

## **Barr Lake/Milton Reservoir Watershed**

Watershed Plan Committee

May 10, 2007

9:00 a.m. – noon

Metro Wastewater Reclamation District, Technical Services Building

Meeting Summary

### **In Attendance:**

Joni Nuttle – CDPHE WQCD  
Steve Lundt – Metro Wastewater  
Sharon Davis – Metro Wastewater  
Robin Reilley – DRCOG

### **Consultants/Guests:**

Alice Wood – Integral Consulting

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### **Meeting Objectives**

- **Review CDPHE comments**
- **Overview of section progress**
- **Figures and tables discussion**
- **Milestone/schedules check in**
- **Set upcoming meeting dates**

### **I. Opening**

- Alice Wood summarized the meeting agenda. Watershed Plan Committee (WPC) meeting minutes from 3-15-2007 were approved with no changes.
- Began the meeting with a discussion of ENSR subwatershed delineation maps and water flow diagrams.
  - This turned to a discussion of reservoir vs. watershed modeling order, in response to the memo submitted to the BMW by the CDPHE. Alice and Steve assured Joni that the State's concerns will be taken into account by the Technical Committee and Board when they meet to discuss the memo. Joni stressed the importance of coming up with a target water quality number for each reservoir, and pointed out that other groups have not been able to do that because they have spent too much resources on watershed modeling.
  - Alice mentioned that any changes to the current modeling plan will require revisiting the schedule presented in Section 4 of the Watershed Plan and on Figure 1-4.
  - In the Plan, the group may want to consider stressing the order of defining a number for each lake for the TMDL, and after that determining the waste load allocation, load allocation, and margin of safety.
  - The group noted that it is also important that the Plan look at future expected changes in the watershed and how modeling will be able to handle these future changes.

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## **II. Updates/Action Items**

- The group went over brief information/education updates: June 9 South Platte trash pick up at Metro; July 15 Lakes Appreciation Month events at Barr Lake.

## **III. EPA Watershed Plan Builder**

- Alice gave an overview of the newly released EPA Watershed Plan Builder tool. This is an online “interview” that provides a customized Watershed Plan outline. It is currently in a beta-testing stage. The group discussed whether it would be redundant to do this now, since the first version of the Plan has already been written. Sharon pointed out that the customized outline could help us to find any oversights in our original draft.
  - Steve volunteered to work through the online questions and look at the resulting outline. He will report on this at the next meeting.

## **IV. Section Progress Updates**

- Alice mentioned that she will not be able to leave the sections of the text on Integral’s FTP site. Instead, she will periodically send out all of the sections. The date in the file name will indicate the most recent revisions.
- Progress to date on the 2007 Plan updates includes:
  - Incorporating in Joni’s comments. These comments primarily affect sections 1 and 3.
  - Robin Reilley has also started updating section 3. Alice will contact Laurie to see if she found the Lakeline eutrophication article that might be used in section 3
    - The group discussed the need to make the science discussions in the Plan understandable to a non-technical audience.
  - Alice has also worked on section 1, primarily on updating text associated with describing adjacent watershed groups.
- The group discussed the idea that, with the 2007 Plan, they might include a comment sheet to the text of the Plan and to distribute when Plan presentations are given.

## **V. Figures and Tables**

- The group brainstormed ideas for new figures to include in the 2007 Plan. Alice mentioned that the figures in the 2006 Plan do a great job of providing information on the watershed. New figures in the 2007 update should focus on presenting data.
- Figure ideas, Lake-scale:
  - Lake bathymetry
    - FRICO has already developed these with CAD
    - ENSR will need these for modeling
  - Conceptual site diagrams
    - One for each lake

- Can use these to represent water balance, concentrations, and loads
- Simple map of each reservoir
  - Show inlets, outlets, sample stations
  - Could use existing Plan figure and zoom in on Barr and Milton
- Data plots
  - pH, chl a, P, TSS vs time
  - vertical profiles (DO, temperature)
  - seasonal data bar charts
  - Other parameters to show: stratification? Retention time?
- Can show time series of photos of each lake to show seasonal changes
- Steve has historical flow pattern charts
  
- Figure ideas, Watershed-scale:
  - Stream flows
  - Color-ranked dots on maps: P concentrations, pH
  - Sampling stations
    - Need to update figure in 2006 Plan
    - Water quality and flow
  - ENSR's modeling flow line diagram
  - ENSR's subwatersheds developed from flow line diagram (replace existing figure)
  - Bar chart: compare average flow/discharge of all WWTPs in the watershed
    - Can also show permitted discharge to discuss future expected growth
  
- Figure ideas, Regional-scale:
  - Reservoir comparison – use outline of all major reservoirs in the area, line them up side by side, use numbers and/or color scales to compare reservoir water quality
    - Chl a, pH, N, P, applicable standards/control regs
  
- Robin Reilley reported that, as of January, there is now new population and employment data. (Current, forecasted, and also Weld County data.)
  - Save for 2008 update?
  - Alice will be in touch with ENSR to see if they might need these updates this year.
- No major changes expected for WUSAs
- Urban growth boundary changes expected for 2008

## **VI. Other topics?**

- Alice Note: remember to highlight EPA's 9 elements with puzzle piece figures in the 2007 updates.
  
- Note: Alice will look into where to fit in text describing examples of what actions are being taken at other similar reservoirs. To some extent, this is now done in section 1.

- Upcoming meetings dates were selected: June 7, July 12, and August 2. All meetings will occur from 9:00 – noon at Metro unless otherwise indicated.

The meeting adjourned at approximately 11:00.