

**Barr Lake/Milton Reservoir Watershed Association
 Technical Committee Meeting
 Thursday, July 27th, 2017 (9:00am – 11:00pm)
 Metro Wastewater Reclamation District, Denver**

Draft MINUTES

In attendance:

Steve Lundt – Metro Wastewater
 Linda Chynoweth – Aurora (phone)
 Elaine Hassinger – Tri-County Health

Guests:

Amy Conklin - Coordinator

Steve welcomed everyone and started with introductions.

Modeling Update –

Postpone until 2018/19 – Steve informed the group that the modeling effort was being postponed until the next fiscal year. The BMW Board wants to focus on the proposed stormwater monitoring station at the Burlington Headgate (BH).

Denver Water (DW) Load Estimate from Corrosion Prevention Program

Steve reported that he, Laurie Rink, Dan DeLaughter and Kelly DiNatalie had met to develop a set of questions for DW and used the answers to perform calculations on the potential load from DW using TP for corrosion prevention, shown in the table to the right. He clarified that LIRF is the acronym for Lawn Irrigation Return Flows. Based on the estimates DW provided, only 2% of LIRF makes it to the river. Steve used that number to develop the table at the right. Even the lowest load shown in the table TP (50%) is significant in the Allocation Strategy adopted in the TMDL where loads of 7, 9 or 10 kg/yr are shown for Lochbuie WWTP, Centennial WWTP, and Hudson WWTP, respectively.

LIRF flows @ BHG	TP (100%)	TP (50%)	TP load	TP load
cfs	mg/L as P	mg/L as P	kg/yr	kg/yr
0.02	0.9786	0.4893	17.5	8.7
1	0.9786	0.4893	873.4	436.7
10	0.9786	0.4893	8,733.7	4,366.8
20	0.9786	0.4893	17,467.4	8,733.7
30	0.9786	0.4893	26,201.1	13,100.5
34	0.9786	0.4893	29,694.6	14,847.3
40	0.9786	0.4893	34,934.8	17,467.4
50	0.9786	0.4893	43,668.5	21,834.2

Currently there is no way to measure the flows between the Denver gage, at the confluence of Cherry Creek and the South Platte River, and the BH. Therefore the loading calculations are almost impossible to develop. **Steve, Kelly, Laurie and Dan** will work to develop costs to BMW to remove the TP introduced by DW through the Corrosion Prevention Program. Even if DW uses a different treatment method, other drinking water plants may use TP to prevent corrosion. The issue may be used to support activities to ban TP in lawn fertilizers.

Storm Water Updates

Steve reported that there were several entities represented at the meeting from Denver, Aurora and UDFCD. Denver said they were not interested in helping install or maintain the proposed station at the BH. It was made it clear that the station would go in anyway. At this point, there is not an expectation for Denver to participate.

GEI proposal for installation and monitoring – They sent a proposal for \$30,000. Annual O&M would be \$7,500. Shelley asked about whether or not costs for a dedicated phone line are included. The proposal calls for Metro to provide access to the Right of Way (ROW) and to act as a general contractor for construction of the station. **Steve** will check to see if Metro is willing to act in this capacity. FRICO probably owns the ROW. **Laurie** Rink will need to check with FRICO to see who owns the ROW and how it can be accessed.

A next step is to meet with FRICO and determine exact location, access and utilities already installed. Steve is also talking to Thornton staff about participating. Steve wants to keep the process moving and asked **Amy** to work on setting up a meeting at the BH with FRICO, Thornton, UDFCD GEI, and others. There is a TMDL for e coli on Segment 14 but we would only be looking at P and N. **Amy** will add the issue of setting up a meeting to the August Board Agenda. **Amy** will draft a message to the participants for Steve and Laurie to review. The participant list should include: James Boswell, Holly Piza, Jim McQuarrie, Steve Lundt, Blair Wisdom, Scott Edgar, Laurie Rink, Jon Novick, Al Polonsky, Darren Mollendor, and Craig Wolf and should be called a kick off meeting. Those who can attend can meet at Metro and drive to BH. BMW can provide refreshments. The meeting should coincide with the August BMW Board meeting if possible.

Storm Drain App – working with a group of students from the Justina Ford STEM Institute, Steve, Amy and some other volunteers marked over 100 storm drains in the Cole Neighborhood. Denver claims that 90% of their storm drains are marked but all the drains we found needed to be remarked. We marked drains in residential and industrial sites and along busy arterials. The exercise was a very effective learning tool. We took the group to Globeville landing on first day to show them where the storm water ends up. On Thursday, the last day, Steve took them to Barr Lake. Each day 2 to 8 students participated. The effort focused on Cole Neighborhood because it is directly impacted by Park to Platte Hill project.

NDCC project Updates – Steve has been attending a number of meetings related to the North Denver Cornerstone Collaborative. The project claims to treat 90 to 100% of the stormwater entering the site. There are a number of BMPs included in the design to treat storm water before it gets to the stream. He set up a meeting with a consultant hired by Denver to handle questions about water quality related to the NDCC. Western Stock show complex work will be starting soon. Metro is working on designs for heat recovery from effluent as part of the Western Stock show re-development.

Items to keep track of in 2017

Steve has asked our intern to research any technical analyses of impacts of banning P from lawn fertilizers on water quality. Some states have had bans since 2002.

Next Meeting

Tech. Committee: September 28, 2017 - **Steve** will ask the Technical Committee to review the website to be sure all appropriate technical documents are posted there.

Steve reported that the frequency and intensity of algal blooms in Barr and Milton are getting smaller. There will always be some algae blooms but they are becoming less frequent and shorter lived. Yay, us!