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From: web.site@adeqinternal.state.ar.us [mailto:web.site@adeqinternal.state.ar.us]

Sent: Tuesday, June 24, 2014 7:02 PM

To: Help-POA

Subject: Questions/Comments\_Web\_Submission:\_#1403654547700

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Questions\_Comments:

I wish to register my utmost support for regulations that would protect the Buffalo National River from eutrophication, coliform bacteria infusions, and other harmful consequences brought about by high-density livestock operations within the river's watershed. While most naturalists and outdoors enthusiasts are probably concerned about the bacterial contamination that may arise from hog waste, the seemingly harmless manure spread on pastures in the vicinity may have even worse effects on nearby streams, independent of such microbes. Even when given enough time for the manure to be decontaminated with regard to coliform bacteria, the elemental nutrients in that manure will persist and "due to their high degree of solubility in water" will most certainly find their way into all bodies of water in the area. The dramatic enrichment of these soils and water stores by the nitrates and phosphates in that manure will alter the chemical and biological composition of those bodies of water tremendously. Growth of algae and plants, as well as the organisms nourished by them, will most likely lead to the ill effects of eutrophication. All manner of life, and the effects of that life on the physical attributes of the streams, will be impacted by this process. I urge the Arkansas Department of Environmental Quality to institute strong regulations banning the introduction or maintenance of the high-density livestock operations that could bring about these stresses to these fragile aquatic ecosystems. Sincerely, Steven W. Barger, Ph.D.