

CLAYTON COUNTY WATER AUTHORITY

1600 Battle Creek Road
Morrow, Georgia 30260

Regular Board Meeting, October 1, 2009

Chairman, Pete McQueen, called the meeting to order at 1:30 p.m.

Present at the meeting were: Chairman, Pete McQueen, Vice Chairman, Lloyd Joiner, Secretary/Treasurer, Marie Barber, Board Members, Wes Greene, John Westervelt and John Chafin, General Manager, P. Michael Thomas, Deputy Manager, Mike Bennett, Legal Counsel, Steve Fincher of Fincher, Denmark & Williams, Steve Lavinder of CH2M Hill, other CCWA staff and visitors.

Chairman McQueen called on Turner Duffey, Equipment Operator in Distribution and Conveyance, to give the invocation.

Approval of Minutes: Chairman McQueen called for any omissions or additions to the Regular and Executive Session Board Meeting minutes of Thursday, September 3, 2009. Hearing none, the minutes were approved as presented.

Financial and Statistical Report: Chairman McQueen called on Emory McHugh, Finance Director, to give our financial report. Mr. McHugh reviewed the financial information that was given to the Board for the period ending August 31, 2009.

Recognition: Chairman McQueen called on Herbert Etheridge, Manager of Distribution and Conveyance, to recognize Phillip Brooks, Equipment Operator, for his twenty years of service to the Water Authority. Herbert congratulated Phillip and presented him with his 20-year service pin.

Conley Road Tank Repainting Bid Recommendation: Chairman McQueen called on Guy Pihera, Water Production Manager, to present the Conley Road Tank Repainting Bid Recommendation.

Guy stated that the tank located at the intersection of Conley Road and Highway 54 was last painted in 1994. The tank has started to rust across the top and the coating is somewhat chalky. The CCWA name will be added to the tank on one side and the American flag will be painted on the other side.

BIDDER	TOTAL BID AMOUNT
Southern Corrosion, Inc. Roanoke Rapids, NC	\$43,120
Eastern Tank & Utility Services, Inc. Princeton, WV	\$43,500
Tank Rehab.com, LLC. Ponte Vedra Beach, FL	\$54,900
Tank Pro, Inc. Northport, AL	\$55,801
Utility Service Co., Inc. Perry, GA	\$58,300
J&W of North Carolina, Inc. Vanceboro, NC	\$63,000

Staff recommends awarding the bid to Southern Corrosion, Inc.

Note: Original budgeted amount of \$120,000 was in anticipation of needing a shrouding system. Utilization of a dry fall coating product allowed for a significantly lower final cost.

UPON Motion by John Chafin and seconded by Marie Barber it was unanimously

RESOLVED: to award the Conley Road Tank Repainting Bid Recommendation to Southern Corrosion, Inc. for the amount as outlined above.

Proposal for Use of CUBs by Government/Non-Profit Groups: Chairman McQueen called on Guy Pihera, Water Production Manager, to present the Proposal for Use of CUBs by Government/Non-Profit Groups.

Due to the frequent requests for weekday complimentary use and due to the low demand for public weekday rentals of CUBs, the following policy and rate schedule adjustment is recommended.

Policy

Governmental and registered non-profit groups will be allowed one-time weekday use (Monday – Thursday) at no charge. Any subsequent use will be at the following rates:

Rate Schedule Adjustment (Government/Non-Profit Groups)

- Shamrock CUB - \$100
- J.W. Smith CUB - \$75
- Set up/take down by CCWA staff - \$50 (optional)

Government/Non-Profit fees are intended to cover cost of janitorial service and utilities.

General Public/Business rate structure is currently under review and recommendation to update will be made prior to January 2010.

UPON Motion by John Chafin and seconded by John Westervelt it was unanimously

RESOLVED: to approve the recommendation to provide updates of the rate structures for use of Community Use Buildings by Government and Non-profit groups effective immediately.

Permanent Leak Detection Monitor Purchase Recommendation: Chairman McQueen called on Herbert Etheridge, Distribution and Conveyance Manager, to present the Permanent Leak Detection Monitor Purchase Recommendation.

Flow Metrix (acquired by Itron in 2006) was selected as our leak detection solution vendor during the initiation of our program through a Request for Bid process which was awarded by the CCWA Board of Directors in January 2000. At implementation of our program we procured the Flow Metrix Digicorr III which is the hub of our leak detection program and is used daily to survey our distribution system for leaks, as well as serve as the base software for our leak detection program.

In FY 2007, per Board approval, we began acquiring the Flow Metrix M-Log permanent leak detection system. M-Log is a network of intelligent leak detecting sensors which monitors the water distribution system year round. A sensor is installed on every 10th water service. Meter readers or our AMR system gather M-LOG data while reading meters and in turn the M-LOG software computes a leak index for each sensor which prints a report to track leakage and direct investigations along with pinpointing of leaks localized by M-Log. We are currently in the process of completing the installation of 1,285 M-Log sensors in the older sections of our distribution system.

As outlined above, as we add sensors to our system, all equipment, as well as the software, must be compatible and thus supplied by Flow Metrix (Itron) as a sole source provider.

Installations of these units began in April 2008 and to date we have identified 53 leaks accounting for an estimated 90,140,400 gallons of lost water. Using the AWWA/IWA

recommended “cost of treating the next million gallons of water,” we have saved approximately \$31,000.00 in the short history of this program. Due to our assistance to Flow Metrix in the development and testing of their product, we were able to negotiate a current unit price of \$70.00 (which is substantially less than the current market price of approximately \$130.00 per unit) for the initial 1,285 units. Our current negotiated pricing structure expires on December 1, 2009 and Flow Metrix has offered an additional discount of \$17.00 per unit on this product through that date. With this additional discount we are recommending purchasing an additional 950 sensors at \$53.00 each from Flow Metrix/ITRON for a total cost of \$50,350.00. This purchase is to be funded by the R&E Fund.

UPON Motion by Wes Greene and seconded by John Westervelt it was unanimously

RESOLVED: to approve the purchase of additional sensors from Flow Metrix/ (Itron) for the amounts as requested and outlined above.

Cast Iron Waterline Cleaning and Relining Project Summary: Chairman McQueen called on Herbert Etheridge, Distribution and Conveyance Manager, to present the Cast Iron Waterline Cleaning and Relining Project Summary.

In 2002, the CCWA initiated a program to clean and line Cast Iron Watermains that were installed prior to the early 1950's. Pipe that was manufactured prior to the mid 1950's did not have the thin cement mortar lining. The inside walls of the older pipe were left bare, and therefore, were subject to the buildup of naturally present minerals in potable water such as Iron and Manganese as these minerals were drawn to the bare walls. Buildup of these minerals caused decreases in flows and pressure, as well as numerous complaints of “red or dirty” water from our customers. Our initial focus was in the former City of Forest Park system, followed by the former systems of Jonesboro, and then Riverdale. Listed below you will find a history of the program since initiation as well as the FY 2009 Project Summary. Additional information will be provided at the October Board of Directors meeting.

Program History to date:

- Completed to date – 100,639' of 6” and 8” water mains at a cost of \$2,417,225.66.
- Estimated costs to replace these mains would have been approximately \$5,552,720.00.
- Estimated cost savings to date - \$3,135,494.34
- This method also significantly reduces customer complaints related to disturbance/restoration of property that is associated with open cut replacements.

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FY 2009 Project Summary:

- Work was completed on 3,264' of Watermain in Jonesboro and 4,776' of Watermain in Riverdale.
- The CCWA Board of Directors approved \$240,000.00 for this year's project and the final cost was \$224,238.00 (\$15,762.00 under approved estimate).

Emergency Sewer Line Repairs Recommendation: Chairman McQueen called on Herbert Etheridge, Distribution and Conveyance Manager, to present the Emergency Sewer Line Repairs Recommendation.

We currently have a contractor cleaning and televising the Flint River sewer outfall in advance of the flows from the new Atlanta Pump Station being pumped into this line. The contractor has identified several joint and pipe failures that need to be repaired immediately because of the amount of water leaking into our lines. The optimum method for these repairs is with Cured in Place Pipe that allows us to make repairs without digging up and replacing the pipe. We are currently in the process of bidding out an annual services contract for these types of repairs but that process will not be complete for several months and these repairs need to be made as soon as possible.

We obtained quotes to perform CIPP repairs on 1,763 feet of damaged pipe from two contractors who have done this kind of work for CCWA in the past.

Insituform - \$48 per foot for 1,763 feet
Total quote price - \$84,624.00

Reynolds Inliner LLC - \$48/foot for 437 feet
\$50/foot for 1,326 feet
Total quote price - \$87,276.00

These prices are similar to previous annual contract prices for this kind of work. Staff recommends awarding the emergency sewer line repairs recommendation to Insituform for the total price of \$84,624.00.

UPON Motion by John Chafin and seconded by Wes Greene it was unanimously

RESOLVED: to award the emergency sewerline repairs recommendation to Insituform for the amount as outlined above.

Cooperative Aerial Photography Agreement: Chairman McQueen called on Terry Moy, Program Management and Engineering Manager, to present the Cooperative Aerial Photography Agreement.

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CCWA uses high resolution aerial photography as the foundation of our Geographic Information System (GIS). This base layer of information supports plan review/design work, stormwater operations and maintenance, pipeline systems management, property/lands, and easement mapping. Current floodplain mapping work will also be added.

Regular updates of this information are needed to keep up with development and maintain the accuracy of supporting applications. In the past, CCWA has followed a schedule of updating aerial photography, topography and impervious surfaces on a 2-3 year cycle and has budgeted for an update in this current fiscal year.

In 2008, the Atlanta Regional Commission's, Metro North Georgia Planning District initiated an effort to combine the regional needs for aerial photography updates into a cooperative agreement to be contracted and managed by the United States Geological Service (USGS) using its pre-qualified vendors. Based on current estimates of a 10 county team participating in this joint agreement, CCWA's costs could be reduced 25-30% from what is budgeted.

The current schedule for implementing this contract is as follows:

- October 15, 2009 – Counties to transmit payment to ARC to demonstrate commitment to participate.
- November, 2009 – USGS to finalize scope and price with pre-qualified vendors.
- January – March, 2010 – Fly overs scheduled.
- October 2010 – Final quality control and beginning of data transmittals to participants.

Staff requests approval to enter into an agreement with the Atlanta Regional Commission for the cooperative aerial photography project at an amount not to exceed \$45,000.

UPON Motion by John Chafin and seconded by Marie Barber it was unanimously

RESOLVED: to grant approval for CCWA to enter into the cooperative aerial photography agreement with the Atlanta Regional Commission for the amount as outlined above.

Shoal Creek Dam Testing and Modeling Proposal: Chairman McQueen called on Terry Moy, Program Management and Engineering Manager, to present the Shoal Creek Dam Testing and Modeling Proposal.

CCWA operates and maintains three (3) dams that are designated by the Georgia Environmental Protection Division's Safe Dams Group as Category 1 dams. These dams contain CCWA's Shoal Creek, J.W. Smith and Edgar Blalock Jr. reservoirs and serve as a primary component of the company's water storage system. Category 1 dams are the highest class of dams and are subject to monitoring and annual inspections by EPD. Where follow up work or response to review inspections is needed, EPD further requires that it be performed by an EPD approved geotechnical/engineering firm of record.

In 2008, the EPD Safe Dams annual inspection identified the need to investigate seepage and stability issues at the Shoal Creek Dam (no significant follow up actions were reported for the Smith or Blalock dams). CCWA completed the inspections in the Spring of 2009 and met with EPD along with our dam engineer of record, Schnabel Engineering, LLC, to report on findings. As a result of this meeting, EPD has required additional follow up investigations to be completed.

The proposed work includes on site sampling from 6 drilled wells at the existing dam face and follow up computer analysis/modeling to assess the stability of the structure. The results will be summarized in a report and will also include a follow up presentation/meeting with EPD.

Shoal Creek reservoir can hold approximately 2 billion gallons of water and is the largest reservoir in CCWA's system. It is an important asset that should be maintained and operated to provide maximize service to the system. Staff recommends approval of Schnabel's proposal in the amount of \$45,500 to complete this work. This work is being funded from Water Production operating budgets.

UPON Motion by Marie Barber and seconded by John Westervelt it was unanimously

RESOLVED: to award the Shoal Creek Dam Testing and Modeling Proposal to Schnabel for the amount as outlined above.

Upper Flint River Watershed Master Plan Task Order: Chairman McQueen called on Kevin Osbey, Stormwater Program Manager, to present the Upper Flint River Watershed Master Plan Task Order.

To expand upon the findings in the CCWA Watershed Management Plan (2001), the Upper Flint River area has been chosen for additional detailed investigation. The Upper Flint River Watershed includes the Sullivan Creek, Mud Creek, and Flint River watersheds generally above Upper Riverdale Road. Historically, these creeks have been classified as degraded due to heavy urbanization, loss of natural vegetation, and not suitable for supporting fish and macro-invertebrates.

The purpose of this Task Order is to provide engineering services in support of a detailed investigation of the water quality, biological, channel stability, infrastructure, and flooding conditions in this Upper Flint River area. This watershed includes drainage from Hartsfield Jackson Atlanta International Airport (HJAIA), the old Ford Plant site, State Farmer's Market, and other industries in Forest Park and Hapeville.

The review of existing monitoring data and other datasets will provide the initial assessment of pollutant sources in the watershed, and will be the foundation for: conducting additional focused field efforts to further characterize watershed stressors, providing recommended actions to prevent further degradation and improve water quality, along with mitigating flooding and enhance stream conditions. The development of this master plan will also comply with State and District requirements for watershed improvement plans.

The scope of services includes:

- Task 1 – Preliminary Analysis of Watershed Data
- Task 2 – Develop and Implement Field Sampling Plan
- Task 3 – Flint River Headwaters Master Plan Preparation
- Task 4 – Project Management

Project Managers:

- CH2M Hill, Engineers – Chrissy Thom
- Clayton County Water Authority – Shayla Nealy

Task Order Amount: \$200,240

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

RESOLVED: to approve the Upper Flint River Watershed Master Plan Task Order for the amount as outlined above.

Jonesboro Well Sites Quitclaim Recommendation: Chairman McQueen called on Mike Thomas, General Manager, to present the Jonesboro Well Sites Quitclaim Recommendation.

As part of our ongoing effort to inventory all CCWA property and evaluate future uses, we are proposing to quitclaim the following properties to the City of Jonesboro. These sites contain old groundwater wells that were once used by the City. The wells became CCWA property when we bought the Jonesboro water and sewer system but the agreement did not specifically transfer the property over to CCWA. The wells do not provide a significant amount of water and have not been used for years. The wells are located on very small parcels and some are housed in old buildings that have become

liabilities because of maintenance and safety issues. The following lists these parcels and final disposition recommended by CCWA staff.

King Street well - Old well, old sewer lift station site
 - Well filled and capped
 - Quit claim any property & facility rights to City of Jonesboro

Lee Street well - Well and building on 0.11 acres
 - Building demolished and well filled and capped
 - Quit claim property to City of Jonesboro

Chestnut St well - Well and building on 0.03 acres
 - Adjacent homeowner would like building and well
 - Quit claim property, building and well to City of Jonesboro
 - City will quit claim to adjacent property owner

Mr. Fincher has assisted CCWA staff in coordination with the City of Jonesboro and has drawn up the appropriate quitclaim documents. CCWA staff recommends approval of the quitclaim of these properties to the City of Jonesboro.

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

RESOLVED: to approve the quitclaim of the above mentioned properties to the City of Jonesboro.

East Jesters Creek Stream Restoration Resolution: Chairman McQueen called on Mike Thomas, General Manager, to present the East Jesters Creek Stream Restoration Resolution.

CCWA and Lake City are partnering to improve East Jesters Creek, a tributary and associated wetlands along with the development of a nature preserve adjacent to City Hall. As part of this work a stream and wetland mitigation bank will be developed. Sales of mitigation credits could provide up to \$2 million to be split evenly between CCWA and Lake City. In order to fulfill certain Corps of Engineer requirements for approval of the bank, we need to provide financial assurance that the project will be maintained long term. The attached resolution provides assurance that CCWA will use credit sales and stormwater utility revenues to maintain this project long term. CCWA staff recommends approval of this resolution.

UPON Motion by John Westervelt and seconded by John Chafin it was unanimously

RESOLVED: to approve the East Jesters Creek Stream Restoration Resolution as requested above.

STATE OF GEORGIA
COUNTY OF CLAYTON

RESOLUTION NO. 2009-05

A RESOLUTION AUTHORIZING THE CCWA TO SERVE AS SPONSOR AND ADMINISTRATOR OF ANY CREDITS TO BE ALLOWED AS A RESULT OF THE LAKE CITY STREAM RESTORATION PROJECT; TO REPRESENT THAT THE CCWA SHALL ASSURE THE ONGOING MAINTENANCE OF THE PROJECT; TO AUTHORIZE THE CHAIRMAN TO EXECUTE ANY DOCUMENT RELATING THERETO AND TO OTHERWISE PERFORM ALL ACTS NECESSARY TO ACCOMPLISH THE INTENT OF THIS RESOLUTION; TO PROVIDE AN EFFECTIVE DATE OF THIS RESOLUTION; AND FOR OTHER PURPOSES.

WHEREAS, the Clayton County Water Authority ("CCWA"), is charged to protect the County's drinking water sources by protecting water quality in local streams, wetlands and water bodies; and

WHEREAS, the preservation and restoration of local streams and wetlands is beneficial in protecting the water quality of the County's drinking water sources and natural resources; and

WHEREAS, the CCWA and the City of Lake City (the "CITY") intend to jointly develop a Wetland and Stream Mitigation Project (the "Project") on land owned by the City;

NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE CLAYTON COUNTY WATER AUTHORITY AND IT IS HEREBY RESOLVED, THAT

Section 1.

The CCWA is currently a wetland credit bank sponsor and administrator. Accordingly, the CCWA will serve as the bank sponsor and administrator of any credits that may be allocated as a result of the completion of the Project.

Section 2.

The CCWA will guarantee to the Corp of Engineers that the improvements of the Project will be appropriately maintained and monitored during the duration of the Project, as required by law, regulation or as a condition of any credits as may be awarded.

Section 3.

The Board of Directors hereby authorizes the Chairman to execute any document, and otherwise to perform all acts necessary to accomplish the intent of this Resolution.

Section 4.

The effective date of this Resolution shall be when approved by the Board of Directors of the Clayton County Water Authority.

SO RESOLVED this 1st day of October, 2009.

ATTEST:

CLAYTON COUNTY WATER
AUTHORITY

Marie Barber, Secretary

Pete McQueen, Chairman

Lloyd B. Joiner, Vice Chairman

John M. Chafin, Board Member

Wesley E. Greene, Sr., Board Member

John L. Westervelt, Board Member

APPROVED AS TO FORM:

Steven M. Fincher, Attorney for
Clayton County Water Authority

Steve Lavinder of CH2M Hill, asked Chairman McQueen for permission to make a quick recognition announcement. Chairman McQueen granted Mr. Lavinder permission to speak. Mr. Lavinder recognized the CCWA staff in the Distribution and Conveyance Department for all their hard work and willingness to help out the City of Toccoa during the time of the floods and heavy rains. When the City of Toccoa lost most of its water service, they called CH2M Hill to ask for help. Mr. Lavinder stated he knew CCWA had the technology and equipment needed to help the city restore service and contacted Mike Thomas. Mike Thomas spoke to Herbert Etheridge, Distribution and Conveyance Manager, who sent a leak detection crew to assist with the problems the City was facing. The crew identified and replaced a 12 and 16 inch valve that was not working properly and restored the City's water by the end of the day. The entire community of Toccoa has expressed through CH2M Hill their humbleness and appreciation for CCWA responding and their ability to fix the problems and restore water in the City so quickly. Herbert Etheridge commented that it was good experience for his staff as well.

Upon Motion by Marie Barber and seconded by Wes Greene it was unanimously

RESOLVED: that the Board adjourn into executive session for land, legal, and personnel issues. The Board reserves the right to return to open session.

The Board returned to open session. The following items were discussed:

Mr. Thomas asked Karen Riser, Risk Insurance Manager, to introduce our worker's compensation insurance agent. Karen introduced Brad Holiday, Wells Fargo/Wachovia Insurance Agent and asked him to discuss our Worker's Comp. program and its requirements. Mr. Holiday provided an overview of CCWA's extended Worker's Comp program.

Mr. Thomas announced that the Wetlands Dedication originally scheduled for October 21, 2009 has been postponed until May 2010.

Mr. Thomas provided an update on the house rental properties owned by CCWA.

Mr. Thomas discussed the press release from American Rivers. American Rivers is a National Environmental Group that did a case study on CCWA and highlighted the Authority as being one of the country's top "water wise" communities. Congressional staff invited CCWA to present at a briefing in Washington, D.C. Mr. Thomas did a presentation at the briefing.

Mr. Thomas stated that he participated in a round table discussion with Georgia Trend Magazine about water issues with Lake Lanier. Comments from the round table will be released in the January, 2010 issue of the Georgia Trend Magazine.

Mr. Thomas stated that he received an email from Governor Sonny Purdue requesting him to serve on a water contingency task force committee.

Mr. Thomas announced that a legislative briefing will be held here at CCWA on December 9, 2009 at 11:30 a.m. to discuss current water issues in Georgia and invited the Board Members to attend.

Mr. Thomas provided an update on the issues with non-receipt of stormwater payments from the Farmer's Market.

Mr. Thomas stated that the next OPEB meeting will be scheduled after the November Board Meeting.

Mr. Thomas announced the following upcoming events: Wetlands and Watershed Festival – October 3, 2009, 10 a.m. to 4 p.m.; Employee Appreciation Day – October 10, 2009, 10 a.m. to 3 p.m.; and Rivers Alive Stream Clean Up event at Panhandle Park – October 17, 2009.

Upon Motion by Lloyd Joiner and seconded by Wes Greene it was unanimously

RESOLVED: to adjourn the regular session board meeting.

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

Pete McQueen, Chairman

Walter Marie Barber, Secretary/Treasurer