

CLAYTON COUNTY WATER AUTHORITY

1600 Battle Creek Road
Morrow, Georgia 30260

Regular Board Meeting February 1, 2001

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, Dennis Hammock, Gary Howe, Herbert Etheridge, Jr., Guy Pihera and Richard Calhoun, Executive Secretary, Patricia Groover, Assistant Manager of Administration, Scott Bailey, Project Managers, Mike Thomas & Mike Buffington, Engineer, Cliff Beronet, Contracts and Procurement Administrator, Karen Riser, Administrative Secretary, Dianne Hammock, Human Resources Director, Ed Durham, Programmer Analyst, Tim Whitlock and Water Service Mechanic Crew Leader, David Watts. Also present were: Steve Fincher, Fincher & Hecht, L.L.C., Rick Hirsekorn, of CH2M Hill, Chris & Farrar Wood, of Jim Wood & Associates Public Relations, Bill Johnston, Banc of America Securities, LLC., William Rauschenberg, Risk Management Consultant with Risk Management Consulting, Inc., Marcia Bost, The Clayton Review and Visitor, Melissa Barnett Castillo.

Chairman Lane called on David Watts, Water Service Mechanic Crew Leader, to give the invocation.

Chairman Lane called for any omissions or additions to the minutes of the regular and executive Board meeting on January 4, 2001 hearing none, Chairman Lane stated that he would entertain a motion for approval of these minutes.

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

RESOLVED: that the minutes of the regular and executive Board meeting on January 4, 2001 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 called on Scott Bailey, Assistant Manager of Administration, to give the Board additional information on the Authority's financial trend analysis. Mr. Bailey discussed the information shown on the graphs and chart listed below which were distributed to Board members. Projected FY 2001 Operating Revenues vs. Budgeted Operating Expenses Actual Through December, Operating Revenues vs. Actual

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Revenues Through December, Operating Expenses vs. Actual Expenses Through December and informational chart titled Projected FY 2001 Revenues vs. Expenses by Month Actual Through December. There was discussion concerning this information.

Recognition of Clifford Beroset, Program Management Section: Chairman Lane introduced Cliff Beroset and stated that Mr. Beroset worked his way through school in order to earn an Engineering Degree. Mr. Lane stated that after Mr. Beroset earned his engineering degree he had to work a total of seven years in the engineering field before he could take the State Examination for Professional Engineers. Mr. Lane stated that he would like to congratulate Mr. Beroset, who recently took and passed the State Examination for Professional Engineers. Mr. Lane stated that Mr. Beroset is an outstanding employee and the first Professional Engineer to work for the Authority. Mr. Lane called on Mike Thomas, Program Manager, who stated that he is proud of Mr. Beroset and happy to have him working in the Program Management Section. Mr. Lane stated that on behalf of the Board that he would like to congratulate Mr. Beroset on his hard work and accomplishments.

CCWA Safety Program Update: Chairman Lane called on Neal Wellons, Manager of Water Reclamation, who gave an informational slide presentation on the Authority's Safety Program. Mr. Wellons stated that the Authority's employee accident rate went up a small amount over the last few years. Mr. Wellons stated that the growth of the Authority and increase in the number of employees is one of the contributing factors in the increase in employee accidents. Mr. Wellons stated that one of the most important accomplishments of the Authority's safety program is that the Authority's lost time accidents are extremely low. Mr. Wellons stated that lost time accidents are when an accident causes an injury serious enough to cause the employee to lose time off work. Mr. Wellons stated that this lost time accident could be from one day to several years and is what differentiates minor accidents from serious accidents. Mr. Wellons stated that by lowering the number of lost time accidents the safety program has saved the Authority money. Mr. Wellons stated that compared with other water utilities lost time accident averages, which were supplied by the National Safety Counsel, the Authority's average looks extremely good. Mr. Wellons stated that he is proud all of the Authority's employees and the Authority's safety program. Mr. Wellons stated that the success of the Authority's safety program required all the Authority's employees to work together. Mr. Brannan stated that Mr. Wellons takes a personal interest in safety and should be commended for doing an excellent job in managing the safety program for the Authority. Mr. Brannan stated that Mr. Wellons and all of the members of the safety committee, past and present, have dedicated a lot of time and effort into the Authority's safety program. Chairman Lane stated that on behalf of the Authority and the Board he is very grateful to

Mr. Wellons and all of the safety committee members for doing an excellent job with the Authority's safety program.

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Leak Detection Monthly Report: Chairman Lane called on Herbert Etheridge, Manager of Maintenance & Construction, who updated the Board on the road bore at the intersection of S.R. 138/S.R. 42 that was approved at last months meeting. Mr. Etheridge stated that this project was completed 10 days after it was approved. Mr. Etheridge stated that he appreciated the Board approving this project, which allowed the project to be completed ahead of time and saved the Authority approximately sixty thousand dollars (\$60,000). Mr. Etheridge reported on the Authority's leak detection program for the month of January. Mr. Etheridge discussed the information in the leak detection report for the month of January that was distributed to Board members. Chairman Lane stated that only 9% of the Authority's total water lines have been checked and the Authority has already recovered almost one million six hundred thousand dollars (\$1,600,000) in unaccounted for water loss. Mr. Lane stated that on behalf of the Board that he would like to thank Mr. Etheridge and the leak detection employees for doing an outstanding job with the leak detection program. Mr. Lane gave the Board information about the Authority meeting with water leaders from other counties. Mr. Lane stated that it is his opinion these people are impressed with what the Authority is doing in the Master Plan and with the leak detection and meter-testing program.

**CCWA
LEAK DETECTION
January 2001**

Month of January							Progress to Date			
Size	Footage	Leaks	Repaired	GPM	GPYear	Value	Footage	Leaks Repaired	GPYear	Value
3/4"	80.0	2	2	15	7,884,000	\$21,286.80	3075.5	24	91,454,400	188,427.60
1"	162.0	0	0	0	0	\$0.00	726.9	4	69,904,800	139,809.60
2"	16,387.3	2	2	65	34,164,000	\$92,242.80	53,348.0	16	85,373,000	194,734.00
6"	57,240.6	1	1	10	5,256,000	\$14,191.20	308,043.7	6	388,944,000	781,567.20
8"	66,989.2	0	0	0	0	\$0.00	131,733.8	3	142,963,200	285,926.40
10"	0	0	0	0	0	\$0.00	6,484.5	0	0	0.00
12"	0	0	0	0	0	\$0.00	26,338.3	1	1,576,800	3,153.60
16"	0	0	0	0	0	\$0.00	28,344.0	0	0	0.00
20"	0	0	0	0	0	\$0.00	10,205.0	0	0	0.00
24"	0	0	0	0	0	\$0.00	39,858.9	0	0	0.00
30"	0	0	0	0	0	\$0.00	0	0	0	0.00

36"	0	0	0	0	0	\$0.00	0	0	0	0.00
TOTAL	140,859.1	5	5	90	47,304,000	\$127,720.80	608,158.6	54	780,216,200	\$1,593,619. 20

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Cycle of Water Video: Chairman Lane stated that with the Board's approval the Authority had a video made titled The Cycle of Water. Mr. Lane stated that this video presents information about the Authority in an educational format. Mr. Lane stated that the Authority is in the process of having a second video made. Mr. Lane stated that this video would be used by the Authority's Human Resources Department to help with orientation of new employees and other programs. Mr. Brannan stated that at this time he would like to show the Board The Cycle of Water video. At the completion of the video Mr. Brannan stated that this video is used as an educational tool to show to visitors such as the Grand Jury, tour groups and school programs. Mr. Brannan stated that Chris and Farrar Wood were instrumental in helping put this video together. Mr. Brannan stated that he would like to update the Board on another public relations issue. Mr. Brannan stated that this public relations issue is the National Pollutant Discharge Elimination System (NPDES) Permit for the Shoal Creek Wetlands. Mr. Brannan stated that the Authority will need to do some public relations work with Spalding and Fayette County because of the possibility of discharging into the Flint River.

Water Production Update: Chairman Lane stated that the Water Supply Update Report that is produced by the Water Production Department and distributed to Board members each week is an excellent report that is very informative. Mr. Lane called on Guy Pihera, Manager of Water Production, who reported on the Authority's water production status. Mr. Pihera stated that he received a Drought Report that was produced by the State of Georgia for the years 1998 through 2000. Mr. Pihera stated that according to this report the State of Georgia has been in an exceptional drought for quite sometime. Mr. Pihera gave the Board an informational slide presentation on some of the excerpts from this drought report. This slide presentation included informational graphs showing the condition of the stream flows and ground water levels in Georgia and the water level in Lake Lanier. Mr. Pihera stated that the water level in Lake Lanier at this time is 7 feet lower than it was at this time last year, which is a major concern to the State EPD. Mr. Pihera showed a graph comparing the raw water levels in the Authority's reservoirs at this time to last year at the same time. Mr. Pihera gave the Board additional information concerning the raw water levels of the Authority's reservoirs and stated that the Authority's raw water levels at this time are almost the same as last year. Mr. Pihera gave information and showed a graph of the Authority's finished water production from 1999 through the present. Mr. Pihera stated that the Authority's finished water production and demand has leveled out at an unseasonably high level for this time of

year, which is about 27.5 MGD. Mr. Lane requested that Mr. Pihera produce a graph to see if the Authority's customers are using any water conservation measures due to the Authority's rate increases. Mr. Pihera stated that he would like to add additional information to the leak detection report presented by Mr. Etheridge. Mr. Pihera stated that the recovered unaccounted for water loss of over 780 million gallons per year is equivalent to about one month of the Authority's production at the water plants. Mr. Pihera stated that not only is the leak detection program saving the Authority revenue in

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finished water production it is also saving the Authority's raw water reserves. Mr. Pihera gave an informational slide presentation and discussed the information in the Backflow Prevention an Interdepartmental Program Briefing for the Clayton County Water Authority Board of Directors February 1, 2001, manual that was distributed to Board members. Mr. Pihera updated the Board on the Water Use Policy that was approved by the Board and stated that the Authority is in the process of putting this policy into effect. There was discussion concerning this information.

Jesters Creek Rehab Contract Extension: Chairman Lane called on Gary Howe, Manager of Engineering, who stated that at last years October meeting the Board approved the bid from Macba Sewer & Pipeline, Inc. for rehab work on Jester's Creek outfall. Mr. Howe stated that this project is now complete. Mr. Howe discussed the following information that was distributed to Board members concerning the Jester's Creek outfall rehab.

**Jester's Creek Outfall Rehab
Macba Sewer & Pipeline, Inc.
Awarded October 2000**

Contractor Bid Price (Labor & Equipment)	\$97,030.00
CCWA Material Cost (Estimated)	<u>\$50,000.00</u>
Total Estimated Project Cost	\$147,030.00
Actual Contractor Cost	\$91,834.00
Actual Material Cost	<u>\$10,445.00</u>
Total Project Cost (02/01/01)	\$102,279.00
2000 Bond Issue (Rehab Funding)	\$300,000.00
Total Remaining Rehab Funding	\$197,721.00

NOTE: Actual contractor cost reflects a \$5,196.00 unit price reduction due to improved condition of some rehab work. Recommend contract extension at contractor bid unit cost to continue rehabilitation work on Jester's Creek Outfall.

Mr. Howe stated that the contractor dropped his bid price by five thousand one hundred ninety six dollars (\$5,196) due to the fact that this project did not require as much labor as was first estimated. Mr. Howe stated that in the 2000 bond issue under sewer line rehab funding there was three hundred thousand dollars (\$300,000). Mr. Howe stated to date that there has only been one hundred two thousand two hundred seventy nine dollars (\$102,279) spent which leaves a total of one hundred ninety seven thousand seven hundred twenty one dollars (\$197,721) remaining in the 2000 bond issue sewer line rehab fund. Mr. Howe stated that he would like to ask the Board to allow an extension of the contract with Macba Sewer & Pipeline, Inc. by an additional one

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hundred thousand dollars (\$100,000). Mr. Howe stated that this contract extension would allow Macba Sewer & Pipeline, Inc. to do additional rehab work on the Jester's Creek outfall line. There was discussion concerning this information.

Upon Motion by Pete McQueen and seconded by Don Whitman it was unanimously

RESOLVED: that the contract with Macba Sewer & Pipeline, Inc. be extended to do additional rehab work on the Jester's Creek outfall line not to exceed one hundred thousand dollars (\$100,000).

Rum Creek Contract Update: Chairman Lane called on Gary Howe, Manager of Engineering, who updated the Board on the completion of the Rum Creek outfall phase III project. Mr. Howe stated that this project is now complete. Mr. Howe discussed the following information that was distributed to Board members. Mr. Howe stated that this project bid for two hundred forty eight thousand eight hundred thirty seven dollars and fifty cents (\$248,837.50). Mr. Howe stated that the actual cost of the completed project was one hundred ninety seven thousand four hundred eighty three dollars and thirty-five cents (\$197,483.35.) which was a contract savings of fifty one thousand three hundred fifty four dollars and fifteen cents (\$51,354.15). There was discussion concerning this information.

PAYMENT CERTIFICATE

Payable to: Gary's Grading & Pipeline Co., Inc. 7434 Highway 81, Monroe, GA 30656

Project: Rum Creek Outfall Phase III

From: June 30, 2000 to January 18, 2001

Job No. 899-40

Estimate No. 4 (semi final)

Item No.	Items	Contract Breakdown			Completed to Date	
		Unit	Unit Price	Amount	No of Units	Amount
1	0'-6' Cut (Class 26) 10" PVC Sewer	47 L.F.	12.50	587.50	46 L.F.	575.00

2	6'-8' Cut (Class 26) 10" PVC Sewer	2,384 L.F.	26.00	61,984.00	2,383 L.F.	61,958.00
3	8'-10' Cut (Class 26) 10" PVC Sewer	409 L.F.	18.00	7,362.00	391 L.F.	7,038.00
4	10'-12' Cut (Class 26) 10" PVC Sewer	40 L.F.	25.00	1,000.00	39 L.F.	975.00
5	0'-6' Cut (Class 26) 8" PVC Sewer	596 L.F.	12.50	7,450.00	645 L.F.	8,062.50
6	6'-8' Cut (Class 26) 8" PVC Sewer	1,047 L.F.	15.00	15,705.00	1,003 L.F.	15,045.00
7	8'-10' Cut (Class 26) 8" PVC Sewer	697 L.F.	18.00	12,546.00	679 L.F.	12,222.00
8	10'-12' Cut (Class 26) 8" PVC Sewer	181 L.F.	20.00	3,620.00	148 L.F.	2,960.00
9	12'-14' Cut (Class 26) 8" PVC Sewer	72 L.F.	25.00	1,800.00	67 L.F.	1,675.00
10	14'-16' Cut (Class 26) 8" PVC Sewer	6 L.F.	30.00	180.00	6 L.F.	180.00
11	16'-18' Cut (Class 26) 8" PVC Sewer	2 L.F.	35.00	70.00	0 L.F.	-
12	Manhole Construction	305 V.F.	75.00	22,875.00	280.8 V.F.	21,060.00
13	Manhole Ring & Cover (Bolt Down & Water Tight)	29 EA.	50.00	1,450.00	31 EA	1,550.00
14	Regrassing	25,000 S.Y.	0.50	12,500.00	18,178 S.Y.	9,089.00

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15	Installation of Silt Fence w/Hay bales	5,700 L.F.	4.50	25,650.00	2,000 L.F.	9,000.00
16	RipRap (20 lb.)	30 Tons	10.00	300.00	138 Tons	1,380.00
17	6" PVC Pipe (All Cuts)	120 L.F.	10.00	1,200.00	36 L.F.	360.00
18	8" x 6" PVC Tee	3 EA.	150.00	450.00	9 EA	1,350.00
19	18" Steel Casing 1/8" D.I. Carrier Pipe, .25 Wall, Bare Metal Casing	60 L.F.	150.00	9,000.00	80 L.F.	12,000.00
20	Paving removed & replaced with 6" of concrete below asphalt	130 L.F.	30.00	3,900.00	130 L.F.	3,900.00
21	Fill in of abandoned lift stations w/sand	3 EA.	2,000.00	6,000.00	3 EA	6,000.00
22	Tap & Reconstruct invert	1 EA.	1,600.00	1,600.00	1 EA	1,600.00
23	Fill existing wet well w/crush & run & Construction invert	2 EA.	2,000.00	4,000.00	3 EA	6,000.00
24	Misc. Concrete	10 C.Y.	75.00	750.00	0 C.Y.	-
25	10" D.I. Pipe (In addition)	108 L.F.	3.00	324.00	93 L.F.	279.00
26	8" D.I. Pipe (In addition)	378 L.F.	3.00	1,134.00	397 L.F.	1,191.00
27	PVC to D.I. Trans. Coupling	8 EA.	50.00	400.00	8 EA	400.00
28	Rock Excavation	1,000 C.Y.	45.00	45,000.00	258.53 C.Y.	11,633.85
29	Change Order No. 1			(51,354.15)		
	Total			197,483.35		

Contractor: _____ Title _____
 Date: _____
 Inspector: _____
 Date: _____
 Dept. Manager: _____
 Date: _____
 General Manager: _____

Total Amount of Estimate	197,483.35
Retained 5 Per Cent	9,874.17
Net Amt of this Estimate	187,609.18
Previous Net Estimate	159,101.11

Amount Payable 28,508.07

CHANGE ORDER

Contractor	Gary's Grading & Pipeline Co., Inc.	C.O. No.	1
Address	7434 Highway 81, Monroe, GA 30656	Date	1/18/01
Owner	Clayton County Water Authority	Address:	1600 Battle Creek Road, Morrow, GA 30260

Project:	Rum Creek Outfall Phase III	Location:	
Job Number:	899-40	Contract Number:	

Changes in connection with the reference contract have been approved as follows:

DESCRIPTION OF CHANGE		AMOUNT
1. Cost Adjustment on Line Items: 1,2,3,4,5,6,7,8,9,11,12,13,14,15,16,17,18,19, 23,24,25,26,28		(\$54,354.15)
APPROVED:	Total this C.O. Deduct	(\$51,354.15)
Contractor Gary's Grading & Pipeline Co., Inc.	Prev. Contract Amount thru C. O. No. 0	\$248,837.50
By: _____	Date _____	

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Owner			
Inspector: Larry Bethune	Date 01/23/01	Deduct this C.O. No.	(\$51,354.15)
Dept. Manager:	Date	Revised Contract Amount	\$197,483.35
General Manger:	Date		

ACTUAL CONTRACT SAVINGS (\$51,354.15)

Addition to Administration Building Bid Recommendation: Chairman Lane called on Mike Buffington, Program Manager, who stated that the Authority received bids for construction of the addition to the administration building. Mr. Buffington gave an informational slide presentation showing the planned construction. Mr. Buffington stated that there were eight bids received. Mr. Buffington stated that the low bidder was Hughes Company, Inc. located in Riverdale, Georgia with a bid in the amount of one million two hundred fifty seven thousand five hundred dollars (\$1,257,500). Mr. Buffington stated that this bid amount is considerably lower than the budgeted amount. Mr. Buffington stated that the Authority has not worked with Hughes Company, Inc. and neither has Manley Spangler Smith Architects. Mr. Buffington stated that the Authority received Hughes Company, Inc.'s qualification package and when the Authority checked references, very good recommendations were received. Mr. Buffington stated that it is his recommendation that the contract for construction of the addition to the administration building be awarded to the low bidder Hughes Company, Inc. Mr. Buffington stated that this contract does include the lobby work and the customer service counter area with the bulletproof glass. There was discussion concerning this information.



BID TABULATION
ADDITIONS TO ADMINISTRATION BUILDING

Bids Received: January 30, 2001, 2:00 PM, Local Time

<u>Bidder</u>	<u>Bid Amount</u>
1. Hughes Company, Inc. 6275 Highway 85, Bldg. E Riverdale, GA 30274	\$ 1,257,500.00
2. Hensler & Beavers, General Contractors, Inc. 3836-B Stewart Road Doraville, GA 30340	\$ 1,289,136.00
3. John L. Hunter Const. Co., Inc. 5330 Oakdale Road Smyrna, GA 30082	\$ 1,298,930.00
4. Torrance Construction Co. 1955 Roanoke Road LaGrange, GA 30241	\$ 1,307,000.00

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5. Triad Construction Co., Inc. 1777 Phoenix Parkway, Suite 301 Atlanta, GA 30349	\$ 1,320,000.00
6. R. K. Redding Construction, Inc. P. O. Box 426 Bremen, GA 30110	\$ 1,345,371.00
7. Ricks Contractors, Inc. P. O. Box 565 Buford, GA 30505	\$ 1,352,000.00
8. Leslie Contracting, Inc. 205 Jeff Davis Place Fayetteville, GA 30214	\$ 1,409,000.00

Note: Bid amount includes base bid and lobby service counter with bullet resistant glass.

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

RESOLVED: that the contract for construction of the addition to the administration building be awarded to the low bidder Hughes Company, Inc. for the low bid amount of one million two hundred fifty seven thousand five hundred dollars (\$1,257,500), contingent upon approval of insurance as required by the specifications and authorize the General Manager to sign the contract document.

Professional Liability Insurance Recommendation: Chairman Lane called on Wade Brannan, General Manager, who stated that he previously discussed with the Board the Authority's need for additional professional liability insurance. Mr. Brannan stated that the professional liability insurance would be in the amount of twenty million dollars (\$20,000,000), which would be additional insurance above what is carried by the Authority's engineering company CH2M Hill. Mr. Brannan discussed the information from Risk Management Consulting, Inc. concerning Owners Professional Indemnity Coverage that was distributed to Board members. Mr. Brannan stated that this insurance is a one-time premium totaling one hundred fifty six thousand dollars (\$156,000). Mr. Brannan stated that the proposed Owners Professional Indemnity policy would protect the Authority for five years in connection with the one hundred eighty million dollars (\$180,000,000) in work with a five-year tail after the projects are completed for claims to be filed. Mr. Brannan stated that he recommends that the Authority acquire this Owners Professional Indemnity policy. There was discussion concerning this information.

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

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RESOLVED: that the Authority acquire the Owners Professional Indemnity Policy at a one time cost of one hundred fifty six thousand dollars (\$156,000) which gives the Authority twenty million dollars (\$20,000,000) protection in connection with the one hundred eighty million dollars (\$180,000,000) in work to be accomplished over a five year period, and carries a five year tail after the projects are completed for claims to be filed.

Woolsey Road Sewer Improvements Update: Chairman Lane called on Wade Brannan, General Manager, who stated that the Woolsey Road sewer improvements were previously discussed with the Board. Mr. Brannan showed on a map the location of the Woolsey Road sewer main and stated that because of development in Clayton and Henry County this sewer main will need to be expanded. Mr. Brannan stated that this is a joint project with the developers in this area, Henry County Water Authority and Clayton County Water Authority sharing in the cost. Mr. Brannan stated that the Authority's share of the cost is eighty seven thousand five hundred dollars (\$87,500). Mr. Brannan stated that Henry County Water Authority would also pay this amount with the developers in this area paying one hundred ninety four thousand dollars (\$194,000). Mr. Brannan stated that he is asking the Board's approval for the Authority to proceed with paying their share of the cost of the Woolsey Road sewer improvements. There was discussion concerning this information.

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

RESOLVED: that the Authority participate in the Woolsey Road sewer improvements by paying the Authority's share of the cost in the amount of eighty seven thousand five hundred dollars (\$87,500).

Engineering Contract Update: Chairman Lane called on Rick Hirsekorn, of CH2M Hill, who stated that as the Authority started into the Master Plan and the Water Resources Initiative 2000, revisions to the CH2M Hill contract were requested. Mr. Hirsekorn stated that one area of the contract to be revised was the professional liability insurance. Mr. Hirsekorn stated that another area to be revised was restructuring of other provisions with regards to responsibility. Mr. Hirsekorn stated that CH2M Hill has worked with the Authority's attorney team and with the Authority's risk management consultant. Mr. Hirsekorn stated that in revising the CH2M Hill contract that we have also taken the opportunity, as entitled to do by the original contract, to ask for an adjustment of CH2M Hill's rates equal to the cost of living. Mr. Hirsekorn stated that CH2M Hill's original contract rates have not been adjusted since 1998. Mr. Hirsekorn stated that he believes that CH2M Hill has complied with all of the requirements that were requested by the Authority's attorney team and risk management consultant. Mr. Hirsekorn stated that he is submitting, for the Board's consideration, the request for adjustment of the CH2M Hill contract rates. There was discussion concerning this

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information with a request to Mr. Thomas and Mr. Buffington as to their opinion of this request from CH2M Hill. Mr. Thomas and Mr. Buffington stated that they were both comfortable with this request.

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

RESOLVED: that the CH2M Hill contract rates be adjusted as requested by Mr. Hirsekorn and authorizes the Chairman to execute the contract document.

Water Resources Initiative 2000 Update: Chairman Lane called on Mike Thomas, Program Manager, who stated that he would like to bring the Board up to date on the Authority's Water Resources Initiative 2000 program. Mr. Thomas stated that since the Board approved the Authority Master Plan, about a year ago, the Authority has been moving rapidly forward into the Master Plan. Mr. Thomas stated that he would like to remind the Board that the Authority's mission was to make these improvements to insure that the Authority would have a long term dependable safe water supply to provide to the Authority customers and to improve water quality in our streams. Mr. Thomas gave an informational slide presentation and discussed the following information that was distributed to Board members titled CCWA Water Resources Initiative 2000, Project Updates, Revised Master Plan Budget FY 2002 Summary Page, Revised Master Plan FY 2002 Wastewater Systems, Revised Master Plan FY 2002 Water System and Revised

Master Plan FY 2002 Administrative Programs. There was a general discussion concerning this information.

CCWA WATER RESOURCES INITIATIVE 2000

The CCWA's 20 year Master Plan, entitled Water Resources Initiative 2000, is an aggressive capital improvements program to provide the needed system improvements to insure a long-term, dependable water supply for Clayton County while providing our customers with the best possible service at the best possible rates. The following projects are included in the Plan.

WATER RECLAMATION FACILITIES

Shoal Creek Water Reclamation Facilities – This includes expansion and upgrade of the existing Shoal Creek WRF from 2.1 to 4.4 mgd; constructed wetlands on the Inman Road property and the pump stations and force mains needed to transmit the reclaimed water from the plant to the wetlands and then to the Shoal Creek reservoir.

Casey/ Huie Water Reclamation Facilities – This includes the construction of a new plant to handle wastewater flows to the Casey and Jackson plants. This plant will increase capacity from 19.5 to 24 mgd and provide a better quality effluent that will be pumped to constructed wetlands and spray irrigation fields at the Huie site. Constructed wetlands will be built on existing spray field areas and significant alterations to the treated wastewater distribution system around the Huie site will be necessary.

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Northeast Water Reclamation Facilities – The Water Authority's only surface discharging plant will be expanded from 6 to 10 mgd. We do not know at this time what treatment limits will be required or if the State will allow an additional surface discharge at this location.

Sewer Collection System Improvements – This includes rehabilitation of older sewer lines and the addition of new sewer lines, force mains and lift stations where additional capacity is needed. We are also developing a radio-controlled system for providing computer controls of the Authority's 20 plus lift stations from a central office (SCADA).

WATER PRODUCTION FACILITIES

Hooper Plant Improvements – The Hooper plant is our largest and oldest water production plant, several projects are planned to rehabilitate this plant. The projects include upgrading the filters, adding a belt press facility for dewatering water plant solids, advanced disinfection and a general rehabilitation of the entire plant.

Advanced Disinfection – Additional disinfection capabilities utilizing ultra-violet light will be installed at all three water plants to provide an additional treatment barrier and to prepare for future regulation changes.

Smith Plant Improvements – This will include solids handling and general plant rehabilitation work.

Freeman Road Plant Improvements – This primarily consists of solids handling improvements.

ADMINISTRATIVE PROJECTS

Information Services – This includes implementation of the Geographic Information Systems and the Enterprise Resource Planning (ERP) system.

Administrative Building Expansion – The 10,000 square foot expansion of the headquarters building.

PROJECT UPDATES (cost in millions, covers first 5 years of program)

PROJECT	PROJECT COST	Expenditures TO DATE	STATUS
WATER RECLAMATION FACILITIES			
Shoal Creek Plant Expansion	\$14.6	\$0.25	Construction began in January 2001, 50% of cost is covered by the 98 bond issue
Inman Rd. Wetlands & Pump St.	\$6.5	0	Design 60% complete, cost covered by 98 bond issue, construction will begin this summer
Associated Force Mains	\$2.3	0	Under design by CCWA, construction this summer
Casey Plant Expansion	\$67.7	\$1.7	Design is 75% complete, construction in 2002
Huie Wetlands & Distribution Sys	\$21.6	\$0.2	Permitting work underway
Northeast Plant Expansion	\$20.2	0	Design scheduled to begin in 2003
Sewer Collection System Imp.	10.5	\$0.1	Rehab work on Jester's Creek line Underway
SCADA radio system	0.7	\$0.1	Under design, construction later this year

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WATER PRODUCTION FACILITIES			
Hooper Plant Improvements			
Filters & Belt Press	\$3.2	\$0.2	Design 50% complete, construction this summer
General Rehabilitation	\$9.4	\$0.1	Plant assessment 95% complete, construction 2004
Advanced Disinfection			
Hooper Plant	\$2.4	\$0.02	Design 25% complete, construction this summer
Smith Plant	\$1.8	\$0.02	Design 25% complete, construction this summer
Freeman Road Plant	\$1.8	\$0.02	Design 25% complete, construction this summer
Smith Plant Improvements	\$4.9	0	Will begin in 2004
Freeman Road Plant Improvements	\$1.6	0	Will begin in 2004
Distribution System Improvements	\$17.5	\$1.0	Galvanized pipe replacement
ADMINISTRATIVE PROJECTS			
Information Services			
ERP System	\$4.4	\$0.08	ERP Vendor selected
Geographic Information System	\$0.7	\$0.03	Several data development projects underway
Administrative Bldg. Expansion	\$1.7	\$0.06	Design complete, bids accepted
PROGRAM TOTAL	\$186.2	\$3.63	

Modular filters and aeration	1,200,000		1,200,000						
Design and expand WRF to 10 mgd	20,180,000				1,780,000	18,400,000			
TOTAL	21,380,000		1,200,000		1,780,000	18,400,000			
Inman Road Wetlands									
Land Purchase	1,500,000	1,500,000							
Wetlands permitting and design	98 issue								
Wetlands cells & pump station	8,800,000	5,000,000	3,800,000						
Force Maine	2,300,000	2,300,000							
Construction Management	250,000		250,000						
TOTAL	12,850,000	8,800,000	4,050,000						
Shoal Creek Water Reclamation Facility Expansion									
Plant Expansion to 4.4 mgd	4,600,000	4,600,000							
Construction Management	500,000	500,000							
Emergency Generators	2,200,000					2,200,000			
TOTAL	7,300,000	5,100,000				2,200,000			
Huie LAS Facility									
Wetlands permitting	590,000	590,000							
Wetlands design	500,000		500,000						
Wetlands cells Ph1	7,000,000					7,000,000			
Design of wetlands cells phase 2	500,000					500,000			
Wetlands cells Ph2	7,000,000						7,000,000		
Future Wetlands								12,000,000	12,000,000
Distribution loop modifications/additions	6,000,000			2,000,000	2,000,000	2,000,000	3,000,000	3,000,000	
TOTAL	21,590,000	590,000	500,000	2,000,000	9,500,000	9,000,000	15,000,000	15,000,000	
Wastewater Conveyance System									
Rehabilitation & Interceptor Improvements	7,550,000	550,000	1,000,000	1,000,000	2,500,000	2,500,000	5,000,000	10,000,000	
Interceptor/collector extensions							10,000,000	20,000,000	
TOTAL	7,550,000	550,000	1,000,000	1,000,000	2,500,000	2,500,000	15,000,000	30,000,000	
System Wide Requirements									
Centralized SCADA system for pump stations	700,000	200,000	500,000						
TOTAL	700,000	200,000	500,000						
Wastewater System TOTAL	142,105,000	18,975,000	7,250,000	67,000,000	15,980,000	32,900,000	30,000,000	58,100,000	

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**Clayton County Water Authority
Revised Master Plan – FY 2002
Water System**

Project	Total	Fiscal Year					Total Cost 2006-2010	Total Cost 2011-2020
	Total Cost 2001-2005	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005		
System-wide Requirements								
Additional Raw Water Capacity Study	200,000				100,000	100,000		
Additional Treatment Capacity to meet projected MDF of 48.6 to 51 mgd total demand (raw water intake) at 3 WTPs								
Total	200,000				100,000	100,000		11,000,000
William J. Hooper Water Treatment Plant								
Preliminary Plant Assessment & Engineering Design	150,000	150,000						
Mechanical dewatering, filter bottoms, media and valves	5,353,000	1,033,000	4,320,000					
Construction Mgmt. - Filters, belt press & UV	400,000		400,000					
General rehabilitation & improvements	13,700,000				1,400,000	12,300,000		

Advanced Disinfection (UV or ozone)	3,423,000	280,000	3,143,000						
Total	23,026,000	1,463,000	7,863,000		1,400,000	12,300,000			
J. W. Smith Water Treatment Plant									
Preliminary Engineering Design	60,000					60,000			
Coagulation Optimization Study	25,000	25,000							
General rehabilitation & improvements	3,200,000				200,000	3,000,000	800,000		
Centralized SCADA system	400,000				40,000	360,000			
Pump Station for Thickener Decant	50,000	50,000							
Filter Valving Improvements								705,000	
Filter Gallery Dehumidification								440,000	
Filter Media/Underdrain Improvements								500,000	
Advanced Disinfection (UV or ozone)	2,412,000	270,000	2,142,000						
Replace Chemical Feed Equipment								430,000	
Sludge dewatering facilities	1,150,000				200,000	950,000			
Total	7,297,000	345,000	2,142,000		440,000	4,370,000	2,875,000		
Freeman Road Water Treatment Plant									
Construct Sludge Dewatering Building (need to be determined based on hydraulic loading capacity analysis of LAS sites)-Note 1	1,150,000				200,000	950,000			
Chlorine Scrubber or switch to Hypochlorite	400,000				40,000	360,000			
Advanced Disinfection (UV or ozone)	2,411,000	270,000	2,141,000						
Total	3,961,000	270,000	2,141,000		240,000	1,310,000			
Storage Tank Improvements									
Morrow Ground Storage Tank									
- Gate Valves on Suction piping/provide pipe supports	200,000	200,000							
- Replace High Service Pumps	320,000			160,000	160,000				
- Pump Station discharge piping	100,000				100,000				
Jonesboro Ground Storage Tanks									
- Add pump to increase firm capacity	100,000				100,000				
Noah's Ark Ground Storage Tanks									
- Add pump to increase firm capacity	100,000		100,000						
- Replace High Service Pumps								160,000	
Crystal Lake Storage Tank									
- Construct additional 1 mgd storage tank								2,000,000	
Total	820,000	200,000	100,000	160,000	360,000			2,160,000	
Distribution System Improvements									
Connect 12" main to 15" main @ Old Dixie Hwy and Upper Riverdale Rd.	120,000	120,000							
Replace Galvanized and A.C. pipe-Note 2	4,265,000	765,000	750,000	750,000	1,000,000	1,000,000			
8,000 ft/yr. Of replacing steel line from the Hooper WTP	3,720,000	720,000	1,000,000	1,000,000	1,000,000				
Distribution Improvements at Noah's Ark	2,200,000		2,200,000						
Line improvements/extensions	2,500,000				500,000	1,000,000	1,000,000	15,000,000	30,000,000
Treatment/Storage/Pumping/Distribution Reserves									
Total	12,805,000	1,605,000	3,950,000	2,250,000	3,000,000	2,000,000	15,000,000	30,000,000	
WATER SYSTEM TOTAL	48,109,000	3,883,000	16,196,000	2,410,000	5,540,000	20,080,000	20,035,000	41,000,000	

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**Clayton County Water Authority
Revised Master Plan – FY 2002
Administrative Program**

Project	Total Cost 2001-2005	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Total Cost 2006-2010	Total Cost 2011-2020
Rate Development Strategy	250,000	250,000						
Public Information Program	50,000	50,000						
Administrative Facilities Expansion								
Design	200,000	200,000						
Construction	1,500,000	1,500,000						
Total	1,700,000	1,700,000						

Information Systems Development							
ERP Software	2,676,270	1,176,000	1,500,270				
Time and Attendance	183,000	183,000					
Project Management	50,000	50,000					
LIMS	769,000				769,000		
DMS	200,000				200,000		
Risk Management Information System	50,000			50,000			
GIS (including various applications)	696,000	214,000	268,000	214,000			
IVR/Phone Database Integration	317,500				317,500		
Web Integration	166,000				166,000		
Information Systems Total	5,107,770	1,623,000	1,768,270	264,000	1,452,500		
Administration Total	7,107,770	3,623,000	1,768,270	264,000	1,452,500		

Mr. Brannan, General Manager, stated that the Authority' recent rate adjustment was based on the Authority addressing its five year Master Plan program. Mr. Brannan stated that after the Board of Commissioners expressed concern about the Authority's rate increase that the Authority gave the Commissioners information about the Authority's five-year Master Plan programs and the need for the Authority to acquire ninety three million dollars (\$93,000,000) of bond money. Mr. Brannan stated that the fact that the interest rates are dropping would have an affect on the bond market. Mr. Brannan stated that Mr. Conort and Mr. Johnston, Banc of America Securities, LLC. are looking at the interest rate in relation with the bond market to determine when it would be appropriate for the Authority to go into the bond market and acquire the needed ninety three million dollars. Mr. Brannan stated that this would also require some engineering work by CH2M Hill and other financial issues that will need to be addressed. Mr. Brannan requested that Mr. Conort give the Board additional information concerning the bond issue for the Authority. Mr. Conort stated that internally the Authority is in a financial position to handle a bond issue. Mr. Conort gave the Board information on what additional work would need to be completed before the Authority would be ready to move ahead with a bond issue. There was discussion concerning this information and that the ninety three million dollar bond issue would carry the Authority's Water Resources Initiative 2000 programs through the fiscal year 2003. Mr. Conort called on Mr. Johnston who distributed copies of an analysis titled Clayton County Water Authority Water and Sewerage Revenue Bonds, Series 2001. Mr. Johnston discussed the

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analysis information, which included 30 Year Bond Buyer Revenue Index, Requirements to Issue Parity Bonds, Revised Master Plan, Rate Study, Bond Sources & Uses, Debt Service and Debt Service Coverage, Financing Schedule and Distribution list in this bond analysis. Mr. Johnston stated that the Authority is in a very good interest environment at this time with some of the lowest rates the Authority has experienced. There was discussion concerning this information

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

RESOLVED: that the Authority proceeds with the water and sewerage revenue bond issue 2001.

Chairman Lane discussed his and Mr. Whitman's tenure on the Authority's Board and stated that both of their terms would be up at the end of the month. Mr. Lane stated that if Mr. Whitman is not reappointed to the Authority's Board that he would like to thank Mr. Whitman for his years of service to the Authority's Board of Directors and for his commitment and dedication to the Authority.

Mr. Brannan stated that he would like to request that the Board ask CH2M Hill to issue a task order for acquiring the additional 20 million dollars of Professional Liability Insurance on the Authority's behalf. Mr. Fincher gave the Board additional information concerning this matter.

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

RESOLVED: that the Authority authorizes CH2M Hill to issue a task order to acquire twenty million dollars (\$20,000,000) of professional liability insurance on the Authority's behalf

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

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

RESOLVED: that the Board adjourns into executive session, the Board reserved the right to return to the open session.

Chairman Lane called the regular Board meeting back into open session.

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Mr. Brannan stated that he would like to bring the Board up to date on the financial integrity of J. D. Edwards. Mr. Brannan stated that J.D. Edwards is the company that the Board approved at last months meeting to furnish the Authority's Enterprise Resource Planning (ERP) software. Mr. Brannan stated that the Authority acquired all of the financial information pertaining to J.D. Edwards that was requested by

Mr. Rogers. Mr. Brannan stated that Mr. Rogers went over this information and was satisfied with the financial integrity of J.D. Edwards. Mr. Brannan stated that the Authority is in the process of proceeding with the J.D. Edwards contract

Mr. Brannan gave the Board information concerning the number of phone calls from Authority customers concerning the water & wastewater rate increases. Mr. Brannan stated that the majority of the customer calls are not to complain about the rate increase but to express their disagreement with the Authority implementing the rate increase on January 1, 2001 but billing customers for water used in December 2000.

Mr. Brannan gave the Board information concerning the Authority offering, at the expense of the Authority, Hepatitis shots to any employees who work in the wastewater field or has the potential of being exposed to wastewater.

Mr. Brannan gave the Board information concerning the problems that the Authority is having with the incoming and outgoing phone line service. Mr. Brannan stated that if there are over 23 phone calls going on at any one time then no other calls can get into or out of the Authority's office complex. Mr. Brannan stated that there is a need for an additional phone line in the Authority office complex. Mr. Brannan stated that the cost of installing an additional phone line would be approximately one thousand one hundred dollars (\$1,100) with an additional cost of one thousand seven hundred dollars (\$1,700) per month for phone service to this line. There was discussion concerning this information and other ways that this problem could be resolved. It was the Board's request that management investigate all the options related to solving the phone line problem and bring a recommendation back to the Board.

Mr. Brannan stated that Lake City is in the process of building their City Hall and they discussed with him the fact that they are a government entity. Mr. Brannan stated that they would like to know if the Authority would consider not charging them for a fire line meter. There was discussion concerning this request.

Mr. Fincher updated the Board on the progress of the legislation that the Board requested the general assembly to change. There was a general discussion concerning this information.

There was additional discussion concerning the Authority's proposed ninety three million dollar (\$93,000,000) bond issue.

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There was discussion concerning ways that the Authority could assist in and encourage water conservation.

There being no further business to come before the open meeting the meeting was adjourned.

Joe T. Lane, Chairman

H. Lindy Rogers, Secretary/Treasures