

Questions/Action Items for AQUATOX Model Calibration

Black Text = Questions/statements

Blue Text = Responses to questions

Red Text = Ongoing action Items

Yellow Highlight = Action Items for week of August 27, 2013

Green Text = Completed Items

Status

- 13-Segment Model is functional and runs
- Water balance seems not unreasonable but needs to be checked.
- Majority of water data updated with information, following questions remain.

Questions/Action Items

Water Quantity

Water Quality

- Only water quality data see for model simulation period are the following. Are there other data for the period? Where? **All - compare historical values/averages to modeled periods to check for appropriate interpolation between sample points probably to be addressed by Darcy et al. during the model calibration:**
 - 8/21/12
 - 10/29/12
 - 3/4/13
- What is zMean input? Text includes the following. Need to update? Need to look at other spreadsheets? **(Darcy et al. is/will be looking at this as part of the calibration exercise)**
 - Uses RAP Depth Discharge 1-98 to 9-02
 - Depth Discharge calibration.xls
 - Probably should look at stage data and build depth discharge spreadsheet.
 - Sensitivity analysis looking at factors such as riffle/run/pool, manning's, slope, etc.
- Most to all of the tribs do not have BOD data, need?
 - ~~Michael asked Kate and Kate replied; have not updated to her response.~~ **Calibration will likely help determine the need for this data.**
- Zero unaccounted/groundwater flow into Segment 12, all into Segment 13, don't know if should be split.
 - ✓ ~~Darcy to look at USGS 2012 information for insights on assigning unaccounted flows between Segment 12 and 13.~~ Will go with the USGS Mass Balance data. ~~Troy to locate data for input spreadsheet.~~ Alex provided groundwater data for synoptic events. **Troy**

will check with Alex regarding Michael's proposed approach – others (e.g. Ben et al. to also review approach and provide feedback).

Initial Conditions

- Not updated
 - Available for view in AQUATOX

Completed Items

- ✓ COB Lander and West estimated for April 2013 as average of flow 1/1/12 through 4/1/13
 - ✓ ~~Troy will follow up with Kate to provide the City of Boise data for 4/1/13 through 4/30/13?~~ – Kate has provided this data to Michael.
- ✓ IDFG Eagle Fish Hatchery uses original Aquatox flow of 32 cfs.
 - ✓ ~~DEQ working on compiling point source data Existing data has been collected and provided. Boise has concentration data that was used in the previous AQUATOX model – Troy will follow up with Kate about updating this with the City of Boise's data.~~ – Kate has provided this information to Michael.
- ✓ Have not seen water column Chlorophyll a data for the model simulation period. Are data available? Where?
 - ✓ ~~Michael asked Kate and Kate replied; have not updated to her response. Troy will compare this data with the input file and coordinate with Michael.~~ Kate has provided this data to Michael.
- ✓ IDFG Eagle Fish Hatchery WQ data?
 - ✓ ~~DEQ working on compiling point source data Existing data has been provided. Troy will follow up with Kate (see Water Quantity) –~~ Kate has provided to Michael
- ✓ Not sure have data for NMD and SMD (N. Midd. Drain and S. Midd. Drain)? ~~Troy to investigate.~~ No additional data could be located.
- ✓ Not sure have data for Mason Drain? ~~Troy to investigate.~~ No additional data could be located.
- ✓ Not sure have data for Hartley Drain? ~~Troy to investigate.~~ Troy provided ISDA 2006-2007 data. ~~Michael asked Kate and Kate replied; have not updated to her response.~~
 - ✓ ~~Robbin believes there may be other ISDA available to share with group.~~ – Robbin verified that ISDA does not have additional data available.
- ✓ Caldwell WWTF data?
 - ✓ Caldwell has provided some data, Troy is requesting additional data, if available. Lee and -Caldwell are working to provide data. Lee has provided Caldwell data through 4/30/13.
- ✓ Middleton WWTF flow? Set at constant 0.8 cfs.
 - ✓ ~~Troy working on compiling point source data. Troy has obtained data and being put into spreadsheet.~~ Is updated and included on import spreadsheet.
- ✓ Middleton WWTF data? Text includes Data from Basil Tupy, Holliday Engineering
 - ✓ ~~Troy working on compiling point source data Troy has obtained data and being put into spreadsheet.~~ Is updated and included on import spreadsheet.
- ✓ Unclear what data goes into some of the Segment numbers and why?

