoc, 2009).

These studies focused on determining:
- Peak Flows
Stream Flow

- Runoff Volumes
- Peak Flow Times
- Runoff Hydrographs

Stream flow in the watershed is composed of ground and surface water (USGS 1985, Lord 1993, Moering 1993).

The National Flood Insurance Program sponsored flood insurance studies for the communities of Andover, Blaine, Coon Rapids, Ham Lake and the unincorporated areas of Anoka County, including what is now the City of Columbus.

Crest gauges are, or have been, in operation at various points along the main stem of Coon Creek and major tributaries since 1979.

Plan Updates

The XPSWMM model is an event based model that uses the NRCS Curve Number method to model the dynamic, unsteady flow of the watershed to account for the effects of storage and backwater in conduits and floodplains and the timing involved at a variety of geographic scales.

The model and the data contain results for the 2-, 10-, 25- and 100-year, 24-hour storm events.

Trends in Stream Flow

<table>
<thead>
<tr>
<th>Effect of one inch Precipitation</th>
<th>Year</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>1985</td>
<td></td>
<td>does not produce significant runoff</td>
</tr>
<tr>
<td>1999</td>
<td></td>
<td>needs to be managed either through infiltration or rate control</td>
</tr>
<tr>
<td>2009</td>
<td></td>
<td>Water levels increase substantially</td>
</tr>
</tbody>
</table>

These observations derive from approximately the same locations within the watershed and reflect two important changes and conditions within the watershed:

- Urbanization
- Stormwater Strategy

(Anoka County Water Atlases, ACD)