

Meeting Summary for the June 11, 2014 Model-Techno-Policy Workgroup:

Discussion Items

Scenarios and Updates

- Troy Smith (DEQ) – Briefly walked through a few subsequent model runs and results. One scenario of interest is replacing the dynamic depths in segments 8-10 with dynamic depths from segments 11-13. The change in modeled depths along with assigning TP for WWTFs @ 0.1 mg/L May through September and 0.3 mg/L the remainder of the year, and Ground Water and Tributaries @ 0.07 mg/L year-round appears to meet the mean 150 mg/m² periphyton target in every month and segment during the model period.
 - Lee Van de Bogart (Caldwell) – flow is probably a critical factor in the LBR near Caldwell, and the lack of flushing flows in this managed system may be largely responsible for more abundant periphyton
 - Further analyses is certainly needed, including comparing depth data obtained during the 2013 DEQ monitoring, and other sensitivity analyses. More to come...
- Darcy Sharp (DEQ) – is working on the project in limited capacity until July 1, at which point she will lead the modeling analyses for DEQ.
- Michael Kasch (HDR) met with Troy and Darcy on June 10 to share the flow balance spreadsheets he developed for 1987-2012, using the same flow balance procedure that was documented for the model calibration. Darcy will consider using the long-term flow data as part of her subsequent analyses.
- DEQ is currently working to secure \$5,000 to help pay for additional assistance from Dick Park (Eco Modeling) and Jonathan Clough (Warren Pinnacle Consulting) during the process of developing allocation scenarios.

Appropriate organic component reductions associated with TP reductions

- Darcy – presented a draft memo that will be sent out to the workgroup and other WWTFs in the valley, requesting estimates of current and future organic component reductions from the facilities associated with TP reduction scenarios.
 - The group entertained considerable discussion about this topic, including how to appropriately reduce TP in the model for point sources and tributaries. More work is needed, probably requiring insight from Dick and Jonathan, regarding how to appropriately model TP reductions in the model.
 - Tom Dupuis (HDR) and Kate Harris (Boise) to investigate how the TP reductions were conducted in the previous LBR AQUATOX model effort.
 - Erica Anderson-Maguire (ACHD) – wants to be sure scenarios are evaluated with groundwater > 0.07 mg/L

Conversation on trading related to the TP allocation process

- Tom – discussed potential implications for trading given the potential for nonpoint allocations to be at 0.07 mg/L
- Alex Johnson (Freshwater Trust) stated that in Oregon, the baseline for trading (shade/temperature) doesn't necessarily correspond directly to the nonpoint allocations or TMDL baseline – these details can be best addressed in the subsequent trading framework
- Troy reiterated that the DEQ's objective is to first complete the TMDL and then work on the trading framework. The trading framework could have broader implications outside of the LBR,

and the trading framework discussions, currently, are to be directed to Barry Burnell and DEQ State Office.

To do's for June 24 Meeting

- Troy
 - Provide Darcy's final memo to the workgroup and other WWTF facilities in the valley, requesting their facility constituent information to help with the model analyses.
 - Evaluate the depths in the model relative to DEQ data.
- WWTF Representatives
 - Respond to Darcy's memo by June 23, regarding facility constituent information to help with the model analyses.
- Michael
 - Provide memo regarding appropriately adjusting organic components in the model associated with TP reduction scenarios.
- Tom and Kate
 - Try to identify the details of how TP reductions were made in AQUATOX under the previous LBR AQUATOX modeling effort.

Next Workgroup Meeting

Tuesday, June 24

10 to noon.

DEQ State Office, Conference Room D

Phone: 208-373-0101 Bridge 4

To attend your HP Virtual Rooms event select the following link:

<https://www.rooms.hp.com/attend/default.aspx?key=EP3DGUQE37>