

20160804-carol-bitting.txt

-----Original Message-----

From: Carol Bitting [lcbitting@gmail.com]
Sent: Monday, August 15, 2016 12:55 PM Central Standard Time
To: O'Guinn, Kimberly
Subject: Fwd: ADEQ's C&H Pond Integrity Evaluation Website

Kimberly,

I was searching comments and realized mine have not been posted. Are there others that were not posted yet?

Carol

----- Forwarded message -----

From: Carol Bitting <lcbitting@gmail.com>
Date: Tue, Aug 9, 2016 at 11:54 AM
Subject: Re: ADEQ's C&H Pond Integrity Evaluation Website
To: "O'Guinn, Kimberly" <OGUINN@adeq.state.ar.us>

On Thu, Aug 4, 2016 at 5:45 PM, O'Guinn, Kimberly <OGUINN@adeq.state.ar.us> wrote:
C&H Pond Integrity Evaluation

Becky Keogh, Caleb Osborn, Kimberly Oguinn,

I would like to express the importance of drilling more than one borehole for the evaluation of C&H lagoon integrity.

I began caving in Arkansas in the 1980's. Caving is an underground experience I consider a subsurface investigation. The variation of entrances and passageways are many. Crawling or slithering through tiny entrances can reward in large cavernous rooms. Enormous walking entrances can end in sumps and sinkholes that appear non

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penetrable. The variations are limitless.

Most of my experience results in returning to the same passage, that passage remains in tact as last visualized. This is not always the case. I have seen a passage completely disappear, one such passage was clay. The passage was a solution cut through clay large enough to crawl into and proceed for 100' or more. At a time several months later this passage was totally blocked with clay and to my knowledge 15 years later this passage has not opened again.

I appreciate being able to make comments and understand what a subsurface drilling should contain. I also have first hand experience at understanding the karst topography of the Buffalo River watershed. I have seen as ,1,000's of others, the size and variability of underground caverns. One only has to visit the many commercial caves near here to get their own understanding. We are not looking at 10' X 10' rooms built by carpenters, we are looking into the subsurface karst created by the movement of water or liquids seeking the travel of least resistance.

This test should be done with the highest transparency and should include the best scientific equipment and experienced personnel available. The permitting of C&H Hogs in the Buffalo National River Watershed, a stream that is awarded the highest protection, should follow the highest recommendations.

I have been searching the USGS site and it is most recommended ADEQ contact the USGS

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for the subsurface investigation and proper techniques and possibly other recommendations.

Please include many boreholes and possibly a new ERI and include the use of the BRWA's suggested, Dr. Fisher.

Sincerely,
Carol Bitting