

**WATER COMMITTEE**  
**MARCH 10, 2010**  
**MINUTES**

**MEMBERS PRESENT:** Pete Frisina, Chairman  
James K “Chip” Conner, Vice Chairman  
Brian Cardoza  
Tony Parrott

**ABSENT:** Jack Krakeel

**NON-VOTING MEMBERS:** David Jaeger

**STAFF PRESENT:** Russell Ray

**GUEST:** Stephen Hogan, PTCWASA

The meeting was called to order by Chairman Pete Frisina at 8:00 A.M.

**I. APPROVAL OF MINUTES FROM THE MEETING ON FEBRUARY 24, 2010.**

Vice Chairman Chip Conner made the motion and Tony Parrott seconded, to approve the minutes from the meeting on February 24, 2010. There was no opposition.

**II. LAKE MCINTOSH UPDATE.**

David Jaeger reported the contractor is on site clearing around the area where the dam will be constructed. They are somewhat limited in what they have done, due to the weather. They are starting to set up their permanent camp, permitting the construction trailers and so forth.

He went on to say the fencing work continues on the mitigation sites. They are finishing up the Starr’s Mill site. Eco-South is finishing the site work for the mitigation at the Johnson property. They have been awarded the contract by the county to move to the Mixon site. They will be there in about 30 days.

Mr. Parrott presented a proposal from Eco-South for our biological and habitat monitoring. He said he will have the county attorney review the proposal. He said essentially the proposal meets both the 404 permit and the 401 DNR permit. The cost is \$27,190.00. This is an annual requirement and we have to do it until they release us from it. The low flow from the dam is set up so that the low flow in Line Creek will not go below the 3MGD that it currently has right now. Mr. Parrott commented that the flow was lower than that, the past two summers. We could not pump. We will be maintaining the low flow.

Vice Chairman Chip Conner made the motion to recommend to the Board of Commissioners to approve the Eco-South Biological and Habitat Monitoring

**Proposal for Lake McIntosh Line Creek Bio-monitoring. Brian Cardoza seconded and there was no opposition.**

**Mr. Parrott showed the Committee the signs that will be placed around Lake McIntosh to keep people from cutting the trees and abusing the buffer that we have to keep. Otherwise, the Department of Natural Resources will be unhappy with us at some point. Past discussions pertained to posting the rules on a sign at the park; however the park will not be built for two years. The signs he is planning to post say “No Trespassing, call the Water System”; then we can tell people what they cannot do. We have to maintain the buffer around the reservoir. He plans to put one sign at each property pin around the lake. Sign stock for stop signs would be used; they can be driven into the ground and they are hard for an individual to pull out of the ground. They might tear the sign off, but we can replace the sign. The signs will be black and white. Signs will also be posted every 300 feet along the fence line at the wetland mitigation sites.**

**Mr. Jaeger stated that he is meeting tomorrow with the golf course manager to discuss the clearing that will have to be done on the finger of the lake that goes up to the east side. It runs parallel to the fairways. There are some water hazards that we have to lower the water that is there now, so the area can dry out enough. The contractor will have to cross over the golf course to get in there.**

### **III. TOTAL ORGANIC CARBON UPDATE.**

**Mr. Parrott stated we tested one filter at the Crosstown Plant years ago with granulated activated carbon. GAC worked well, we need 35% removal and we got 70%. It has a period of time that it works, depending on the flow. There are other methods that we have looked at; we can do a capital project and add a different train of treatment to the water plant that will give us the same assurance. With construction and permitting and everything else, he said he is looking at 2012 for new regulations. He recommends getting prices for doing GAC and get state approval for all the filters; then continue to work on what we can do long term. We don't want to send out another notice to our customers that we don't meet the standards.**

**Mr. Jaeger explained that he talked with Calgon Carbon last summer about an estimate to come and remove the existing anthracite and replace it with GAC. The depth of the GAC would be four feet, which is deeper than the current anthracite depth. They estimated \$500,000.00 in round numbers for them to do that work at South Fayette Water Plant. The anthracite is an 18" depth; the GAC will be put in at four foot depth. They come in with a vacuum truck, vacuum out the existing anthracite, leave the sand, and put the GAC back in the filter. It is around \$500,000.00 to do that swap out for six filters.**

**He went on to say the question we have always had is the life span of the GAC and how long it will be before we have to do it again. There isn't anybody that can give**

us a good answer to that. We did the pilot at the other plant, but we were only dealing with a two foot bed depth because the filters were built some time ago and they weren't as deep. We know it works; it is just a matter of how long it lasts before you have to swap it out again. We are looking at about ½ million dollars to make the change; we know once that is done we can have significant improvement in the TOC removal.

Mr. Jaeger stated that if you choose to reactivate it, it has to be taken out of the filter and sent back to the plant. There is a cost advantage to doing that; if you contract with Calgon for that service, essentially they are reactivating your carbon every time. It is about a 10 to 15 percent reduction in cost to do it that way. He said that we are still looking at the long term, if we elect to go with a different process long term, this would be sort of a stop gap measure to make sure that we don't have to issue another notice. He said he is not sure how short the contract is considered for reactivation; if they would be willing to do a year to year contract or not. He said he could discuss that with them.

Mr. Jaeger stated that GAC is a suitable permanent fix, it is mainly a cost issue, how long does the GAC last, how often do we have to replenish it, and then the cost of having to do it yearly; versus another technology that maybe in the long run has lower operational cost that would be a benefit in the long run versus GAC. We don't have to build any new equipment to use GAC right now; it is just a matter of changing out the media in the filters.

Mr. Parrott said we would schedule the change out so that it would not impact operations. Some of the newer technology that some of the other water systems are looking to come into compliance for what they think they will have a problem with, there is up front capital cost, but it is a treatment train that you can manage. With this, there is no maintenance. He said we will continue to look at the other options. The state will have to approve changing out the filters.

## **ADDENDUM**

### **I. WATERLINE RELOCATION FOR HIGHWAY 92 AND HILO ROAD.**

Mr. Parrott explained that road work will be done Highway 92 and Hilo Road; they will put in a turn lane and traffic signal, realign Hilo Road with Kingswood subdivision. They will add an intersection; they are actually buying a house and taking the house out to align the road. To start with, it looked like we would only have to move part of the waterline on Hilo Road, now they have finished the plans on this project; we will have over 2,000 feet of waterline under a turn lane. We need to move the waterline. If the waterline broke, it would take out the entire turning lane.

**Mr. Parrott recommended that we relocate the entire section from Hilo Road almost down to Pond Trace. This waterline was installed in 1972. He estimated the cost at \$250,000.00.**

**Tony Parrott made a motion to recommend to the Board of Commissioners relocating the waterline at Hilo Road and Highway 92, and pay for the project from the Water System's Renewal & Extension fund. Vice Chairman Chip Conner seconded and there was no opposition.**

**The new waterline will be the same size as the one already there. The project can be completed by Lantz Construction, the Annual Waterline Contractor.**

**There being no further business, Chairman Pete Frisina adjourned the meeting at 8:30 A.M.**

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**Peter A. Frisina**

**The foregoing minutes were approved at the regular Water Committee meeting on the 24th day of March, 2010.**

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**Lisa Quick**