



CHATFIELD WATERSHED AUTHORITY

Technical Review Committee and Budget Subcommittee Meeting Notes November 16, 2010

Member
ATTENDEES:

Martha Hahn (PCWA)	Warren Brown (Tri-County Health Department)
Kristi Livedalen (Dominion WSD)	Fred Bromberger (Littleton)
Tim Grotheer (Centennial Water & Sanitation District)	Andy Hough (Douglas County)
Kevin Urie (Denver Water)	

OTHER ATTENDEES:

- Julie Vlier (CWA Manager)
- Karlie Mark (CWA Management Team)

Call to Order: Martha Hahn called the meeting to order at 2:00 p.m.

Approval of August 19, 2010 meeting minutes. The TRC approved meeting minutes from August 19th. The vote was unanimous.

Technical Review Committee –

2010 Water Quality Data and Analyses – Julie Vlier provided a summary of the 2010 water quality data and graphical analyses provided in the packet. The discussion revolved around the next steps the Authority should take regarding Chatfield water quality. There is sufficient data to indicate the September 9th total phosphorus reading of 1100 µg/L is an outlier. Andy Hough suggested that if budget allows, that the 2011 sampling be increased to every week during the growing season to better identify indicators and better metrics on the reservoir and what is happening in Chatfield Reservoir from a water quality standpoint. The only deterrent regarding additional sampling is cost. Martha Hahn thought it would be valuable to look at the rainfall data, however that data has been difficult to obtain. Kevin Urie said that Denver Water takes rainfall data and that Centennial and Castle Rock have stations that could be used.

After much discussion, the TRC decided it would be best to request proposals from several limnologists in the area. Kevin Urie brought up the fact that three reservoirs have exceeded their phosphorus and chlorophyll-a standards and it appears something environmental is going on in the area. The Authority could possibly have the selected limnologist look at Chatfield's data along with the other reservoirs. Andy Hough suggested even partnering with some of the other agencies such as Cherry Creek who exceeded their standard this year even with their new aeration system.

TRC Recommendation to the Board: The TRC has three recommendations for the Board. The first recommendation is for Julie Vlier and Kevin Urie to meet with Denver Water to go through monitoring, questions, changes in sampling, and discuss opportunities to refine or improve the program. The second recommendation is to evaluate additional sampling during the growing season. The third recommendation is to send a request for proposals to two-three limnologists with an estimated level of effort not to exceed \$10,000 for evaluation of Chatfield's water quality data. The Board will then select a limnologist based on their proposed scope of services and budget.

Bell Mountain Ranch Phosphorus Update - Due to time constraints, no updates were provided.

2011 Grants to Pursue – The Management has developed a matrix of grants to pursue in 2011. Andy Hough talked about how Douglas County is very active with NRCS. It would be a good idea for the Authority to leverage money for Douglas County to work with the NRCS on projects to improve water quality. Funding sources were discussed further in the ISDS Water Quality Special Study below. Because watersheds are so complex and there are several different contributors to nutrient loading it would be most beneficial to get the watershed grant approved.

Chatfield Watershed Plan - Section 319 Watershed Plan Grant – A draft of the grant application was included in the packet. Comments on the grant proposal should be directed to Julie. The submittal application goes to the Nonpoint Source Task Force on December 15, 2010.

ISDS Water Quality Special Study – Warren Brown, Tri-County Health Department, provided an update on other water quality studies that have been developed on ISDS pollutant impacts to watersheds. To accurately address the sources of nutrient loading in the watershed, additional data needs to be collected. A possible valuable source is the data that Tri-County is already collecting. It may be in the Authorities best interest to put together a monitoring model that would look at the different sources of nutrients in the watershed such as ISDS, animals, alluvial ground water, sediment loading etc. These results combined with the data, could provide the Authority with scientific evidence of the nutrient sources. Warren Brown suggested inviting Kathryn Lowe to a subsequent TRC meeting to discuss ISDS issues and models.

Other potential projects discussed by the TRC included manure management, a centralized wastewater treatment plant for Sedalia and Louviers, and vegetation management as a cost effective means of reducing the impact of nutrients to the reservoir. The TRC also discussed implementing effective BMPs in the watershed and partnering with NRCS on these projects.

Porous Pavement Demonstration Project – Kevin Urie informed the group that Denver Water has applied porous pavement. They have not received any results or data of the effectiveness of porous pavement, but will let the Authority know if he receives that information. However, if sediment load is being reduced then nutrients will automatically be reduced and therefore the Authority should continue to pursue this as an option.

East Plum Creek Restoration Project – Due to time constraints, discussion on this item did not take place.

Animal and Stable Management Project(s) – Due to time constraints, discussion on this item did not take place.

Colorado Mini Grant at Chatfield Arboretum – Due to time constraints, discussion on this item did not take place.

Other TRC Member Updates – Due to time constraints, no updates were provided.

Adjournment – The meeting was adjourned at 4:15 p.m. by acclamation.