

To: Doug Szenher, ADEQ

From: Robert Cross
P.O. Box 145
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Subject: Comments on the Proposal by the Noland WWTP of the City of Fayetteville to Change the Regulation 2 Arkansas Water Quality Standards for Minerals for the White River from the Discharge of the Noland WWTP to Immediately Downstream of the Confluence with Richland Creek, Docket #13-010-R

Date: February 27, 2014

I am making these comments as a resident of Fayetteville and as a Research Professor Emeritus of the Ralph E. Martin Department of Chemical Engineering at the University of Arkansas. I have had experience in the design and operation of water treatment and waste treatment plants.

I understand the challenges faced by the Noland WWTP in the treatment of the ever changing wastes received as well as the difficulties faced by ADEQ in regulating discharges in line with environmentally sound guidelines and practical limitations of treatment technology. However, our rivers and streams are a precious resource and once impaired are very difficult to restore to acceptable standards.

That said, while I can understand that Fayetteville needs relief from the current site specific specifications, I also believe that new specifications should only be set as high as necessary to accommodate the existing situation. The mass balance model used to calculate the proposed water quality criteria, however, utilizes a series of inputs that are combined together in a way that will never occur and result in considerably higher than necessary levels. This is evident by a review of the actual in-stream water quality monitoring data that shows minerals concentrations generally well below the level of the proposed water quality criteria. When these higher than necessary concentrations are combined with the new assessment methodology that allows the water quality criteria to be exceeded twenty-five percent of the time, I believe that the proposed numbers are much higher than are necessary and reasonable.

I trust you will consider these comments.