

**Barbours Creek, Craig Creek, Catawba Creek, Lapsley Run, Little Patterson Creek, Sinking Creek and  
James River Total Maximum Daily Load  
Technical Advisory Committee #2**

**April 17, 2018, 3:00 p.m. – 4:30 p.m.  
Roanoke Cement Company**

**Technical Advisory Committee Participants:**

Lucy Baker, James Moneymaker – Virginia Department of Environmental Quality (DEQ); David Flores- Resident; Lindsey Layman- Roanoke Cement Company; Tim Miller- Mountain Castles SWCD; Karen Kline- VT Biological Systems Engineering ; Philip Lochburn- Resident; Genevieve Goss; Lance Clark- RCC

Lucy Baker began the meeting with an overview of the project and explanation of the TMDL process. Lucy discussed what has occurred to date as the project nears completion. A final public meeting is anticipated in June 2018. Karen Kline with Virginia Tech Biological Systems Engineering explained the modeling process. The group reviewed the tables in the handout received at the meeting. Karen discussed the updates for housing information, livestock, and wildlife based on input from the previous TAC meeting. A new segment on Craig Creek was listed as impaired in DEQ's 2016 Integrated Report (Approved 6 March 2018) and will be included in this TMDL report. The new segment included is from Wilson's Branch to the Craig Creek confluence with the James River.

**Question:** How did DEQ determine that sediment was the most probable stressor with regard to the benthic impairment?

**Answer:** DEQ evaluated the monitoring data available in Catawba Creek and used a weight-of-evidence approach to categorize potential stressors into "non-stressors", "possible stressors", or "probable stressors" categories. Available monitoring data included: water chemistry measurements (DO, pH, specific conductivity, Temperature), nutrients, metals, toxins, and habitat measurements. Catawba Creek is only slightly impaired so there was no clear stressor; however, total habitat scores and biologists observations led DEQ to the conclusion that excess sediment was the most likely stressor. Stressor Analysis is available on [DEQ website](#). Comments will still be accepted.

The group discussed several questions regarding TMDL implementation planning and best management practices.

**Comment:** One participant suggested the number of beef cattle is possibly underestimated in Catawba Creek. Another participant suggested DEQ check with the local Botetourt County Cattlemen's Association. Karen mentioned that numbers from local Cattlemen's Association would be comparable with information received from USDA Agricultural Statistical Service. DEQ and BSE will increase the number of cattle estimated for Catawba Creek.

Lucy asked the group's opinion regarding the number of meetings for the final public meeting. Two meetings are preferable to the TAC. One person suggested posting meeting information at local churches. The Eagle Rock Public Library worked well. DEQ would also like to find a meeting space in New Castle. One participant suggested having a farmer present the benefits of livestock exclusion and discuss success stories.

