

**MEETING DATE:** June 11, 2015

**TITLE:** Authorization to contract with Wenck Associates to conduct Mud Lake Subwatershed Assessment

**RESOLUTION NUMBER:** 15-XXX

**PREPARED BY:** Becky Christopher

**E-MAIL:** bchristopher@minnehahacreek.org

**TELEPHONE:** 952-641-4512

**REVIEWED BY:**  Administrator  Counsel  Program Mgr. (Name): \_\_\_\_\_  
 Board Committee  Engineer  Other

**WORKSHOP ACTION:**

<input checked="" type="checkbox"/> Advance to Board mtg. Consent Agenda.	<input type="checkbox"/> Advance to Board meeting for discussion prior to action.
<input type="checkbox"/> Refer to a future workshop (date): _____	<input type="checkbox"/> Refer to taskforce or committee (date): _____
<input type="checkbox"/> Return to staff for additional work.	<input type="checkbox"/> No further action requested.
<input type="checkbox"/> Other (specify): _____	

**PURPOSE or ACTION REQUESTED:**

Authorization to contract with Wenck Associates, Inc. to conduct the Mud Lake Subwatershed Assessment in an amount not to exceed \$49,960

**PROJECT/PROGRAM LOCATION:**

Northwest drainage area to Mud Lake (see attached map)

**PROJECT TIMELINE:**

- January 2015 - BWSR grant awarded
- April 2015 - Execution of grant agreement
- June 2015 - Begin subwatershed assessment
- June 2016 - Complete assessment and final report

**PROJECT/PROGRAM COST:**

Fund name and number: Turbid-Lundsten/Six Mile Creek, 3139  
 Current budget: \$423,886  
 Expenditures to date: \$45,341  
 Requested amount of funding: \$0 (grant match of \$10,000 approved on April 9, 2015, per Resolution 15-034)

**PAST BOARD ACTIONS:**

Sept. 25, 2014 - Resolution 14-080, Authorization to apply for BWSR Clean Water Fund Competitive Grants  
 April 9, 2015 – Resolution 15-034, Authorization to Execute Grant Agreement for Mud Lake Subwatershed Assessment

**SUMMARY:**

In January 2015, the District was awarded an Accelerated Implementation Grant from the Board of Water and Soil Resources (BWSR) in the amount of \$39,968 for the Mud Lake Drainage Assessment. This is a subcategory of the Clean Water Fund Competitive Grant Program that is intended for upfront project identification, planning, and design.

The subject of this assessment is the drainage area to the northwest of Mud Lake that includes much of the City of St. Bonifacius as well as surrounding wetlands that extend into Minnetrista and Watertown Township. Modeling conducted for the 2013 Six Mile Creek Diagnostic Study identified this drainage area as a likely source of high nutrient loading to Mud Lake and ultimately Halsted's Bay. Additional water quality data collected over the past two years has corroborated this finding. In addition, the District was approached by the City of St. Bonifacius in the fall of 2014 with concerns about flooding and erosion problems occurring along the channel that flows through the city. This assessment will aim to identify solutions that address both the significant nutrient loads contributed by this drainage area and the flooding and erosion issues experienced by the City.

In April 2015, the MCWD Board authorized execution of the grant agreement and the expenditure of up to \$10,000 for the required grant match. Staff is ready to proceed with the assessment and recommends that the District contract with Wenck Associates, Inc. to complete the work. Wenck Associates, Inc. conducted the 2013 Six Mile Creek Diagnostic Study and subsequent water quality monitoring in the Mud Lake Subwatershed and therefore has considerable knowledge of the study area. This knowledge will allow them to complete the assessment in a cost-effective manner and incorporate the findings and recommendations into the broader context of the Diagnostic Study.

**ATTACHMENTS:**

Map of study area  
Wenck proposal

**RESOLUTION**

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**RESOLUTION NUMBER:**    15-XXX

**TITLE:**            **Authorization to contract with Wenck Associates to conduct Mud Lake Subwatershed Assessment**

WHEREAS, the Minnehaha Creek Watershed District (MCWD) Board of Managers has identified the Six Mile Creek subwatershed a priority focal area for project and program implementation; and

WHEREAS, the 2013 Six Mile Creek Diagnostic Study and subsequent water quality monitoring identified a significant drainage to the northwest of Mud Lake, including much of the City of St. Bonifacius and surrounding wetlands extending into Minnetrista and Watertown Township, as being a source of high nutrient loading to Mud Lake and ultimately Halsted's Bay; and

WHEREAS, the District was approached by the City of St. Bonifacius in the fall of 2014 with concerns regarding flooding and erosion occurring along the channel flowing through the city; and

WHEREAS, in September 2014, the MCWD Board of Managers authorized the pursuit of Clean Water Legacy grant funding to perform analysis and planning within this drainage area to identify solutions that address both the significant nutrient loads contributed by this drainage area and the flooding and erosion problems experienced by the city; and

WHEREAS, in January 2015, the MCWD was awarded an Accelerated Implementation Grant from the Board of Water and Soil Resources (BWSR) in the amount of \$39,968 for the Mud Lake Drainage Assessment; and

WHEREAS, in April 2015, the MCWD Board authorized execution of the grant agreement and the expenditure of up to \$10,000 for the required grant match; and

WHEREAS, Wenck Associates, Inc. conducted the Six Mile Creek Diagnostic Study and subsequent water quality monitoring in the Mud Lake Subwatershed and has considerable knowledge of the study area; and

WHEREAS, internal Governance Policy #6 provides for a competitive process when purchasing any professional service in excess of \$25,000, but staff recommends, and the Board finds, that it is appropriate to deviate from that policy in light of Wenck's unique knowledge of the Six Mile Creek Subwatershed which makes Wenck uniquely qualified to conduct this assessment in a cost-effective manner and incorporate the findings and recommendations into the broader context of the Diagnostic Study;

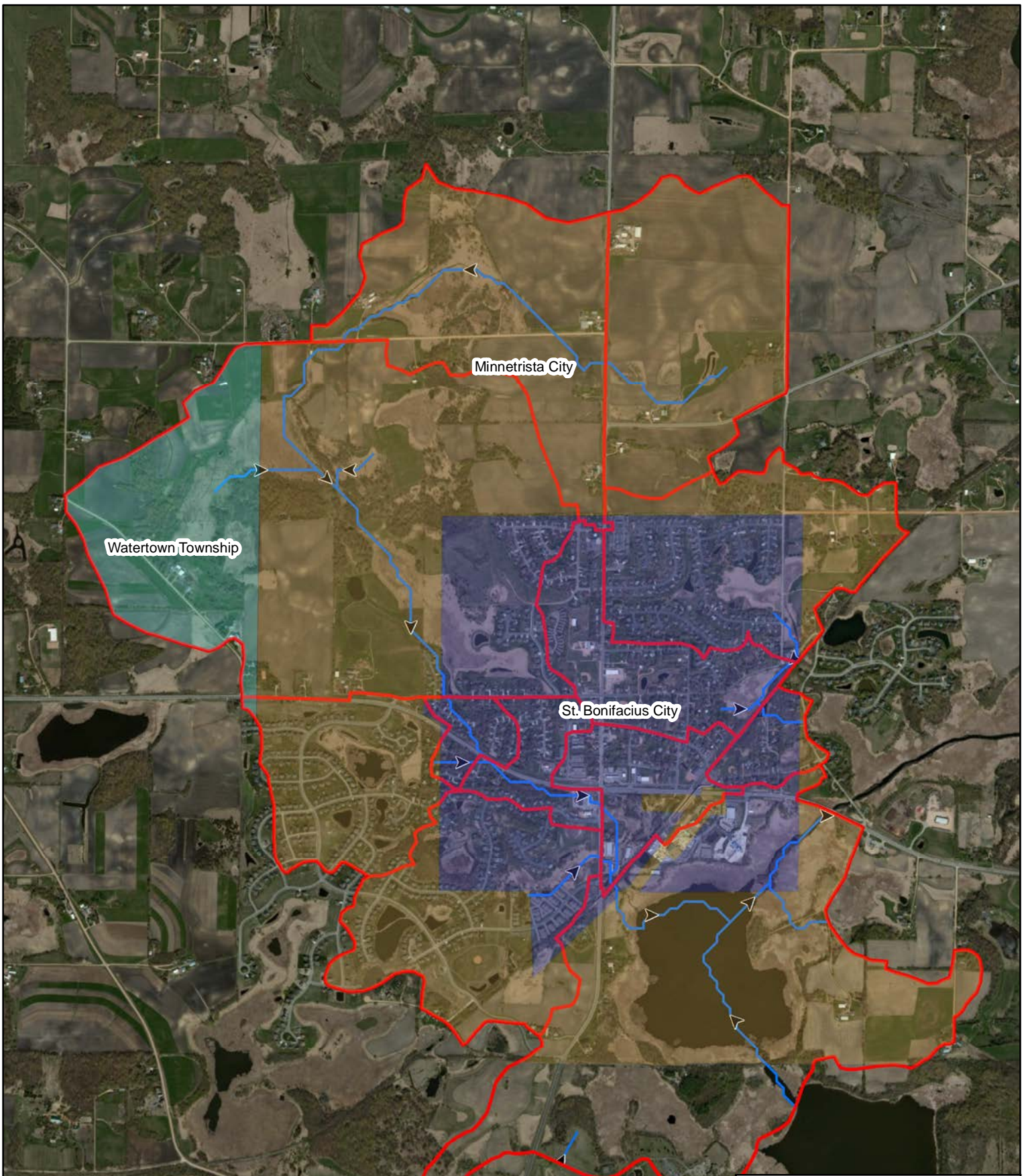
NOW, THEREFORE, BE IT RESOLVED, that the Minnehaha Creek Watershed Board of Managers hereby authorizes the District Administrator, on advice of counsel, to execute a contract with Wenck Associates, Inc. in an amount not to exceed \$49,960 to conduct the Mud Lake Subwatershed Assessment.

Resolution Number 15-XXX was moved by Manager \_\_\_\_\_, seconded by Manager \_\_\_\_\_.  
Motion to adopt the resolution \_\_\_ ayes, \_\_\_ nays, \_\_\_ abstentions. Date: \_\_\_\_\_.

\_\_\_\_\_  
Secretary

**DRAFT for discussion purposes only and subject to Board approval and the availability of funds.  
Resolutions are not final until approved by the Board and signed by the Board Secretary.**





Minnetrista City


Watertown Township

St. Bonifacius City

**Legend**

- Minnetrista
- St. Bonifacius
- Watertown
- Six Mile Creek Subwatersheds
- Flow Direction

Aerial Photograph (Source: Bing Maps)



**Wenck**

3,000 1,500 0 3,000 Feet

Path: C:\Users\BecBF0529\Desktop\MCWD Proposal\Municipality and Subwatersheds.mxd  
 Date: 9/25/2014 Time: 4:00:51 PM User: BecBF0529

Proposed Tasks, Hours, Personnel and Costs to Complete the Mud Lake Subwatershed Assessment  
 Wenck Associates, Inc.

Task	Description	Joe B. 160	Bryce 160
1	Evaluate current information regarding stormwater infrastructure in the priority subwatershed including stormsewer, channel, and pond information.	4	4
2	Fill data gaps to the maximum extent possible using field surveys and as built information.		8
3	A current conditions model will be developed for the watershed at a refined scale based on the identified stormwater BMPs already in the watershed. The current EPA-SWMM and P8 models constructed for the watershed will be updated with the newly delineated watersheds as well as new flow and water quality data collected by the District. The model and water quality data will be used to quantify existing loading from the watershed.	4	16
4	Using the developed model, potential future stormwater management practices will be identified, preliminarily sized for cost, and nutrient reductions quantified.	8	16
5	A list of projects and locations will be developed including their relative costs (pounds removed per dollar).	2	2
6	A final report will be developed that includes the methods used in the analysis, results of the modeling, stormwater management BMP locations, costs and P-removal efficiencies and recommended actions.	32	32

Assessment

Kirby	Brian	Cost
110	110	
16		\$ 3,040
40		\$ 5,680
100	24	\$ 16,840
40	8	\$ 9,120
24		\$ 3,280
8	8	\$ 12,000
TOTAL		\$ 49,960