

Below are the main points/action items I noted from the September 3, 2013 Model Work Session:

Upcoming Model Work Session Schedule

- Next weekly meeting September 10, 2013 10 a.m. @ DEQ

Decision Points (all of these decisions are “final” pending need to further reevaluate)

- Groundwater quantity in segments 10-13 will be allocated according to Alex’s recommended interpolation scenario:
 - March 6 – April 15: Use the March synoptic percentages
 - April 15 – Aug 23: Interpolate from the March to August synoptic percentages
 - Aug 23 – Oct 31: Interpolate from the August to October synoptic percentages
 - Oct 31 – March 6: Interpolate from the October to March synoptic percentages

| AQUATOX Seg | August | October | March |
|-------------|--------|---------|-------|
| 10 | 45% | 94% | 38% |
| 11 | 12% | 4% | 5% |
| 12 | 5% | 2% | 2% |
| 13 | 38% | 0% | 55% |

- Groundwater concentrations – Alex confirmed (09/04/13) that her recommendation is to use the same interpolation schedule for groundwater concentrations, for gaining periods (using LBR TP concentrations during losing periods). Synoptic TP mg/L values were:
 - August = 0.22
 - October = 0.16
 - March = 0.12
- Dick Park clarified via email that an f-crit value presented on 8/27 was incorrect:
 - Peri Low-Nut Diatom FCrit should be 0.006 (not 0.007 as in his write-up)
- Tributary data to be adjusted (e.g. averaged) to account for USGS historical observations on Thurman, Willow, W. Hartley, and S. Middleton Drains *during periods when IDWR data does not exist* (e.g. value of 0).
 - City of Boise data will be used for Dixie Drain when IDWR is absent.
 - Indian Creek and 15-mile Creek have previously been dealt with through other data sources.

Action Item Updates

- All
 - A. When updated AQUATOX files are posted (soon), evaluate the model set-up, coefficients, water balance, state variables,...to help ensure the model becomes calibrated appropriately.
- Troy
 - A. Will verify Alex’s recommended procedure for groundwater concentrations (the group agreed to move forward with her recommended groundwater quantity interpolation).
 - See Decision Points, above.
- Kate

- A. Provide City of Boise's data for Dixie Drain (acknowledge that the flows will be used for calibration, but may not be appropriate for scenarios, given that some of the data doesn't represent ongoing/average conditions).
- Michael/Tom
 - A. Will re-run and post model files on the ftp site once remaining groundwater and tributary data questions have been resolved.
 - B. Will host a "workshop" with modeling group to go discuss model files and data.
- Darcy
 - A. Continuing to work on the morphometry and looking more closely at the velocity components of the model. Will further evaluate once update input files are ready.
 - B. Will summarize and present run/riffle/pool, substrate, periphyton results for Diversion to Star at next meeting.
 - C. Conducting sensitivity analyses of factors such as riffle/run/pool percentages, Manning's coefficient, slope, and other parameters.
- Ben et al.
 - A. Make sure that we have a calibration "fiesta" period in which everyone has a shot at thoroughly vetting the model calibration and raising questions/issues.

As always, please let me know what I missed or misinterpreted and thanks for your participation today! Cheers,

-Troy

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