



**Natural Resources and Groundwater Committee (NRGC) Meeting
Tuesday, April 2, 2019
5:30 PM**

Agenda

1. Call to order
2. Oath of Office – Valerie Stoehr
3. Roll call: Bake Baker, Mark Have, Keith Hoffmann, David Husebye, Valerie Stoehr
4. Approval of Agenda
5. Approval of Minutes of the March 5, 2019 Meeting
6. Old Business
 - A. Well testing for Nitrates for 2018 and prior
 - B. Well testing for Nitrates and coliforms 2019
 - C. Perflourochemicals (PFC) update
 - D. List of reference items for NRGC
 - E. NRGC Management Organization update
 - 1) Washington Conservation District
 - 2) South Washington County Watershed District
 - 3) Middle St. Croix Water Management Organization
 - 4) Valley Branch Watershed District
 - 5) Washington County Water Consortium
 - F. Update on CC and PC Business—Council Member Palmquist
 - G. Additional agenda items proposed by members
6. New Business
7. Next Meeting Date May 7, 2019
8. Adjourn

NRGC Meeting Minutes
Tuesday March 5, 2019
6:00 PM

1. **Call to Order:** Dave Husebye called the meeting to order at 6:05 pm.
2. **Roll Call:** In attendance were Dave Husebye, Mark Have, and Bake Baker. Keith Hoffmann had an excused absence. Bill Palmquist was in attendance representing the City Council.
3. **Approval of Agenda:** Bake made a motion to accept the agenda, Dave seconded, and the motion passed 3 to 0.
4. **Approval of Minutes:** Bake made a motion to approve the 2 January 2019 minutes, Mark seconded, and they were approved 3 to 0.
5. **Business:**
 - A. **Well testing for Nitrates for 2018 and prior:** Bake is going to talk to professors at St. Olaf and see if there might be a student who would be interested in analyzing nitrate data. Also, Dave will talk to Julie Y. about any possible way that we can get this analysis done.
 - B. **Well testing for nitrates and coliforms 2019:** Mark will prepare an announcement detailing the testing for the April Newsletter. The testing is planned for June 11 and 18.
 - C. **Perflourochemicals (PFC's) update:** Bill Palmquist said that some cities are beginning to advocate for the treatment of ground water that has been contaminated with PFC's.
 - D. **List of reference items for NRG:** Materials that are helpful for committee members are scattered throughout the city's web site. Dave is exploring ways of consolidating and making copies for committee members.
 - E. **NRGC management organization update:** Dave reported that the Washington Conservation District has awarded grants to two Afton residents for eradicating invasive plants.
 - F. **Update on City Council and Planning Commission business:** The need for an updated zoning map was discussed. Bake will check and see if there is an updated zoning map available from the company that produced the one currently used. Reps from the Valley Branch Watershed District will present an overview to the council; overview will cover what has been done by the VBWD in 2018. The Planning Commission is investigating the application of pervious materials for possible use in future developments.
6. Dave moved that the meeting be adjourned, Mark seconded, and with a 3 to 0 approval, the meeting was adjourned at 7: 05 p.m. The next meeting will be April 2 at 5:30 pm.
Minutes taken by Mark Have, acting secretary.

REFERENCE MATERIALS

City Website:

Left tab: [Comprehensive Plan](#) (from 2008) includes:

- The 2008 Comprehensive Plan
 - Environmental Resources Plan (pages 15-20 of Comp Plan)
 - Surface Water Management Plan, Jan 2011 (Appendix G, pages 73-92 of Comp Plan)
 - Resource Maps (Appendix I, pages 101-113 of Comp Plan)
 - Afton Flora and Fauna (Appendix K of Comp Plan, pages 123-124)
- Natural Resources Inventory (6/18/2001 by Emmons and Olivier Resources)
- Water Resources Evaluation (6/18/2001 by Emmons and Olivier Resources)
- 2007 Community Survey
- Thrive MSP 2040

Left tab: [Watershed Districts](#)

Brief (? outdated) description with no maps

Top tab: [City Commissions and Committees / Natural Resources and Groundwater Committee / Reference Materials](#)

- 2018 PFC Information
- 2017 Mayor's Letter
- 2016 Well Monitoring Report

Top tab: [City Commissions and Committees / Park Committee / Reference Materials](#)

- Natural Resources Inventory (6/18/2001 by Emmons and Oliver Resources)
- Water Resources Evaluation (6/18/2001 by Emmons and Oliver Resources)
- Washington County Groundwater Plan 2014-2024

Top tab [Code of Ordinances](#)

- Chapter 10 – Environment
- Chapter 12 – Land Use

NRGC Review Worksheet developed by NRCG 2017-2018 (for future developments / proposals)

Lower St Croix Riverway, Best Practices for Zoning Application (from Keith)

NRGC Statement (from City website under City Commissions and Committees Tab on top)

New comprehensive plan is being worked on

EAW Afton Alps Trout Brook Stream Restoration

July 2013 Version for South Washington Water District

<https://www.swwdmn.org/eaw-afton-alps-trout-brook-stream-restoration/>

Trout Brook management Plan

5/14/2009 by Emmons and Oliver Resources Inc. for LSCWMO

<http://www.swwdmn.org/pdf/watershedplan/Library/Trout%20Brook%20Mgmt%20Plan.pdf>

Valley Branch Watershed District Total Maximum Daily Load

February 2016 by MPCA et al

<https://www.pca.state.mn.us/sites/default/files/wq-iw6-12e.pdf>

Kelle's Creek Watershed Management Plan

2015 by Barr Engineering (this is Section 5.37 of source below)

http://www.vbwd.org/watershed_management_plan_2015-2025/docs/2015-2025%20Watershed%20Management%20Plan/Subwatershed%20Management%20Plans/Section5_37.pdf

2015-2025 Watershed Management Plan of Valley Branch Watershed District

http://www.vbwd.org/watershed_management_plan_2015-2025/index.php

Includes extensive information on all watersheds with maps and index for easy review.

Lower St. Croix Water Management Organization 2005 Plan

2/17/2009 by Emmons and Olivier

http://www.swwdmn.org/wp-content/uploads/2016/03/LSCWMO_2005_Plan.pdf

NRGC Management Organizations

taken from prior NRG handout, but the websites do not all work / connect

Valley Branch Watershed District www.vbwd.org

Middle St. Croix Management Organization www.mscwmo.org

South Washington Watershed District www.swwdmn.org

Washington County Water Consortium www.co.washington.mn.us search for water consortium

Washington Conservation District www.mnwcd.org

St. Croix River Association www.stcroixriverassociation.org

Great Rivers Confluence www.greatriversconfluence.org

Lower St. Croix Partnership Team
www.dnr.state.mn.us/waters/watermanagement_section/wild_scenic

Afton City Zoning map (2010)	City of Afton website => Homepage	City of Afton Documents	
Afton Parks and Open Space Map (2010)	City of Afton website => Homepage	City of Afton Documents	
Afton Topography & Steep Slopes Map (2010)	City of Afton website => Homepage	City of Afton Documents	
Afton--Current Land Use	City of Afton website => Homepage	Comprehensive Plan Tab	2008 Comprehensive Plan, page 107
Afton--Future Land Use	City of Afton website => Homepage	Comprehensive Plan Tab	2008 Comprehensive Plan, page 110
South Washington Watershed District (SWWD) Map	City of Afton website => Commissions & Committees	Parks Committee => Reference Documents	SWWD Draft 2016 Watershed Management Plan, page 9
Washington County Watershed Boundaries	Washington County website =>Map Products	Map Products => Watershed Districts	
Washington County Watershed Boundaries	City of Afton website => Commissions and Committees	Parks Committee => Reference Documents	Washington County Groundwater Plan--Draft 2014-2024, page 92
Landscape of Afton--Surface Geology	City of Afton website => Commissions and Committees	Parks Committee => Reference Documents	Natural Resources Inventory, Section III, page 9
Landscape of Afton--Presettlement vegetation	City of Afton website => Commissions and Committees	Parks Committee => Reference Documents	Natural Resources Inventory, Section III, page 10
Watersheds in Afton	City of Afton website => Commissions and Committees	Parks Committee => Reference Documents	Water Resources Evaluation, Section IV Figures 1-3, page 1
Fahlstrom Pond watershed	Valley Branch Watershed District website (www.vbwd.org)	Home Page => 2015-2025 Watershed Management Plan	Section 5.18
Valley Creek Watershed	Valley Branch Watershed District website (www.vbwd.org)	Home Page => 2015-2025 Watershed Management Plan	Section 5.20
Lake Edith watershed	Valley Branch Watershed District website (www.vbwd.org)	Home Page => 2015-2025 Watershed Management Plan	Section 5.19
Swede Hill Creek Watershed	Valley Branch Watershed District website (www.vbwd.org)	Home Page => 2015-2025 Watershed Management Plan	Section 5.38
Kelle's Creek Watershed	Valley Branch Watershed District website (www.vbwd.org)	Home Page => 2015-2025 Watershed Management Plan	Section 5.37
Trout Brook	South Washington Watershed District website (www.swwd.org)	http://www.swwdmn.org/pdf/watershedplan/Library/Trout%20Brook%20Mgmt%20Plan.pdf	
Washington County Geographic Maps	City of Afton website => Commissions and Committees	Parks Committee => Reference Documents	Washington County Groundwater Plan--Draft 2014-2024, page 92-121
Bedrock Sensativity			page 94
Water Table Sensitivity			page 95
Bedrock Geology			page 97
Quaternary (Surface) Geology			page 99
Recharge / Discharges			page 102
Groundwater Flow Table Aquifer			page 103
Groundwater Flow by Aquifer			page 104-108