

2020 Listing Methodology Document Meeting

Department of Natural Resources

1101 Riverside Drive

Jefferson City, MO

May 9, 2017

Meeting Attendees:

- Robert Brundage, Newman, Comley & Ruth P.C.
- Lynne Hopper, Boone County
- Nick Muenks, Geosyntec Consultants
- Kevin Perry, Regform
- Randy Sarver, Missouri Department of Natural Resources, Environmental Services Program
- John Hoke, Missouri Department of Natural Resources, Water Protection Program
- Tim Rielly, Missouri Department of Natural Resources, Division of Environmental Quality
- Leslie Holloway, Missouri Farm Bureau
- Matt Combes, Missouri Department of Conservation
- Brett Landwer, Missouri Department of Conservation
- Trish Rielly, Missouri Department of Natural Resources, Soil and Water Program
- David Carani, HDR Inc
- Dave Michaelson, Missouri Department of Natural Resources, Environmental Services Program
- Sam McCord, Missouri Department of Natural Resources, Water Protection Program
- Robert Voss, Missouri Department of Natural Resources, Water Protection Program
- Collin Mackey, Missouri Department of Natural Resources, Water Protection Program

Meeting Purpose:

A technical discussion of a revised assessment process of sediments for metals and polycyclic aromatic hydrocarbons (PAHs), biological assessment data, and other stakeholder concerns.

Summary of the Meeting Discussions:

- The meeting started with introductions of attendees. Then, John Hoke provided a brief update on the status of the vacant MAU Unit Chief position. The upcoming Public Notice Period schedule for the 2018 303(d) List and 2020 Listing Methodology Document was referenced, highlighting that it will be starting approximately three months earlier than in the past.
- The availability of biological data and the corresponding impairment thresholds were discussed. The DNR webpages where this information could be found were displayed. ***The department will look into developing a guide for users and the public to more quickly find these data.***
- The development status of small candidate reference stream criteria, and the stakeholders' availability to comment on that and the completed project to outline the selection process were discussed. ***The department is currently in the process of field verification of small headwater candidate reference streams. When those studies are complete, the department will provide an update and additional details to stakeholders.***
- A question was raised about the VST processes outlined in the Listing Methodology Document in regards to macroinvertebrate sampling. Clarification of which columns in the GIS data are used

needs to be added to the 2020 Listing Methodology Document. – **2020 Listing Methodology Document will be updated to reflect this.**

- Total Organic Carbon (TOC) in sediment was discussed. DNR pulled data from WQA and looked at the averages and standard deviations for TOC. Both showed that TOC is quite variable within what would be considered a site on a stream. DNR recommended the removal of TOC normalization from the proposed assessment process (flow charts) except in the case of using ΣSEM-AVS/FOC. No objections were voiced. – **2020 Listing Methodology Document will be updated to reflect this.**
- A department proposal to assess hydrocarbon pollutants in sediment as Total PAHs (proposed) rather than individual PAHs (current methodology) was discussed. DNR stated that previous research indicated that individual PAH PECs are based on the samples also having elevated presence of additional PAHs, potentially overestimating the actual toxicity of an individual PAH. DNR believes that the proposed change to using Total PAHs would provide a better representation of toxicity than the use of individual PAHs.
 - There were no objections at this point, but a better textual representation of how this would be handled was requested. – **2020 Listing Methodology Document will be updated to reflect this.**
- DNR stated that it wants to move to assessing only sediment samples sieved to less than 2mm in the future. Past unsieved data that was used for impairment listings will still be valid for those listings, but greater weight will be given to new sieved data. New unsieved data will be used only as screening level data. – **2020 Listing Methodology Document will be updated to reflect this.**
- Toxicity Test requirements (e.g., acceptability of acute vs. chronic tests, appropriateness of various test organisms) were discussed. – **Some draft language will be provided in the 2020 Listing Methodology Document during the Public Notice Period.**