

Below are the main points/action items I noted from the July 23, 2013 Model Work Session:

#### Upcoming Model Work Session Schedule

- No meeting on July 30 – this is the LBR 319 Tour
- Next weekly meeting August 6, 2013 10 a.m. @ DEQ

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

- The AQUATOX segments breaks, lengths, and coordinates have been revised (the excel and kml files are identified with the date label, “...2013\_0723”).
  - 13 segments remain
  - The revised segments should more appropriately locate the split/confluence of segments 5-8 around Eagle Island, as well as major tributary inputs
- Per Michael’s Fifteenmile Creek flow memo from July 16, 2013, we will, “Use the Estimated monthly flows for Fifteenmile Creek flows in the AQUATOX model,” given the paucity of flow data for this tributary.
- The run/riffle/pool data collected on June 20-21<sup>st</sup> from the Star Bridge to Hwy 95 will be utilized in the model as the most recent and comprehensive data available for those habitat parameters.
  - From Diversion to Star, however, we will continue to search relevant information and best professional judgment to identify appropriate run/riffle/pool percentages. It may come back to using the original 80:20 run/riffle percentages previously used in the model.
    - Mullins (1999) characterized a 2,134 ft subreach near Eckert Road and identified the run/riffle/pool percentages as 25/25/50. Although this data may accurately characterize the subreach, questions remain about how well it represents the remaining ~20 miles between Diversion and Star.

#### Upcoming Items

- DEQ contract to fund Jonathan Clough and Dick Park for approximately 60 total hours to consult on the AQUATOX modeling effort, getting closer to complete.

#### Action Item Updates

- All
  - A. Please identify if you have been tasked with an item or if there are items you can help to complete on the “LBR Atx 2013Updating Outstandingitems 072313.” This is the “to-do” list for the model set-up and calibration.
- Troy
  - A. Will distribute riffle/run/pool given the question of segment breaks seems to have been resolved.
  - B. Will check with Alex, Dorene and others to help identify reasonable run/riffle/pool percentages for Diversion to Star.
  - C. Continue to update post-meeting materials to ftp site, DEQ’s LBR webpage, and directly to group
  - D. Work with Darcy and Michael to identify naming convention for AQUATOX input files.
- Michael

- A. Continuing to update and repost input files on the ftp site for evaluation when ready.
- Darcy
  - A. Continuing to work on the morphometry and looking more closely at the velocity components of the model. Currently, trying to rectify modeled flows vs. data.
  - B. Summarizing/analyzing data for the LBR data collection float on 6/20 and 6/21 regarding water depth, clarity, substrate, periphyton, etc.
  - C.
- Jack ~~(although he was unable to attend the meeting, his items from the 6/11 meeting were kept on the agenda so that they could be fully addressed)~~ – These items will be placed aside pending the results and use of the LBR data collected on 6/20 and 6/21.
  - A. ~~Frame/outline 3 questions related to the interpretation of pebble count and periphyton data, model results, and targets (roughly paraphrased below):~~
    1. ~~How to best characterize riffles/runs/pools on the LBR for use in the model?~~
      - ~~Some methods discussed by the group included algorithm review, sensitivity analyses, field documentation, remote sensing, etc.~~
    2. ~~How to apply the USGS periphyton data collection to riffles vs. runs in the model and interpret results?~~
      - ~~Alex's and Dick's professional opinions were interpreted as believing periphyton growth would likely be similar in riffles and runs, given the appropriate substrate. However, it was also identified that other factors could come into play such as turbidity, water velocity, water depth, etc.~~
    3. ~~Ensuring that the target and data transformation procedures are clear, aligned, and appropriate.~~
      - ~~It was suggested to deal with questions 1 and 2 first, which may help formulate how question 3 is addressed.~~

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

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