

**DAVIE WATER AND ENVIRONMENTAL  
ADVISORY BOARD  
SEPTEMBER 18, 2001  
5:30 P.M.**

**1. ROLL CALL**

The meeting was called to order at 5:30 p.m. Board members present were Chair Don Zane, Vice-Chair James Aucamp, Sr., Dean Alexander, Michael Crowley, Mark Flynt, Gary Gaffney, Tom Green (arrived at 6:15 p.m.), Jeffrey Harrod, Robert Hoth, Gail Ling (arrived 5:35 p.m.) and Ronald Phillips. Also present were Utilities Director Daniel Colabella and Board Secretary Jenevia Edwards recording the meeting. Mike Bender, Daniel Lavrich and Dan Pignato were absent.

**2. APPROVAL OF MINUTES:** May 15, 2001  
June 19, 2001

Mr. Hoth made a motion, seconded by Mr. Flynt, to approve the minutes for May 15, 2001 and June 19, 2001. In a voice vote with Messrs. Bender, Lavrich and Pignato being absent, all voted in favor. **(Motion carried 11-0)**

**3. PRESENTATION, KARL KENNEDY, P.E. - CALVIN, GIORDANO & ASSOC.**

3.1 Disinfection By-Products, Methods of Treatment for Potable Water

3.2 Regulations on Water Now and in the Future

Mr. Kennedy explained what disinfection by-products were, how they occurred and that they were regulated by the Environmental Protection Agency (EPA). Chair Zane asked if the "May 2002" was becoming stricter. Mr. Kennedy replied affirmatively and stated that the regulation had to be met by December 2003. He discussed the two stages of the disinfection by-product rules and indicated that rule one was instituted in December 1998 and stage two rule was expected to be promulgated in May 2002. However, the date for rule one could be extended as discussions were ongoing. Mr. Kennedy spoke about membrane systems and explained how they worked. He discussed the methods for color removal which included lime softening, enhanced coagulation, ion exchange, membrane softening and reverse osmosis. Chair Zane asked if the membrane systems were corrosive, whether or not it would affect the aquifer and if this was what the City of Sunrise had recently installed. Mr. Kennedy clarified that the water in the membrane systems was corrosive. There was discussion regarding membrane systems and their benefits and shortfalls. Mr. Colabella added that for a membrane treatment plant alone, chemicals would have to be added to the water. He mentioned that Cooper City recently built a membrane plant, which cost approximately \$7 million.

Vice-Chair Aucamp inquired as to the depth of the discharge. Mr. Kennedy explained that a deep well membrane plant discharged 3,000 feet deep. Chair Zane asked how much additional capacity was necessary. Mr. Colabella explained that replacing the system was under consideration and a 3.7 million gallon capacity was needed. It was stated that nine million gallons were necessary for build out. Chair Zane asked if there was a budget for this project and Mr. Colabella stated that it was. He explained that the membrane system was chosen because it was more cost effective. It was stated that the Pine Island Road plant would be taken out of service once the membrane plant was installed. Chair Zane asked why discharge into the canals rather than into brackish water. Mr. Colabella indicated that was a question that would have to be answered by the State. Mr. Harrod inquired if there would be any effect on wildlife. Mr. Colabella responded negatively.

Mr. Green asked about the Town's position regarding the proposed new water system. Mr. Colabella explained that there were bids out for a new water system. He added that the bids were not

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monetary, but engineering and Calvin, Giordano & Associates was one of the bidders. A lengthy discussion ensued regarding the size of the proposed system as well as the cost.

**4. OLD BUSINESS**

Chair Zane stated that Mr. Colabella had provided a map highlighting open space lands that the Town and Broward County were considering for purchase for wetlands, open space, and parks. Ms. Ling asked if the property on the northeast corner of Flamingo Road and Orange Drive were highlighted as this property was for sale. She explained that the County was going to give the Town the funds to purchase this lot if the price was in reason. Chair Zane stated that this property was not on the map.

There was discussion regarding the County committee charged with distributing the funds for the bond. Mr. Green stated that the Town's presentation did not go well and he suggested that Boardmembers should be coached beforehand so that they would be more prepared. Chair Zane asked Mr. Colabella if some of the properties were part of the grant money and the wetlands mitigation that Councilmember Starkey was working on. Mr. Hoth responded affirmatively. There was discussion regarding the availability of mitigation properties for other cities and the possibility of other cities purchasing Town properties for mitigation.

**5. NEW BUSINESS**

Chair Zane stated he was going to table his proposal from the last meeting, as he was having trouble getting xeriscape information. Ms. Ling asked if anyone had taken over Casey Lee's position. There was no response.

Chair Zane indicated that he had spoken to various Councilmembers regarding the size of the Board and the number of participants necessary for a quorum. He believed that the quorum count could be reduced, as it was difficult to have a quorum of eight. Chair Zane recommended reducing the quorum to six and wanted to discuss it at the upcoming meeting. Chair Zane encouraged members to attend meetings.

**6. COMMENTS AND/OR SUGGESTIONS**

Ms. Ling asked for an update regarding what the Town was doing for the drainage areas. Chair Zane indicated that Mr. Colabella would provide her with the information.

**7. ADJOURNMENT**

Mr. Crowley made a motion, seconded by Mr. Green, to adjourn. There being no objections, with Messrs. Bender, Lavrich and Pignato being absent, the meeting adjourned at 6:25 p.m.

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Date Approved

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Chair/Board Member