ANDERSON REGIONAL
JOINT WATER SYSTEM

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

BOARD AGENDA

Board of Commissioners
November 2024

I. Minutes October 23, 2024

II. Informational Reports

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

Future planned Board meeting dates are:

- **December 11, 2024**
- February 26, 2025
- April 23, 2025

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www.arjwater.com

MINUTES OF THE ANDERSON REGIONAL JOINT WATER SYSTEM October 23, 2024

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 Springs; Scott Banks, City of Anderson; John Lollis, West Anderson; Robin Gore, Powdersville Water; Mitch Ellenburg, Belton-Honea Path Water; Kevin Simpson, Broadway Water

OTHERS PRESENT: Jeff Caldwell, ARJWS; Kendall Cleary, ARJWS; Chris Weber, ARJWS; Jodi Logan, ARJWS; Lisa Evatt, ARJWS; Justin Clemones, ARJWS; Billy Peele, Starr-Iva; Billy Bolger, Clemson University; Brandon Good, ARJWS; David Phillips, Greene Finney Cauley, LLP; Gary Pope, Pope Flynn Group

Chairman Patrick Jackson called the Board meeting of Anderson Regional Joint Water System to order at 12:01 p.m. on October 23, 2024.

Chairman Patrick Jackson asked for any Commissioner comments. Mr. Ellenburg announced that the SCLLR will not be changing the passing scores for the Water Treatment exams. Mr. Jackson thanked the ARJWS staff for the handling of Hurricane Helene. No member agency lost water during the emergency.

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

Mr. Lollis made a motion to approve the August 28, 2024, minutes, and Mr. Banks seconded. Motion carried.

I. Consent Calendar (Old Business)

1. None

II. Items Requiring Immediate Action

1. Receive and Accept Annual Comprehensive Financial Report for years ending June 30, 2024 & 2023.

Mrs. Cleary introduced Mr. David Phillips, Independent Auditor of Greene Finney Cauley, LLP. Mr. Phillips was responsible for auditing the financial statements of ARJWS for the FYE June 30, 2024. Professional standards require that the independent auditors communicate with the Board any informative information and findings related to the audit. Mr. Phillips presented the Board of Commissioners with a Financial Audit Presentation and Management Letter. Mr. Phillips informed the Board of Commissioners that there were no findings, no disagreements with management, and nothing to disclose. A copy of the financial reports, presentation, and management letter is attached. Mr. Phillips stated that a single audit will be conducted next year due to the SCIIP Grant. Mr. Jackson asked for comments. There was none. Mrs. Durham made a motion to accept and file the FYE 2024 Annual Comprehensive Financial Report and audit results. Mr. Simpson seconded that motion. Motion carried.

2. Authorize the award of a construction contract for the Lake Hartwell Treatment Plant OSG Improvements project.

ARJWS received three bids that were publicly opened for the construction of the OSG project. State Utility Contractors was the apparent low bidder. GMC determined the bids were responsive and recommended awarding the project to State Utility. Mr. Jackson asked for comments. There was none. Mr. Banks made a motion to authorize the Deputy Director to execute a contract with State Utility Contractors to construct the Lake Hartwell OSG project subject to RIA comments. Mr. Ellenburg seconded that motion. Motion carried.

3. A SERIES RESOLUTION OF ANDERSON REGIONAL JOINT WATER SYSTEM APPROVING THE FINANCING OF A PORTION OF THE CLEMSON BOOSTER STATION FIVE MILLION GALLON GROUND STORAGE TANK ADDITION – ENGINEERING THROUGH THE BORROWING OF NOT EXCEEDING EIGHT HUNDRED TWENTY-THREE THOUSAND DOLLARS ($823,000), PLUS CAPITALIZED INTEREST, IF ANY, FROM THE STATE DRINKING WATER REVOLVING LOAN FUND (LOAN NUMBER X3-107-24-0420011-07), BY AGREEMENT WITH THE SOUTH CAROLINA WATER QUALITY REVOLVING FUND AUTHORITY, PURSUANT TO TITLE 48, CHAPTER 5, CODE OF LAWS OF SOUTH CAROLINA 1976, AS AMENDED; PROVIDING FOR THE AGREEMENT TO MAKE AND TO ACCEPT A LOAN, THE EXECUTION AND DELIVERY OF A LOAN AGREEMENT BETWEEN ANDERSON REGIONAL JOINT WATER SYSTEM, SOUTH CAROLINA AND THE SOUTH CAROLINA WATER QUALITY REVOLVING FUND AUTHORITY, THE EXECUTION AND DELIVERY OF A PROMISSORY NOTE FROM ANDERSON REGIONAL JOINT WATER SYSTEM, SOUTH CAROLINA TO THE SOUTH CAROLINA WATER QUALITY REVOLVING FUND AUTHORITY; AND OTHER MATTERS RELATING THERETO.

Mrs. Cleary introduced Mr. Gary Pope to the Board. Mr. Pope presented the resolution approving the financing of a portion of the Clemson Booster Station Five Million Gallon Ground Storage Tank Addition. This resolution approves the receipt of a loan from the South Carolina Water Quality Revolving Fund and authorizes the delivery of the required promissory note. The loan has a principal balance of $823,000 that is to be financed at 1.8% per annum over 14 years. Mr. Jackson asked for comments. There were none. Mr. McGill made a motion to approve the resolution and authorize the Chairman to sign the resolution on behalf of the Joint Water System approving the financing of the Clemson Booster Station Five Million Gallon Ground Storage Tank through the borrowing from the SC Water Quality Revolving Fund. Mr. Lollis seconded. The motion carried.

III. Discussion (New Business)

4. Director's Report (Oral)

Mr. Caldwell discussed that the staff is looking into ways to memorialize and honor Tristan. A safety committee has been formed and recently attended a Safety Boot Camp provided free of charge by Milliken. They have visited several companies in the community to gather ideas on safety. Life and Safety Consultants have been retained by ARJWS to help with writing policies and conducting training. Every month a policy is written followed by training on that topic. Kidde-Fenwal (Defendant #5) files for bankruptcy. Funds could be dispersed by the end of the year or early next year. Upper Savannah River Basin is in the planning process for future River Basin Committees. This will include stakeholders, funding, financial impact, and developing a guide for growth.

IV. Informational Reports

1. Finance and Administration Report
2. Operations and Maintenance Report
3. Executive Committee Meeting Summary (handed out)

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. Personnel

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 PERSONNEL PERFORMANCE.

A motion was made by Mr. McGill to enter a closed executive session at 12:47 p.m. and seconded by Mr. Banks.

As stated by Chairman Patrick Jackson:
AT 1:16 P.M. THE BOARD CONCLUDED ITS CLOSED EXECUTIVE SESSION AND PER THE SC FREEDOM ACT, NO ACTIONS OR VOTES WERE TAKEN.

VI. Adjournment

With no further business, Mr. Lollis made a motion to adjourn at 1:18 p.m. and Mr. Ruff seconded. Motion carried.

Respectfully submitted,

Benjie McGill

Secretary/Treasurer

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BOARD MEMORANDUM

November 13, 2024

Subject

Finance and Administration Report

Discussion

Billing

Meters were read on October 31, 2024, with average daily usage down 5.06% from last month and up 11.51% 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	**32**	**32**	**31**
Anderson	4,446,599	4,607,964	4,587,722
Big Creek	814,238	1,024,154	1,012,080
Broadway	838,917	785,352	775,684
Clemson	2,102,798	2,829,775	2,392,328
Clemson University	1,152,592	1,412,291	1,184,618
Hammond	1,927,831	2,497,212	2,291,163
Homeland Park	549,132	631,791	690,381
Pendleton	328,481	388,947	407,512
Powdersville	158,416	303,914	231,651
Sandy Springs	2,140,050	2,873,925	2,693,474
Starr-Iva	1,115,404	1,158,663	1,125,738
West Anderson	1,380,211	1,468,636	1,545,935
Williamston	484,785	500,762	509,116
Total Average Daily Usage	**17,439,454**	**20,483,386**	**19,447,402**

Finance/Budget Summary

For the month ending October 31, 2024, ARJWS is trending appropriately for revenues and expenses for the first (4) four months of the fiscal year.

See the Profit & Loss report for additional information.

Safety Training

October
Subject: **Emergency Procedures**
Training Date: **October 7, 2024**
Onsite Attendance
ARJWS Staff – 10

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 October 31, 2024

	Annual Budget	YTD Budget (4 months)	YTD Actual	4+8 Year End Projection	Ideal Percentage	% of Budget	YTD Variance	
Operating Revenue								
Operations and Maintenance	7,293,900	2,431,300	2,489,329	7,351,929	33%	34%	58,029	
Capital Charges	5,206,053	1,735,351	1,735,351	5,206,053	33%	33%	-	
Renewal and Replacement								
Water System	1,499,582	499,861	499,684	1,499,405	33%	33%	(177)	
Pump Station	67,764	22,588	22,607	67,783	33%	33%	19	
Miscellaneous	52,653	17,551	190,440	225,542	33%	362%	172,889	A
Total Operating Revenue	14,119,952	4,706,651	4,937,411	14,350,713				
Operating Expenses								
Salaries and Wages	1,901,000	633,667	626,170	1,893,504	33%	33%	(7,496)	
Payroll Taxes and Employee Benefits	830,200	276,733	285,917	839,384	33%	34%	9,184	
Operations and Maintenance								
Administrative Expenses	358,600	119,533	51,260	290,327	33%	14%	(68,273)	
Operations Expenses								
Lab Supplies/Uniforms/Safety Equipment	129,200	43,067	30,436	116,570	33%	24%	(12,630)	
Chemicals	1,185,700	395,233	399,370	1,189,836	33%	34%	4,136	
Sludge and Chemical Disposal	300,000	100,000	-	300,000	33%	0%	(100,000)	
Utilities and Security	1,598,900	532,967	605,083	1,671,016	33%	38%	72,116	
Maintenance Expenses	606,200	202,067	111,530	515,663	33%	18%	(90,537)	
Professional Fees	82,500	27,500	20,695	75,695	33%	25%	(6,805)	
Insurance	102,600	34,200	9,854	102,600	33%	10%	(24,346)	
Debt Expenses	5,406,053	1,741,495	1,746,158	5,406,053	33%	32%	4,663	
Source Water Protection	50,000	16,667	12,433	45,766	33%	25%	(4,234)	
Miscellaneous Expenses	109,000	36,333	30,225	102,892	33%	28%	(6,108)	
Total operating expenses before depreciatio	12,659,953	4,159,462	3,929,132	12,549,306				
Net operating income	1,459,999	547,189	1,008,280	1,801,407				
Raw Water								
Raw Water Income	60,024	20,008	80,113	120,129				
Raw Water O&M Expenses	-	-	92,664	92,664				
Raw Water Operating Income	60,024	20,008	(12,551)	27,465				
Non-Budget Impacting Items								
Junior Lien Bond Payments	80,000	26,667	80,000	80,000				
Vehicle	40,000	13,333	44,100	44,100				
Raw Water Pump #3 Repair	177,000	177,000	183,865	183,865				B
Raw Water Pump #5 Repair	61,000	20,333	2,300	61,000				
SCIIP Grant Projects	540,000	180,000	773,634	773,634				
	898,000	417,333	1,083,899	1,142,599				

	Previous Month Cash Balances	Current Cash Balances	Days Cash on Hand
Operating Cash	2,835,364	2,960,615	85
Capital Project Fund	5,147,957	5,011,329	
System R&R Fund (Restricted)	321,250	447,624	
Pumped R&R Fund (Restricted)	536,950	544,893	
Raw Water O&M	73,862	96,880	
Raw Water R&R	291,651	295,889	
	9,207,035	9,357,231	

A: Over projected revenue due to $87k in interest income and $40k annual payment from Pioneer.
B: Raw Water Pump #3 repair is a rollover project from FY 2024.

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BOARD MEMORANDUM

November 12, 2024

Subject

Operations and Maintenance Report

Discussion

As of November 12, 2024, Lake Hartwell's surface elevation was 657.38 ft, 2.62 ft. below full pool and 0.98 ft. below the guide curve. Raw water is being drawn from the top gate of the intake structure. Water temperature at the top gate is 70.5°F. Anderson Regional Water reached 78% of its settled water turbidity goals for the month of October. Raw water pH levels are relatively constant. Settled and finished water pH levels are normal. The maximum day for October water production was 52.0% of finished water capacity.

Operations and Maintenance Highlights

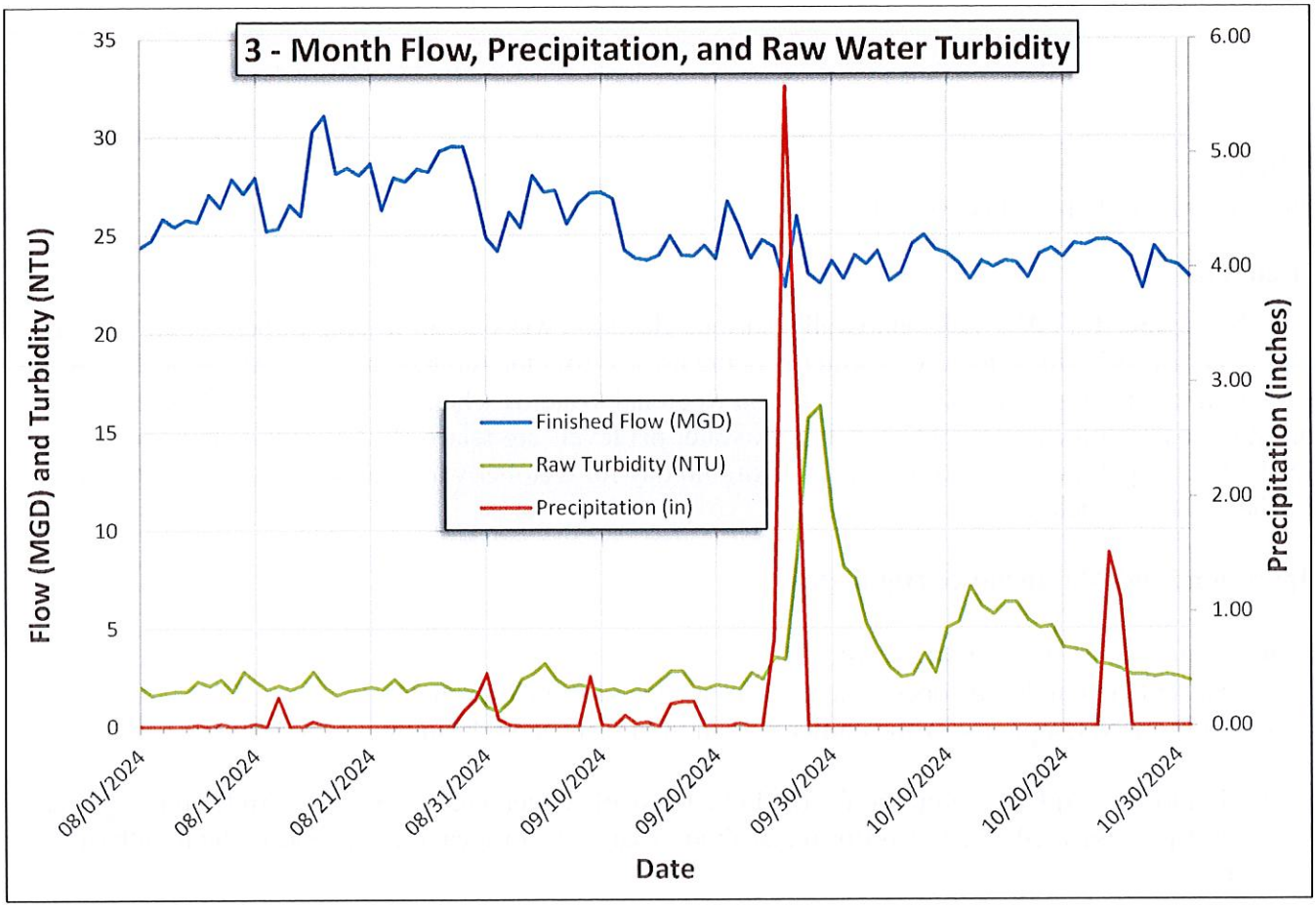
- Replaced 30" filter waste valve
- Started lagoon dredge operation to remove process solids/residuals
- Completed temporary ozone chiller operation to manage high summer temperatures

In addition to water quality sampling for the Lake Hartwell Water Treatment Plant, Anderson Regional Water staff processed 247 Total Coliform distribution samples for local entities during the month of October.

Water Quality Data

	Raw	Settled	Finished
pH	7.02	6.66	7.17
Turbidity (NTU) Range	8.1 – 2.3	1.3 – 0.47	0.03 – 0.03
Turbidity (NTU) Average	4.28	0.79	0.03
Turbidity (NTU) Exceedance	-	22.6%	0%
Total Organic Carbon	1.66	-	1.21
Fluoride Average (ppm)	-	-	0.00
Phosphate Average (ppm)	-	-	0.44
Residual Disinfectant (ppm)	-	-	1.78
TTHM (DBP)	-	-	6.10 ppb
Methylisoborneol (MIB)	28.1 NG/L	-	<1.0 NG/L
Geosmin	6.6 NG/L	-	<1.0 NG/L

Weather Data



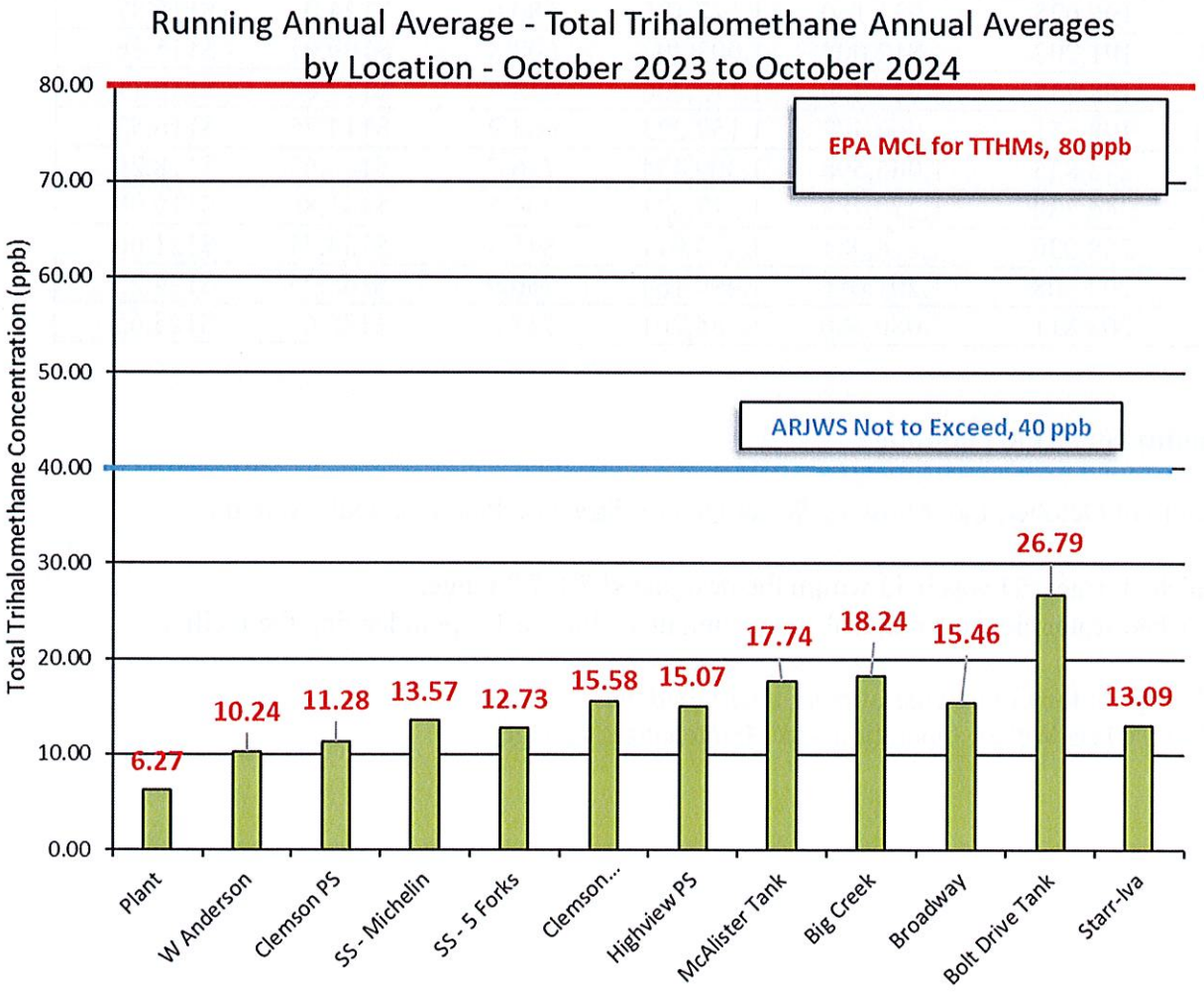
	Minimum	Maximum	Total
Rainfall	0.00 in.	1.51 in.	2.63 in.
Temperature	32.5° F	90.3° F	N/A
Humidity	19%	99%	N/A

Water Production Data

	Average	Minimum	Maximum	Total
Raw Water	23,299,000	18,571,000	27,530,000	722,271,000
Finished Water	23,780,000	22,272,000	24,982,000	737,172,000
Finished Max Capacity	49.5%	46.4%	52.0%	

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 October, ARJWS treated 737,172,000 gallons of water at a power cost of $125.65 per million gallons produced. The 12-month running annual average is currently $123.65.

Monthly Power Consumption Data

Month	On Peak kWh	Off Peak kWh	Total kWh	Finished Water MG	$/ MG	12 month Average
Oct – 23	215,805	1,026,506	1,242,311	672.3	$111.46	$118.88
Nov – 23	193,321	980,965	1,174,286	651.4	$108.25	$118.06
Dec – 23	199,553	832,346	1,031,899	604.9	$116.05	$118.43
Jan -24	200,971	833,145	1,034,117	631.6	$116.13	$117.05
Feb-24	196,025	931,160	1,127,185	580.6	$124.03	$115.87
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

Water Quality Strategic Planning

For the month of October, 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, Operation and Maintenance Manager