

CLAYTON COUNTY WATER AUTHORITY

1600 Battle Creek Road
Morrow, Georgia 30260

Regular Board Meeting October 5, 2000

Chairman Lane called the meeting to order at 1:30 p.m.

Present at the meeting were: Chairman, Joe T. Lane, Vice Chairman, Donald E. Whitman, Board Members, Pete McQueen, Lloyd B. Joiner and Marie Barber, General Manager, M. Wade Brannan, Deputy Manager, Terry R. Hicks, Department Managers, Frank Conort, Neal Wellons, Gary Howe, Herbert Etheridge, Jr., Guy Pihera and Richard Calhoun, Assistant Manager of Administration, Scott Bailey, Executive Secretary, Patricia Groover, Administrative Secretary, Deborah Bruce, Project Managers, Mike Thomas & Mike Buffington, Contracts & Procurements Administrator, Karen Riser, Human Resources Director, Ed Durham, Information Services Supervisor, Rodney Crowell, Resource Center Director, Andy Wells, Land Management Supervisor, Lonnie Philpot and Equipment Operator, Clifton Scarbary. Also present were: Steve Fincher, Fincher & Hecht, L.L.C., Rick Hirsekorn and Skip Martin, of CH2M Hill, Chris Wood, of Jim Wood & Associates Public Relations.

Chairman Lane called on Guy Pihera, Manager of Water Production, to give the invocation.

Chairman Lane called for any omissions or additions to the minutes of the regular and executive Board meeting on September 7, 2000 and called meetings on September 13, 2000 and September 19, 2000 hearing none, Chairman Lane stated that he would entertain a motion for approval of these minutes.

Upon Motion by Don Whitman and seconded by Marie Barber it was unanimously

RESOLVED: that the minutes of the regular and executive Board meeting on September 7, 2000 and the called meetings on September 13, 2000 and September 19, 2000, be approved as received.

Financial and Statistical Report: Chairman Lane called on Frank Conort, Manager of Administration, who presented the monthly financial and statistical report. This report was received for information.

Mr. Conort stated that as part of the Authority's financial trend analysis that he would like to call on Scott Bailey, Assistant Manager of Administration, to give the Board additional information. Mr. Bailey distributed copies of informational graphs, titled Projected FY 2001 Operating Revenues vs. Actual Revenues Through August, Projected FY 2001 Operating Expenses vs. Actual Expenses Through August, Projected

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FY 2001 Operating Revenues vs. Operating Expenses Actual Through August, and an informational chart titled Projected FY 2001 Revenues vs. Expenses by Month Actual Through August. Mr. Bailey discussed the information shown on these graphs. There was discussion concerning this information with questions and Mr. Conort, Mr. Bailey and Mr. Hicks giving answers with additional information.

Chairman Lane gave the Board information on a Power Plant in Lakeland Florida that is currently using effluent for their cooling towers.

Chairman Lane gave the Board information on surgery that Mr. Whitman had and stated that he is pleased that Mr. Whitman was able to attend the Board meeting.

Chairman Lane stated that he and other Authority employees toured constructed wetlands in Tignall, Gordon and Augusta Georgia. Mr. Lane gave the Board information on the different construction stages of these constructed wetlands. Mr. Lane stated that he would like for Board members to see how beautiful these constructed wetlands are and what the Authority is in the process of doing. Mr. Lane stated that arrangements would be made for any Board member who would like to tour these constructed wetlands. There was discussion concerning this information.

Employee Recognition: Chairman Lane called on Herbert Etheridge, Manager of Maintenance & Construction, who introduced Clifton Scarbary, Equipment Operator, and stated that he would like to recognize Mr. Scarbary for being the second employee in his department to pass the GED exam. Mr. Etheridge stated that Mr. Scarbary attended the GED Program, which the Authority offers to employees, in the evening after work.

Chairman Lane stated that on behalf of the Board that he would like to congratulate Mr. Scarbary for passing the GED exam.

Utility Locate Policy Recommendation: Chairman Lane called on Wade Brannan, General Manager, who stated that there was prior discussion concerning the situation where a directional boring company bored through a sewer line tap and a gas line causing a house to explode in Riverdale. Mr. Brannan stated that in order to reduce the possibility of this situation happening again, the Authority needs to increase our current ability to locate both water and sewer services. Mr. Brannan stated that all the calls requesting location of underground utilities come into the Utility Protection Center. Mr. Brannan stated that the Utility Protection Center refers from 175 to 250 requests for locates to the Authority on a daily basis. Mr. Brannan stated that by law the Authority is required to respond to each of these requests to locate underground services. Mr. Brannan stated that the Authority needs to have a private contractor provide this service or increase our

capability of doing this in-house. Mr. Brannan stated that a contractor who provides this service was contacted and quoted the Authority prices of \$16.50 per water locate and

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\$6.50 for a sewer locate. Mr. Brannan stated that this would be a total of \$23.00 per locate. Mr. Brannan stated that with the number of requests that the Authority receives, the cost for this service would be over one million dollars (\$1,000,000) per year. Mr. Brannan stated that the locate contractor will only accept up to thirty five hundred dollars (\$3,500) liability for each service they locate. Mr. Brannan stated that if the Authority has to accept the liability for these locates, then the Authority needs to know that these requests to locate underground services are being handled properly. Mr. Brannan stated that Mr. Etheridge has prepared an estimate of what he thinks it would take to increase this service internally. Mr. Brannan stated that this would require three additional locators and someone in the office to take calls and prepare information at an estimated cost of one hundred forty six thousand nine hundred forty six dollars (\$146,946) for personnel and benefits. Mr. Brannan stated that the cost for the additional equipment needed is approximately sixty eight thousand three hundred fifty dollars (\$68,350). Mr. Brannan stated that Mr. Etheridge budgeted for a piece of equipment that would cost around one hundred sixty five thousand dollars (\$165,000), which he put on hold until next year. Mr. Brannan stated that the money that was budgeted for this equipment could now be used for equipment for the additional locate crew. Mr. Brannan stated that the money for the additional locate crew staff costs would come from other budgeted positions, which have been eliminated or postponed until later. Mr. Brannan stated that with these cuts in personnel, there would be money available to fund the additional locate crew staff, without increasing the budget. Mr. Brannan stated that his recommendation is to reallocate the funds, which have already been approved in the budget, fill the four staff positions and purchase the needed equipment. There was discussion concerning this information with request for additional information on the Authority's liability. There was discussion concerning how the additional locate staff would be able to handle the number of locate requests.

**Maintenance and Construction
Proposal for Additional Utility Locaters**

Personnel:

3 – Locators (Pay Grade 7)	
1 @ 29,512.00 – 2 @ 28,000.00	\$85,512.00
1 – Administrative Position (Pay Grade 6)	\$25,500.00
Benefits (.3357)	\$36,943.05

Total Personnel

\$146,946.05

FY 2001 Cost will be Approximately \$79,600.00

Equipment:

3 – Trucks @ \$16,000	\$48,000.00
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3 – Line Locators @ \$2,200	\$6,600.00
3 – Valve Locators @ \$600	\$1,800.00
3 – Radios @ \$800	\$2,400.00
Tool Boxes	\$600.00
Strobe Lights	\$1,500.00
Furniture	\$800.00
Computer	\$2,800.00
Printer	\$1,800.00
Software	\$600.00
File Cabinet	\$200.00
Hand Tools	\$1,000.00
Printing	\$250.00

Total Equipment:	\$68,350.00
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Total Request	\$215,296.05
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FY 2001 Total Cost	\$147,950.00
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Upon Motion by Pete McQueen and seconded by Lloyd Joiner it was unanimously

RESOLVED: that Management is authorized to do whatever is necessary to implement an additional in-house water and sewer underground location section for the Authority.

Water Conservation Report: Mr. Lane called on Guy Pihera, Manager of Water Production who gave an informational slide presentation on the status of the Authority's raw water reserves. Mr. Pihera showed slides of two graphs titled Rainfall to Date and Raw Water Reserve. There was discussion concerning this information. Chairman Lane requested information concerning two wells that are located on Authority property. Mr. Pihera gave the Board information on test wells that the Authority had drilled on the Land Management site. Mr. Pihera requested that Lonnie Philpot, Land Management Supervisor, give the Board information on the amount of flow that can be expected from these two wells. Mr. Philpot gave the Board information concerning these wells and stated that the first well would probably supply about 20 gallons of water per minute. Mr. Philpot stated that the second well is an 8" well that is about 600 feet deep. Mr. Philpot stated that this well would supply about 90 to 100 gallons of water per minute. Mr. Pihera showed a slide and distributed copies of an information chart titled Finished Water Cost Analysis Fiscal Year 2001, First Quarter. Mr. Pihera stated that the total cost for the Authority to produce drinking water and get it into the distribution system, is .434 cents per 1000 gallons not including capital and depreciation costs. There was discussion concerning this information and how much this amount increases when the Authority

buys water from the City of Atlanta. Chairman Lane requested that Mr. Etheridge bring information to the Board on what the Authority's total distribution cost is for getting finished water to the customers.

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FINISHED WATER COST ANALYSIS				
FISCAL YEAR 2001, FIRST QUARTER				
	Hooper	Smith	Freeman Road	All Plants
Personal Services	\$124,919.00	\$81,344.00	\$90,165.00	\$296,428.00
Utilities	\$153,030.00	\$117,819.00	\$68,916.00	\$339,765.00
Operating Materials	\$68,897.00	\$50,178.00	\$14,720.00	\$133,795.00
Miscellaneous	\$66,498.00	\$43,949.00	\$22,725.00	\$133,172.00
Total Operating Expenses	\$413,344.00	\$293,290.00	\$196,526.00	\$903,160.00
Production Month 1 (1000 gallons)	492900	293300	178193	964393
Production Month 2 (1000 gallons)	439800	282500	142367	864667
Production Month 3 (1000 gallons)	399800	301400	129439	830639
Quarter Production (1000 gallons)	1332500	877200	449999	2659699
Plant Capacity (1000 gallons)	1779570	1003860	889785	3673215
Average Capacity Utilized	74.88%	87.38%	50.57%	72.41%
Production Cost per 1000 gallons	\$0.310	\$0.334	\$0.437	\$0.340

	All Plants	Mgr/Admin	Lab	Pumping Costs
Personal Services	\$296,428.00	\$68,132.00	\$34,908.00	\$0.000
Utilities	\$339,765.00	\$0.00	\$0.00	\$95,715.000
Operating Materials	\$133,795.00	\$538.00	\$10,967.00	\$0.000
Miscellaneous	\$133,172.00	\$15,942.00	\$9,748.00	\$15,282.000
Total Operating Expenses	\$903,160.00	\$84,612.00	\$55,623.00	\$110,997.000
Quarter Production (1000 gallons)	2659699	2659699	2659699	2659699
Production Cost per 1000 gallons	\$0.340	\$0.032	\$0.021	\$0.042
Total Operation Cost to System			\$1,154,392.00	
Quarter Production (1000 gallons)			2659699	
Production Cost per 1000 gallons			\$0.434	

Please Note: Blue Figure is cost per 1000 gallons from plants. Red figure is total cost per 1000 gallons including lab, management, administration and pumping from re-pump stations. Cost of

1½ operators needed for after hours response are deducted from Freeman Road and added to management section. Costs do not include capitals and depreciation.

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Morrow Tank Improvement Summary: Chairman Lane called on Herbert Etheridge, Manager of Maintenance & Construction to give the Board a summary of the Morrow tank valves improvements. Guy Pihera, Manager of Water Production, showed the Board slides of the Maintenance & Construction crew making the repairs to the Morrow tank valves. Mr. Pihera stated that the Maintenance & Construction crew did an excellent job making the repairs at the Morrow water tank. Mr. Pihera stated that they replaced the needed pipes and valves in approximately 3-1/2 hours. Mr. Etheridge stated that the Board approved the replacement of these valves about three months ago. Mr. Etheridge gave the Board background information on why these valves needed to be replaced. Mr. Etheridge stated that there was a lot of sediment in the bottom of the tank, which would require that the tank be taken out of service and cleaned. Mr. Etheridge stated that taking this tank out of service would be costly to the Authority because it would require that the Authority buy water from the City of Atlanta. Mr. Etheridge stated that he received information about a contractor who could clean and vacuum the tank without taking the tank out of service. Mr. Etheridge stated that there was two hundred thousand dollars (\$200,000) in the 2000 bond issue to be used to cover the cost of replacing these valves. Mr. Etheridge stated that it was thought that this work could be done for thirty five thousand dollars (\$35,000), which the Board approved. Mr. Etheridge stated that the cost for hiring the contractor to clean the tank was twelve thousand one hundred fifty nine dollars and thirty-seven cents (\$12,159.37), which brought the total cost for changing the four valves and cleaning out the tank to forty thousand eight hundred fifty five dollars and six cents (\$40,855.06). Mr. Etheridge gave the Board additional information on the savings, to the Authority, by having his employees change these valves and not having to take the Morrow tank out of service for three or four days. Mr. Brannan stated that a lot of credit goes to the Board for the excellent attitude of the Authority's employees and for allowing the Authority to purchase the necessary equipment needed to get the job done. Chairman Lane stated that these employees should be given a Gung Ho Award for the excellent job they did in changing out these valves.

**Clayton County Water Authority
Replacement of 4 – 18” suction valves at the Morrow Pumping Station
Job Cost Recap**

Materials	\$21,540.41
Contracted Tank Cleaning	\$12,159.37
Labor	\$2,106.36
Benefits/Workers Comp	\$608.72
Overhead	\$913.32

Equipment \$526.88

Total Cost
\$40,855.06

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Total Approved
\$35,000.00

Overrun **\$5,855.06**

Estimated Purchase- Original Plan	12,000,000 Gallons	\$15,960.00
Actual Purchased Water	1,000,000 Gallons	\$1,330.00

Savings on Purchased Water	\$14,630.00
Net estimated savings	\$8,774.96

Estimated by CH2M Hill in 2000 Bond issue to cost \$200,000. By using our own forces to do this work the Authority saved approximately \$159,000.

This station normally has 4 pumps in service. The ability to use one pump was lost in May due to a broken valve. We had originally planned to remove this station from service for 3 – 4 days in October (when demand dropped) to replace these valves. In July we had a problem inside the station with a motorized valve that required another 18” valve to be closed. This valve would not close completely and at that time we lost the ability to use a second pump. This Pumping Station is the heart of our system and the loss of 2 pumps severely limited our ability to provide customers with adequate water during high use periods. We met with a vendor at the GWPCA Conference and decided to have the tank vacuumed while in service, which would allow us to change the four valves in 1 day and place the station back in service immediately. This change out was accomplished in early September. Listed above is the amount/cost of water purchased from Atlanta during the shutdown as well as an estimate of the amount/cost of purchased water if we had proceeded with our original plan, which would have required the station to be down for 3 – 4 days.

Mr. Etheridge stated that he would like to give the Board information on maximizing the efficiency of the Morrow tank and re-pump station. Mr. Etheridge showed on a map the location of the tank and water lines that feed this tank. Mr. Etheridge stated that the Authority has 16” and 20” water mains that come from W.J. Hooper WPP feeding this tank. Mr. Etheridge stated that in order for the re-pump station to run there has to be water in the tank. Mr. Etheridge stated that there are times when the tank is out of service to make repairs or for cleaning. Mr. Etheridge stated that when this happens, the Authority has limited capability of pumping water into the northern part of the Authority’s system and has to buy water from the City of Atlanta. Mr. Etheridge stated that after calculating all the cost involved with changing the four valves on the Morrow tank there was one hundred fifty nine thousand one hundred forty four dollars

and ninety-four cents (\$159,144.94) left out of the two hundred thousand dollars (\$200,000) in the 2000 bond issue for this project. Mr. Etheridge stated that he would like to use forty thousand dollars (\$40,000) of this money to put a bypass line directly into the pump station from the 20" line. Mr. Etheridge stated that when the tank is out of

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service then this bypass line could be opened and the Authority could put water directly into the pump station. Mr. Etheridge stated that this would give Mr. Pihera more flexibility in his water production operation. Mr. Etheridge stated that this would still leave one hundred and nineteen thousand one hundred forty four dollars and ninety-four cents (\$119,144.94).

**Addition of 18" Bypass Line at the Morrow Pumping Station
Job Cost Proposal**

We propose to install an 18" bypass line between the 20" fill line and the Morrow Station bypassing the Storage Tank. This would give us the flexibility to use two pumps at this station during times when the tank may be out of service for maintenance or repairs. We propose to fund this project from the remainder of the \$200,000 allocated in the 2000 bond issue for valve replacements at this station. We have estimated this project to cost approximately \$40,000.00.

Estimate to replace valves at Morrow Station		\$200,000.00
Final cost of valve replacement	\$40,855.06	
Remaining funds		\$159,144.94
Proposed Bypass cost	\$40,000.00	
Net remaining funds		\$119,144.94

Upon Motion by Don Whitman and seconded by Lloyd Joiner it was unanimously

RESOLVED: to approve forty thousand dollars (\$40,000) to install an 18" bypass line between the 20" fill line and the Morrow re-pump station bypassing the storage tank.

Marie Barber gave the Board information concerning her observation of Authority employees when they are working on water and wastewater lines where they are visible to the public. Mr. Barber stated that when she sees Authority employees working that she stops to observe what they are doing and ask questions. Mr. Barber stated that the Authority employee's are hard working and have the desire to do an excellent job. Mr. Barber stated that the employees are always courteous and answer her questions.

Line 8 Change Order: Chairman Lane called on Herbert Etheridge, Manager of Maintenance & Construction, to give the Board information on the final change order for line 8. Mr. Etheridge stated that line 8 is the water line that was installed along Morrow Road to move water out of the Morrow re-pump station. Mr. Etheridge stated that line 8 is now complete and has been in service for about three weeks. Mr. Etheridge stated that

the final change order was for a homeowner who was not satisfied with her yard. Mr. Etheridge stated that the contractor went back and put sod in this yard at a cost of three thousand dollars (\$3,000). Mr. Etheridge stated that the original contract amount was eight hundred fifty seven thousand eight hundred dollars (\$857,800). Mr. Etheridge stated that the final contract cost, including this final change order, was eight hundred

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forty six thousand two hundred fourteen dollars and thirty cents (\$846,214.30) which was eleven thousand five hundred eighty five dollars and seventy cents (\$11,585.70) below the original contract amount. There was discussion concerning this information.

**Clayton County Water Authority
Maintenance and Construction
Line 8 – 1990 Master Plan – Project Status**

Original Contract Amount		\$857,800.00
 Change Order #1		
Addition to Road Bore at S.R. 54		
Due to proposed lane addition by		
The City of Morrow on Lee St.	10' @ 225.00	\$2,250.00
 Change Order #2		
Additional Blocking at Morrow Station		\$600.00
 Change Order #3		
Additional Roadway Replacement	3,976 sq. ft. @ \$4.00	
Additional Curbing Replacement	64 lin. Ft. @ \$10.00	
Place Rip Rap on Creek Crossing	\$750.00	\$17,294.00
 Change Orders 1,2,& 3 approved by Board of Directors on April 6, 2000.		
 Change Order #4		
Additional Roadway Replacement	1,173 sq. ft. @ \$4.00	
Additional Curbing Replacement	321 feet @ \$10.00	
Additional Regrassing/ Fescue	6,163 sq. yards @ .32	\$9,874.16
 Change Order #5		
Additional Roadway Replacement	10,564 sq. ft. @ \$4.00	
Additional Sidewalk Replacement	61.50 feet @ \$14.00	
Additional Curbing Replacement	265' feet @ \$10.00	
Additional Regrassing	12,000 sq. yards @ .32	\$49,607.00
 Change Orders #4 & #5 approved by Board of Directors on June 1, 2000.		

Change Order #6

Additional Roadway Replacement	8,816 sq. ft. @ \$4.00	
Additional Sidewalk Replacement	51 feet @ \$14.00	
Additional Curbing Replacement	557 feet @ \$10.00	
Additional Fescue Grassing	10,000 sq. yards @ .32	
Add 4 – 45 degree bends at culvert	4 @ 500.00	
Add one hydrant	\$500.00	\$47,248.00
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Change Order #6 approved by Board of Directors on July 6, 2000**Change Order #7**

Deduct Ductile Iron Pipe Installed	333' @ \$30.00	
Deduct Rock Bore	50 feet @ \$500.00	
Deduct rock Excavation	1,215 cu. Yards. @ \$45.00	
Deduct Driveway Replacements	6,616.24 feet @ \$3.50	
Deduct Asphalt Parking	2,122 feet @ \$4.00	
Additional Roadway Replacement	6,412 feet @ \$4.00	
Additional curbing	155 feet @ \$10.00	
Additional Fescue Grassing	2665.55 yards @ \$.32	
Deduct Bermuda Grassing	110,000 yards @ \$.37	
Deduct Sodding	10,000 feet @ \$1.00	
Add ional work to re-install		
24" x 12" tee and valve at I-75	Lump Sum - \$2,500.00	<\$141,458.86>

Change Order #7 approved by Board of Directors on August 3, 2000**Change Order #8**

Sodding -	3,000 sq. feet @ \$1.00	\$3,000.00
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Total Contract		\$846,214.30
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Total Below Original Contract		\$11,585.70
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Mr. Brannan stated that he would like to give the Board information about the county paving Morrow Road. Mr. Brannan stated that the county had a state contract to pave Morrow Road from 54 Highway to Old Dixie Highway. Mr. Brannan stated that the county has requested that the Authority assist with the cost of materials to pave from Old Dixie to Bobwhite Trail, which is about sixteen hundred feet. Mr. Brannan stated that the reason the Authority was asked to assist in this cost was because there was no state money to do this section of Morrow Road. Mr. Brannan stated that the cost of the material for paving the sixteen hundred feet is around nineteen thousand six hundred dollars (\$19,600). Mr. Brannan stated that with the Board's authorization he would like for the Authority to subsidize the material cost. It was the consensus of the Board that the Authority pays the county nineteen thousand six hundred dollars (\$19,600) to subsidize the cost of materials needed to do this paving.

Mr. Etheridge stated that he would like to give the Board a report on the Authority's possible failing meter program. Mr. Etheridge distributed copies of the CCWA Water & Revenue Recovery Report and stated that the Authority's large meter testing program was completed last month. Mr. Etheridge stated that after the completion of the meter-testing program there were three meters that showed up on the possible

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failing meter report. Mr. Etheridge stated that the last page in the meter report that he distributed to Board members gives information about these three possible failing meters. Mr. Etheridge stated that to date the possible failing meter program, that was written by the Information Services employees, has potentially saved the Authority three hundred twelve thousand twenty six dollars and forty cents (\$312,026.40). There was discussion concerning this information.

Mr. Etheridge stated that he would like to give the Board a report on the Authority's leak detection program and distributed copies of the Leak Detection Monthly Report September 2000. Mr. Etheridge stated that this report shows information on a water leak that was found last week on 54 Highway. Mr. Etheridge stated that the water from this leak was going into a private fishing pond. Mr. Etheridge stated that this was a 63 gallons per minute water leak. Mr. Etheridge stated that to date the leak detection program has surveyed about 5.2% of the Authority's system. Mr. Etheridge stated that 28 leaks have been found which amounts to a yearly total of five hundred sixty nine thousand two hundred twenty four dollars and eighty cents (\$569,224.80) in recovered water. There was discussion concerning this information.

Chairman Lane stated that the Authority is shutting off 2000 meters a month but anticipates this amount getting much larger. Mr. Lane stated that the Authority is looking for some way to use technology to assist us in this. Mr. Lane stated that after he and other Authority employees went to a meeting in Tampa Florida that they believe the technology needed for this is at least a year away. Mr. Lane stated that as the Authority hears of other things that will help with this, Board members would be invited to go and observe them.

Flint River Road Right-of-Way Request: Chairman Lane called on Wade Brannan, General Manager, who stated that the county has requested a right-of-way on a small parcel of land owned by the Authority at Flint River Road and Roberts Road. Mr. Brannan showed the Board the location of this requested right-of-way on a map. Mr. Brannan stated that the county is planning to widen Flint River Road and needs additional right-of-way. Mr. Brannan stated that it is his recommendation that the Authority work out the same agreement they had with the county on the right-of-way on Flint River Road close to Tara Blvd. Mr. Brannan stated that the agreement would be for the County to compensate the Authority for the value of the right-of-way property, which would be

approximately fifteen hundred dollars (\$1,500), with paving or other improvements where the Authority may need the county's help.

Upon Motion by Don Whitman and seconded by Marie Barber it was unanimously

RESOLVED: that the recommendation of Management be approved to provide the County with some right-of-way on Flint River Road at Roberts Road in order for the County to widen this road and make improvements.

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CH2M Hill Water Model: Chairman Lane called on Rick Hirsekorn, of CH2M Hill, who stated that it is his pleasure to introduce Skip Martin, to report on the completed water model. Mr. Hirsekorn stated that the water modeling was a cooperative effort between Mr. Martin and his modeling staff and the Authority's staff. Mr. Martin stated that he would like for the Board to know that the Authority is doing things correctly. Mr. Martin stated that over the past ten years the Authority has done some very important key detailed things over and over, day-by-day which have made this water model successful. Mr. Martin gave the Board an informational slide presentation titled Hydraulic Water Distribution Studies. Mr. Martin stated that the purpose of the slide presentation is to help Board members understand what the water model is, why the water model is important, what the Authority will use this water model for and the status and completion of the water model. Mr. Martin went over the slide presentation giving the Board information on the Purpose, Importance, Future Use of the Model and Status – Complete. At the conclusion of the informational slide presentation Mr. Martin gave special thanks and appreciation to all of the CCWA staff that helped with the hydraulic water distribution studies. There was discussion concerning this information.

Chairman Lane requested a break at 2:50 p.m.

Chairman Lane called the meeting back to order at 3:00 p.m.

W.B. Casey WRF Detailed Design Task Order: Chairman Lane called on Mike Buffington, Program Manager, who stated that the Authority has been working with CH2M Hill for the last several months on the schematic design phase of the W.B. Casey WRF. Mr. Buffington gave the Board information on what was involved in the schematic design process. Mr. Buffington gave the Board an informational slide presentation titled W.B. Casey Water Reclamation Facility Project Definition and Schematic Design Phase. Mr. Buffington's slide presentation included information on the Design Process, Combined Casey and Jackson WRF, Major Advantages of Combined Plant, an aerial view of the location of the new and existing W.B. Casey WRF, Project Vision and Project summary. Mr. Buffington stated that the next phase would be detail design, which will include design development and preparation of construction documents. Mr. Buffington called on Rick Hirsekorn, CH2M Hill, who gave the Board

an informational slide presentation on the W.B. Casey WRF Detailed Design Task Order. This slide presentation included the following information.

**W.B. Casey WRF Detailed Design Task Order
Key Issues and Information
October 5, 2000**

I. Proposed Task Order will include detailed design and bid-related services for:

- Single, new facility to replace existing Casey & Jackson wastewater plants

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- Pumping station and force main for raw waste from Jackson site to new Casey site
- New transfer pumping station at Jackson site, to pump to Huie site

II. Costs

- Current estimated construction cost* is \$61 million, which includes a 15% contingency
- Total for detailed design of Casey and Jackson facilities in Master Plan = \$4,395,000
- W.B. Casey* schematic design (now being competed) = \$ 785,000
- W.B. Casey* detailed design Task Order (Proposed) = \$2,950,000
- Total, W.B. Casey* schematic and detailed design = \$3,735,000
- Design savings over Master Plan = \$ 660,000**

III. Proposed Detailed Design Task Order

- Proposed detailed design task order value is \$2,950,000
- Consists of approximately 600 drawings & specifications, requiring approximately 42,000 man-hours
- Does not include CM services
- Funded by 2000 Bond Issue
- Although less expensive than separate design efforts, it does involve “moving dollars forward” from original schedule

*--refers to total project, as described in Item I.

Mr. Hirsekorn stated that the detailed design proposed cost will be two million nine hundred fifty thousand dollars (\$2,950,000). Mr. Hirsekorn stated that the new W.B. Casey WRF is going to be a very straightforward effective plant that will serve the Authority's needs for years. Mr. Hirsekorn stated that the CH2M Hill team is in place and ready to go forward with this design. Mr. Hirsekorn stated that the Authority's staff had a great deal of input with great ideas to be included in the detailed design. There was discussion concerning this information with questions and Mr. Hirsekorn, Mr. Buffington and Mr. Thomas giving answers and additional information. Neal Wellons, Manager of Water Reclamation, stated that he and his employees in the Water Reclamation

Department were very pleased and impressed with the personnel from CH2M Hill. Mr. Wellons stated that CH2M Hill personnel and Water Reclamation employees have shared information and come up with what his employees think will be the ideal plant.

Upon Motion by Pete McQueen and seconded by Lloyd Joiner it was unanimously

RESOLVED: to approve the W.B. Casey WRF Detailed Design Task Order in the amount of two million nine hundred fifty thousand dollars (\$2,950,000).

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Shoal Creek WRF Bid Recommendation: Chairman Lane called on Mike Buffington, Program Manager, who gave the Board an informational slide presentation titled Shoal Creek Water Reclamation Facility Bids Opened September 21, 2000 and discussed the following information.

Shoal Creek Water Reclamation Facility Bids Opened September 21, 2000

Additions to Shoal Creek WRF

- ❖ Expansion and Complete Upgrade of Existing 2.2 MGD Plant
- ❖ Design Capacity – 4.4 MGD (ADF)
- ❖ High Degree of Treatment for Further Treatment on Constructed Wetlands at Inman Road Site
- ❖ Process Similar to Northeast WRF
- ❖ Plant Effluent Pumped to Constructed Wetlands, Reclaimed and Pumped to Shoal Creek Reservoir

Bid Tabulation

- ❖ Bids Opened September 21, 2000
 - Ruby Collins, Inc. - **\$14,633,973.**
 - 3D Enterprises Contracting Corporation – 14,689,000.
 - Southern Champion, Inc. – 14,854,101.
 - Alcon Associates, Inc. – 15,687,700.
 - Archer Western - \$16,935,455
- ❖ \$55,027 Separates Two Low Bidders
- ❖ \$220,128 or 1.5% Separates Low Bidder from Third Bidder

Additions to Shoal Creek WRF

- ❖ Robert and Company Preliminary Cost Estimate Considerably Less Than Low Bidder
- ❖ Compared Estimate with Low Bidder's Breakdown

- ❖ Reasons for Low Cost Estimate
 - Current Construction Market
 - High Labor and Material Costs
 - Missed Quantities in Estimate

Summary

- ❖ Good Group of Bids and Good Contractor
- ❖ Met with Low Bidder and reviewed Costs
 - Everything in Line
 - Good Job and Good set of Documents
 - No Areas to Substantially Reduce Cost

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- ❖ Robert and Company Cost Estimate not Accurate
- ❖ Robert and Company Design Fee is Lump Sum and not Percentage of Construction Cost
- ❖ \$14.6 Million Worth of Project in Today's Market
- ❖ Funded by Series 1998 and 2000 Bond Issues
- ❖ Robert and Company Preparing Proposal for Construction Administration and Inspection
- ❖ Recommend Award to Low Bidder

Mr. Buffington stated that it is his opinion that the low bidder, Ruby Collins, Inc., is the best contractor out of all of the bidders. Mr. Buffington stated that he has worked with Ruby Collins, Inc. in the past and that this contractor has been in business in the Atlanta area for more than 30 years. Mr. Buffington stated that it is the recommendation of he and Mike Thomas that the contract for the additions to the Shoal Creek WRF be awarded to the low bidder Ruby Collins, Inc. There was discussion concerning this information with questions and Mr. Buffington giving answers and additional information. There was discussion concerning Robert and Company's cost estimate being five million dollars low.

Upon Motion by Don Whitman and seconded by Lloyd Joiner it was unanimously

RESOLVED: to accept the low bid from Ruby Collins, Inc. with a bid price of fourteen million six hundred thirty three thousand nine hundred seventy three dollars (\$14,633,973) for the construction of the additions to the Shoal Creek WRF, contingent upon approval of insurance as required by the specifications and authorize the General Manager to sign the contract documents.

Mike Thomas, Program Manager, stated that he would like to update the Board on how the cost of the combined Casey & Jackson WRF and the Shoal Creek WRF expansion will impact the Authority's program over the long run and the next bonding period. Mr. Thomas stated that there have been several issues that need to be looked at as the Authority moves into the Master Plan process. Mr. Thomas stated that the

Authority's Master Plan is a twenty-year plan and will continue to change and be adjusted as we go along. Mr. Thomas stated that the program has not changed but that different facets of the program are moving at different paces. Mr. Thomas gave the Board an informational slide presentation.

Capital Improvement Plan Revisions

- ❖ Combination of Casey & Jackson Plant
- ❖ Shoal Creek WRF Expansion – cost significantly higher than estimate
- ❖ Constructed wetlands – Accelerating Shoal Creek/Inman Rd. but will delay Huie
- ❖ Total funds to construct a project must be available when contract is signed

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2000 Bond Issue Revision

	ORIGINAL PLAN	REVISED PLAN
Casey & Jackson WRF	\$13,120,000	\$3,735,000
Huie Wetlands	\$4,590,000	\$590,000
Shoal Creek WRF	0	\$5,100,000
Inman Rd Wetlands Property	0	1,500,000
Conveyance & SCADA	\$800,000	\$800,000
Hooper WPP	\$1,250,000	\$1,250,000
Advance Disinfection	\$1,220,000	\$820,000
Distribution & Tanks	\$1,905,000	\$1,700,000
Program Management	0	\$400,000
TOTAL	\$22,960,000	\$15,520,000

Capital Improvements Budget FY 2001-2005

	ORIGINAL PLAN	REVISED PLAN
Wastewater System	\$124.5	\$139.4
Water System	\$48.0	\$42.0
Management Systems	\$7.9	\$7.1
TOTAL	\$180.4	\$188.4

Mr. Thomas stated that he and Mr. Brannan went to the Clean Water Initiative meeting. Mr. Thomas stated that this was the Metro Atlanta Chambers task force to talk about regional water problems. Mr. Thomas stated that it looks like it will involve some kind of regional board to oversee water quality issues. Mr. Thomas stated that this board would have the authority to make determinations on how much wastewater capacity governments get. Mr. Thomas stated that the Authority needs to get discharge permit requests in to EPD and get the waste load allocations that are needed before this regional board gets set up and has the ability to say whether or not the Authority needs this. There

was discussion concerning this information with questions and Mr. Thomas and Mr. Buffington giving answers and additional information. Mr. Brannan stated that Mike Thomas, Mike Buffington and Frank Conort meet on a regular basis to discuss the finances of the Master Plan projects.

Maintenance Building Bid Recommendation: Chairman Lane called on Wade Brannan, General Manager, who stated that in the Authority's budget there were provisions to construct two building expansions at our Jack H. Drew complex and one additional building at the Casey WRF. Mr. Brannan stated that there were three bids received for the expansions and construction of these buildings. Mr. Brannan stated that it is his recommendation that at this time these bids be deferred or rejected. Mr. Brannan stated that he might bring these building expansions and construction back to the Board later in the budget year or defer these buildings until the Authority's next budget year. Mr. Brannan stated that he has some concerns about revisions that might need to be made

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at the Casey site where the Authority plans to put a maintenance building. Mr. Brannan stated that he talked with the staff about these two building expansions and they have agreed that this construction can be deferred until a later time. Mr. Brannan stated that his recommendation is to reject these bids. There was discussion concerning this information.

Upon Motion by Marie Barber and seconded by Pete McQueen it was unanimously

RESOLVED: that the bids for the building construction be rejected at this time.

King Road Water Line Extension: Chairman Lane called on Wade Brannan, General Manager, who stated that the King Road water line extension was discussed at an earlier Board meeting. Mr. Brannan showed on a map, the location of a 23-acre subdivision that will have approximately 73 building lots, on King Road off of State Route 139. Mr. Brannan also showed the location of the Authority's water line that will need to be extended to serve this subdivision. Mr. Brannan stated that there is an issue concerning the developer having to pay the cost of having a sewer meter installed. Mr. Brannan stated that this proposed subdivision is located in Riverdale and that Riverdale could serve this subdivision with water. Mr. Brannan stated that Riverdale has agreed to let the Authority serve this subdivision with water. Mr. Brannan stated that in order for the Authority to run water to this subdivision it would require that we extend our existing water line about twelve hundred feet. Mr. Brannan stated that it would be cheaper for Riverdale to serve this subdivision, but this would require that the developer put in a sewer meter. Mr. Brannan stated that the cost of the sewer meter would be six or seven thousand dollars with an additional cost of eight to nine thousand dollars a year to keep this meter serviced and in good operating condition. Mr. Brannan stated that this would

not be a good operational situation for the Authority because in the long term the Authority would have to take over the upkeep of the sewer meter. Mr. Brannan stated that he recommends the Authority extend our existing water line with the developer paying the materials cost. Mr. Brannan stated that this material cost would be around fourteen thousand dollars (\$14,000). Mr. Brannan stated that the labor cost, with the Authority doing the work, would be around ten thousand dollars (\$10,000). There was discussion concerning the information.

Upon Motion by Lloyd Joiner and seconded by Pete McQueen it was unanimously

RESOLVED: that the recommendation of Mr. Brannan be approved to extend the Authority's water line with the developer paying the materials cost and the Authority furnishing the labor.

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Chairman Lane stated that he would entertain a motion for the Board to go into executive session to discuss personnel matters and consult with legal counsel.

Upon Motion by Marie Barber and seconded by Lloyd Joiner it was unanimously

RESOLVED: that the Board adjourns into executive session and the Board reserves the right to return to the open session.

Chairman Lane called the regular session Board meeting back to order.

Mr. Brannan gave the Board information concerning a request from a former Authority employee who was terminated in 1982. Mr. Brannan stated that this former employee requested that he be given credit for an additional year of service toward his retirement benefits. There was discussion concerning this information.

Upon Motion by Lloyd Joiner and seconded by Pete McQueen it was unanimously

RESOLVED: that the request, from this terminated employee, to be given an additional year of service toward his retirement benefits be denied.

Mr. Fincher gave the Board information concerning the Board requested changes to the Authority's enabling legislation. There was discussion concerning the information given by Mr. Fincher. Mr. Fincher stated that he prepared a second Resolution draft for the Board's consideration.

Upon Motion by Don Whitman and seconded by Lloyd Joiner it was unanimously

RESOLVED: to adopt the following Resolution 2000-06

STATE OF GEORGIA

COUNTY OF CLAYTON

A RESOLUTION NO. 2000 - 06

WHEREAS, in 1955 the Board of Commissioners of Clayton County, Georgia elected to create a Water Authority;

WHEREAS, Georgia Laws 1955, page 3334, created the Board of the Clayton County Water Authority and set fourth the requirements for the call of all special meetings of the Water Authority Board;

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WHEREAS, special meetings of the Clayton County Water Authority may be called by the Chairman of the Clayton County Water Authority, or by a majority of the members thereof;

WHEREAS, Georgia Laws 1955, page 3344, and subsequent amendments now provide that “[e]ach member of the authority shall be given at least three days written notice of each special meeting”;

WHEREAS, the Clayton County Water Authority desires to change the number of days notice and expand the manner of notice for special meetings;

WHEREAS, the compensation and benefits section of the enabling legislation has been previously amended by local law under Georgia Laws 1961, page 3130; Georgia Laws 1982, page 3721; Georgia Laws 1987, page 5488; and Georgia Laws 1999, page 4673; and

WHEREAS, the Clayton County Water Authority desires to officially request from the Clayton County Board of Commissioners a Resolution be passed by the Commissioners providing that the Authority have access to employment benefits as approved by the Board of the Authority.

NOW THEREFORE, BE IT AND IT IS HEREBY RESOLVED THAT:

The Clayton County Water Authority hereby officially requests that the Board of Commissioners of Clayton County, Georgia issue a Resolution to the State Legislative Delegation of Clayton County, Georgia seeking a legislative amendment that shall include the Legislative changes set fourth in the attached Exhibit.

SO RESOLVED this ____ day of, _____ 2000.

ATTEST:

CLAYTON COUNTY WATER AUTHORITY

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H. Lindy Rogers, Secretary

Joe T. Lane, Chairman

Donald E. Whitman, Vice Chairman

Pete McQueen, Board Member

Wesley E. Greene, Sr., Board Member

Lloyd B. Joiner, Board Member

Marie Barber, Board Member

APPROVED AS TO FORM:

Steven M. Fincher, Attorney for
Clayton County Water Authority

**BILL TO BE ENTITLED
AN ACT**

To amend an Act creating the Clayton County Water Authority, approved March 7, 1955 (Ga. L. 1955, p. 3344), as amended, so as to provide guidelines to call special meetings; to expand the method of notice for special meetings; to change the compensation of the officers and

members of the authority; to provide an effective date; to repeal conflicting laws; and for other purposes.

BE IT ENACTED BY THE GENERAL ASSEMBLY OF GEORGIA:

SECTION 1.

An Act creating the Clayton County Water Authority, approved March 7, 1955 (Ga. L. 1955, p. 3344), as amended, is amended by striking subsection (a) of Section 4 in its entirety and substituting in lieu thereof a new subsection (a) to read as follows:

“(a) The said water system is to be constructed, maintained and operated for and on behalf of said county by a seven-person board to be known as the Clayton County Water Authority. The members of the board shall be appointed by the governing authority of said county. The terms of the members shall be five years. The terms of the members shall be staggered. The staggering of the terms of future members shall be consistent with the staggered terms of those members in office on June 30, 2001. It is not the intent of this section to increase nor decrease the terms of any member in office on June 30, 2001. It is the intention of this section to continue the mechanism existing on June 30, 2001 providing staggered terms. All members shall serve until their successors are appointed and qualified. The governing authority

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of the county shall fill any vacancy which occurs on the authority, for the unexpired term. The members shall elect a chairman, vice-chairman and secretary who shall serve for such periods as shall be fixed by the authority. The authority shall make a report of its actions to the grand jury for the November term of the superior court of said county. A majority of the members shall constitute a quorum for the transaction of business. A regular meeting shall be held once each month on a day to be set by the authority. Either the chairman or a majority of the other members of the authority shall have the right to call a special meeting. Each member of the authority shall be given at least twenty-four hours notice of each special meeting. Such notice shall be delivered either in person, by telephone, by fax, or by written notice delivered to such member's regular place of abode. The authority shall employ an attorney and provide for his compensation, and shall employ such other employees as the authority shall deem proper for the transaction of business and provide the compensation therefore. All such compensations shall be payable out of the earnings of said authority. No member of the present Clayton County Water Authority shall be eligible to hold an elective public office of the State, county or a municipality unless first resigning as a member of the authority. No person shall be eligible for future appointment to the Clayton County Water Authority who is serving in an elective public office of the State, county or a municipality. The authority shall succeed to and be vested with all the powers, duties and authority of the authority presently existing and it shall be a continuation of the presently existing authority.”

SECTION 2.

An act creating the Clayton County Water Authority, approved March 7, 1955 (Ga. L. 1955, p. 3344), as amended, particularly by an Act approved April 4, 1963, (Ga. L. 1963, p.

2967), is amended by striking subsection (b) of Section 4 in its entirety and substituting in lieu thereof a new subsection (b) to read as follows:

“(b) The Chairman shall be compensated in the amount of \$350.00 per month, the Secretary \$325.00 per month, and each of the other members \$300.00 per month. In addition thereto, the Board members may receive such other employment benefits, such as medical insurance, disability insurance, and the like, as are provided to the Authority’s other employees. These benefits shall be established by the Board of the Authority, by action taken at an open, regular Board meeting; provided that prior to any final decision, the Authority shall provide to the Chairman of the Board of Commissioners of Clayton County ten (10) days written notice of the intent to establish these benefits and the proposed level thereof. The costs for this compensation shall be payable out of the earnings of the Authority.”

SECTION 3.

An act creating the Clayton County Water Authority, approved March 7, 1955 (Ga. L. 1955, p. 3344), as amended, particularly by an Act approved April 4, 1963, (Ga. L. 1963, p. 2967), is amended by striking Section 4A in its entirety and reserving Section 4A as follows:

“Section 4A. Reserved.”

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SECTION 4.

This Act shall become effective on July 1, 2001.

SECTION 5.

All laws and parts of laws in conflict with this Act are repealed.

There was a Board discussion concerning the performance evaluation and the percentage amount adjustment to the salary of the Authority’s General Manager, Wade Brannan.

Upon Motion by Pete McQueen and seconded by Marie Barber it was unanimously

RESOLVED: that the pay compensation for the Authority’s General Manager, Wade Brannan, be adjusted to reflect an eight per cent (8%) pay increase.

Chairman Lane gave the Board information concerning a power plant in Lakeland, Florida that uses effluent water to cool their turbines. Mr. Lane stated that Mr. Brannan is in the process of making arrangements for Board members to go and tour this power plant. Mr. Lane gave the Board information on the status of the Authority’s negotiations

with Duke Energy North America Power Company. Mr. Brannan stated that Duke Energy North America Power Company has asked for access to the Authority's property to do some seismic surveying. Mr. Brannan stated that he would like the Board's authorization to allow Duke Energy North America Power Company access to the Authority's property in order to do this seismic surveying. There was discussion concerning this information.

Upon Motion by Pete McQueen and seconded by Lloyd Joiner it was unanimously

RESOLVED: to approve the request from Mr. Brannan to allow Duke Energy North America Power Company access to the Authority's property in order to do the seismic surveying.

Chairman Lane gave the Board information concerning the negotiations with Duke Energy North America Power Company to acquire property for the Authority plus pay a substantial ground lease for the Authority's property. Mr. Brannan gave the Board additional information concerning why Duke Energy North America Power Company would need to acquire property for the Authority and how the Authority would use this property. There was discussion concerning this information.

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There was a Board discussion concerning Mr. Greene resigning from the Authority Board and canceling his reservations to the WEFTEC 2000 Conference.

They're being no further business to come before the open meeting the meeting was adjourned.

Joe T. Lane, Chairman

H. Lindy Rogers, Secretary/Treasurer