ANDERSON REGIONAL
JOINT WATER SYSTEM

998 Hunters Trail Anderson, SC 29625 Phone: 864-332-6534 Fax: 864-224-6116

BOARD AGENDA

Board of Commissioners
April 23, 2025
Noon

Call to Order / Determination of Quorum
Pledge of Allegiance
Commissioners' Comments
Public Comment

I. Approval of Minutes February 26, 2025

II. Consent Calendar (Old Business)

1. None

III. Items Requiring Immediate Action

1. FY 2025/26 Budget – First Reading
2. Clemson University FY 2025/26 Wholesale Rate – First Reading

IV. Discussion (New Business)

1. Executive Director's Report (Oral)

V. Informational Reports

1. Executive Committee Meeting Summary
2. Finance and Administration Report
3. Operations and Maintenance Report

VI. Adjournment

Future planned Board meeting dates are:

- June 25, 2025
- August 27, 2025
- October 22, 2025

ANDERSON REGIONAL
JOINT WATER SYSTEM

Your Community-Owned and Operated System

998 Hunters Trail Anderson, SC 29625
Phone: 864-332-6534 Fax: 864-224-6116
www.arjwater.com

MINUTES OF THE ANDERSON REGIONAL JOINT WATER SYSTEM February 26, 2025

LET THE MINUTES SHOW THAT THE MEDIA WERE NOTIFIED OF THIS MEETING IN ACCORDANCE WITH THE SOUTH CAROLINA FREEDOM OF INFORMATION ACT.

A QUORUM OF THE BOARD IS PRESENT.

COMMISSIONERS PRESENT: Benjie McGill, City of Clemson; Patrick Jackson, Starr-Iva; Matt Ruff, Big Creek-Hammond; Tracy Durham, Sandy Spring; Scott Banks, City of Anderson; Robin Gore, Powdersville Water; Mitch Ellenburg, Belton-Honea Path Water; Randy Church, Broadway Water; Kevin Strickland, Town of Williamston; Phillip Mishoe, Town of Central; Don King, Homeland Park

OTHERS PRESENT: Lisa Evatt, ARJWS; Kendall Cleary, ARJWS; Chris Weber, ARJWS; Tony Putnam, Clemson University; Brandon Good, ARJWS; Justin Clemones, ARJWS; Jodi Logan, ARJWS

Chairman Patrick Jackson called the Board meeting of Anderson Regional Joint Water System to order at 12:00 p.m. on February 26, 2025.

Chairman Patrick Jackson asked for any Commissioner comments. Mr. Jackson introduced Christopher Weber as the Executive Director at ARJWS and read a bio handout on him. Mr. Willett has stepped down from his position, allowing Mr. Weber to assume the role. Mr. Jackson thanked the Executive Committee and staff for their time and patience during the process. Mr. Ellenburg reminded the Board the SC General Assembly declared the first Monday of March of each year as Water Professionals Day. He asked the Board to recognize their staff.

Chairman Patrick Jackson asked for any public comments. There were none.

Mr. Ruff made a motion to approve the January 22, 2025, minutes. Mrs. Durham seconded. Motion carried.

I. Consent Calendar (Old Business)

1. None

II. Items Requiring Immediate Action

1. None

III. Discussion (New Business)

1. FY 2026 Budget Update

Mrs. Cleary presented the FY 2025-2026 Budget Drivers handout to all board members and discussed each line item. The updated estimated revenue requirement increase is 9.23%. Mrs. Cleary reminded the Board this is the last meeting before the first FY 2025/26 budget reading. Ms. Cleary asked for any comments, there were none.

2. Redundancy and Source Water Planning

Mr. Weber proposed to wait on drafting the letter to Greenville Water related to regionalization and planning for future growth in the Upstate. Mr. Weber suggested more conversations are needed before any actions are taken on planning for future water resources. Mr. Weber also gave an update on the status of the PFAS litigation.

3. Director's Report (Oral)

Mr. Weber discussed his focus going forward in the Executive Director's role. Mr. Weber spoke on safety and the importance of ARJWS having a reliability plan. Mr. Weber gave an update on the OSHA findings and actions that have been taken since the July 2024 accident. Mr. Weber discussed having a reliability plan is essential to ensure the continuous delivery of water without interruptions. Mr. Banks asked Mr. Weber to send a written OSHA update to board members.

IV. Informational Reports

1. Finance and Administration Report
2. Operations and Maintenance Report

These reports are for information and for each Member to review as written. A copy of each report is attached to the file of these minutes.

V. Closed Executive Session

1. CBS Property Sale

As stated by Chairman Patrick Jackson:
A CLOSED EXECUTIVE SESSION HAS BEEN REQUESTED AND IS AUTHORIZED UNDER SC FREEDOM OF INFORMATION ACT (SECTION 30-4-70(a)(1)) FOR THE PURPOSE OF DISCUSSING A PERSONNEL MATTER.

A motion was made by Mr. McGill to enter a closed executive session at 12:34 p.m. and seconded by Mr. Mishoe.

As stated by Chairman Patrick Jackson:
AT 12:40 P.M., THE BOARD CONCLUDED ITS CLOSED EXECUTIVE SESSION, AND PER THE SC FREEDOM ACT, NO ACTIONS OR VOTES WERE TAKEN.

Mr. McGill made a motion to end the closed executive session. Mr. Banks seconded. Motion carried.

The following motion was made:

Mr. King made a motion to not accept the offer on the old CBS property that was received from the developer of the adjacent development. Mrs. Durham seconded. Motion carried.

VI. Adjournment

With no further business, Mr. Banks made a motion to adjourn at 12:44 p.m. and Mr. Ellenburg seconded. Motion carried.

Respectfully submitted,

Benjie McGill

Secretary/Treasurer

ANDERSON REGIONAL
JOINT WATER SYSTEM

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BOARD MEMORANDUM

April 16, 2025

Subject
FY 2025/26 Annual Budget

Recommendation
Management recommends approval of the first reading of the proposed FY 2025/26 Annual Budget.

Alternatives:

1. Seek amendment to the proposed annual budget.

Fiscal impact
The proposed annual budget is $15.29 million. The budget will fund $8.32 million in annual operating expenses, $5.37 million in annual debt service, and $1.61 million in system R&R. In total, the proposed budget represents a 9.23% net change over the approved FY 2024/25 budget.

Discussion
Under the terms of the Water Sale and Purchase Agreement, the Joint Water System must develop an annual budget for its anticipated costs for the upcoming year. The attached budget represents the Joint Water System's best estimate of costs anticipated for FY 2025/26.

1. Operations cost increased by 17.0%, largely associated with increased costs related to dredging the upper and lower lagoons, chemicals, and industrial power rates.

2. Maintenance cost decreased by 8.5% mainly due to one-time costs incurred in the prior year related to the ozone facility.

3. Total Employee cost decreased by 6.6% related to a temporary reduction in staff and the retirement of the Executive Director.

4. In total, the $1.54 million Joint Water System CIP for FY 2024/25 envisions balancing the immediate R&R needs of the System with long term capital planning.

    - $364,000 Equipment
    - $175,000 Miscellaneous Repairs
    - $197,180 Large Pump Repairs/Replacements
    - $100,000 Safety Projects
    - $167,000 Vehicle Replacement
    - $75,000 Meter Replacement/Meter Upgrades
    - $130,000 Hydraulic Model
    - $130,000 Plant Repairs
    - $200,000 SCDOT Unforeseen Projects

Prepared by: Kendall Cleary, CPA, Accounting Manager
Approved by: Chris Weber, Executive Director

Attachments:

Proposed FY 2025/26 Pro Forma Financial Plan
Proposed FY 2025/26 Operating Budget
Proposed FY 2025/26 Capital Improvement Plan

PRO FORMA

	Adopted FY 24/25	FY 25/26	FY 26/27	FY 27/28	FY 28/29
Operating Revenues					
O&M Payments	7,475,467	8,093,944	8,462,401	9,298,541	9,765,817
Rate Stablizaton Credit to O&M Payments	(200,000)	222,300	-	-	-
SAWS Credit to O&M Payments	(30,000)	-	-	-	-
Capital Charge - Debt Service	5,224,485	5,367,335	5,649,221	5,412,441	5,418,349
Capital Charge - Repair & Replacement	1,567,346	1,610,201	1,694,766	1,623,732	1,625,505
Total Revenues	14,037,298	15,293,780	15,806,388	16,334,714	16,809,671
Operating Expenses					
Administrative Expense	506,000	721,600	745,200	807,300	818,800
Operations Expense	3,262,200	3,840,900	3,911,100	4,156,800	4,299,900
Maintenance Expense	606,200	554,400	601,900	701,400	768,800
Employee Expense	2,731,200	2,552,300	2,670,700	2,794,600	2,924,600
Miscellaneous Expense	188,300	188,700	193,700	263,700	270,600
Depreciation Charge	181,567	236,044	339,801	574,741	683,117
Total Operating Expenses:	7,475,467	8,093,944	8,462,401	9,298,541	9,765,817
Net Operating Revenues	6,743,398	7,435,880	7,683,788	7,610,914	7,726,971
Debt Service Payments - Senior Lien					
Series 2017A - Refunding (Matures 2032)	722,246	725,530	3,514,934	3,505,154	3,515,462
Series 2017 - T&O (Matures 2038)	771,037	771,037	771,037	771,037	771,037
Series 2020A (Tax Exempt) (Matures 2033)	1,165,550	1,163,350	1,084,750	857,750	853,350
Series 2020B (Taxable) (Matures 2026)	2,565,653	2,568,169	-	-	-
Series 2025 SRF	-	28,000	56,000	56,000	56,000
Series 2025 Bank Loan	-	111,250	222,500	222,500	222,500
Total Debt Service Requirements - Senior Lien	5,224,485	5,367,335	5,649,221	5,412,441	5,418,349
Senior Lien Coverage (x)	**1.335 X**	**1.344 X**	**1.360 X**	**1.406 X**	**1.426 X**
Junior Lien Debt					
2017B Water Supply Jr Lien	(80,448)	-	-	-	-
From Reserves	80,448	-	-	-	-
Net Debt Service Requirements - Junior Lien	-	-	-	-	-
Net Revenues after Debt Service	1,518,913	2,068,545	2,034,567	2,198,473	2,308,622
Interest on Debt Service Reserve Fund	131,616	131,616	131,616	131,616	131,616
Renewal and Replacement Funds:					
System R&R Deposit	1,499,582	1,542,317	1,538,773	1,467,941	1,469,501
Pumped R&R Deposit	67,764	67,883	72,443	72,241	72,454
Powershare Credit for PRR	(25,000)	-	-	-	-
Depreciation	2,649,868	2,637,493	2,608,419	2,586,439	2,565,136
Total R&R Contributions	1,567,346	1,610,201	1,694,766	1,623,732	1,625,505
Depreciation Funding Percentage	66.0%	70.0%	78.0%	85.0%	90.0%
Depreciation Target Percentage	66.0%	70.0%	78.0%	85.0%	90.0%
Depreciation charge (Net)	181,567	236,044	339,801	574,741	683,117
Bottom Line					
Net Revenues Paid by Members	**13,880,682**	**15,162,164**	**15,674,772**	**16,203,098**	**16,678,055**
Increased Revenue Requirement	6.00%	9.23%	3.38%	3.37%	2.93%

	Adopted FY 24/25	FY 25/26
Administrative Expenses		
Office Expenses		
Advertising	1,500	1,500
Office Expenses	18,000	18,500
Printing	1,000	1,000
Postage/Freight	5,000	5,500
Office Expenses Subtotal	25,500	26,500
Insurance/Licences/Permits		
Employee Licenses and Applications	3,600	3,700
Purchased Water	88,300	180,000
General Liability	80,000	100,000
Workman's Compensation	22,600	52,000
Insurance/Licences/Permits Subtotal	194,500	335,700
Banking Expense		
Bank and Credit Card Service Charges	10,200	10,800
Check Supplies	700	700
Banking Expense Subtotal	10,900	11,500
Telecommunications		
Cell Phones	9,300	9,500
IT Services	85,000	76,000
IT Equipment	15,000	15,300
Telephone/TV/Internet	18,400	18,800
Telecommunications Subtotal	127,700	119,600
Vehicle Expenses		
Gas Purchases	17,500	18,000
Vehicle Maintenance	10,200	10,400
Car Allowance	26,600	15,000
Vehicle Expenses Subtotal	54,300	43,400
Custodial Expense		
Janitorial Servies/Pest Control	4,100	7,900
Janitorial Supplies	2,000	2,000
Trash Pickup	2,000	2,000
Custodial Expense Subtotal	8,100	11,900
Professional Fees		
Consultants	20,000	108,000
Legal	20,000	20,000
Accounting	20,000	20,000
Engineering	20,000	20,000
Other Professional Fees	2,500	2,500
Professional Fees Subtotal	82,500	170,500
Sales Tax Accrual	2,500	2,500
TOTAL Administrative Expense	**506,000**	**721,600**

	Adopted FY 24/25	FY 25/26
Operations Expenses		
Safety Equipment	8,400	25,000
Laboratory		
Control Maintenance Agreements	5,700	5,800
Control Equipment	3,300	5,000
Lab Testing Supplies	71,500	76,000
Lab Office Expense	4,200	4,300
Lab Equipment	36,300	37,000
Lab Certification/Yearly fees	10,000	10,200
External Lab Testing Fees	8,200	8,300
PFAS Sampling Fees	20,000	20,000
Laboratory Subtotal	159,200	166,600
Chemical Supplies		
Floride (HFS)	47,500	48,900
Phosphate	63,900	66,500
Alum	202,800	215,000
Winter Coagulant	98,600	135,500
Liquid Oxygen	260,800	332,000
Hydrogen Peroxide	10,100	10,400
Lime	108,200	95,400
Sodium Hypochlorite	393,800	200,000
Salt	-	60,000
Misc. Chemicals	5,000	5,200
Chemical Disposal	5,000	5,200
Chemical Supplies Subtotal	1,195,700	1,174,100
Sludge Dredging and Disposal	300,000	800,000
Utilities		
CBS - Electricity	354,000	364,600
WTP - Electricity	1,115,600	1,159,100
HV - Electricity	102,700	105,300
Offsite Water Tanks/Meter Power	2,100	2,200
Generator Fuel	7,500	7,700
Natural Gas	2,000	2,000
Admin Building - Electricity	12,500	12,700
Utilities Subtotal	1,596,400	1,653,600
Security Monitoring Systems	2,500	2,500
TOTAL Operations Expense	**3,262,200**	**3,840,900**

	Adopted FY 24/25	FY 25/26
Maintenance Expense		
Meter Repair		
Meter Parts	2,300	2,300
Meter Maintenance/Testing	1,500	1,500
Meter Repair Subtotal	3,800	3,800
Pump & Motor Maint/Repair		
CBS Pumps	4,200	4,300
HV Pumps	4,200	4,300
Transfer Pumps	4,200	4,300
Raw Water Pumps	23,000	23,500
High Service Pumps	23,000	23,500
Lagoon Pumps	1,500	1,500
Chemical Feed Pumps	5,500	5,600
Sample Pumps	2,000	2,000
Pump & Motor Maint/Repair Subtotal	67,600	69,000
Transmission Repairs & Maintenance		
Generator Repair & Maint. Contract	31,000	31,500
Raw Water Intake	4,300	4,400
Misc. Maintenance and Repairs	24,300	24,800
Transmission Mains	3,800	3,900
ROW Maintenance/Grass Cutting	41,600	43,700
Contracted Locates	31,000	31,600
CBS Repairs	1,900	1,900
Highview Repairs	1,200	1,200
Transmission Repairs & Maintenance Subtotal	139,100	143,000
Water Treatment Repairs		
Filters	12,000	12,200
WTP Equipment	13,200	13,500
Clarifiers	6,200	6,300
WTP Misc Repairs	7,100	7,200
SCADA and Controls	20,700	21,100
Cooling/HVAC	5,200	5,300
Stock Inventory and Parts	20,900	21,400
Filter Plant	5,900	6,000
Water Treatment Repairs Subtotal	91,200	93,000
Tanks/Standpipes/Reservoirs		
Tanks/Standpipes/Reservoirs - Other	36,300	120,000
Tanks/Standpipes/Reservoirs Subtotal	36,300	120,000
Ozone		
Ozone Maintenance Agreement	6,200	6,200
Ozone Generator Repair	1,100	1,100
Ozone Inventory and Parts	240,000	97,000
Tools and Equipment	7,200	7,300
Outdoor Equipment	2,700	2,800
Equipment Rental	11,000	11,200
TOTAL Maintenance Expense	**606,200**	**554,400**

	Adopted FY 24/25	FY 25/26
Employee Expense		
Wages		
Pumped Wages	16,700	17,600
Pumped OT Wages	5,500	7,000
Overtime Wages	99,100	104,100
Wages - Other	1,779,700	1,615,000
Wages Subtotal	1,901,000	1,743,700
Payroll Tax	156,900	144,300
Benefits		
Insurance - Health & Life	259,900	280,100
SCRS Company Match	352,900	323,700
Payroll Expenses - Other	60,500	60,500
Benefits Subtotal	673,300	664,300
TOTAL Employee Expense	**2,731,200**	**2,552,300**
System Expenses		
Travel	13,000	13,500
Manager's Expense	6,700	6,800
Board Expense	4,500	4,600
Incentive Program	5,000	5,200
Training and Education	15,300	15,800
Safety Training and Annual Inspections	10,000	10,300
Meals/Entertainment	9,500	9,800
Public Meetings/Outreach	3,900	4,000
Source Water Protection	50,000	50,000
Uniforms	18,500	19,100
Dues and Renewals	37,700	35,000
Conference/Seminars/Conventions	14,200	14,600
TOTAL System Expenses	**188,300**	**188,700**
TOTAL Operating Expense	**7,293,900**	**7,857,900**
Debt Expense		
Series 2017A - Refunding	722,246	725,530
Series 2017 - T&O	771,037	771,037
Series 2020A (Tax Exempt)	1,165,550	1,163,350
Series 2020B (Taxable)	2,565,653	2,568,169
Series 2025 SRF	-	28,000
Series 2025 Bank Loan	-	111,250
Depreciation Charge	181,567	236,044
TOTAL Debt Expense	**5,406,053**	**5,603,380**
TOTAL	**12,699,953**	**13,461,280**

Anderson Regional Joint Water System
Capital Improvement Plan

			Sources of Funds			
	Project Name	**Total Estimated Project Costs**	**State/Federal Grants**	**Debt Financing**	**ARJWS Cash**	**2026**
	Items from Project List					
1	Radio Upgrades	50,000		-	50,000	50,000
2	Server Upgrade - SCADA	8,000	-	-	8,000	8,000
3	High Service Pump #1-4 motor (spare)	12,000	-	-	12,000	12,000
4	High Service Pump #6	35,180	-	-	35,180	35,180
5	Maintenance Truck	44,000	-	-	44,000	44,000
6	Vibration Analyzer	11,000	-	-	11,000	11,000
7	F250 Work Truck	85,000	-	-	85,000	85,000
8	Trailer	20,000	-	-	20,000	20,000
9	Valve Maintenance Machine	75,000	-	-	75,000	75,000
10	Mini Excavator	150,000	-	-	150,000	150,000
11	Transmission main repair kits	50,000	-	-	50,000	50,000
12	Filter media	50,000	-	-	50,000	50,000
13	Motor Protection Relay x11	80,000	-	-	80,000	80,000
14	Hydraulic Model	130,000	-	-	130,000	130,000
15	Sampling Truck	38,000	-	-	38,000	38,000
	Other Items					
	Safety Projects	100,000			100,000	100,000
	Meter Replacement Program	35,000	-	-	35,000	35,000
	Radio Read Meters	40,000			40,000	40,000
	Large Pump Replacement	150,000	-	-	150,000	150,000
	Miscellaneous Repairs	175,000	-	-	175,000	175,000
	SCDOT Unforseen	200,000	-	-	200,000	200,000
	Total		-	-		1,538,180

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JOINT WATER SYSTEM

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BOARD MEMORANDUM

April 16, 2025

Subject

FY 2025/26 Water Rate for Clemson University

Recommendation

Management recommends setting the water rate for Clemson University at $2.31 per thousand gallons for FY 2025/26.

Alternatives:

1. Set a different FY 2025/26 water rate for Clemson University.
2. Maintain existing water rate.

Fiscal impact

Under the Water Service Agreement between Clemson University and the Joint Water System, dated April 17, 2002 rates were established for service through FY 2005/06, with subsequent changes approved by the Board to ensure equitable treatment of Clemson University. For the current fiscal year, the Board adopted rate is $2.17 per thousand gallons.

Discussion

Total System budgetary cost of supply will increase 9.23% under the proposed FY 2025/26. These expected cost increases are mitigated by increased water deliveries over the past two calendar years. The increase in deliveries allows the cost of supply to be spread over a larger base. This results in full cost recovery for normal service and the fixed capital costs for the 2.0 MGD of reserve capacity.

Based on recent demand, a water rate of $2.31 per thousand gallons will collect the required revenue. The “WHOLESALE WATER RATE SCHEDULE APPLICABLE TO CLEMSON UNIVERSITY” of charges shall update Exhibit B of the 2002 Water Service Agreement is included on the following page.

WHOLESALE WATER RATE SCHEDULE APPLICABLE TO CLEMSON UNIVERSITY
(Dollars per thousand gallons)

Step (Maximum Consumption)	**FY 2024/25 (Existing)**	**FY 2025/26 (Proposed)**
2.00 mgd	$2.17	$2.31
2.05 mgd	$2.18	$2.32
2.10 mgd	$2.19	$2.33
2.15 mgd	$2.20	$2.34
2.20 mgd	$2.21	$2.35

Fiscal Year	**Capital Charge**	**O&M Charge**	**Total Cost of Supply**	**Gallons**
2022	$288,815	$414,316	$703,130	381,310,285
2023	$289,028	$429,064	$718,093	364,225,617
2024	$286,594	$491,693	$778,287	402,680,131
2025	$280,032	$545,955	$825,987	400,680,131*
2026	$280,266	$620,735	$910,562	N/A

*Estimated last 3 months of fiscal year based on prior year demand

Prepared by: Kendall Cleary, Accounting Manager
Approved by: Chris Weber, Executive Director

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COMMITTEE SUMMARY

Executive Committee
April 14, 2025
11:30 am

Discussion Summary

1. **Budget**
   Discussed the updated pro forma and supporting budget. The projected increased revenue requirement of 9.23% will likely remain the same through the first reading of the budget in April.

2. **Water Quality Standards**
   Discussed the water quality items that are being discussed at the state level during the current session. No impact on ARJWS operations at the time of discussion, but items to watch for in the future.

3. **Personnel**
   Discussed a recent new hire and expanded duties offered to a current ARJWS staff member. Discussed the options around hiring additional positions during the next fiscal year.

Prepared by: Kendall Cleary, Accounting Manager

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BOARD MEMORANDUM

April 11, 2025

Subject

Finance and Administration Report

Discussion

Billing

Meters were read on March 31, 2025, with average daily usage down 3.77% from last month and down 0.65% from last year. The average daily usage for each agency member is listed below.

AGENCY	PREV.YR SAME MONTH	LAST MONTH	CURRENT
# of Billing Days	**28**	**28**	**31**
Anderson	4,109,073	4,363,080	3,974,579
Big Creek	817,869	1,174,454	979,851
Broadway	618,563	673,607	647,789
Clemson	1,990,470	2,087,812	2,131,321
Clemson University	1,247,454	1,122,113	1,010,896
Hammond	2,035,739	1,865,891	1,906,526
Homeland Park	619,229	698,349	667,195
Pendleton	349,747	318,668	344,656
Powdersville	132,059	142,750	158,903
Sandy Springs	2,056,780	1,774,398	2,159,215
Starr-Iva	1,105,737	1,155,709	1,053,805
West Anderson	1,141,226	1,331,617	1,012,478
Williamston	461,662	519,070	530,280
Total Average Daily Usage	**16,685,606**	**17,227,517**	**16,577,492**

Finance/Budget Summary

For the month ending March 31, 2025, ARJWS is trending appropriately for revenues and expenses for the first (9) nine months of the fiscal year.

See the Profit & Loss report for additional information.

Safety Training

March
Subject: Confined Space & Permit Required Confined Space Training
Training Date: March 27, 2025
Onsite Attendance
In Person – 7
Member Agency – 6

Prepared by: Jodi Logan, Billing/Purchasing Coordinator
Approved by: Kendall Cleary, Accounting Manager

Attachments: Profit & Loss Summary – Budget, Actual, and Forecast

ANDERSON REGIONAL
JOINT WATER SYSTEM

Profit & Loss
For the Month ending March 31, 2025

	Annual Budget	YTD Budget (9 months)	YTD Actual	9+3 Year End Projection	Ideal Percentage	% of Budget	YTD Variance	
Operating Revenue								
Operations and Maintenance	7,293,900	5,470,425	5,410,542	7,234,017	75%	74%	(59,883)	
Capital Charges	5,206,053	3,904,540	3,904,540	5,206,053	75%	75%	-	
Renewal and Replacement								
Water System	1,499,582	1,124,687	1,124,289	1,499,184	75%	75%	(398)	
Pump Station	67,764	50,823	50,866	67,807	75%	75%	43	
Miscellaneous	52,653	39,490	394,864	408,027	75%	750%	355,374	**A**
Total Operating Revenue	14,119,952	10,589,964	10,885,100	14,415,088				
Operating Expenses								
Salaries and Wages	1,961,500	1,471,125	1,517,211	2,007,586	75%	77%	46,086	**B**
Payroll Taxes and Employee Benefits	769,700	577,275	581,262	773,687	75%	76%	3,987	
Operations and Maintenance								
Administrative Expenses	358,600	268,950	211,193	300,843	75%	59%	(57,757)	
Operations Expenses								
Lab Supplies/Uniforms/Safety Equipment	159,200	96,900	88,637	150,937	75%	56%	(8,263)	
Chemicals	1,190,700	889,275	849,125	1,150,550	75%	71%	(40,150)	
Sludge and Chemical Disposal	305,000	225,000	295,296	305,000	75%	97%	70,296	
Utilities and Security	1,598,900	1,199,175	1,044,688	1,444,413	75%	65%	(154,487)	
Maintenance Expenses	606,200	454,650	302,956	454,506	75%	50%	(151,694)	
Professional Fees	82,500	61,875	23,935	44,560	75%	29%	(37,940)	
Insurance	102,600	76,950	17,906	102,600	75%	17%	(59,044)	
Debt Expenses	5,406,053	3,918,365	3,941,018	5,406,053	75%	73%	22,653	
Miscellaneous Expenses	159,000	119,250	126,284	166,034	75%	79%	7,034	
Total operating expenses before depreciatio	12,699,953	9,358,790	8,999,510	12,306,769				
Net operating income	1,419,999	1,231,175	1,885,590	2,108,320				
Raw Water								
Raw Water Income	60,024	45,018	229,114	244,120				
Raw Water O&M Expenses	-	-	166,533	166,533				
Raw Water Operating Income	60,024	45,018	62,582	77,588				
Non-Budget Impacting Items								
Junior Lien Bond Payments	80,000	60,000	80,000	80,000				
Vehicle	40,000	30,000	44,100	44,100				
Raw Water Pumps	238,000	178,500	277,559	277,559				
Pump Station Upgrades and Repairs	61,000	51,250	161,428	161,428				
Clarifier #2	250,000	187,500	282,502	282,502				
Plant Repairs	-	-	92,718	92,718				
Miscellaneous Equipment	-	-	46,813	46,813				
SCIIP Grant Projects	540,000	405,000	1,105,899	1,500,000				
	1,209,000	912,250	2,091,019	2,485,120				

	Previous Month Cash Balances	Current Cash Balances	Days Cash on Hand
Operating Cash	2,683,948	2,912,813	84
Capital Project Fund	4,830,498	4,322,582	
System R&R Fund (Restricted)	957,444	1,086,165	
Pumped R&R Fund (Restricted)	560,894	450,501	
Raw Water O&M	115,838	90,418	
Raw Water R&R	311,655	315,485	
	9,460,276	9,177,963	

A: Over projected revenue primarily due to $237k in interest income, $100k in water samples, and $40k annual payment from Pioneer.
B: Over budget due to Executive Director's retirement payout.

ANDERSON REGIONAL
JOINT WATER SYSTEM

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BOARD MEMORANDUM

April 3, 2025

Subject

Operations and Maintenance Report

Discussion

As of April 3, 2025, Lake Hartwell's surface elevation was 660.04 ft, 0.04 ft. above full pool and 0.44 ft. above the guide curve. Raw water is being drawn from the top gate of the intake structure. Water temperature at the top gate is 67.1°F. Anderson Regional Water reached 100.0% of its settled water turbidity goals for the month of March. Raw water pH levels are relatively constant. Settled and finished water pH levels are normal. The maximum day for March water production was 48.5% of finished water capacity.

Operations and Maintenance Highlights

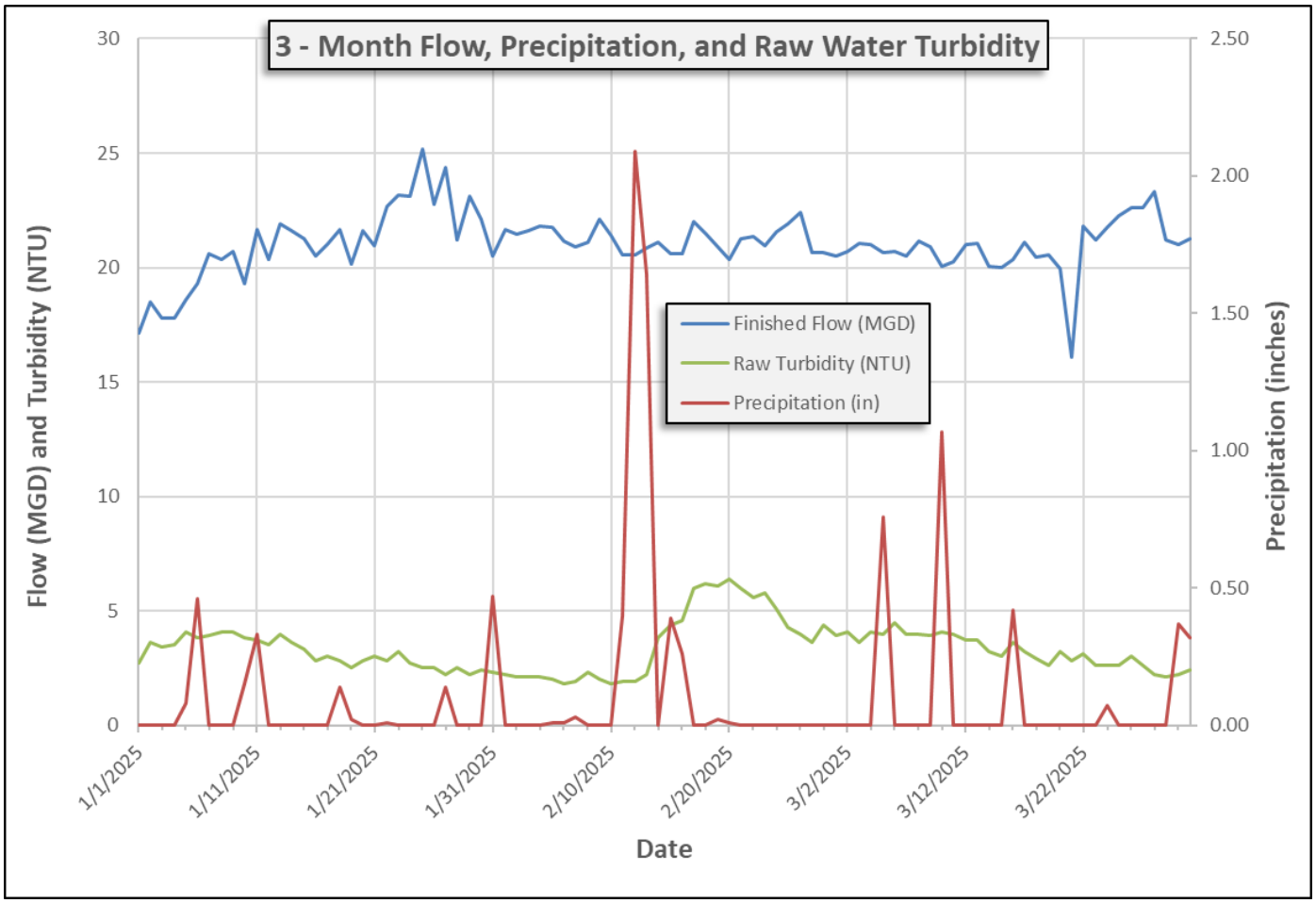
- Completed and distributed 2024 CCR
- Completed filter media assessments

In addition to water quality sampling for the Lake Hartwell Water Treatment Plant, Anderson Regional Water staff processed 263 Total Coliform distribution samples for local entities during the month of March.

Water Quality Data

	Raw	Settled	Finished
pH	7.04	7.05	7.14
Turbidity (NTU) Range	4.5 – 2.1	0.76 – 0.33	0.03 – 0.03
Turbidity (NTU) Average	3.27	0.51	0.03
Turbidity (NTU) Exceedance	-	0%	0%
Total Organic Carbon	1.60	-	0.99
Fluoride Average (ppm)	-	-	0.59
Phosphate Average (ppm)	-	-	0.47
Residual Disinfectant (ppm)	-	-	1.71
TTHM (DBP)	-	-	2.95 ppb
Methylisoborneol (MIB)	<1.0 NG/L	-	<1.0 NG/L
Geosmin	5.1 NG/L	-	<1.0 NG/L

Weather Data



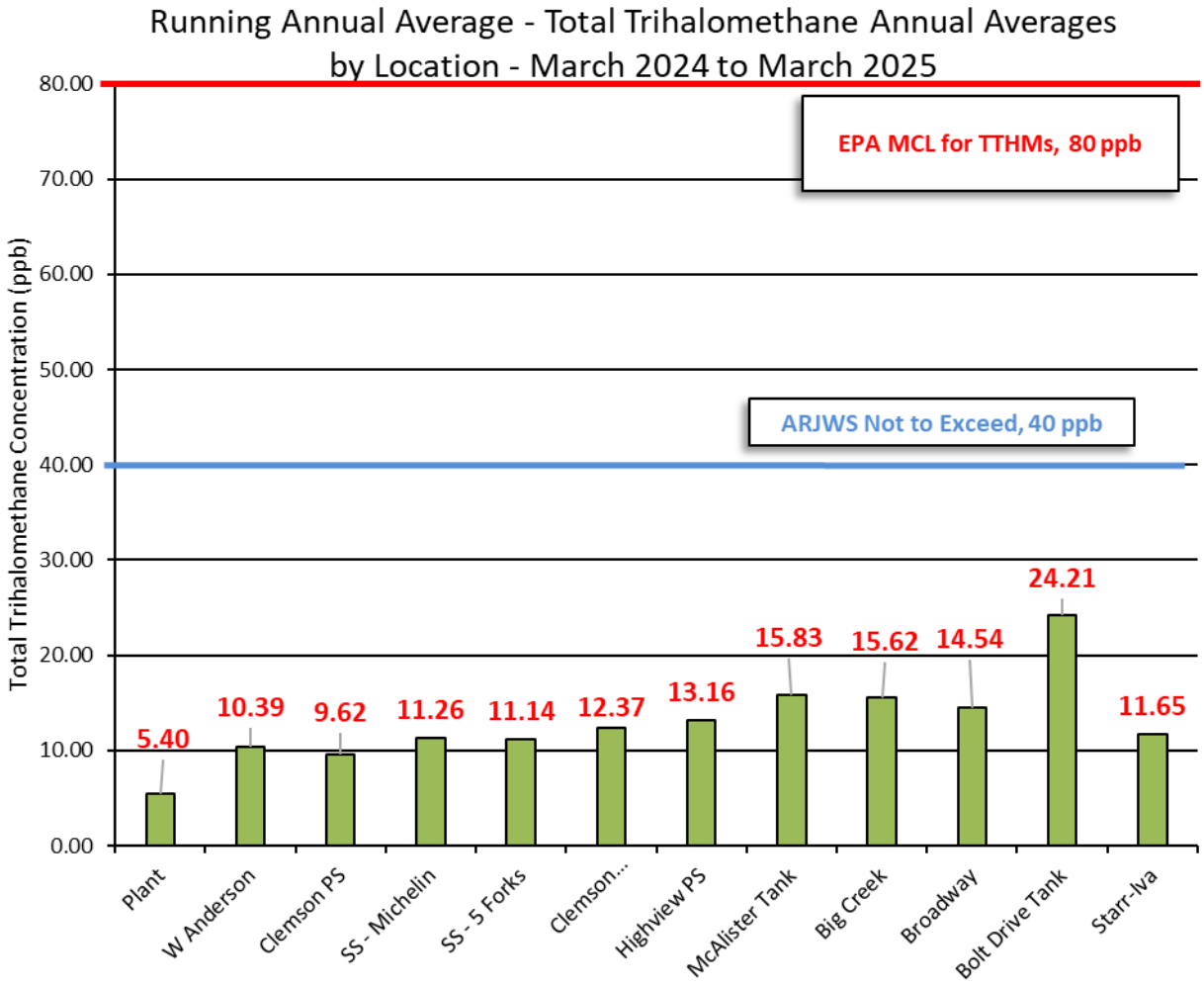
	Minimum	Maximum	Total
Rainfall	0.00 in.	1.07 in.	3.01 in.
Temperature	23.9° F	85.8° F	N/A
Humidity	15%	99%	N/A

Water Production Data

	Average	Minimum	Maximum	Total
Raw Water	20,610,000	17,628,000	24,443,000	638,895,000
Finished Water	20,883,000	16,091,000	23,307,000	647,361,000
Finished Max Capacity	43.5%	33.5%	48.5%	

Total Trihalomethane Discussion

Trihalomethanes (THMs) are one type of disinfection byproduct that can form during the treatment process and within the distribution system. THM concentrations vary primarily as a function of total organic carbon (TOC), temperature, disinfectant type, and residence time. THMs can have adverse health effects at high concentrations, and the EPA has established compliance criteria for these compounds in aggregate, termed Total Trihalomethanes (TTHMs). These criteria are established in Stage 2 of the Disinfection Byproduct Rule, which has a numerical MCL of 80 micrograms per liter (or parts per billion, ppb) based on a Locational Running Annual Average. ARJWS Operations Staff collects monthly, one-time samples, as a spot check for TTHM formation in the transmission system. The running annual averages of those results are shown in the figure below.



Monthly Power Consumption Update

For the month of March, ARJWS treated 647,361,000 gallons of water at a power cost of $94.45 per million gallons produced. The 12-month running annual average is currently $119.35.

Monthly Power Consumption Data

Month	On Peak kWh	Off Peak kWh	Total kWh	Finished Water MG	$/ MG	12 month Average
Mar – 24	191,202	812,004	1,003,207	602.3	$109.97	$115.16
Apr – 24	198,737	914,469	1,113,206	633.6	$112.68	$116.11
May – 24	198,751	960,472	1,159,223	664.9	$114.75	$116.53
June – 24	243,835	1,065,598	1,309,434	756.7	$126.63	$118.29
July – 24	246,538	1,270,783	1,517,321	803.5	$141.86	$119.90
Aug – 24	258,930	1,214,981	1,473,911	845.3	$134.71	$121.06
Sep – 24	297,508	1,201,656	1,499,164	750.9	$165.25	$124.23
Oct – 24	203,811	1,080,390	1,284,201	737.2	$125.65	$123.65
Nov – 24	214,384	1,027,554	1,241,939	641.3	$112.96	$123.76
Dec – 24	201,328	891,992	1,093,320	603.8	$104.59	$123.48
Jan – 25	186,627	908,818	1,095,445	650.9	$96.35	$121.97
Feb – 25	211,048	966,491	1,177,540	594.7	$111.68	$121.62
Mar – 25	186,691	847,865	1,034,556	647.4	$94.45	$119.35

Water Quality Strategic Planning

For the month of March, the following Water Quality Strategic Planning goals were met:

- Finished water pH was held within the designated 7.1-7.3 range.
- Finished water chlorine residual was maintained above a 1.2 ppm leaving the facility.

Prepared by: Brandon Good, Operations Superintendent
Reviewed by: Chris Weber, Executive Director