

Message

**Gray, Jeff**

**From:** Dixon, Melisa D  
**Sent:** Tuesday, September 12, 2006 3:37 PM  
**To:** Gray, Jeff  
**Cc:** Lennon, Kendal R; Shaffer, Douglas P; Dixon, Melisa D; Knight, Tony Alan  
**Subject:** RE: Emory River Data

Hi Jeff,  
 The below information is very thought provoking. As requested by Tony and discussed with Mr. Rehberg, we currently have our Chemical Engineer evaluating the available options for  $\updownarrow$  pH level of the existing pond. We expect to have some preliminary information by tomorrows telecom but no later than the end of the week. Before either project system ( $\updownarrow$  pH) is deemed unnecessary by anyone other than Mr. Rehberg, I would recommend we complete the analysis of available options for  $\updownarrow$  pH level, present the information to the KIF JPT, and yield to the direction of appropriate KIF plant staff as to the plant needs, preferences, and expectations of the subject project.

Lisa

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

**From:** Gray, Jeff  
**Sent:** Tuesday, September 12, 2006 1:25 PM  
**To:** Rehberg, Robert L  
**Cc:** Gray, Jeff; Purkey, Ronald E; Campbell, Linda F; Olmstead, Chadwick Regan; Carter, James C Jr; Johnson, Linden Printz; Gray, Jeff; Phillips, Matthew Allen; Shaffer, Douglas P; Dixon, Melisa D; Petty, Harold L  
**Subject:** FW: Emory River Data

FYI. We will discuss this information in our telecom meeting tomorrow @ 2:30 PM. The meeting ID number is 4820.

Thanks,  
 Jeff L. Gray  
 EDS, Civil Engineering  
 423-751-7693  
 423-751-6116 (Fax)

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

**From:** Purkey, Ronald E  
**Sent:** Tuesday, September 12, 2006 12:41 PM  
**To:** Gray, Jeff; Petty, Harold L  
**Subject:** RE: Emory River Data

Jeff,  
 send to Bob and discuss this approach to raising PH in our telecon tomorrow. Thanks.

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TVA-00006266

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

**From:** Gray, Jeff  
**Sent:** Tuesday, September 12, 2006 11:02 AM  
**To:** Purkey, Ronald E; Petty, Harold L  
**Subject:** FW: Emory River Data

FYI

Thanks,  
Jeff L. Gray  
EDS, Civil Engineering  
423-751-7693  
423-751-6116 (Fax)

-----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 burying PRB coal, what will be the effects in a few years when we no longer burn PRB?

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

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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**

Systems Engineer  
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865-717-2182  
[crolmstead@tva.gov](mailto:crolmstead@tva.gov)

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