

North Carolina Nutrient Science Advisory Council

March 28, 2018



Summary of Comments on Draft pH Criteria Document

Three Categories of Comments

- Editorial
- Requests for additional information or clarity
- Comments that require discussion by SAC

Examples of recommendations for additional information or clarity

- Add info on phytoplankton composition
- Add info on pH trends, pH correlation with CHLa
- Clarify acute vs. chronic test durations
- Add additional language from Georgia example
- Clarify if criteria proposal would necessitate pH measurement at multiple time points

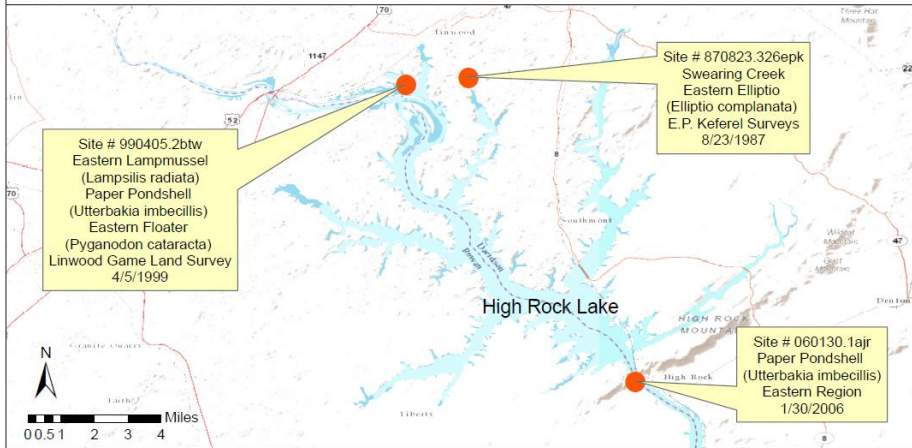
Comments for discussion (cont.)

- Implications of pH trends to criteria proposals

Comments for discussion

- Mussels in reservoir
- Role of ammonia-related discussion

Freshwater Mussels in High Rock Lake

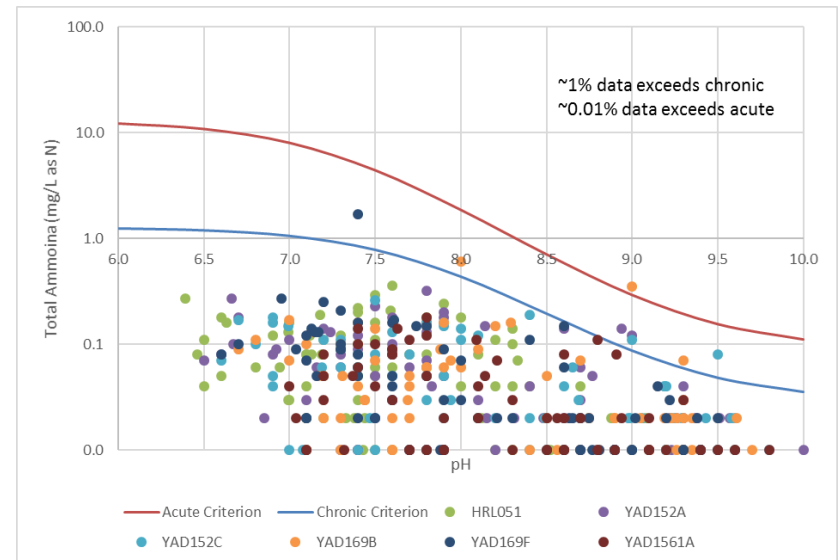


Data for freshwater mussel locations obtained from the NC Wildlife Resources Commission Portal Access to Wildlife Systems database (P.A.W.S.)

All other data sourced from NCDEQ.

NC Division of Water Resources. May 2017.

- Sites with Freshwater Mussels
- DWR High Rock Lake Hydrology



Comments for discussion (cont.)

- Specific regulatory language: Criteria vs. “implementation practice”
 - pH magnitude, duration, frequency
 - Spatial elements (e.g. vertical/horizontal averaging)
- Arithmetic mean vs. median pH

Comments for discussion (cont.)

- Comments specific to vertical habitat components of option #2