

Washington County Service Authority Board of Commissioners
May 21, 2018 Regular Meeting Minutes

1. Call the Meeting to Order- Vice Chairman

The Regular Meeting of the Washington County Service Authority Board of Commissioners, held in the E. W. Potts, Jr. Board Room located at 25122 Regal Drive, Abingdon, Virginia, was called to order by the Vice Chairman at 6:01 pm.

2. Roll Call - Vice Chairman

Commissioners Present:

Mr. Jim McCall, Vice Chairman
Mr. Wayne Campbell
Mr. Dwain Miller
Mr. Tim Orfield
Mr. Vernon Smith
Mr. Kenneth Taylor

Commissioners Absent:

Mr. Mike White, Chairman

WCSA Officers Present:

Robbie Cornett; Secretary, General Manager
Melinda Jett; Treasurer, Controller
Carol Ann Shaffer; Assistant Secretary, Administrative Assistant

General Counsel Present:

Thomas Dene, Esq.; Dene & Dene, P.C.

Consultants Present:

Dennis Amos, PE; Hurt & Proffitt, Inc.
Bobby Lane, PE; The Lane Group, Inc.
Kevin Heath, PE; The Lane Group, Inc.

WCSA Staff Present:

Dave Cheek PE; Operations Manager
Ryan Kiser, PE; Engineering Manager
Holly Edwards; Customer Service
Johnny Lester; Maintenance Manager
Ken Perrigan; Meter Manager

3. Prayer and Pledge of Allegiance - Dave Cheek

Mr. Cheek opened the meeting in prayer and led the Pledge of Allegiance.

4. Approval of the Amended Agenda - Vice Chairman

Mr. Taylor motioned to approve the Amended Agenda, Mr. Campbell seconded and the Board approved with a unanimous vote.

5. Public Query and Comment - Vice Chairman

There was no public query or comment.

6. Approval of the Consent Agenda with Exceptions - Vice Chairman

A. Approval of Minutes:

- Amended March 26, 2018 Regular Board Meeting Minutes
- April 17, 2018 Dispute Committee Meeting Minutes
- March 26, 2018 Recessed Meeting Minutes (held April 23, 2018)

B. Routine Reports: April 2018

- Water Production
- Water Distribution
- Meter Department
- Wastewater Operations
- Customer Service
- Maintenance
- Engineering
- Accounting
- Health & Safety Report

C. Financial Reports: April 2018

- Balance Sheet
- Income Statement
- Check Register / General Manager Financial Statement
Except for Checks 040564, 040565, 040655 and 040648

Mr. Miller motioned to approve the Consent Agenda, Mr. Orfield seconded and the motion carried with a 6-0-0-1 vote.

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7. Consideration of Check Numbers 040564 to Misty Mountain Spring Water Company – Vice Chairman

Mr. Orfield noted he is an employee of Mid-Mountain Foods Inc., and would therefore be abstaining from discussions or voting on this agenda item.

Mr. Campbell made a motion to approve check number 040564. Mr. Miller seconded and the Board approved voting 5-0-1-1.

8. Consideration of Check Number 040648 to King General Contractors – Ken Taylor, Acting Chairman

Mr. McCall stepped down as acting Chairman and abstained from discussions or voting on this Agenda Item as he is employed by King General Contractors.

Mr. Taylor took over as Acting Chairman for this item.

Mr. Campbell motioned to approve check number 04648. Mr. Miller seconded and the Board approved voting 5-0-1-1.

9. Legal Counsel Report and Update – Thomas Dene

Mr. Dene reviewed legislative updates with the Board.

He recommended the Board consider adopting rules to govern public comment and offered to present the Board with a draft set of rules for their review and comment. There was a consensus to prepare the rules for review and consideration.

10. Operations Manager's Report and Update – Dave Cheek

An outline of the Operations Report and Update reviewed by Mr. Cheek is attached.

During his review, Mr. Cheek referred to a handout (see attached) placed at the

Board's stations detailing remaining action items for the Mill Creek Plant.

11. General Manager's Report and Update – Robbie Cornett

Please see the attached outline of Mr. Cornett's presentation.

12. Water and Wastewater Construction Projects Update – Ryan Kiser

Mr. Kiser reviewed the attached presentation during his update.

13. Engineer's Report & Update

Hurt & Proffitt – Dennis Amos

- Exit 13 Phase 3 Sewer Design

The Lane Group – Bobby Lane

- Water Intake Permit Modification for South Fork and Middle Fork Intakes
- Mill Creek Water System Improvements

The Lane Group – Kevin Heath

- Route 58 Water Supply Improvements Project

During Mr. Heath's review of the Route 58 Project, Mr. McCall stepped down as acting Chairman and abstained from discussions or voting on this item and Agenda Item 14 as he is employed by King General Contractors; one of the contractors for the Route 58 Water Supply Improvements Project.

Mr. Taylor took over as Acting Chairman.

- Lee Highway Corridor Sewer Project Phase 1 – Study
- Abingdon Tank Improvements Project

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14. Consideration of Change Order 1 for Contract 2 of the Route 58 Water Supply Improvements Project – Ken Taylor, Acting Chairman

Mr. Miller motioned to approve Change Order 1 for Contract 2, Mr. Smith seconded and the Motion carried with a 5-0-1-1 vote with Mr. McCall abstaining.

15. Consideration of Change Order 1 for Contract 3 of the Route 58 Water Supply Improvements Project – Jim McCall took over Acting Chair from Ken Taylor

Mr. Taylor motioned to approve change order 1 for Contract 3 as requested; Mr. Smith seconded and the Board approved voting 6-0-0-1.

16. Consideration of Lawn Service Bids, Sludge Removal Bids, and Chemical Bids - Melinda Jett

Mrs. Jett recommended approving the sole bidder for sludge removal, Robert Montgomery and approving the low bidder, Meadowview Enterprises, for lawn care services. Mrs. Jett also recommended reviewing bid qualifications for chemical bids as there were no bids submitted for several chemicals.

Mr. Campbell motioned to approve the bids for lawn care services and sludge removal as recommended. Mr. Miller seconded and the Board approved with a 6-0-0-1 vote.

17. Consideration of Check Number 040565 and 040655 to Mountain Materials – Vice Chairman

Mr. Taylor abstained from voting or discussions related to this item as he is an employee of W&L Construction who has an affiliated business entity relationship with Mountain Materials.

Mr. Miller motioned to approve the checks as listed, Mr. Campbell seconded and the Board approved voting 5-0-1-1 with Mr. Taylor abstaining.

Mr. Campbell motioned to approve Change Order No. 2. Mr. Miller seconded and the Board approved voting 4-0-1-2.

18. Closed Meeting – 7:37 pm

Mr. Dene read the following:

I move that the Board of Commissioners of the WCSA adjourn to Closed Meeting in accordance with the Virginia Freedom of Information Act,

Code of Virginia Section 2.2-3711 Paragraph (A) (1): Personnel

1. To discuss and consider the performance of a specific appointee of the Board of Commissioners of the Washington County Service Authority.

Code of Virginia Section 2.2-3711 Paragraph (A) (7): Actual Litigation

2. Consultation with legal counsel and briefings by staff members pertaining to actual litigation, where such consultation or briefing in open meeting would adversely affect the negotiating or litigating posture of the WCSA, specifically involving the case of Washington County Service Authority v. Bundy, currently pending in the Circuit Court of Washington County, Virginia.

Code of Virginia Section 2.2-3711 Paragraph (A) (7): Probable Litigation

3. Consultation with legal counsel and briefings by staff members or consultants pertaining to probable litigation that has been specifically threatened or which the WCSA or its legal counsel has a reasonable basis to believe will be commenced by a known party, where such

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consultation or briefing in open meeting would adversely affect the negotiating or litigating posture of the public body.

Code of Virginia Section 2.2-3711 Paragraph (A) (19): Public Safety

4. To discuss plans related to the security of any governmental facility, building or structure, and the safety of persons using such facility, building or structure.

Code of Virginia Section 2.2-3711 Paragraph (A) (8): Consultation with Counsel

5. Consultation with legal counsel employed or retained by a public body regarding specific legal matters requiring the provision of legal advice by such counsel, specifically involving WCSA's cross-connection and backflow prevention program.

Code of Virginia Section 2.2-3711 Paragraph (A) (29): Contracts

6. To discuss the award of a public contract involving the expenditure of public funds, and discussion of the terms or scope of such contract, where discussion in an open session would adversely affect the bargaining position or negotiating strategy of the Washington County Service Authority, specifically involving the terms, scope and possible extension of a contract for cell tower marketing.

Code of Virginia Section 2.2-3711 Paragraph (A) (29): Contracts

7. To discuss the award of a public contract involving the expenditure of public funds and discussion of the terms or scope of such contract, where discussion in an open session would adversely affect the bargaining position or negotiating strategy of the Washington County Service Authority, specifically

involving the award of a contract or contracts for the Lee Highway Corridor Sewer Project.

In addition to the Board the presence of Thomas Dene, WCSA General Counsel, and Robbie Cornett, WCSA General Manager, were requested.

Mr. Campbell made a motion for closed meeting as read by Mr. Dene. Mr. Taylor seconded and the Board agreed voting 6-0-0-1.

19. Return to Public Meeting – 9:27 pm

Mr. Taylor moved that the Board return to Open Session. Mr. Smith seconded and the motion carried with a 6-0-0-1 vote.

Mr. Dene then read the following Certification of Closed Meeting;

Whereas, the Board of Commissioners of the Washington County Service Authority has convened a Closed Meeting on this date pursuant to an affirmative recorded vote and in accordance with the provisions of the Virginia Freedom of Information Act; And Whereas, Section 2.2-3712 Paragraph D of the Code of Virginia requires a certification by this Authority that such Closed Meeting was conducted in conformity with Virginia law;

And Now, therefore, be it resolved that the Committee of Board of Commissioners of the Washington County Service Authority hereby certifies that to the best of each member's knowledge, (1) only public business matters lawfully exempted from open meeting requirements by Virginia law were discussed in the Closed Meeting to which this certification resolution applies, and (2) only such public business matters as were identified in the motion convening the

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Closed Meeting were heard, discussed or considered by the Board.

Aye by Mr. Miller, Mr. Campbell, Mr. Taylor, Mr. McCall, Mr. Orfield and Mr. Smith confirming no outside discussion took place other than Closed Meeting topics.

19. Late Items – Vice Chairman

Mr. Miller made a motion to apply to Rural Development for the Backbone System for the Lee Highway Corridor Sewer Project. Mr. Campbell seconded and the Board approved voting 6-0-0-1.

Mr. Miller motioned to preliminarily resend the wastewater rate increase scheduled to take effect in July 2018. Mr. Campbell seconded and the Board approved with a 6-0-0-1 vote.

20. Adjourn – 9:35 pm






Mr. Taylor made a motion to recess, Mr. Smith seconded and the Board approved with a 6-0-0-1 vote.



Mr. Jim McCall, Vice Chairman



Carol Ann Shaffer, Assistant Secretary

- 1  **April 2018 Operational Update**
May 21, 2018
- 2  **Discussion Items**
 - ▶ People
 - ▶ Safety
 - ▶ Department Highlights
 - ▶ Financials less Comp & Benefits
 - ▶ Forward Looking Statement
- 3  **2018 April Water Production Highlights**
 - ▶ SFI, MFDWP & Mill Creek Issue Resolution
 - Raw Water Feed to the Plant
 - Cla-Val, Performing much better, still need to provide PID loop control to raw water pumps
 - Mill Creek Plant Replacement
 - Koch plant decommissioned and removed
 - Evoqua Plant: 1st Skid Producing Water, Finishing 30 Day VDH Demonstration Trial
 - Working with TLG on Open Process Items
 - 2nd Skid being installed
 - ▶ System Operation
 - Water Quality
 - Brumley Gap Area, Systematic Approach – Definite Improvement
 - Hidden Valley DBP – Exploratory Well Approved, Site Selected, Working with Out of State Landowner – Latest DBP Results very, very good.
- 4  **2018 April Wastewater Process Highlights**
 - ▶ I&I
 - Team Approach with Maintenance
 - Need to Focus Sufficient Resources on this Area
 - ▶ Operational
 - Hall Creek Internal Plant SCADA
 - Collection System SCADA
 - ▶ Capital
 - Scoping Equipment needs for Hall Creek Headworks
 - Plan is to utilize RFP Process
 - Pumps Installed – Move to Higher Priority
 - Scoping Process to Retrofit Damascus Plant to extend useful life
- 5  **2018 April Distribution Highlights**
 - ▶ Providing Technical Support to SFI and MFDWP Issues
 - ▶ Executing PSV/PRV Preventive Maintenance Program
 - Establishing Baseline for each PRV, Hydraulic Grade lines
 - ▶ Continued with Customer Education & Inspections of Cross Connections and Back Flow Prevention
 - ▶ Recall we are systematically approaching water losses, Non Revenue Water, NRW
 - Have Correlator in House

- Training on it
- Starting to utilize to locate leaks
- ▶ Scheduling AWWA Water Audit in Near Future

6 **2018 April Metering Highlights**

- ▶ Meter Replacement, Very Large Project
 - Found Issue with >3" meters
 - Maintenance Inspecting each to determine Scope to Bring the vaults up to standards so meters can be tested or exchanged

7 **2018 April Water Maintenance Highlights**

- ▶ System Improvements
 - ~~Roses & Food City Fire System Isolation Valves~~
 - ~~Potable Water at MFDWP Energy Recovery Building~~
 - ~~Jumping Over on Wallace Pike (80%, 1 mile) & Old Saltworks (70%, 1 Mile from Hillman to Walden Rd) to eliminate dual lines~~
 - Next is Pocahontas towards Ramblewood
- ▶ Routine Activities
 - Leaks – 15 (2015 Avg. 30)
 - Main Line Breaks – 2 (2015 Avg. 6)
 - After Hours Responses – 29 down from 38 (2015 Avg. 38) (See Overtime)
 - *After Hours Responses a Target Area for Improvement*
- ▶ Costs
 - Preventive Maintenance
 - Mobile Equipment
 - Tanks
 - Pump Stations
 - Fire Hydrants

8 **Monthly We are Tracking Under Budget**

9 **Year to Date we are Tracking Under Budget**

10 **Forward Looking Statement**

- ▶ Customer Relationships
 - Fire Departments
 - Hydrants & Training – Well in Progress
 - Water & Sewer Customers
 - More Customer Engagement at Time of Contact
 - Door Hangers
- ▶ Quality
 - System Pressure/Flow Variations as Detected During Hydrant Stress Tests
 - Hidden Valley DBP
- ▶ Costs
 - Production Costs (Water Loss and I&I)
 - Continue to work with all Departments to reduce Non Revenue Activities (NRA)
 - Hydrants as a Device to "Stress Test" our Water Delivery System to identify Problems Early
 - Construct Hydraulic Grade lines in our GIS to aid in Troubleshooting and Early

Detection

- Work with Engineering/Operations on How to Work Together to Obtain the Most Value in our Construction Projects

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Mill Creek Drinking Water Plant Evoqua Conversion
Updated 5/15/2018

Item #	What	Who	When		How Much (\$)	Comments
			Start	Complete		
1	Change Computer in Lab to show 2 significant figures on finished water Chlorine	Frank/Jeff	4/25/2018			Frank has stated that this item should be resolved by the end of this week. We stressed the importance to him.
2	Correct Data Trending to show at least 24 hours of data (MOU 0880) and to allow for date specific historical look-up	Frank/Jeff	4/25/2018			Frank States that trending data is available. Specific historical data capability may need to be added.
3	Correct Daily Report writer so that by default it is on	Frank	4/25/2018			Frank has stated that this item should be resolved by the end of this week. We stressed the importance to him.
4	Train WCSA on Data Logging System	Frank	4/25/2018			Frank has stated that this item should be resolved by the end of this week. We stressed the importance to him.
5	Demonstrate Monthly Reporting function and train WCSA on how to generate	Frank				Frank has stated that this item should be resolved by the end of this week. We stressed the importance to him.
6	No finished water in lab	Jeff	5/11/2018			Waiting on completion of Septic Drainfield System. The tank is in place and the Contractor is waiting on delivery of the drainfield equipment.
7						Frank is aware that this work is needed. He also is aware that there may be changes in the equipment layout and would like to wait until the final location is determined to make the improvements
8	Wiring in chemical feed area hanging loose, junction box uncovered Wires spliced	Frank Bonham				Contractor will correct.
9	Evoqua Poor Workmanship on Chemical Feed Control panel, had 2 shut downs. WCSA replaced some tubing to maintain operation	Evoqua/Bobby L./Dave				Contractor and equipment supplier to rework when equipment is moved. Dave to decide on chemical vessels, ie. Totes, drums, etc.
10	Chemical feed area needs significant bracing, chemical feed	Jeff/Frank				
11	Chemical feedpump priming issues, do not prime causing irregular chemical doses as experienced last week in CIP.	Cal Evoqua/Jeff	4/25/2018			When system is re-located, pump suction will be positive and located below top of drum/tote. Engineer has expressed concern with the application of the presently supplied pumps.
12	Incorrect Acid (93% vs 50%), who checked and what residual damage including Solenoid Valve, hoses, piping and valves	Evoqua/Frank	4/25/2018			Evoqua/ contractor to provide verification of damage free equipment.
13	Air bleed line backs up water into building	Jeff/Frank				Contractor to correct.
14	Bleed line shoots water across floor, overshooting drain	Bonham				
15	Provide correct finished water valve control and feedback to Memcor Control Panel	Frank/Evoqua/Jeff				Jeff is working on plans for a proposal to replace finished water pumps. Control valves and programming may be done at this time.
16	Correct CCT tank level indication to accurate values on both computers	Evoqua	4/24/2018	4/24/2018		Cal added offset, seems to align with tank level. Complete.
17	Provide finished water interlocks and pump control from Memcor Control Panel	Evoqua				See Item 15.
18	Reroute cable entries and mark wires in Memcor panel	Frank/Evoqua				
19	Phone line installed so Evoqua can remotely access PLC program	Jennifer/Evoqua		5/1/2018		Complete
20	Extended warranty on Feed Pump Motor	Frank/Evoqua				Contractor proposes a 2-year warranty.
21	Door Locks	Jeff				Lock sets have been delivered to job. Contractor to install.
22						We have a turbidity meter from the Koch plant that may be repurposed for this use. Bonham to coordinate. This meter will be on the combined filtrate flow.
23	No finished turb. Meter (combined filtrate)	Jeff/Bonham				
24	Method to access top of cartridges given poor concrete form	Bobby L.				Needs to be resolved prior to pinning of fibers.
25	Valve Portion vibrates from Module Section, future failure, determine if isolators are required	Bobby L.				
26	CIP piping between CIP tank and lab not acceptable, no maintenance access, seems to cause CIP pump to cavitate	Jeff/Frank/Bobby L.				See Item 9.
27	Determine if all tread rod is acceptable flange bolt	Bobby L.				Contractor states that some all thread rods will have to be used. Others will be replaced.
28	Decide if fluoride acid or powder to be used at MCDWP	Dave/Don				Dav and Don to make decision on fluoride acid or saturator
29	System performing backwash too frequently (4/21/18), Root Cause and Countermeasure	Lane/ Evoqua				
30	Raw Water pump not producing output as expected (4/21/18), Root Cause and Countermeasure	Jeff				
31	Per Sonic test at least 1 cartridge is leaking and needs pinning. Method of documenting and why has it failed already?	Bobby L.	4/24/2018			Graeme ran sonic test last week, may or may not be a leak.
32	Transfer Switch does may not have hold function	Jeff/Bopp				
33	CIP Tank Heater does not work in Auto, overheats and does not regulate temperature	Evoqua	4/24/2018			Cal Adjusted Thermocouple- Waiting to be tested. Complete.
34	When did the 30 day VDH Demonstration start and did the plant shutdown from April 13 to 17 (wrong acid) & 21 to 23 influence this Demonstration test	Bobby L./Jeff				Coordinating with Eric Herold. We believe adequate sampling has been performed.
35	Coordinate the tie-in of Widener Spring with Town and WCSA and schedule a date and time	Bobby L.	4/26/2018	5/9/2018		Complete.
36	Adjust Widener Spring Flows to Maximum allowed and check flushing of Raw Water Line.	Bobby L./Jay Keen				
37	Air Receiver Tanks need to be registered	Den				Complete.
38	VPDES Application	Ryan/Den	4/24/2018	5/2/2018		Ryan has submitted application to DEQ. Complete
39	Safety Concern with Sulfuric Acid lines passing over employee working areas. Think should be double lines similar to MFDWP	Bobby L.				Lane has asked Contractor to develop a price for "double piping" acid lines over personnel pathways.
40	Make requested improvements to chlorine and fluoride rooms					
41	Amendment # 5	Bobby L. /Jeff				
42	Filtrate valve # 2 Binding	Frank				
43	Mismatched material in air lines (Galvanized)	Bonham/Frank				
44	Overflow Line vibrating	Frank				

1  **General Manager's Report and Update**

May 21, 2017

2  **Introduction**

- ▶ Safety
- ▶ Financials
- ▶ Customer Service
- ▶ Accounting
- ▶ Notable Items
- ▶ Washington County Water Trivia
- ▶ Looking Ahead

3  **Safety**

- ▶ Ergonomics
 - Ergonomics (or 'human factors') is a branch of science that aims to learn about human abilities and limitations, and then apply this learning to improve people's interaction with products, systems and environments.
 - Ergonomics aims to improve workspaces and environments to minimize risk of injury or harm. So as technologies change, so too does the need to ensure that the tools we access for work, rest and play are designed for our body's requirements.

4  **Financials: Water Revenue**

5  **Financials: Wastewater Revenue**

6  **Financials: Water Expenses**

7  **Customer Service**

- ▶ Rules and Regulations Update
 - Marathon not a Sprint
- ▶ Disputes
 - April: 1 Staff Response; 1 Committee Meeting
- ▶ Building and Grounds Improvements
 - Completed:
 - Damaged and Faded Signs
 - Restored Seal
 - Lobby Ceiling Tile
 - Tree Trimming
 - Parking Lot Striping
 - In-progress:
 - Lobby Island, Sunshade & Museum
 - Carpet Research
 - Lobby Area Security Improvements

8  **Customer Service**

- ▶ HomeServe
 - Water Loss Reimbursement Program
 - Water Service Line "Plus" Coverage
 - Adds \$1.00/Month to Coverage Cost (\$5.49/Month)
 - Once Your Covered Repair is Complete, HomeServe Will Reimburse up to \$500 for

the Cost of any Associated Water Loss.

- Amount up to \$500 Determined by Comparing Leak Bill to Last Years Bill
- Managing Publication Review and Approval

9  **Accounting**

- ▶ FYE 2019 Budget Composition
 - All Department Managers Involved/Engaged
 - Assimilation of Budgets (Revenue & Expenses) and Comparison to 5-Year Financial Plan
- ▶ Compensation & Benefit Study
 - March/April: Market Survey, Job Analysis and Assessment
 - 25 Market Survey Responses
 - Findings & Conclusions In Development
- ▶ Reserve Investment
 - Targeting June Recommendation
- ▶ Debt Set-Off Collection
 - 2018: Matched 227 of 1,616 Accounts for \$26,596

10  **Accounting**

11  **Notables**

- ▶ Lee Highway Corridor Sewer Project
 - Working With The Lane Group to Develop a Engineering Agreement to Complete Preliminary Engineering Report
 - March 14, April 11, and May 9, 2018: Met With the IDA-Confirming Industrial Sewer Capacity
 - IDA Approves Task 2-Industrial Capacity
 - May 18, 2018, met With USDA Rural Development Regarding Possible Funding Options

12  **Notables**

- ▶ Mill Creek Steering Committee Meeting
 - Concurred With the Proposed 2018-2019 Budget.
 - Recognized a Need to Look at Capacity Allocation Next Year.
 - Meet in December to Review and if Necessary Revise 2018-2019 Budget Based on Actual Expenses.
 - Agreed to Update "Replacement Cost Estimate" to Reflect Future Needs (*Inflation*).
 - Plan to Replace Billing Turbine Meters With Mag Meters.

13  **Notables**

- ▶ Interconnected Water Systems Meeting
 - Sponsored by the Virginia Department of Health
 - Met at WCSA
 - Topics Included:
 - Existing Interconnections and Importance of Cooperation (Eric Herold)
 - Emergency Response Plans (Bryan Wade)
 - Benefits of Being a VAWARN Member (Bryan Wade)
 - Other Means of Cooperation (Eric Herold)
 - Participants: BVUA, Smyth County, Thomas Bridge, Towns of Chilhowie and Saltville

and WCSA

14  **Washington County Water Trivia**

- ▶ Damascus
 - Water was first piped to Damascus homes in? [*YEAR*]
 - The first two homes to have bathrooms were built in? [*YEAR*]
 - Who built the first water system? [*NAME*]
 - He used a hydraulic ram to pump water from springs beside the river below [*WHAT*] dam to a small reservoir up the hill.
 - From the reservoir the water was piped across the river in a boxed pipe attached to a [*THING*] above the dam.

15  **Washington County Water Trivia**

- ▶ Damascus
 - Water was first piped to Damascus homes in? 1902
 - The first two homes to have bathrooms were built in? 1903
 - Who built the first water system? Jackie Wright
 - He used a hydraulic ram to pump water from springs beside the river below Wilkinson dam to a small reservoir up the hill.
 - From the reservoir the water was piped across the river in a boxed pipe attached to a *swinging bridge* above the dam.

16  **Looking Ahead**

- ▶ Water Quality
- ▶ FYE 19 Budget
- ▶ Water Withdrawal Permit
- ▶ Lee Highway Corridor Sewer Project
- ▶ Meter Replacement
- ▶ Comp. & Benefit Study
- ▶ Rate & Financial Plan



Water Line Extension Projects

- Rattle Creek – Mount Rogers Planning District Commission is working on application to DHCD. Met with MRPDC last week to go over information they need for the application.
- Chip Ridge –Notice to proceed is dated April 23. Requested schedule update from contractor and they plan to begin mid-June.
- Rich Valley Road – VDOT has reviewed plans and cleared project for construction. Bid documents and plans will be submitted to VDH in early June. Would anticipate advertising project and having bids for your review at July meeting.



Water Line Extension Projects

- Sugar Cove Road – Staff is working on easements for the project. Proposed pump station site plat has been submitted to County for review. Mr. Dene is performing title work for property purchase.
- Hidden Valley Phase 2 – Purchase option agreement is being finalized and will be sent to property owner for review and signature.
- Next steps after agreement is signed would be to procure a driller.

