

Augusta County Service Authority  
Regular Board Meeting, Monday, August 8, 2016, at 1:30 p.m.  
Board Meeting Room

PRESENT: Larry J. Wills, Chairman, Middle River District  
Andrew C. Middleton, Vice Chairman, North River District  
G.L. "Butch" Wells, Beverley Manor District  
Tracy C. Pyles, Jr., Pastures District  
Michael L. Shull, Riverheads District  
Carolyn S. Bragg, South River District  
John H. Graves, Wayne District  
Kenneth Fanfoni, Executive Director  
William Monroe, Deputy Executive Director of Administration/Engineering  
Brent Canterbury, Director of Finance  
Greg Thomasson, Director of Solid Waste Management  
Tony Morse, Director of Treatment Operations  
Jennifer Hoover, Senior Project Engineer  
Casey McCracken, Customer Service & Technology Manager  
Sheri Heflin, Board Secretary

ABSENT: None

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The Board thanked Staff for the tour of the Service Authority's southern facilities. The Board would like for Staff to plan another tour for September.

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APPROVAL OF MINUTES

Ms. Bragg moved, seconded by Mr. Shull, to approve the minutes of the Regular Board Meeting of July 11, 2016, which had been mailed to the members and no corrections were being made.

Vote was as follows:

Yeas: Wills, Middleton, Wells, Pyles, Shull, Bragg  
and Graves  
Nays: None  
Absent: None

Motion approved.

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BOARD ELECTIONS AND COMMITTEE APPOINTMENTS

The Nominating Committee presented the following slate of officers for Board approval:

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BOARD ELECTIONS AND COMMITTEE APPOINTMENTS (CONTINUED):

Chairman: Larry J. Wills  
Vice Chairman: Andrew C. Middleton

The nominations for Chairman and Vice Chairman were closed, and the Board unanimously approved Mr. Wills as Chairman and Dr. Middleton as Vice Chairman.

Mr. Wills assumed the role as Chairman.

Mr. Wills stated that he would send the Board Secretary the Committee Appointments later in the week.

The Board thanked Mr. Pyles for his dedicated service as Chairman for the past several years.

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PROGRESS REPORT

The Progress Report for August is on file in the Secretary's office and was reviewed with the Board.

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REVENUE FROM NUTRIENT CREDIT SALES FOR 2015

Staff briefly reviewed how the Nutrient Exchange works, and reminded the Board that nitrogen and phosphorus credits must be predicted five years in advance. At the time 2015 credits were estimated, the wastewater treatment plants were not even online. Staff noted that requests can be made to the Nutrient Exchange Board to adjust prior credit predictions based on current, actual numbers.

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RECOMMENDATION FOR AWARD OF LANDFILL CONTRACTS

*Landfill Shooting Range Pump Station Force Main:* Peed & Bortz, LLC has been assisting Staff in reviewing the pumping history and capacity of the three leachate pump stations at the Augusta Regional Landfill. Since the Shooting Range Pump Station will receive all leachate generated from Phase 4 and future Phases 5-7 of Permit No. 585, Peed & Bortz recommended improving the capacity of that pump station by installing a 10" force main to the equalization basin. This line would be parallel to the existing 6" force main, and both lines could be run simultaneously if needed.

Bids were received on July 12, and Aaron J. Conner General Contractor, Inc. was the low bidder.

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RECOMMENDATION FOR AWARD OF LANDFILL CONTRACTS (CONTINUED):

Staff recommended that the Board authorize the Executive Director to enter into a contract with Aaron J. Conner General Contractor, Inc. in the amount of \$257,480, to install the 10” force main and modify the pump station.

Mr. Shull moved, seconded by Mr. Pyles, to approved Staff’s recommendation as presented.

Vote was as follows:

Yeas:	Wills, Middleton, Wells, Pyles, Shull, Bragg and Graves
Nays:	None
Absent:	None

Motion approved.

*Rain Tarp Installation for Phase 4:*

The existing rain tarp was installed in 2009 and is in complete disrepair. The new tarp will be sown to the edges of the existing anchor trench and will minimize rainwater entering the leachate collection system once Phase 4 begins to be filled with waste. The reduction in the costs of leachate treatment will more than offset the capital costs of the tarp.

Bids were received on July 15, and Chesapeake Containment was the low bidder.

Staff recommended that the Board authorize the Executive Director to issue a purchase order in the amount of \$96,440, to Chesapeake Containment for the installation of the rain tarp.

Mr. Pyles moved, seconded by Dr. Middleton, to approved Staff’s recommendation as presented.

Vote was as follows:

Yeas:	Wills, Middleton, Wells, Pyles, Shull, Bragg and Graves
Nays:	None
Absent:	None

Motion approved.

Staff noted that these projects will be paid for by the three owner localities, and should be installed this fall.

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EDUCATIONAL BROCHURE ON INFLOW AND INFILTRATION

At the July 11 Board meeting, the Board requested that Staff prepare information for customers in regards to inflow and infiltration (I&I) concerns. Staff created a brochure

EDUCATIONAL BROCHURE ON INFLOW AND INFILTRATION (CONTINUED):

explaining what I&I is, how the Service Authority is working to reduce I&I, and what problems I&I can cause.

Staff noted that the brochure would be mailed separately from the utility bills and would include a cover letter. Staff also indicated that the brochures would also be given to new customers, and there are funds in the I&I budget to cover the cost of mailing.

The Board felt that including a cover letter explaining how correcting I&I issues can save both the customer and the Service Authority money, and how I&I problems could lead to compliance issues was a good idea.

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STONE VALLEY SUBDIVISION – AGREEMENT FOR TEMPORARY SEWER PUMP STATION

Stone Valley Subdivision in Stuarts Draft is currently under construction in phases. Phases 1 and 2 are serviced by existing Service Authority mains, but Phases 3, 3A, 3B and 3C required a sewer pumping station, which has been constructed and approved for operation. Phases 3D and 3E will require a sewer outfall line extension of 5800 feet, and once these phases are complete the current pumping station will be obsolete.

As a result of this planned obsolescence, the developer has requested relief from certain normal Service Authority Standards for Sewer Pumping Stations, citing the lack of necessity for those items for a “temporary” pump station. Staff has agreed to forego some of the standard requirements as long as the Service Authority has the assurance that the pump station will truly be temporary.

Staff presented an agreement to the Board outlining obligations to be met by the developer in exchange for the Service Authority accepting a non-standard pumping station. The features that Staff has waived include an onsite electrical generator and its appurtenances, a permanent fence and gate, and a standard access road. These components have a value of \$76,000. The agreement states that the developer has thirty-six months to complete the 5800 foot sewer outfall line and decommission the existing pump station. If this is not finished in the set time period, the Service Authority will draw on an Irrevocable Letter of Credit in the amount of \$76,000, and install the missing components required for a permanent pumping station.

The agreement has been reviewed by Staff and the Service Authority’s legal counsel, and a final draft has been forwarded to the developer for his approval. Staff noted that the Service Authority has agreed to set four water meters, but will not set additional meters without the final agreement being executed.

The Board was in support of the agreement, and Ms. Bragg moved, seconded by Mr. Shull, to approve the agreement pending revision to the last paragraph if the developer raises the Letter of Credit with the County rather than with the Service Authority.

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## STONE VALLEY SUBDIVISION – AGREEMENT FOR TEMPORARY SEWER PUMP STATION (CONTINUED):

Vote was as follows:

Yeas:	Wills, Middleton, Wells, Pyles, Shull, Bragg and Graves
Nays:	None
Absent:	None

Motion approved.

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## RIDGEVIEW WELL #2 TEST WELL DRILLING CONTRACT

The Service Authority has identified a potential well site adjacent to the current Ridgeview Well, which would add another water supply to the South River system. Staff has secured an option agreement with the landowner, and drilling is planned to begin mid-September. During this time, the existing Ridgeview Well will be turned off in order to monitor for any interference as a result of the drilling.

Bids were received through the Service Authority’s consultant, ECS Mid-Atlantic, LLC, and Burner Well Drilling was the low bidder. The base bid includes drilling to 450 feet at a cost of \$170,545. The price will be adjusted if the depth of the well is higher or lower than 450 feet.

Staff recommended Board approval of the Burner Well Drilling bid of \$170,545, and noted that this is a budgeted project.

Ms. Bragg moved, seconded by Mr. Pyles, to approve Staff’s recommendation as presented.

Vote was as follows:

Yeas:	Wills, Middleton, Wells, Pyles, Shull, Bragg and Graves
Nays:	None
Absent:	None

Motion approved.

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## BERRY FARM AND MIDDLEBROOK SOURCE WATER PROTECTION AREAS

The delineation of the recharge areas for the Berry Farm and Middlebrook water sources is complete. The next step is to incorporate the Berry Farm and Middlebrook sources into the County Ordinance, which requires a public hearing.

BERRY FARM AND MIDDLEBROOK SOURCE WATER PROTECTION AREAS (CONTINUED):

The County will have the Berry Farm delineation on the August Board of Supervisors agenda, and the Middlebrook delineation on the September agenda. Public Hearings will follow each of the meetings.

Staff requested that the Board approve forwarding these areas to the County for adoption into the County Ordinance.

Mr. Pyles moved, seconded by Mr. Shull, to approve Staff’s request as presented.

Vote was as follows:

Yeas:	Wills, Middleton, Wells, Pyles, Shull, Bragg and Graves
Nays:	None
Absent:	None

Motion approved.

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BERRY FARM WELL SITES – CONSIDERATION OF LAND TRANSFER

Two wells have been drilled on Augusta County property; one on the west side of Berry Farm Road and one on the east side. The well on the west side of the road (Lot 1) has been completed and pumps approximately 500 gpm. The well on the east side of the road (Lot 2) is currently being pumped at approximately 500 gpm. Staff feels that the water quality of each well is good, and funds have been allocated over the next three years to develop these wells into production wells, including pipelines and any necessary building upgrades.

The lot sizes were developed by using a 250 foot radius around each well, which is based on the Sourcewater Protection Ordinance’s restrictions for septic drainfields and buildings being built in that zone. If the Service Authority owned the lots, these restrictions would be a non-issue.

Staff recommends that the Board approve a formal request for the County to transfer these two lots to the Service Authority, in addition to the pipeline and access easements.

Mr. Shull moved, seconded by Dr. Middleton, to approve Staff’s recommendation as presented.

Vote was as follows:

Yeas:	Wills, Middleton, Wells, Pyles, Shull, Bragg and Graves
Nays:	None
Absent:	None

Motion approved.

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WEYERS CAVE WATER AND SEWER CAPACITY REVIEW

Potential service limitations in the Weyers Cave water and sewer systems have been discussed for the past several years. During the County Comprehensive Plan update in 2010, the Urban Service Area in Weyers Cave was expanded by seventy percent, creating a potentially large demand for new utility service. Staff noted that recent zoning changes and informal discussions with developers have indicated that more demands on the system could be forthcoming. Staff noted that the remaining capacity is approximately 260 new connections, after accounting for the connections which have already paid for reservation.

Staff recognizes the need for improvements at the sewer plant, but water improvements may also be necessary. Improvements to Weyers Cave are not in the Service Authority’s four year CIP, nor is there likely cash flow to generate the needed funding. The estimated cost of increasing capacity of the wastewater treatment plant to one million gpd is \$15,000,000. To increase capacity from one million gpd to three million gpd, the approximate cost is an additional \$17,000,000. A new water storage tank and water treatment plant would cost approximately \$1,500,000 each.

Staff noted that no funding is included in the long term CIP for expanding the Weyers Cave plants or tank, and grant funding, if available, would most likely not be more than ten percent of the cost of the project. Taking on new debt is an option, but upgrading the plant to one million gpd would be an additional \$1,000,000 annually on top of the Service Authority’s existing debt. Staff reminded the Board that each \$1,000,000 borrowed is roughly \$67,000 in annual debt.

Staff brought this to the Board as information only. No action from the Board is requested at this time.

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FIRE SERVICE LINE DISCUSSION

Fire service lines to industrial and commercial sites have historically been unmetered connections to the Service Authority’s water system. The provision of water supply to fight fires has been seen as a public safety item, and not as a consumable service.

While most industrial customers with large fire service lines also have large metered potable water service for their facilities, Staff noted that there has been a recent trend in industries wanting to utilize their own water supply for their plant processes, but asking for a large fire service line and only a residential size water meter for potable usage. Since the potable meter is used to determine availability fees, these industries could end up paying relatively small connection fees while still taking advantage of the large amount of infrastructure needed to provide fire protection. Staff does not feel this is equitable for the Service Authority’s other customers.

Other issues with unmetered fire lines are that these lines consume large quantities of water when they are tested, and there is also no way to monitor unauthorized use or leaks.

FIRE SERVICE LINE DISCUSSION (CONTINUED):

Staff has ongoing concerns with these large, unmetered connections and how to identify water losses and unbilled water usage in the Service Authority’s system. Newer meters are designed to be compatible with fire protection systems, and the September 1, 2016, update to the Service Authority’s Design and Construction Standards requires that all new fire service lines be metered.

Staff will continue to look at how to manage these connections, including installation of meters on existing fire services.

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AUGUSTA COUNTY SCHOOLS – REVIEW OF LEAD AND COPPER TESTING PROGRAM

Per EPA regulations, lead and copper tests are required to be conducted on single family homes built between January 1983 and April 1986 because they could have a greater possibility of lead solder or lead fixtures. This requirement excludes schools, which as a result have never been tested.

Due to the recent lead and copper issues in Flint, Michigan, the Service Authority discussed with the Augusta County Schools’ superintendent and maintenance staff a special testing program that could be performed at all County school facilities. Based on this discussion, Staff determined specific sampling criteria and identified a representative sampling of schools. A total of fifty-seven samples were taken.

With one exception, all samples collected were safely within EPA Action Levels for lead and copper, meaning that no corrective action was required. The one exception was collected from an infrequently used Tilt Skillet water faucet in the Wilson Memorial High School kitchen. Staff noted that it was very likely that the water collected from this faucet would have exceeded the eighteen hour maximum stagnant sitting time, and would not be representative of the typical water quality being used. Staff made the kitchen staff aware of this and suggested they routinely flush that faucet before using it for consumption or food preparation.

Staff thanked the Augusta County Schools’ Maintenance staff for their assistance and cooperation during the monitoring program, and felt that the ongoing efforts on the part of the Augusta County School Board to upgrade their facilities, replace older plumbing, and to maintain an effective and strong maintenance program, have resulted in providing safe drinking water within the schools.

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CLOSED SESSION

Dr. Middleton moved, seconded by Mr. Pyles, to convene in closed session pursuant to Virginia Code §2.2-3711(A)(6), to discuss the consideration of public funds where

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CLOSED SESSION (CONTINUED):

competition or bargaining is involved, where if made public initially, the financial interest of the governmental unit would be adversely affected.

Vote was as follows:

Yeas:	Wills, Middleton, Wells, Pyles, Shull, Bragg and Graves
Nays:	None
Absent:	None

Motion approved.

Mr. Pyles moved, seconded by Mr. Shull, to come out of closed session.

Vote was as follows:

Yeas:	Wills, Middleton, Wells, Pyles, Shull, Bragg and Graves
Nays:	None
Absent:	None

Motion approved.

Board members were requested to certify that only matters pertaining to Virginia Code §2.2-3711(A)(6) were discussed. Members certifying were Wills, Middleton, Wells, Pyles, Shull, Bragg and Graves.

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There being no further business, the meeting was adjourned at 3:24 p.m.

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Secretary

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Chairman