

**Gray, Jeff**

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**To:** Purkey, Ronald E; Petty, Harold L**Subject:** FW: Emory River Data

FYI

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**From:** Rehberg, Robert L**Sent:** Monday, September 18, 2006 8:14 AM**To:** Knight, Tony Alan**Cc:** Phillips, Matthew Allen; Gray, Jeff; Olmstead, Chadwick Regan; Campbell, Linda F**Subject:** RE: Emory River Data

Granted, we have not needed to increase pH in the pond for the last couple of years. I agree with Linda that this is likely due to our increased PRB burn as well as the operation of SCR's with NH3 injection. It's fortunate that we haven't needed to raise pH because our lime feeding system is dead and unlikely to ever be revived. With the uncertainty of our fuel blend in the future coupled with the historical need to raise pond pH and the dead lime feeding system, we need to proceed with the design of a pH raising system now rather than later. We have an approved project for pH control and we need to be designing for both raising and lowering pH to have a true control system. If the cost of installing both (raise and lower) is prohibitive, we'll need to make some decisions about possibly not doing the raise system now. But we don't need to punt at this stage in the game.

The project team needs to proceed with the study, design, etc. of both systems rather than delaying the pH raising system to a future date.

Thanks

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

**From:** Knight, Tony Alan**Sent:** Tuesday, September 12, 2006 11:01 AM**To:** Campbell, Linda F; Olmstead, Chadwick Regan**Cc:** Carter, James C Jr; Johnson, Linden Printz; Gray, Jeff; Phillips, Matthew Allen**Subject:** RE: Emory River Data

Linda,

I agree with you. It seems that there has not been a need to increase the pH for some time. I would feel much more comfortable moving the design of a system to increase the pH to some point in the future.

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**From:** Campbell, Linda F**Sent:** Tuesday, September 12, 2006 10:38 AM**To:** Knight, Tony Alan; Olmstead, Chadwick Regan**Cc:** Carter, James C Jr; Johnson, Linden Printz; Gray, Jeff; Phillips, Matthew Allen**Subject:** RE: Emory River Data

Tony,

I don't think I saw Chads pH list. Looks like our lowest value from 10/05 - 04/06 was 6.82 in Jan. I think Matt Phillips sent you the KIF pH for several years, so you might be able to compare to the Harriman Water Treatment data. We have not had to increase the pH at the ash pond in two or three years, so it seems to me the question would be what have we been doing during that time frame? If it is due to buring PRB coal, what will be the effects in a few years when we no longer burn PRB?

09/18/2006

Thanks,  
Linda

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

**From:** Knight, Tony Alan

**Sent:** Tuesday, September 12, 2006 8:41 AM

**To:** Olmstead, Chadwick Regan

**Cc:** Carter, James C Jr; Campbell, Linda F; Johnson, Linden Printz; Gray, Jeff

**Subject:** RE: Emory River Data

Chad,

Thanks for the data. It appears from the Harriman Water Treatment plant data that the Emory River doesn't drop into the lower pH's that has been seen in the plant discharges. The lowest pH that the Harriman intake saw was a 6.8 for three days and a couple days when the pH was 6.9. Is there any operations at the plant that change during the winter months that may account for the lower pH's?

Tony

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

**From:** Olmstead, Chadwick Regan

**Sent:** Tuesday, September 05, 2006 1:56 PM

**To:** Knight, Tony Alan

**Subject:** Emory River Data

Tony,

I have contacted the Water Treatment Plant for the City of Harriman and they have given me some data from the previous year. I am attaching what they have given me for October 05 to April 06, these seem to be the month when the pH is the lowest at Kingston. There is a lot of data, I have not had time to look thru it to see what all is there. The RAW is the readings before the water is treated. The water treatment plant is located up river from the Kingston plant on the Emory river. Let me know if you need more data or anything else. I am leaving the office this afternoon, so I will be back in the morning if you need anything.

Thanks,

**Chad Olmstead**

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