



# Great Lakes Water Authority

Key Performance Indicators and  
Effective Utility Management (EUM) Metrics

February 8, 2023

# Ten Attributes of Effectively Managed Water Sector Utilities (EUM)



Attribute	Attribute Components
<b>Employee and Leadership Development</b>	Recruits and retains a workforce that is competent, motivated, adaptive, and safety-focused. Establishes a participatory, collaborative organization dedicated to continual learning, improvement, and innovation. Ensures employee institutional knowledge is retained, transferred, and improved upon over time. Provides a focus on and emphasizes opportunities for professional and leadership development, taking into account the differing needs and expectations of a multi-generational workforce and for resource recovery facilities. Establishes an integrated and well-coordinated senior leadership team.
<b>Operational Optimization</b>	Ensures ongoing, timely, cost-effective, reliable, and sustainable performance improvements in all facets of its operations in service to public health and environmental protection. Makes effective use of data from automated and smart systems, and learns from performance monitoring. Minimizes resource use, loss, and impacts from day-to-day operations, and reduces all forms of waste. Maintains awareness of information and operational technology developments to anticipate and support timely adoption of improvements.
<b>Financial Viability</b>	Understands the full life-cycle cost of utility operations and value of water resources. Establishes and maintains an effective balance between long-term debt, asset values, operations and maintenance expenditures, and operating revenues. Establishes predictable rates—consistent with community expectations and acceptability—adequate to recover costs, provide for reserves, maintain support from bond rating agencies, plan and invest for future needs, and taking into account the needs of disadvantaged households. Implements sound strategies for collecting customer payments. Understands the opportunities available to diversify revenues and raise capital through adoption of new business models.
<b>Infrastructure Strategy and Performance</b>	Understands the condition of and costs associated with critical infrastructure assets. Plans infrastructure investments consistent with anticipated growth, system reliability goals, and relevant community priorities, building in flexibility for evolution in technology and materials, and uncertainty in the overall future operating context (e.g., climate impacts, customer base). Maintains and enhances the condition of all assets over the long-term at the lowest possible life-cycle cost and acceptable risk consistent with customer, community, and regulator-supported service levels. Assures asset repair, rehabilitation, and replacement efforts are coordinated within the community to minimize disruptions and other negative consequences.
<b>Enterprise Resiliency</b>	Ensures utility leadership and staff work together internally, and with external partners, to anticipate, respond to, and avoid problems. Proactively identifies, assesses, establishes tolerance levels for, and effectively manages a full range of business risks (including interdependencies with other services and utilities, legal, regulatory, financial, environmental, safety, physical and cyber security, knowledge loss, and natural disaster-related) in a proactive way consistent with industry trends and system reliability goals.

# Ten Attributes of Effectively Managed Water Sector Utilities (EUM)

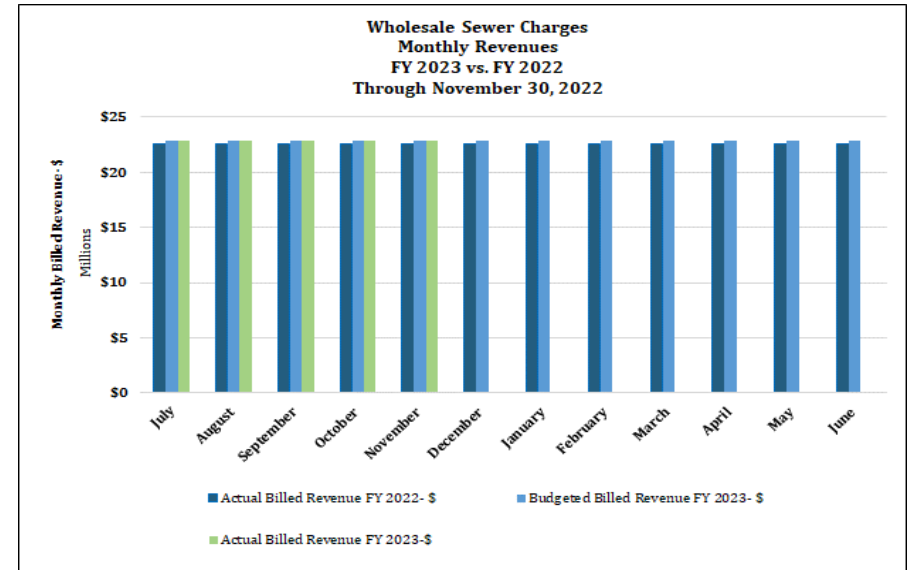
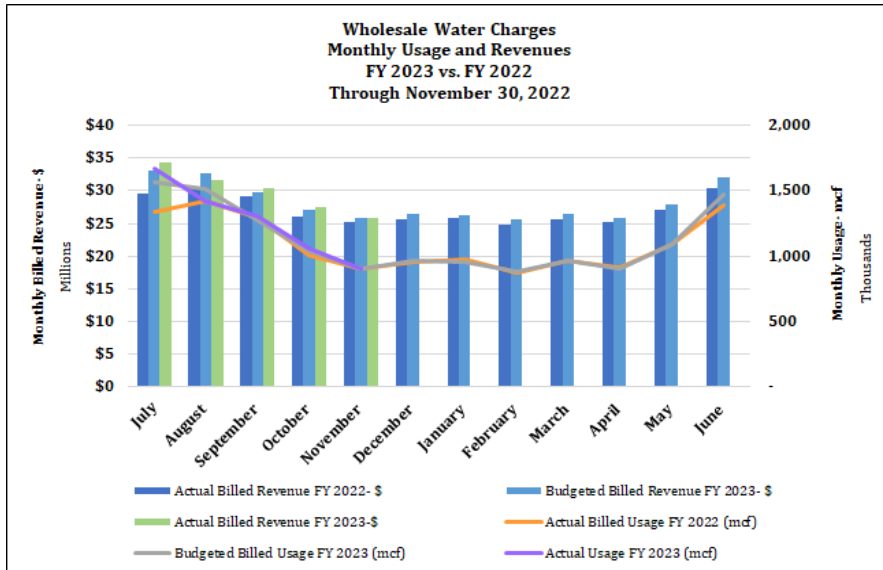


Attribute	Attribute Components
<b>Product Quality</b>	Produces “fit for purpose” water that meets or exceeds full compliance with regulatory and reliability requirements and consistent with customer, public health, ecological, and economic needs. Products include treated drinking water, treated wastewater effluent, recycled water, storm water discharge, and recovered resources.
<b>Customer Satisfaction</b>	Provides reliable, responsive, and affordable services in line with explicit, customer-derived service levels. Utilizes a mix of evolving communication technologies to understand and respond to customer needs and expectations, including receiving timely customer feedback and communicating during emergencies. Provides tailored customer service and outreach to traditional residential, commercial, and industrial customers, and understands and exercises as appropriate the opportunities presented by emergent customer groups (e.g., high strength waste producers, power companies).
<b>Community Sustainability</b>	Takes an active leadership role in promoting and organizing community sustainability improvements through collaboration with local partners (e.g., transportation departments, electrical utilities, planning departments, economic development organizations, watershed and source water protection groups). Manages operations, infrastructure, and investments to support the economic, environmental, and social health of its community. Integrates water resource management with other critical community infrastructure, social, and economic development planning to support community-wide resilience, sustainability, and livability to enhance overall water resource sustainability.
<b>Water Resource Sustainability</b>	Ensures the availability and sustainable management of water for its community and watershed, including water resource recovery. Understands its role in the complete water cycle, understands fit for purpose water reuse options, and integrates utility objectives and activities with other watershed managers and partners. Understands and plans for the potential for water resource variability (e.g., extreme events, such as drought and flooding), and utilizes as appropriate a full range of watershed investment and engagement strategies (e.g., Integrated Planning). Engages in long-term integrated water resource management, and ensures that current and future customer, community, and ecological water-related needs are met.
<b>Stakeholder Understanding and Support</b>	Engenders understanding and support from stakeholders (anyone who can affect or be affected by the utility), including customers, oversight bodies, community and watershed interests, and regulatory bodies for service levels, rate structures, operating budgets, capital improvement programs, and risk management decisions. Actively promotes an appreciation of the true value of water and water services, and water’s role in the social, economic, public, and environmental health of the community. Involves stakeholders in the decisions that will affect them, understands what it takes to operate as a “good neighbor,” and positions the utility as a critical asset to the community.

A dynamic splash of water in shades of blue, with bubbles and ripples, set against a light blue background. The water is captured in motion, creating a sense of freshness and movement.

# EUM Attribute: Financial Viability

# Financial Viability – Reliability of Wholesale Water and Sewer Revenue Projections



Wholesale Water System billed revenues for FY 2023 are at 100.8% of original, budgeted charge revenue and actual usage at 101.1% of original, budgeted usage through November 2022. Billed revenue for FY 2023 was 6.4% higher compared to the same period in FY 2022.

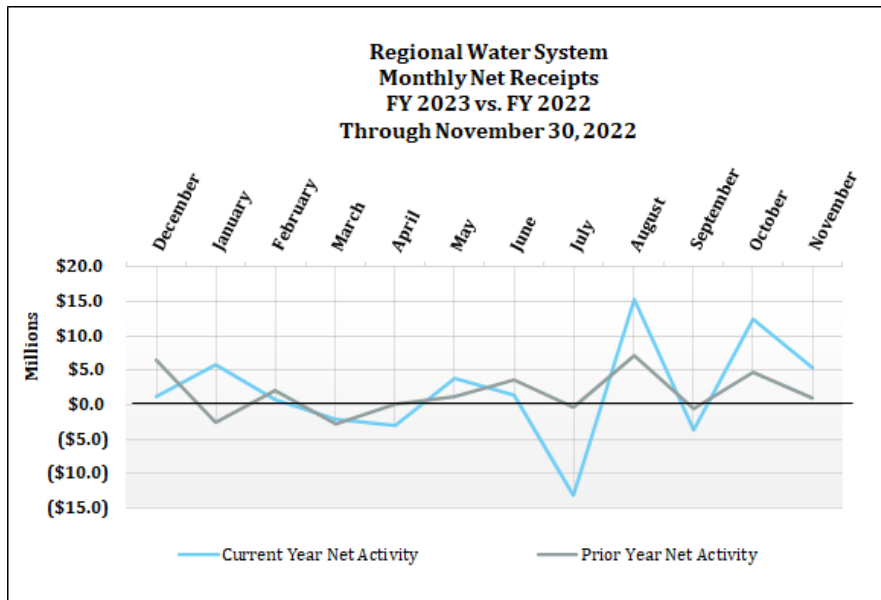
Wholesale Sewer System billed revenues for FY 2023 are at 100% of original budgeted charge revenue (based on the full fixed monthly charge) through November 2022. Billed revenue for FY 2023 was 1.2% higher compared to the same period in FY 2022.

**CEO Priority KPI Performance Criteria:** Water system wholesale monthly billed revenues will meet or exceed budgeted amount. (Green = 100%; Yellow= 90-99%; Red = <90%)

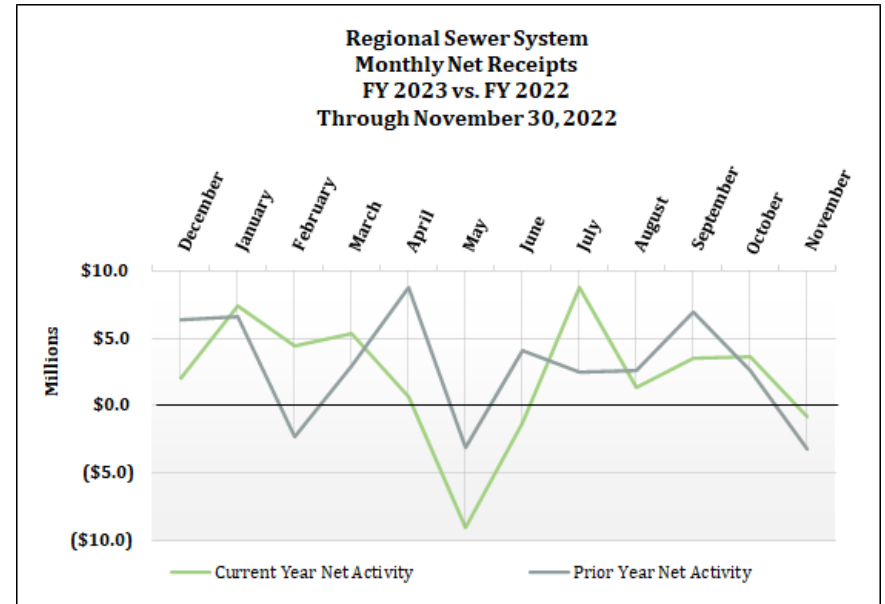
**Commentary:** This KPI is Green. Billed revenue for the month and year-to-date, exceed 100%.

# Financial Viability – GLWA Regional System Net Receipts

*For the purposes of this reporting, Net Receipts equals cash collections less Master Bond Ordinance (MBO) disbursements. The black line in the charts below at zero highlights the minimum goal for net receipts. While this measure may vary monthly based on billing and collection cycles, cumulative positive net receipts supports long-term financial sustainability.*

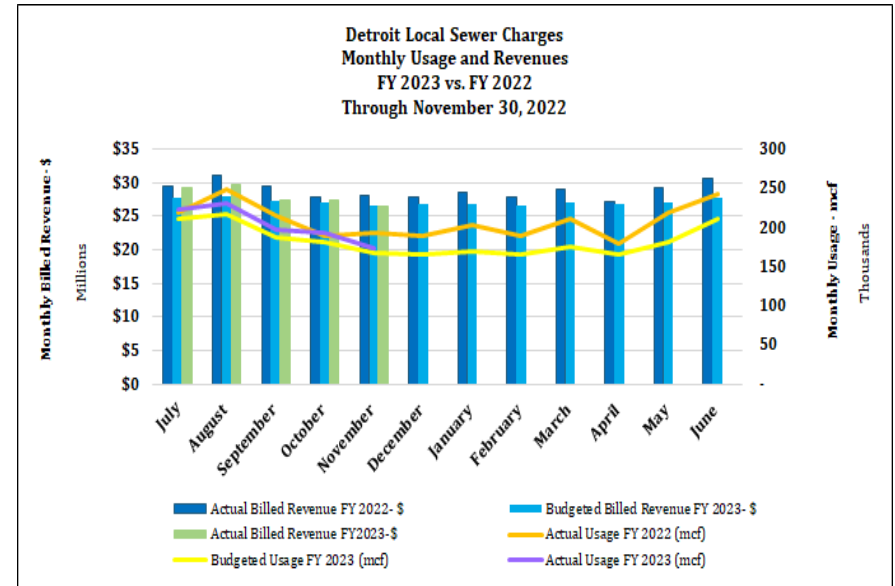
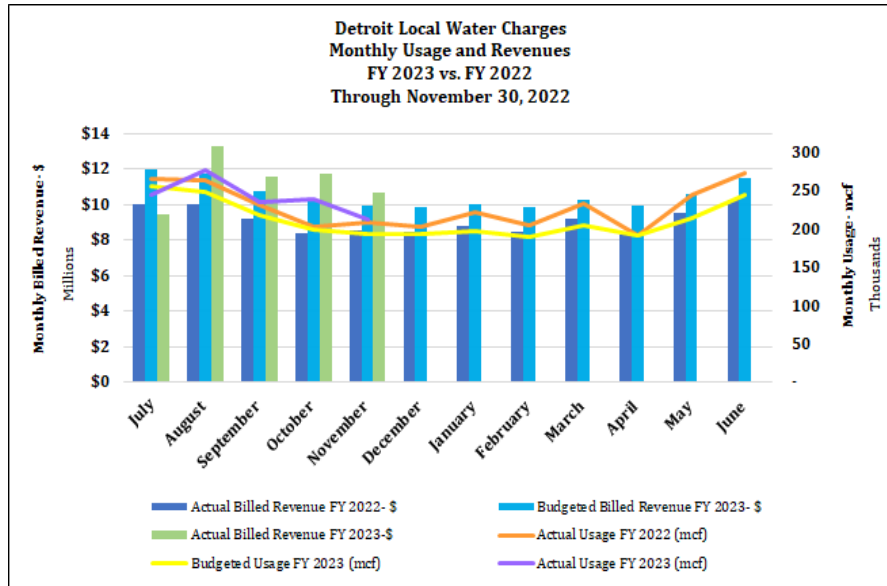


Regional Water System net receipts for the month of November 2022 exceeded MBO disbursements by \$5.4 million. This equates to a 12% surplus of net receipts over required disbursements or \$16.6 million year-to-date.



Regional Sewer System net receipts for the month of November 2022 fell short of required MBO disbursements by \$900 thousand. Despite the current month shortfall, this still equates to a 9% surplus of net receipts over required disbursements or \$16.5 million year-to-date.

# Financial Viability – Reliability of Detroit Local Water and Sewer Revenue Projections



Detroit Local Water System billed revenues for FY 2023 are at 104.1% of budget and actual usage at 108.1% of budget through November 2022. Billed revenue for FY 2023 is 23.0% higher compared to the same period in FY 2022.

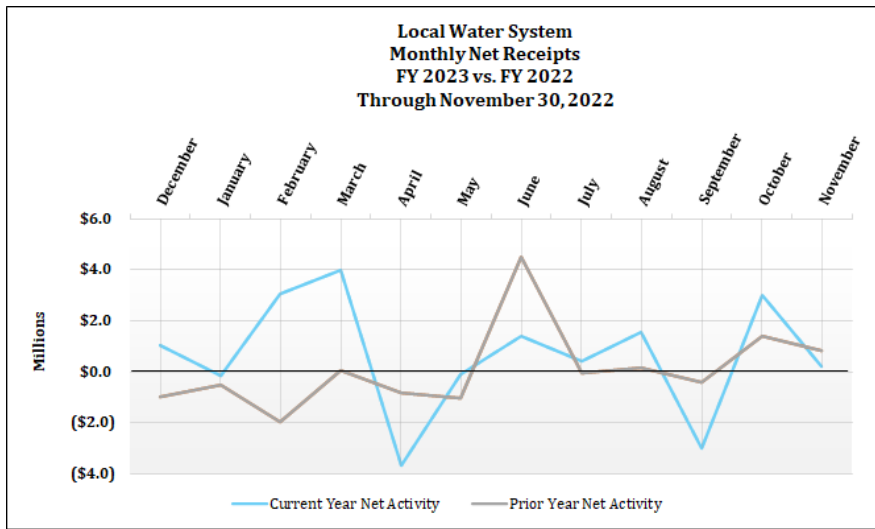
Detroit Local Sewer System billed revenues for FY 2023 are at 102.5% of budget and actual usage at 105.4% of original budget through November 2022. Billed revenue for FY 2023 is 3.9% lower compared to the same period in FY 2022.

# Financial Viability – DWSD Local System Net Receipts

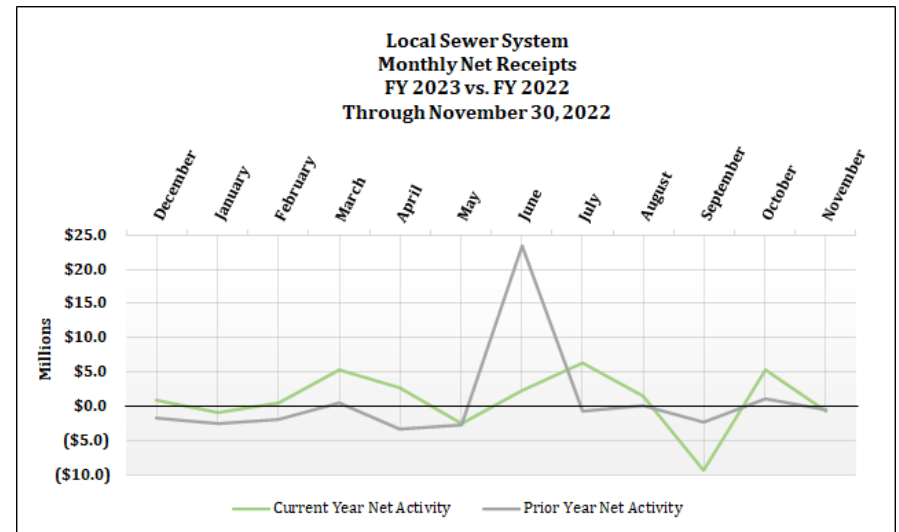
*For the purposes of this reporting, Net Receipts equals cash collections less Master Bond Ordinance (MBO) disbursements.*

*The black line in the charts below at zero highlights the minimum goal for net receipts.*

*While this measure may vary monthly based on billing and collection cycles, Cumulative positive net receipts supports long-term financial sustainability.*



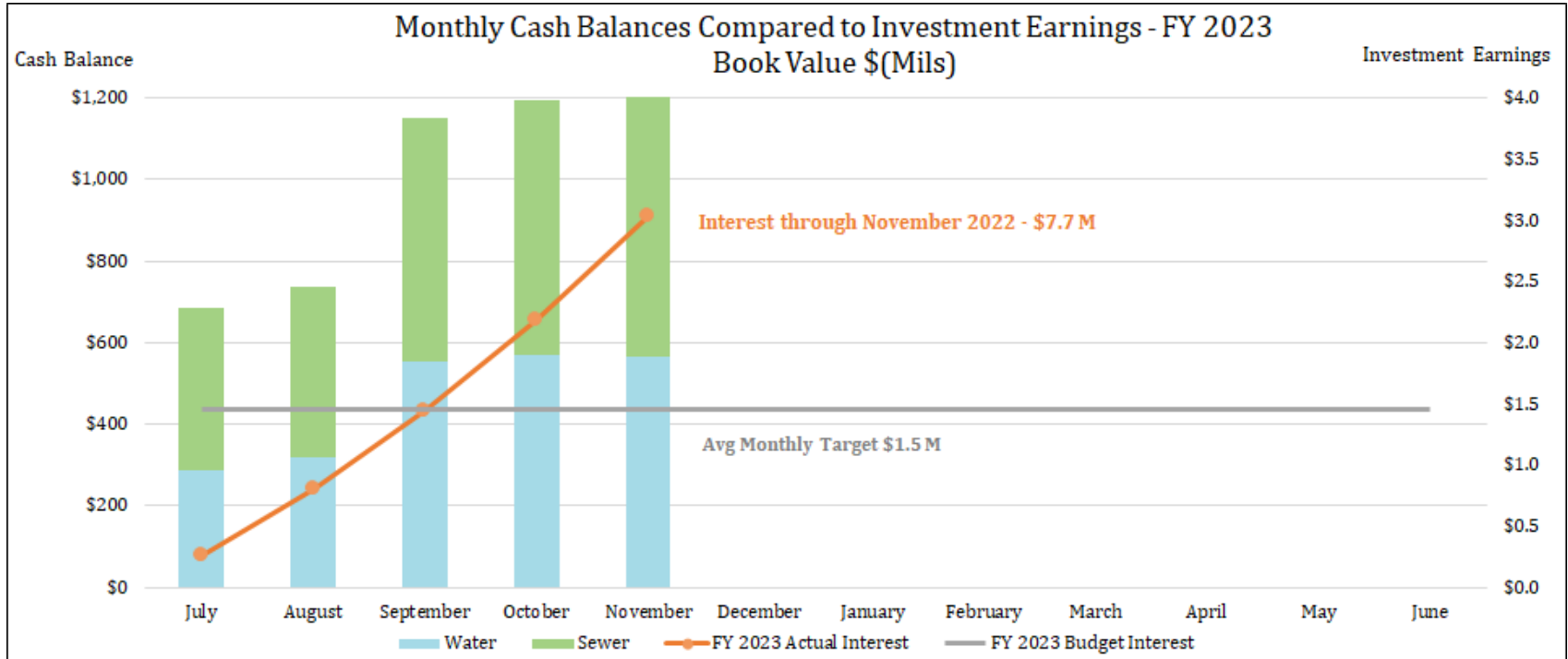
Local Water System net receipts for the month of November 2022 exceeded MBO disbursements by \$200 thousand. This equates to a 5% surplus of net receipts over required disbursements or \$2.2 million year-to-date.



Local Sewer System net receipts for the month of November 2022 fell short of required MBO disbursements by \$800 thousand. Despite the current period shortfall, this still equates to a 3% surplus of net receipts over required disbursements or \$3.1 million year-to-date.



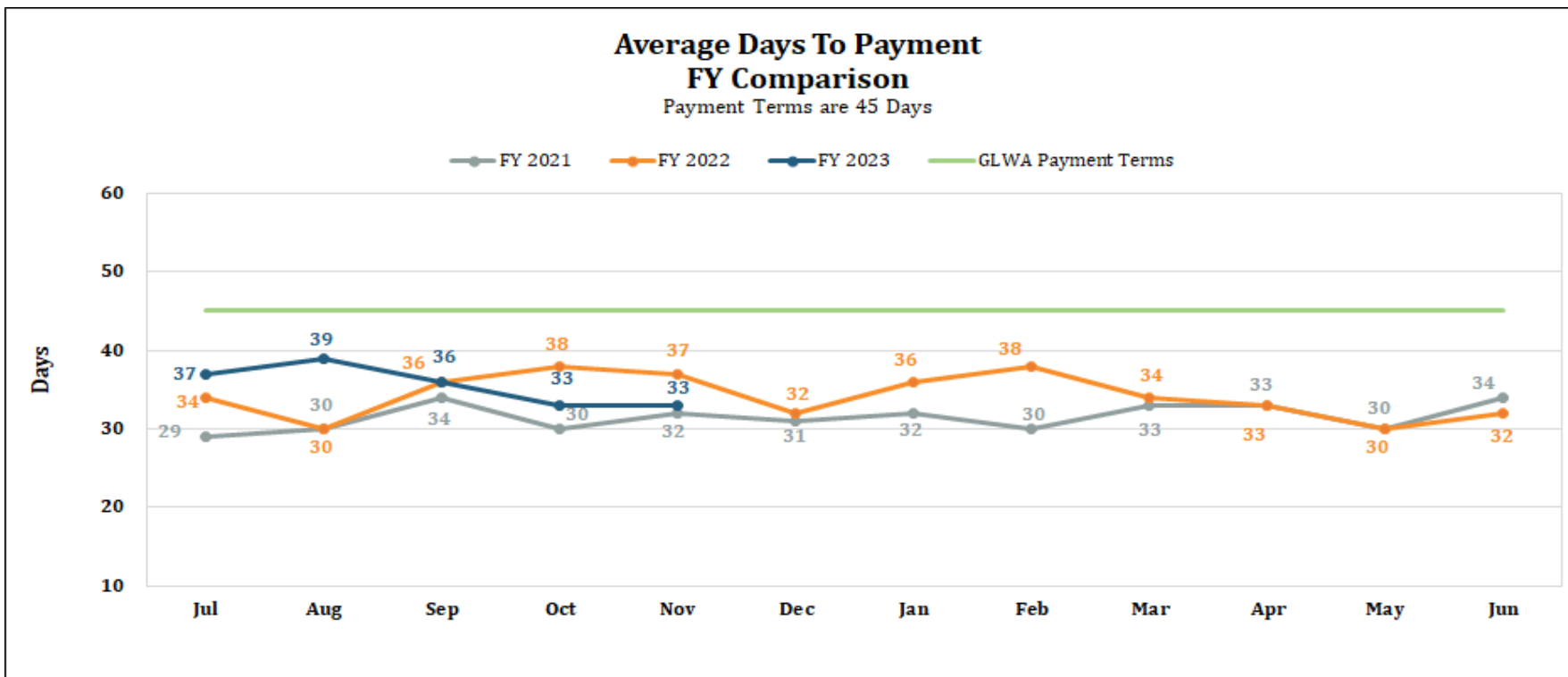
# Financial Viability – Optimizing Cash Balances



- Cash & investment balances for the water & sewer funds change each month based on Master Bond Ordinance funding, operational requirements, capital funding, and debt payments.
- Investment earnings fluctuate monthly with the cash & investment balances as well as market conditions and investment strategy.
- For FY 2023, a significant increase in interest earnings is expected due to the current interest rate environment. The average monthly target of \$1.5 million is based on an annual forecast of \$17.4 million for interest earnings.
- For the month of November 2022, GLWA had investment earnings of \$3.0 million and cumulative FY 2023 earnings of \$7.7 million.
- GLWA continues to refine cash flows and work with its investment advisor to identify strategies to maximize future investment earnings while meeting the objectives of safety and liquidity.

# Financial Viability – Days to Pay an Invoice

The goal is a twelve-month average of < 30 days to support vendor relations and expand the early payment discount program. The number of days is calculated as the days between invoice and payment date.



Timely vendor payments support:


- Positive supplier relations;
- Leveraging early payment discounts; and
- Effective cashflow management.

Twelve-month average days to payment		
FY 2021	FY 2022	FY 2023 (rolling calendar)
32	34	34

The average days to pay is higher than the target of less than 30 days due to challenges with a small number of vendors. The Accounts Payable team continues to work in conjunction with the Procurement team to assist in improving vendor management and compliance.

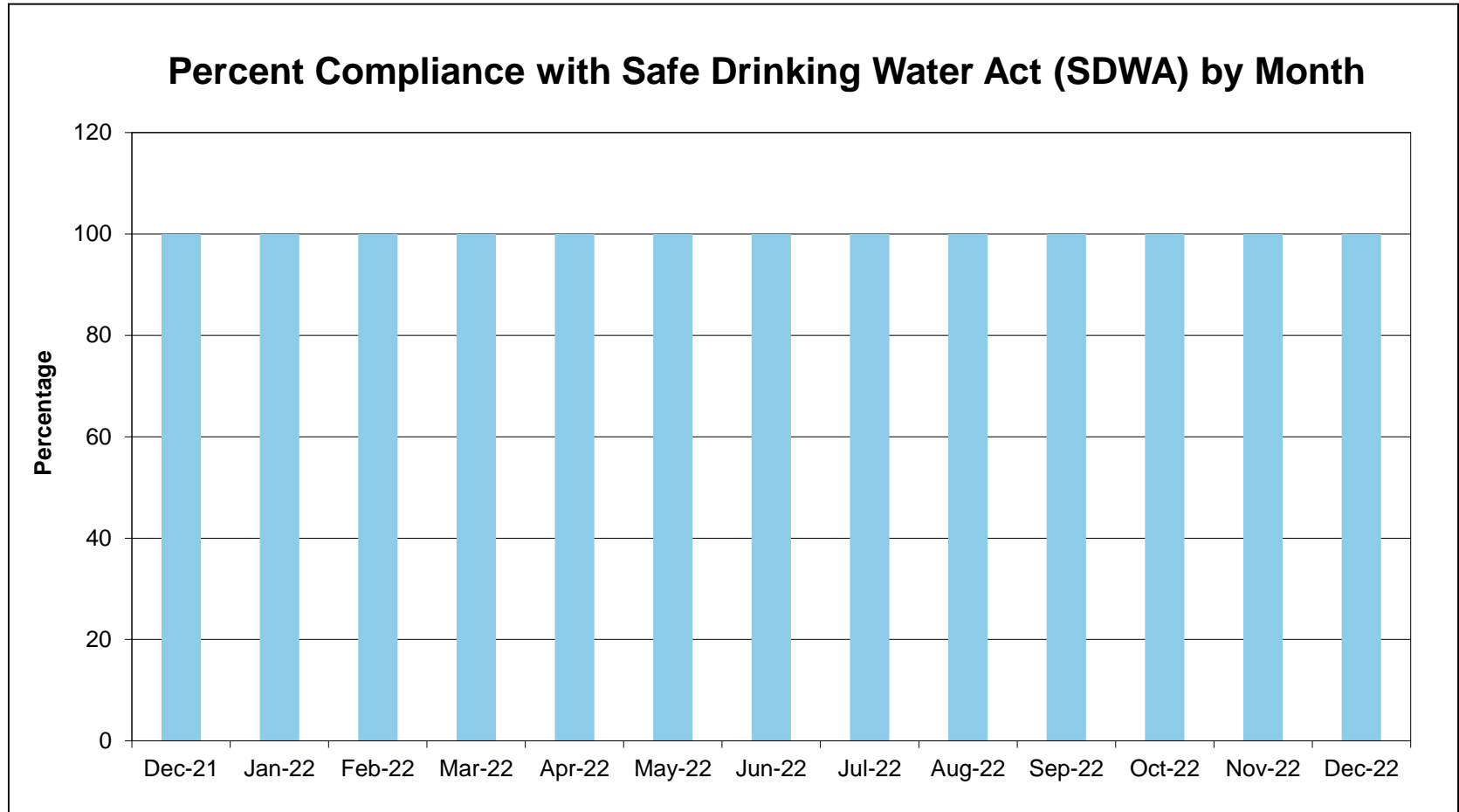
**CEO Priority KPI Performance Criteria:** Days to pay an invoice is monitored to support healthy supplier relationships. (Green = 40 days or less; Yellow = >40 to <45 days; Red = >45 days)

**Commentary:** The KPI is green at 33 days for the month of November, within the stated criteria.

A dynamic splash of water in shades of blue, with bubbles and ripples, set against a light blue background. The water is captured in motion, creating a sense of freshness and purity.

# EUM Attribute: Product Quality

# Product Quality – SWDA Compliance

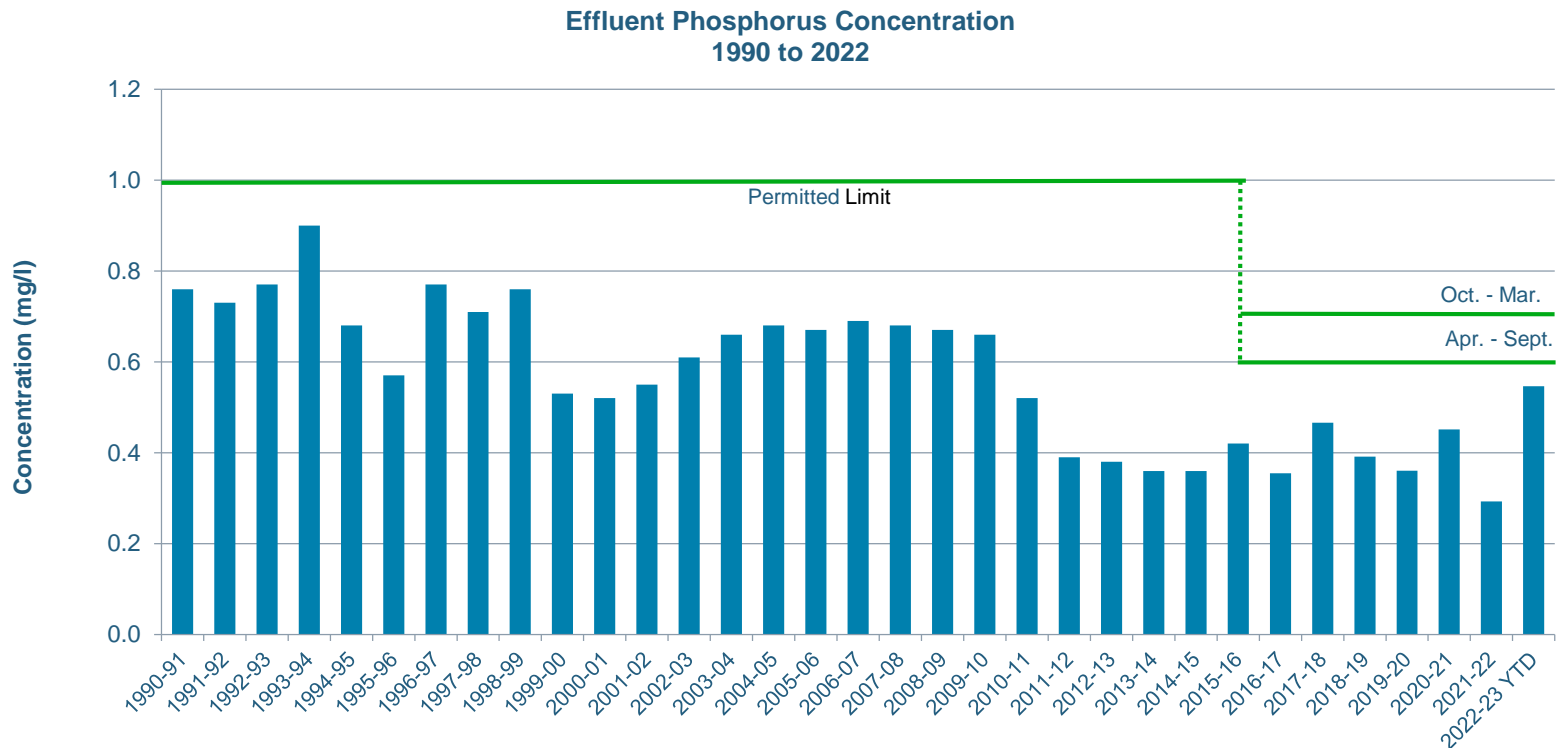


**Product Quality:** GLWA's goal is to surpass Safe Drinking Water Act requirements and this slide indicates compliance for the month.

# Product Quality

## Regulatory Compliance – Effluent Phosphorous Concentration

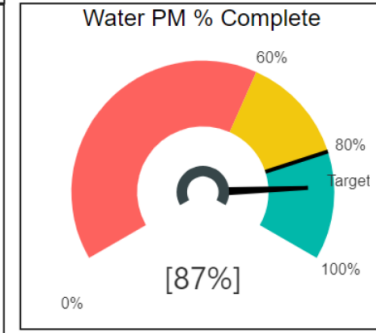
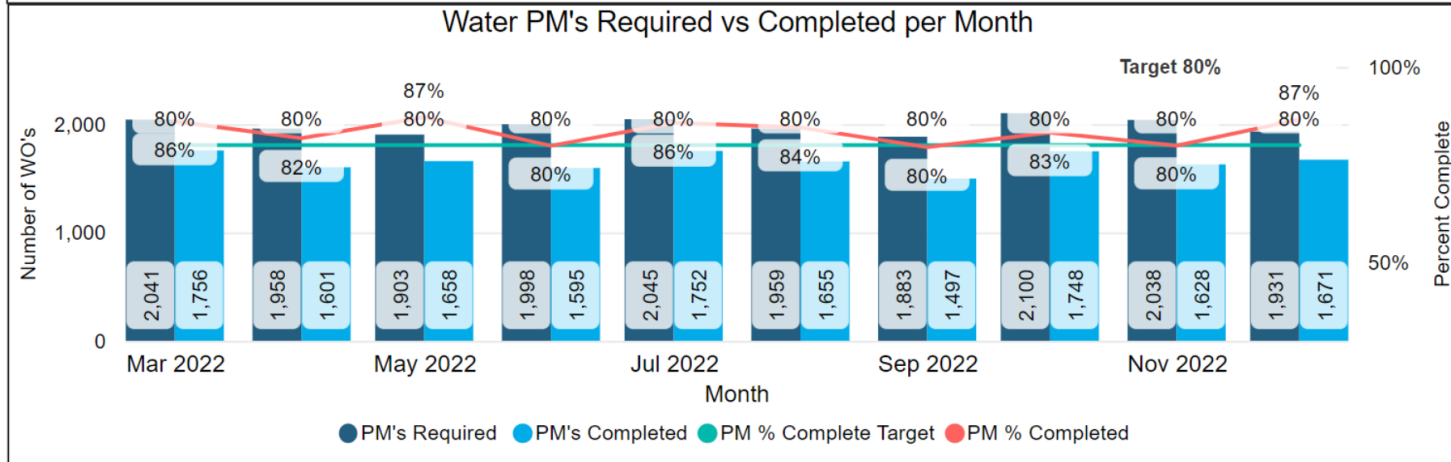
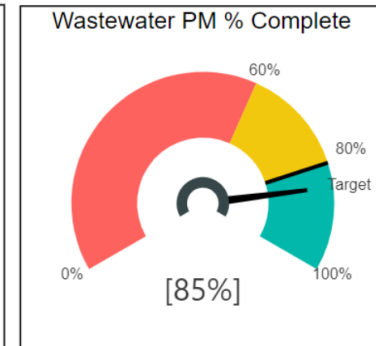
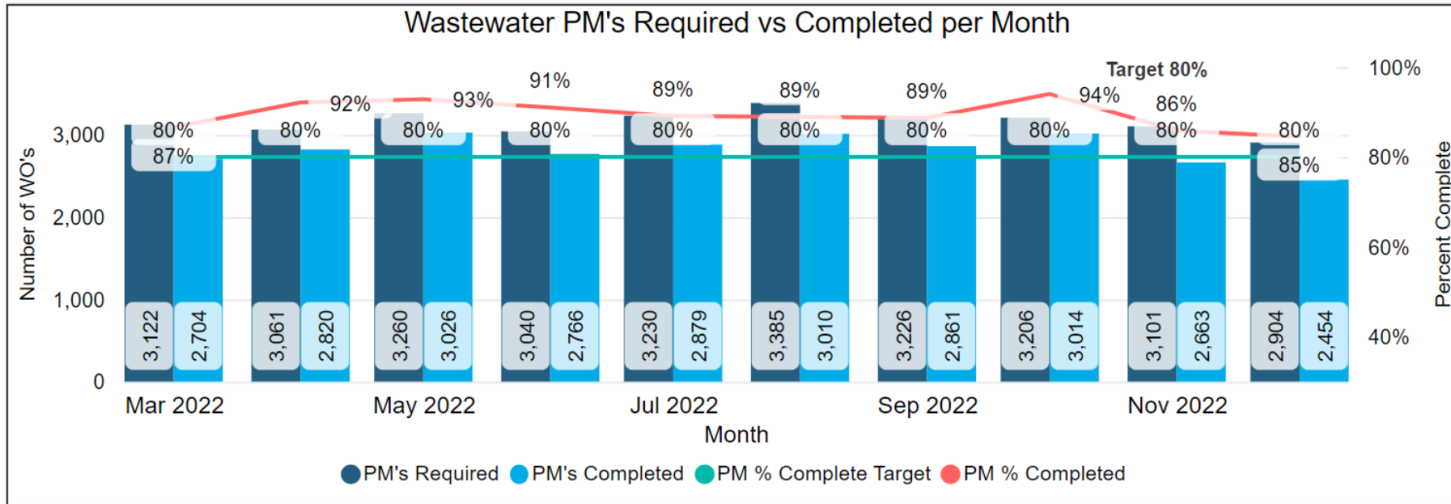
- Significant progress has been made in the reduction of effluent phosphorus.
- GLWA strives to surpass Federal and State requirements.



A dynamic splash of water in shades of blue, with bubbles and ripples, set against a light blue background. The water is captured in motion, creating a sense of energy and freshness.

# EUM Attribute: Infrastructure Strategy and Performance

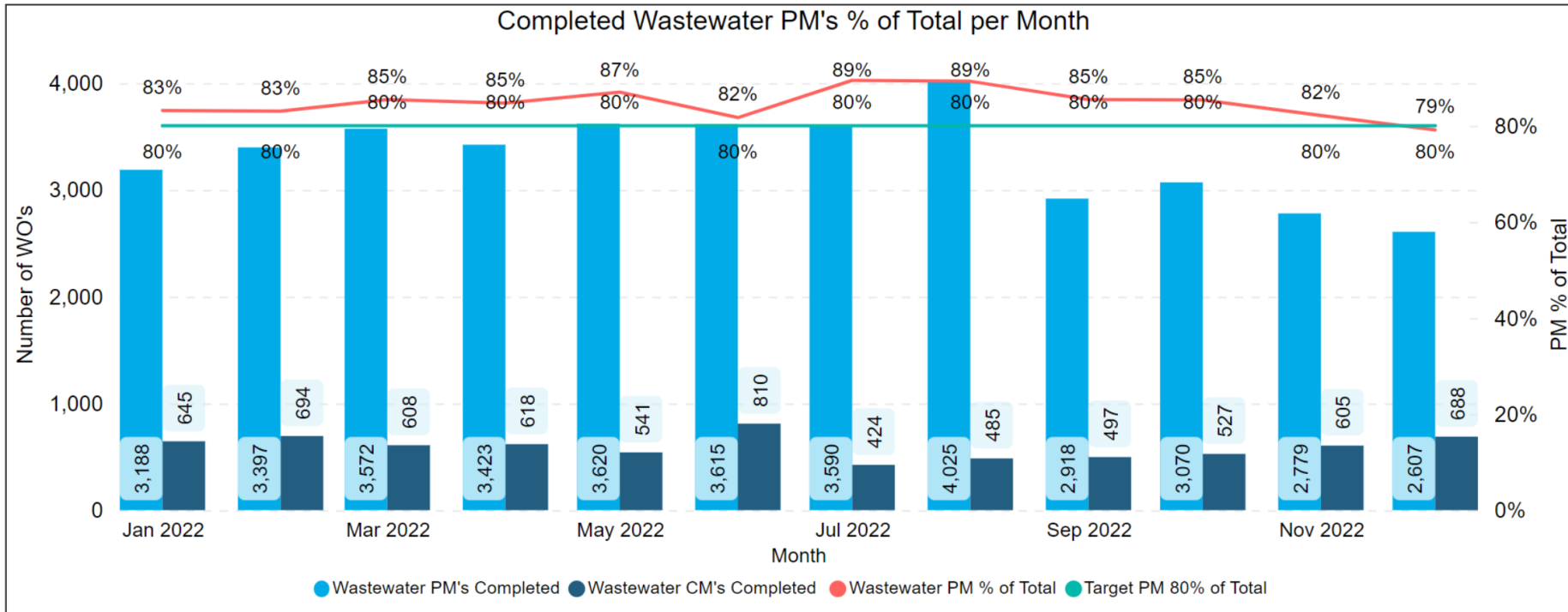
# Infrastructure Strategy and Performance – Wastewater and Water Preventative Maintenance (PM) Management December 2022



\*Timely preventative maintenance extends asset useful life and minimizes unplanned downtime.

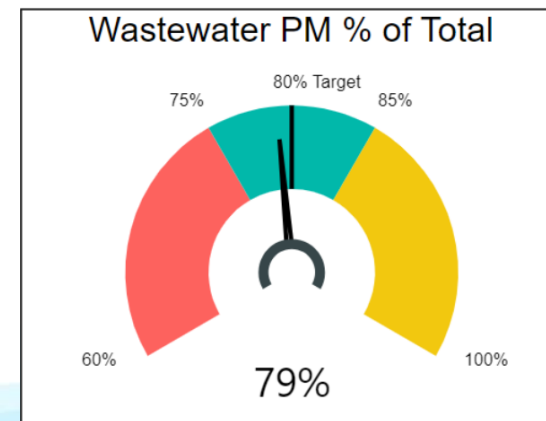
\*Unplanned downtime can lead to permit non-compliance and negative environmental impacts.

# Infrastructure Strategy and Performance – Wastewater Preventative & Corrective Maintenance Management December 2022



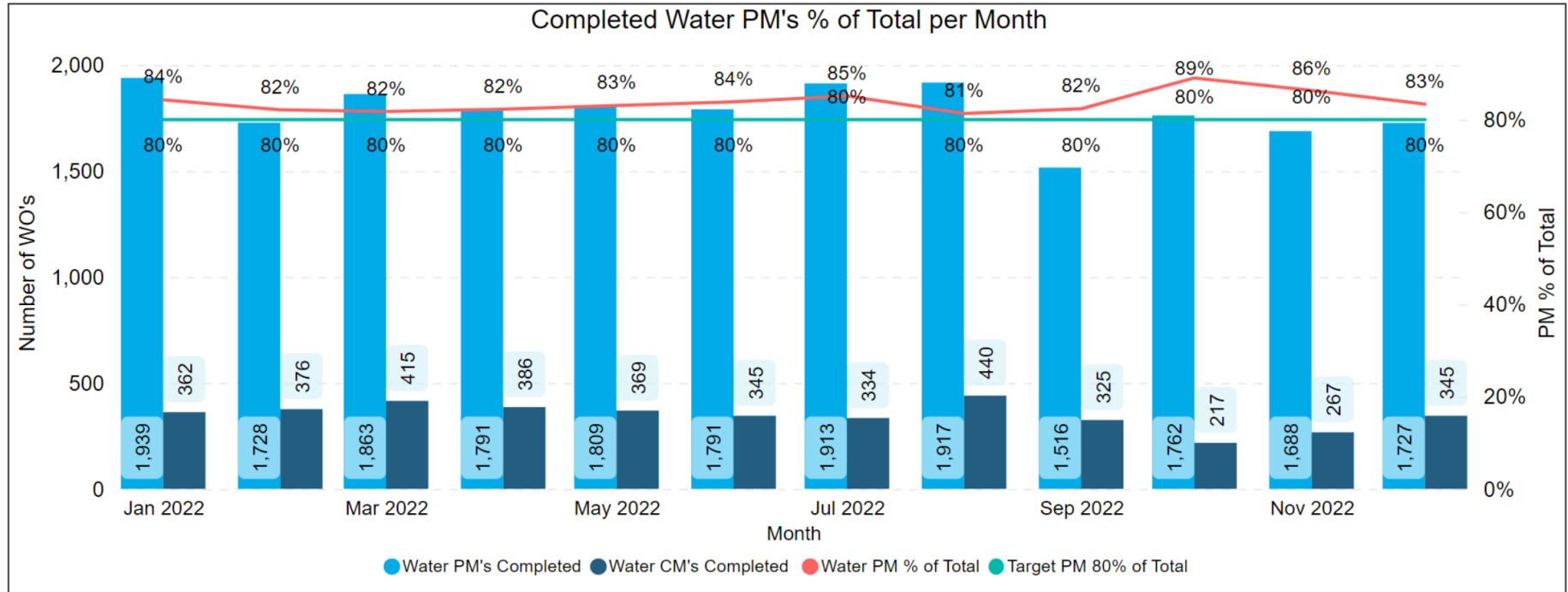
\*The Target is derived from the 2017 American Water Works Association Utility Benchmarking program that indicates that an appropriate level of PM activities can be identified by the PM percentage of total maintenance work performed. If the percentage is significantly lower than the target (red) it is a warning of possible increase in unplanned, emergency type work (CM). If the percentage is significantly higher than the target (yellow) it is a warning that PMs can be reduced, and resources can be better directed to other system needs.

PM = Preventative Maintenance  
CM = Corrective Maintenance



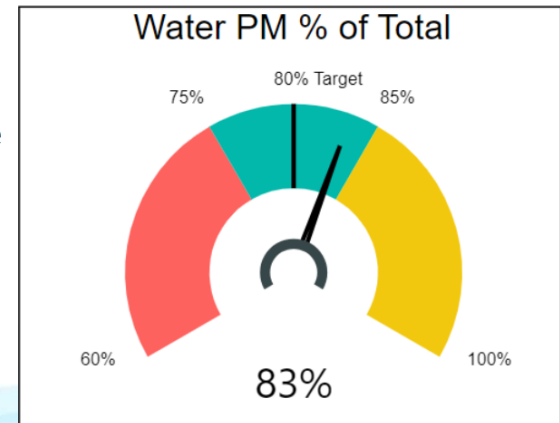


# Infrastructure Strategy and Performance – Water Preventative & Corrective Maintenance Management December 2022

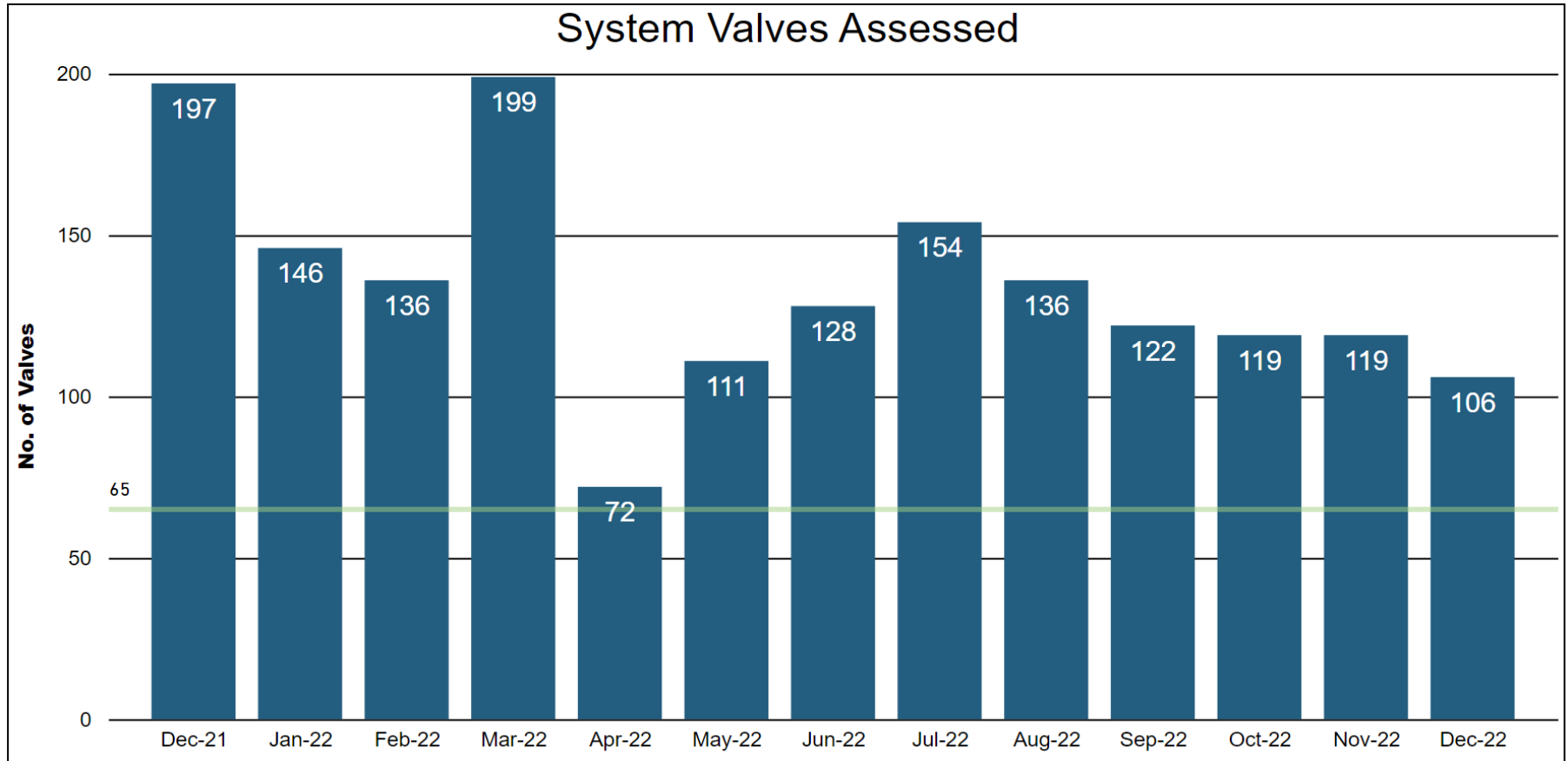


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PM = Preventative Maintenance  
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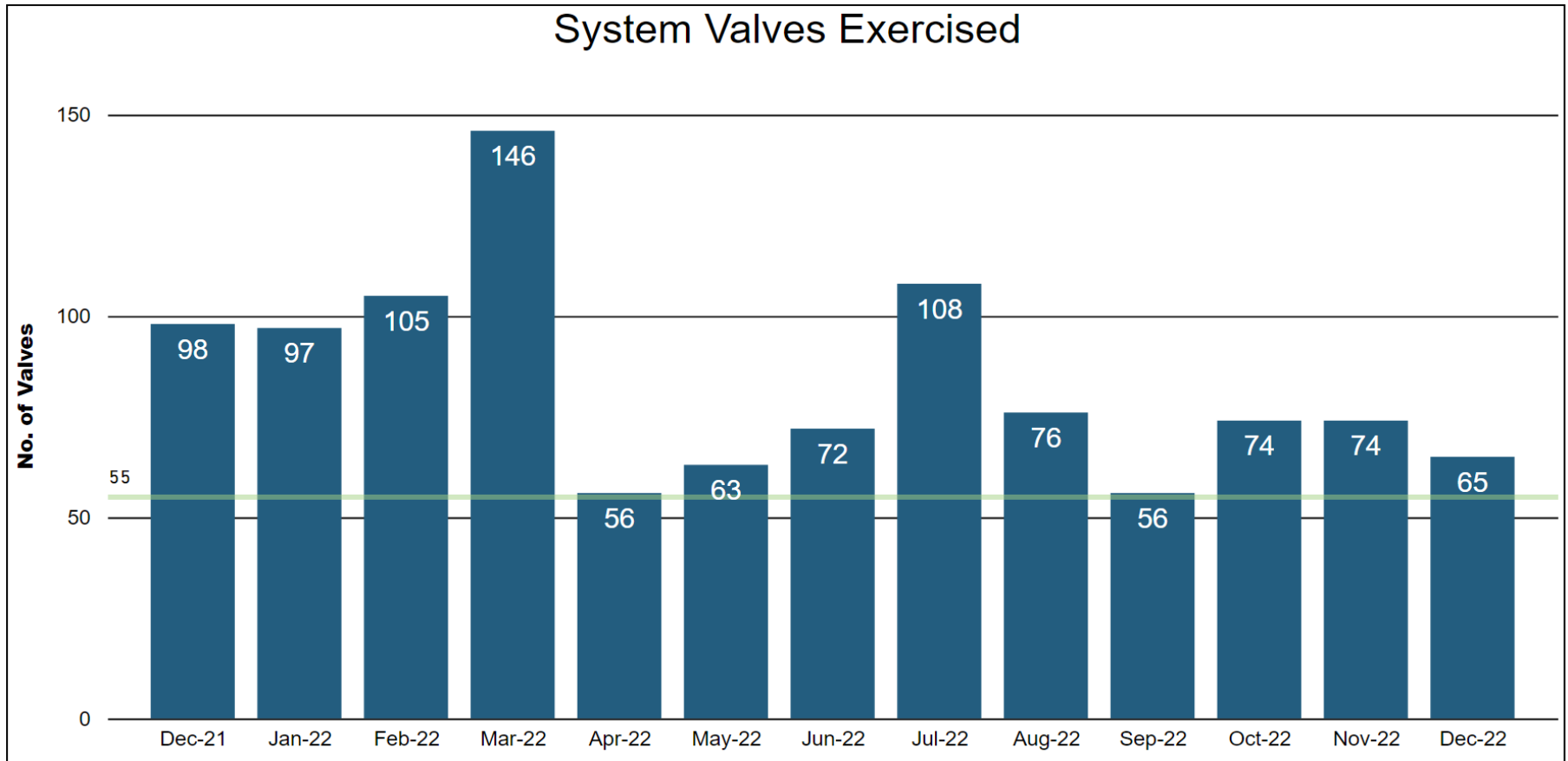
# Infrastructure Strategy and Performance – Water and Field Services Valve Assessments



**Note:** The contractor began exercising valves in the month of December. A seasonal target has been set for the winter season with expectations that the number of valves exercised will increase in the coming spring and summer months.

**Infrastructure Strategy and Performance:** GLWA's ultimate goal is to locate, visually assess, determine the condition and valve position, and fully exercise system valves.

# Infrastructure Strategy and Performance – Water and Field Services Valve Exercising



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**Infrastructure Strategy and Performance:** GLWA's ultimate goal is to locate, visually assess, determine the condition and valve position, and fully exercise system valves.

# Infrastructure Strategy and Performance – Water and Field Services Valve Assessments

## Air Valves and Blowoff Valves Assessed

December 2021: The contractors had some downtime due to the holidays and primarily focused on locating and exercising the main system valves. The contractors will be back working fully according to schedule after the holidays.

February and March 2022: Many of the valves/ blowoff valves assessed were located off MDOT roads so the contractors were subjected to working according to MDOT road policies working within 9 am -3pm timeframe. The contractors will continue to keep GLWA updated regarding their progress moving forward assessing valves off MDOT roads, and if the number of valves accessed starts to decrease, GLWA will look to change the target.

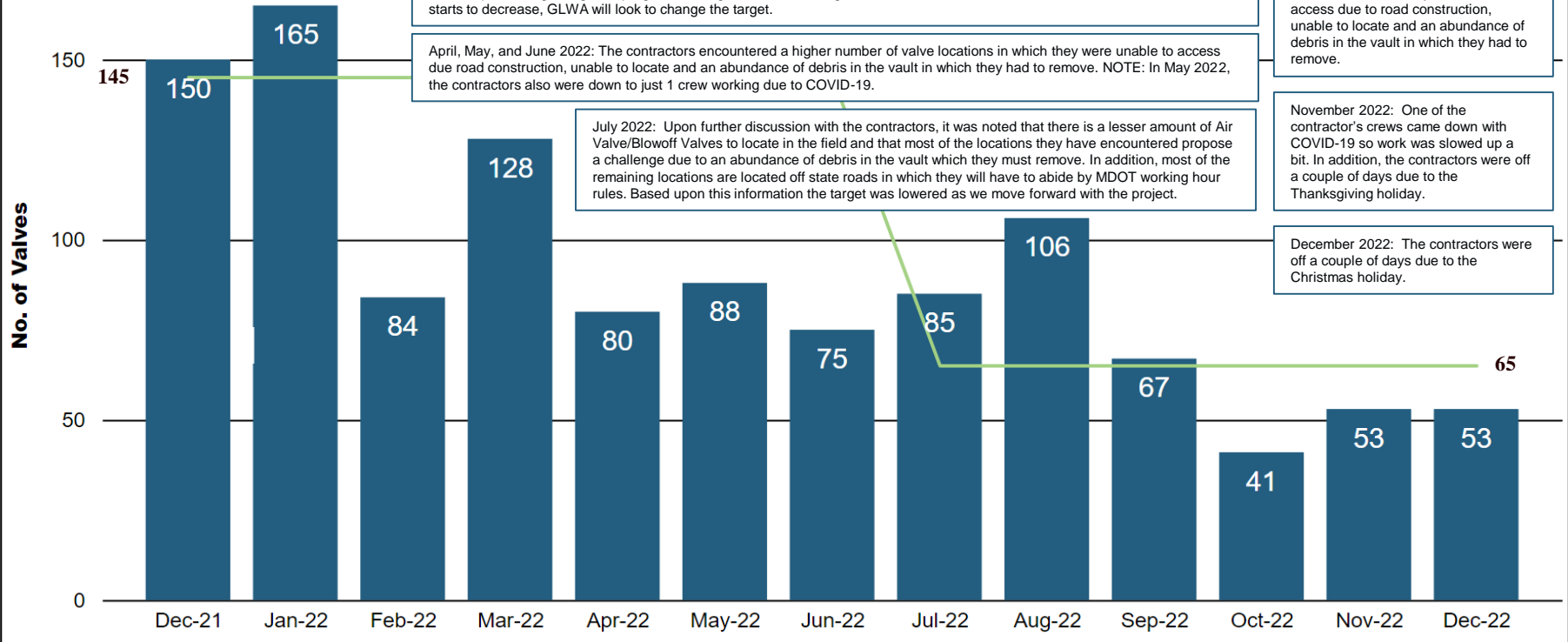
October 2022: The contractors encountered a higher number of valve locations in which they were unable to access due to road construction, unable to locate and an abundance of debris in the vault in which they had to remove.

April, May, and June 2022: The contractors encountered a higher number of valve locations in which they were unable to access due road construction, unable to locate and an abundance of debris in the vault in which they had to remove. NOTE: In May 2022, the contractors also were down to just 1 crew working due to COVID-19.

November 2022: One of the contractor's crews came down with COVID-19 so work was slowed up a bit. In addition, the contractors were off a couple of days due to the Thanksgiving holiday.

July 2022: Upon further discussion with the contractors, it was noted that there is a lesser amount of Air Valve/Blowoff Valves to locate in the field and that most of the locations they have encountered propose a challenge due to an abundance of debris in the vault which they must remove. In addition, most of the remaining locations are located off state roads in which they will have to abide by MDOT working hour rules. Based upon this information the target was lowered as we move forward with the project.

December 2022: The contractors were off a couple of days due to the Christmas holiday.

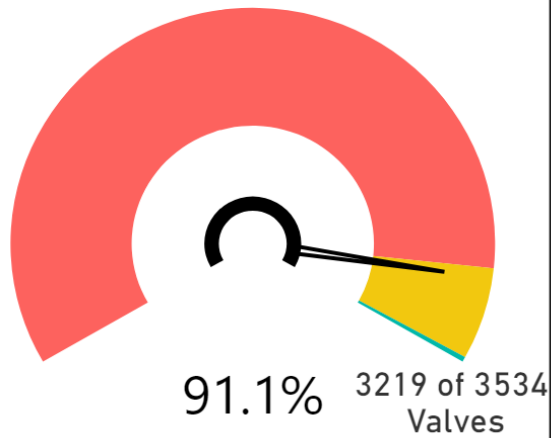


**Note:** Phase 2 of the project began in August 2020. The project will focus on locating and assessing designated valves within the water transmission main.

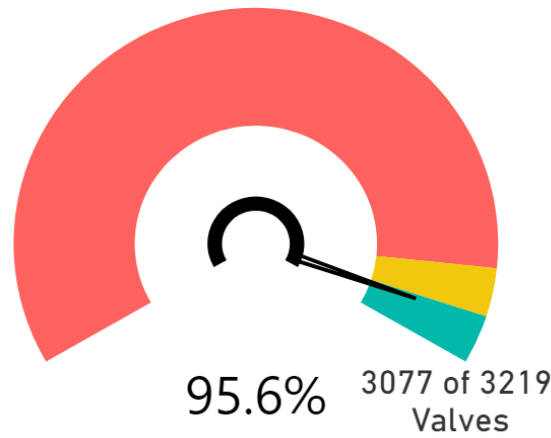
**Infrastructure Strategy and Performance:** GLWA's ultimate goal is to locate, visually assess, determine the condition and valve position, and fully exercise system valves.

# Infrastructure Strategy and Performance – Water and Field Services Valve Exercising Totals System Valve Assessment Totals – December 2022

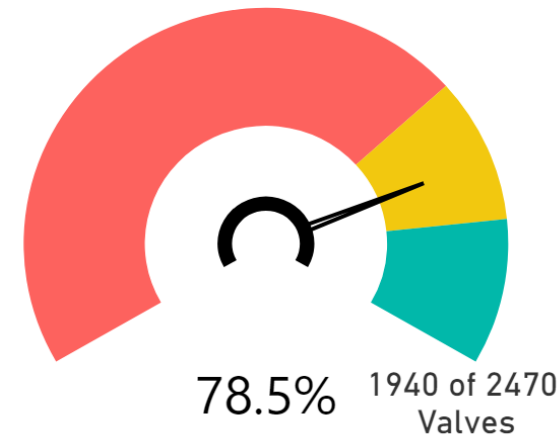
**Valves Located**



**Valves Assessed**



**Valves Operational**



Red <90%, Yellow 90 to 99.5%, Green >=99.5%

Red <90%, Yellow 90 to 95%, Green >=95%

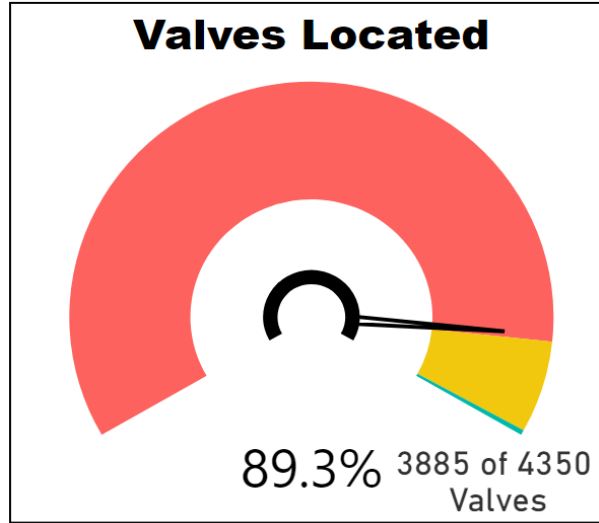
Red <70%, Yellow 70 to 85%, Green >=85%

**Reason for yellow on Valves Located (91.1%) and Valves Operational (78.5%):** Valves not located were mostly due to heavy vegetation and some were paved over. Some valves could not be assessed due to location of the valves.

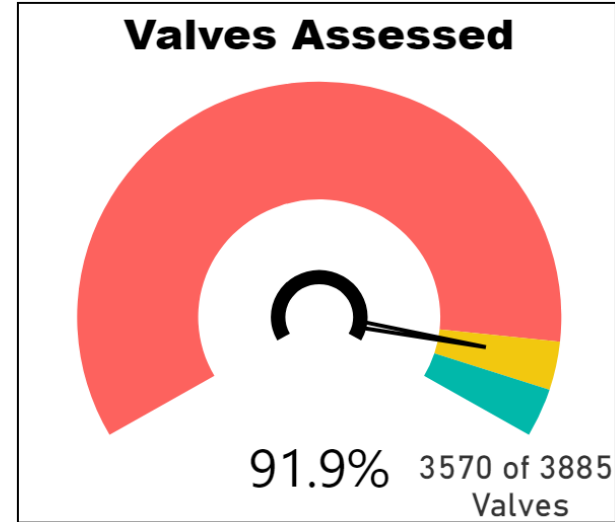
**NOTE:** Based on the results of the pilot study, the current valve exercising program has been streamlined to locate, assess, and operate all isolation valves within the GLWA Transmission System. Valves that could not be located, or accessed for assessment and exercising, or found to be non-operational, will be remedied using the GLWA Water Transmission Main, Valve, and Urgent Repairs contractors. Valves will be addressed based on geography, criticality to the system, and potential impacts to member partners; therefore, repairs will lag the exercise program substantially to minimize impacts to the system and customers. Normally, open valves found closed are not operated until GLWA operations have reviewed the effected member partners to ensure no unintended disruptions to service.

**Infrastructure Strategy and Performance:** GLWA's ultimate goal is 100% operational valves. However, during this transitional phase, and the need to carefully plan contingencies for valve failures during repair, GLWA has lowered the valve percent operational goal. This reduction reflects the necessary time to plan and conduct valve repairs to include appropriate contingencies that will minimize the impacts to customers should catastrophic failures occur during repair.

# Infrastructure Strategy and Performance – Water and Field Services Valve Assessment Totals Air and Blowoff Valve Assessment Totals – December 2022



Red <90%, Yellow 90 to 99.5%, Green >=99.5%



Red <90%, Yellow 90 to 95%, Green >=95%

**Reason for red on Valves Located (89.3%) and yellow on Valves Operational (91.9%):** Valves not located were mostly due to heavy vegetation and some were paved over. Some valves located could not be assessed due to particulars associated with their individual locations.

**NOTE:** During the initial preliminary stages of the project, the contractor is conducting inventory, locating and assessing designated valves, as well as determining which valves are operational within the GLWA water transmission system.

**Infrastructure Strategy and Performance:** GLWA's ultimate goal is 100% operational valves. We are in a transitional phase moving towards that goal and will reassess the red, yellow, green targets annually thereafter for the next 3 years.

A dynamic splash of water in shades of blue, with bubbles and ripples, set against a light blue background. The water is captured in motion, creating a sense of energy and freshness.

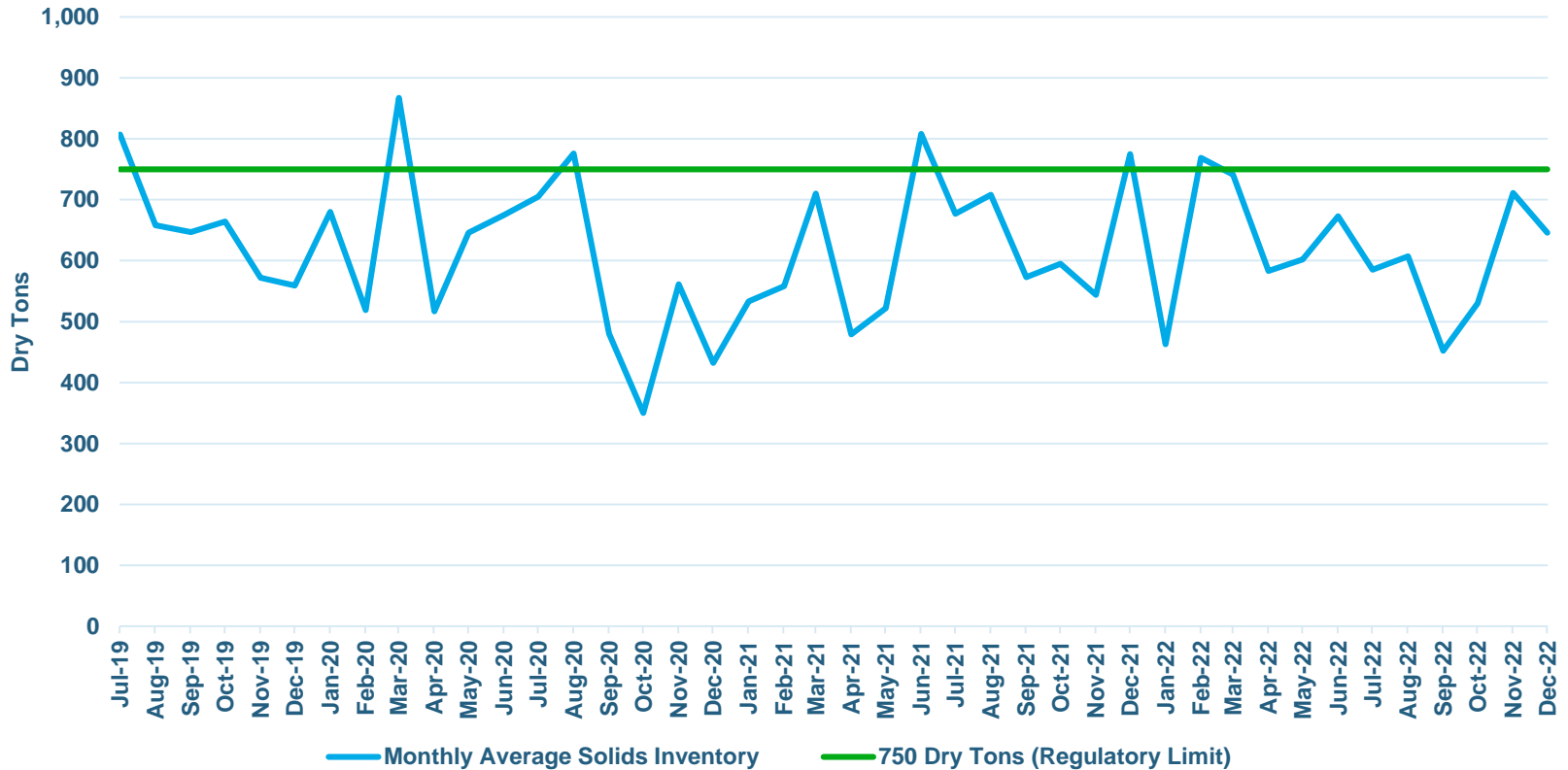
# EUM Attribute: Operational Optimization

# Operational Optimization

## Regulatory Compliance – Monthly Solids Inventory

- Solids inventory is a measure of process performance and is regulated by the State.
- Having consistently tracked below 750 dry tons since Oct. 2014 is noteworthy.

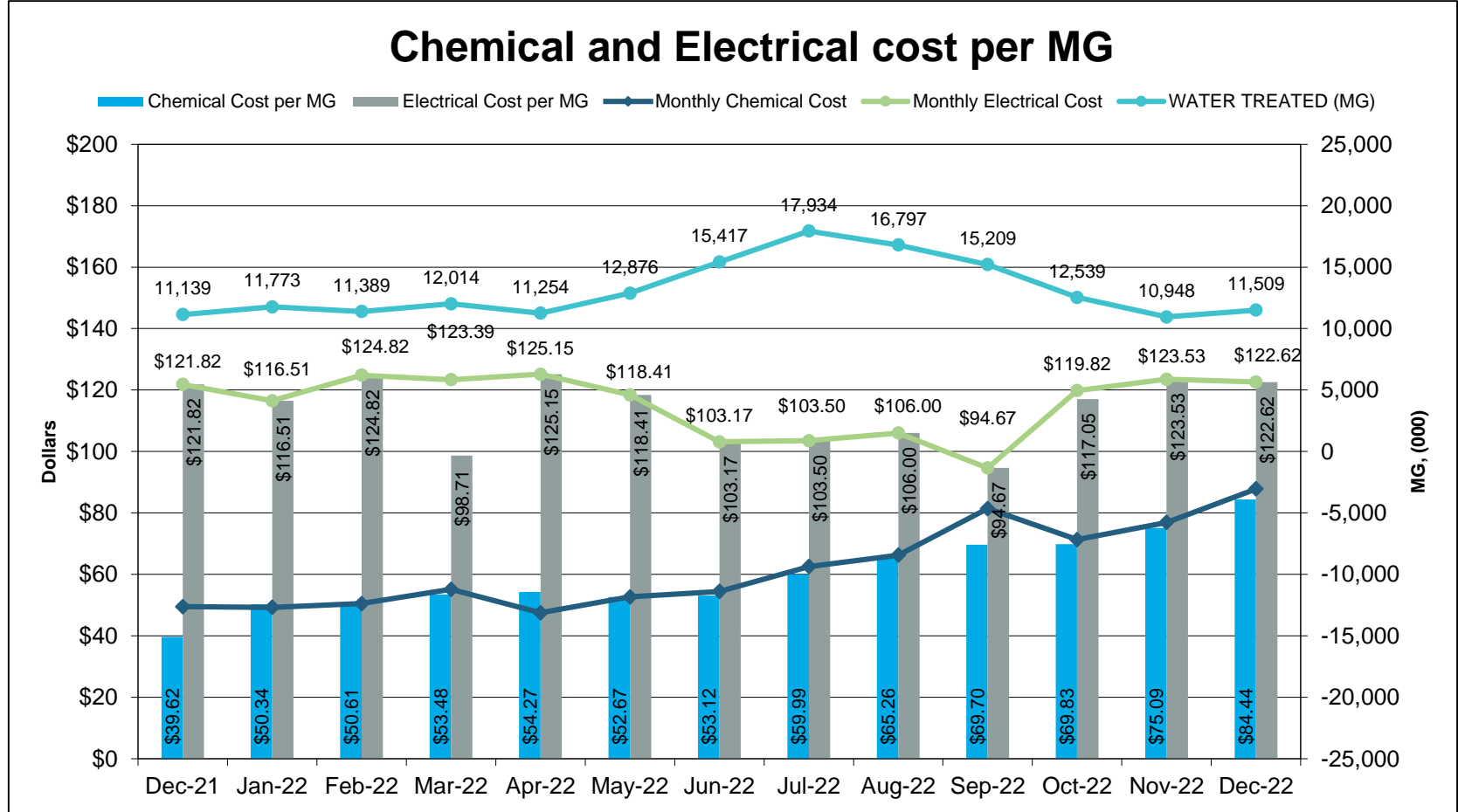
Monthly Solids Inventory July 2019 to December 2022



Note: No violation occurred in July 2019, March or August 2020, June or December 2021, or February 2022: the limit did not apply in those months due to the number of days on which PE discharge occurred.



# Operational Optimization Chemical & Electrical Costs

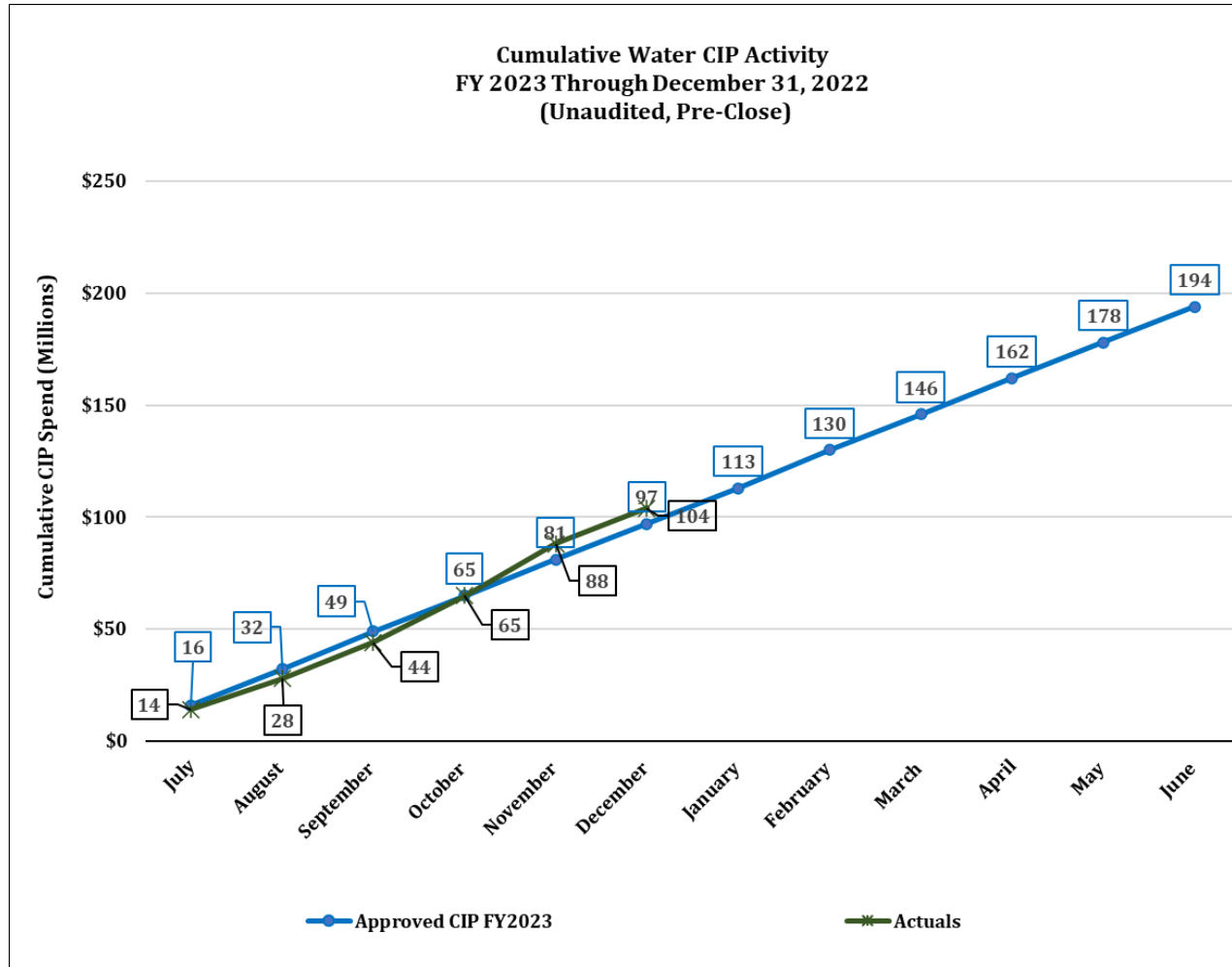


**Operational Optimization:** Being able to identify ongoing performance improvements for chemical and electrical usage per MG of water pumped is a key metric in managing operational cost. This slide is under development to include tracking of total costs per MG.

A dynamic splash of blue water with bubbles and ripples, set against a light blue background. The water is captured in motion, creating a sense of energy and freshness.

# EUM Attribute: Enterprise Resiliency

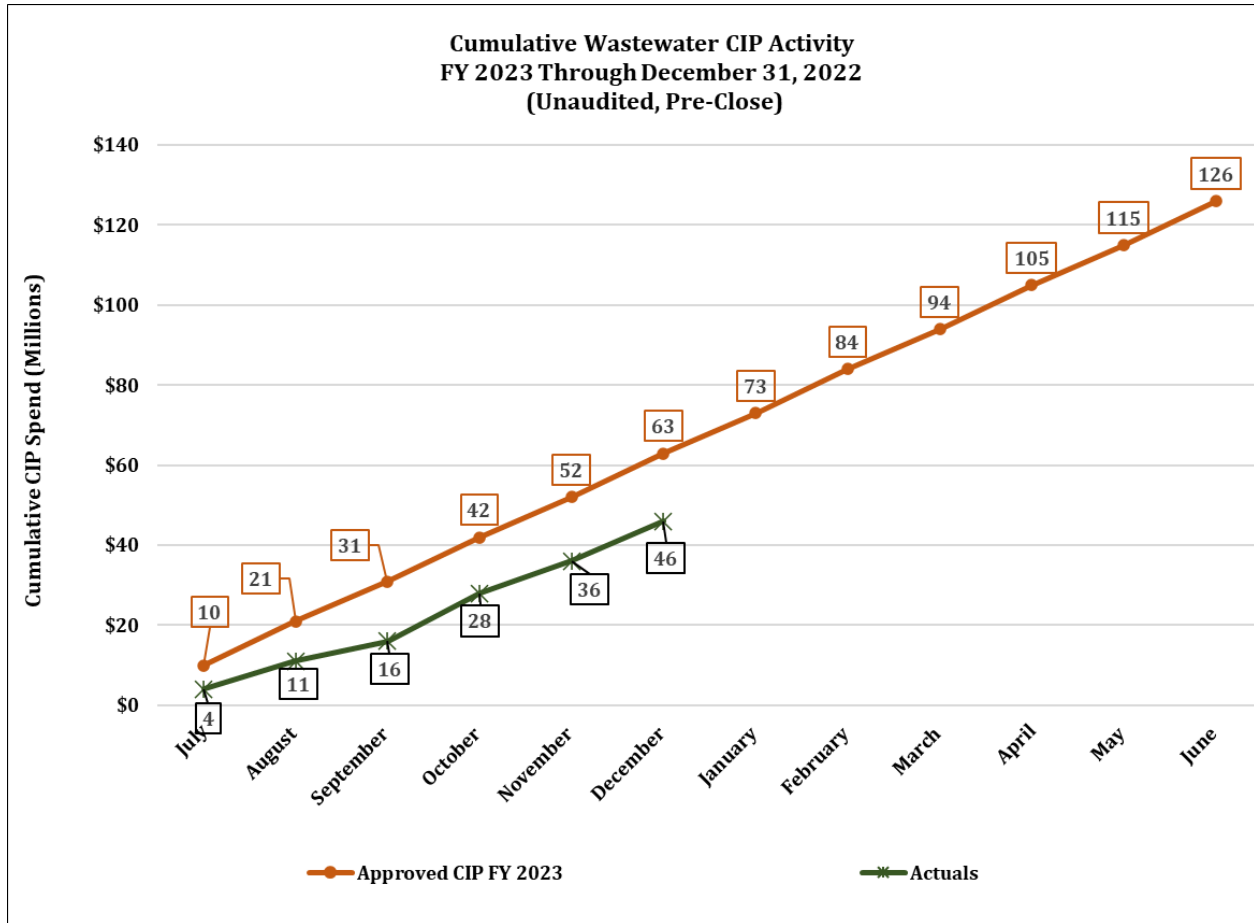
# Enterprise Resiliency FY 2023 Total Water CIP Spend



**Current Status:**  
The water system incurred \$104 million of CIP costs through December 2022. This is 107% of the FY 2023 monthly prorated *Approved CIP*.

*Note: The Capital Spend Rate Assumption for the Water System was initially budgeted at 80%. With the FY 2023 first quarter budget amendments, that percentage was revised to 100.0% to align the budget with revised CIP spending forecasts.*

# Enterprise Resiliency FY 2023 Total Wastewater CIP Spend

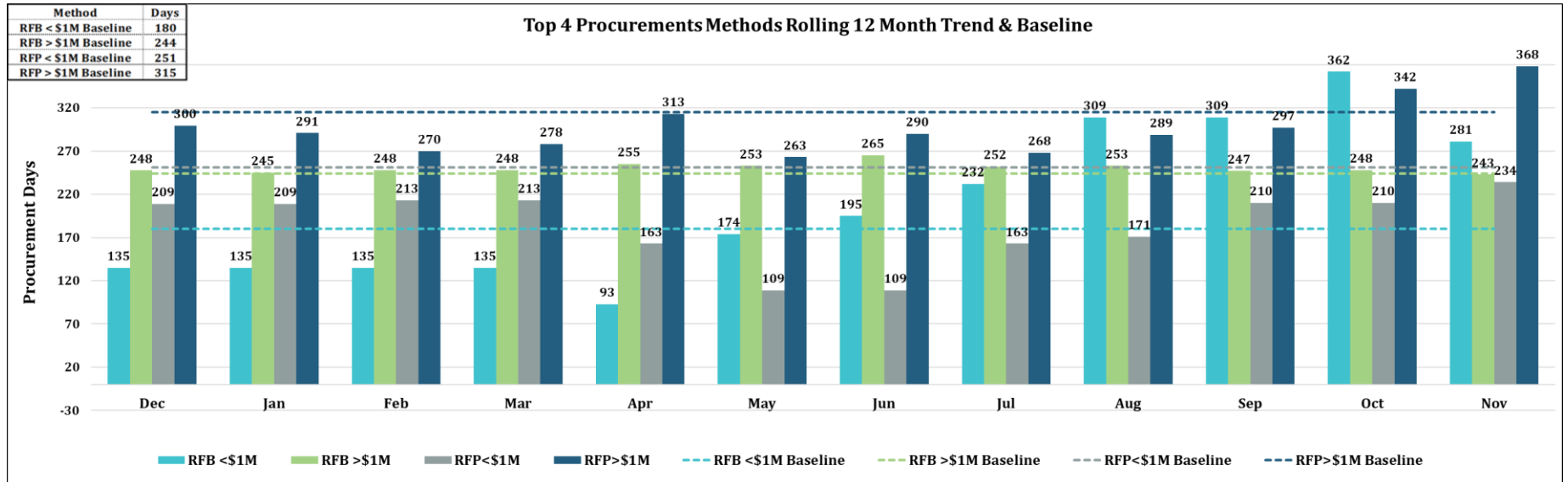


The wastewater system incurred \$46 million of CIP costs through December 2022.

This is 73% of the FY 2023 monthly Prorated *Approved CIP*.

Note: The Capital Spend Rate Assumption for the Water System was initially budgeted at 75%. With the FY 2023 first quarter budget amendments, that percentage was revised to 100.0% to align the budget with revised CIP spending forecasts.

# Enterprise Resiliency - Procurement Cycle

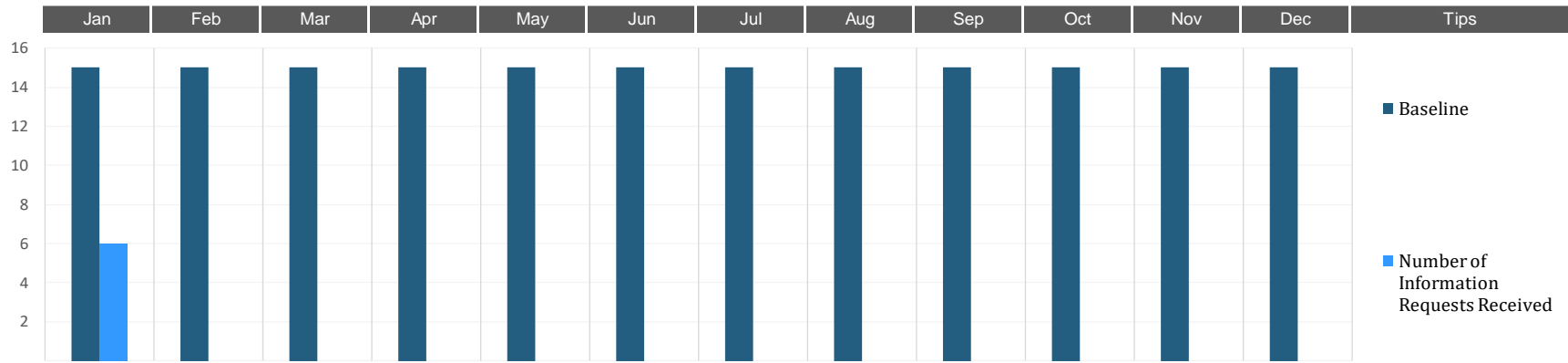


- *Scope:* This slide represents solicitations awarded and contracts executed by GLWA Procurement for the twelve-month period from December 1, 2021, through November 30, 2022.
- The chart above highlights the total days to execute Request for Bid (RFB) and Request for Proposal (RFP) contracts over the previous 12 months compared to the established baselines shown.
- During this period baselines were met for RFP's less than \$1 million and RFB's greater than \$1M. RFB's less than \$1 million and RFP's greater than \$1 million exceeded the baselines due to challenges encountered with negotiating contracts which prolonged timeframes required to execute. However, the increased timeframes did not pose a significant barrier to implementation of the final award of the contracts.
- The table to the right provides a breakdown of this activity based on the type of contract awarded and the amount awarded for the past 12 months.
- There was a total of \$391.9 million associated with 49 contracts awarded during the period December 1, 2021, through November 30, 2022.

Contract Type	Awarded (Millions)	Total Contracts
<b>RFB (Low-Bid)</b>	<b>276.5</b>	<b>31</b>
<b>Over \$1M</b>	<b>274.0</b>	<b>23</b>
Construction	178.3	11
Consultant	4.5	2
Personnel Services	2.0	1
Services	89.2	9
<b>Under \$1M</b>	<b>2.5</b>	<b>8</b>
Construction	0.4	1
Services	1.4	3
Supplies/Equipment	0.8	4
<b>RFP</b>	<b>115.4</b>	<b>18</b>
<b>Over \$1M</b>	<b>112.9</b>	<b>12</b>
Consultant	34.2	3
Design Build	26.8	3
IT	13.2	2
Services	38.7	4
<b>Under \$1M</b>	<b>2.5</b>	<b>6</b>
Consultant	1.0	3
Services	1.5	3
<b>Grand Total</b>	<b>391.9</b>	<b>49</b>

Baseline Last Updated 3/1/2021  
Outliers Removed

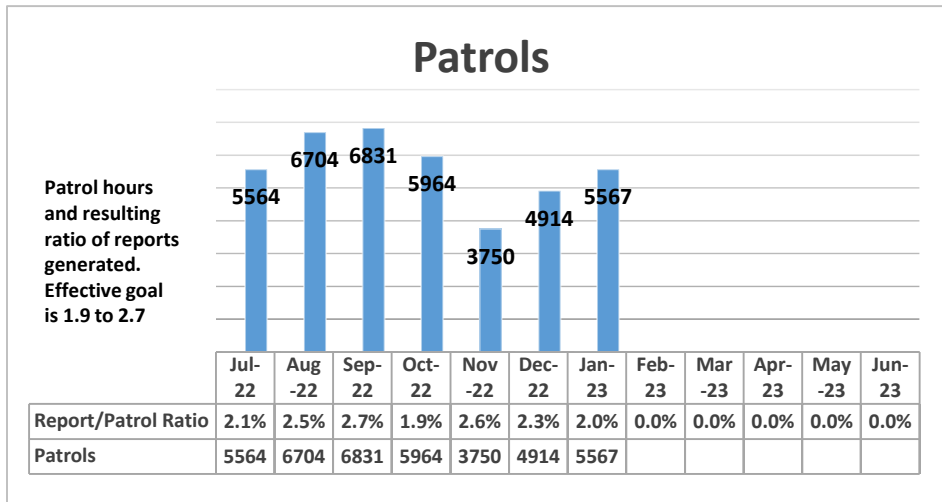
# Enterprise Resiliency – General Counsel Information Requests Received



Expenses	Jan	Feb	Mar	Apr	May	Jun*	Jul	Aug	Sep	Oct	Nov	Dec	Total	Trend
Baseline	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	180.00	.....
Number of Information Requests Received	6.00												6.00	.....

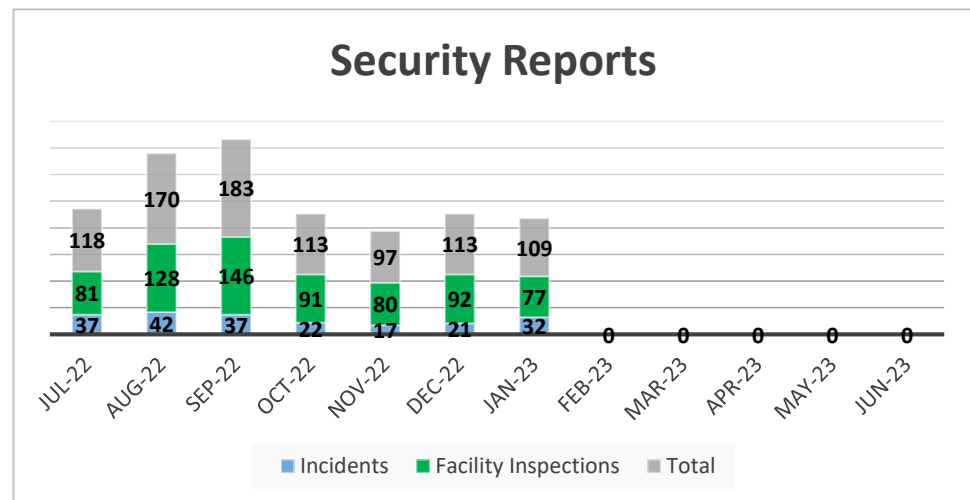
One of the measures of organizational transparency is access to information. GLWA maintains many avenues of informal information access, including through its website. To the extent the information is readily available, the Office of the General Counsel should receive fewer FOIA requests over time.

# Enterprise Resiliency – Security & Integrity

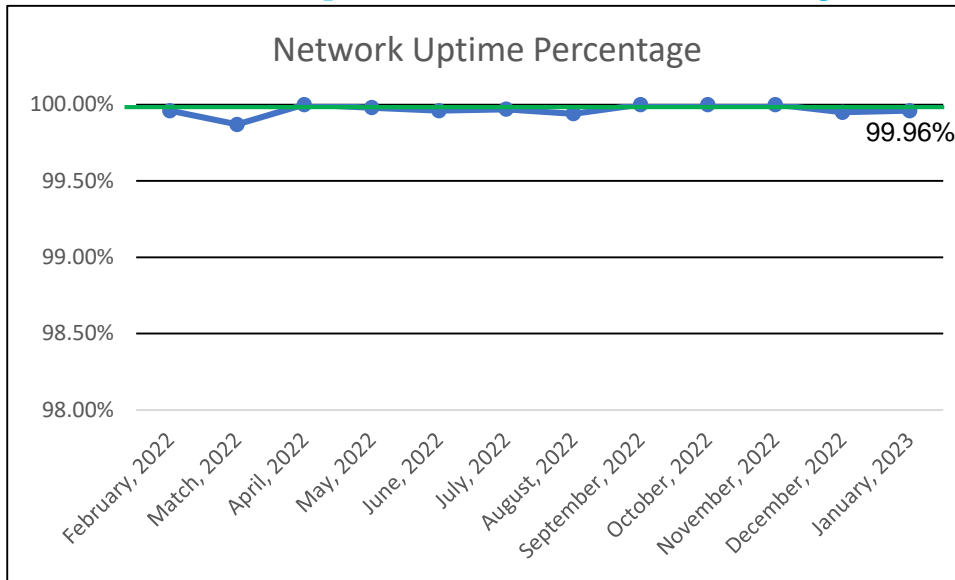


- Patrols are an indication of the level of services rendered by the staff of the Security & Integrity Group.

- Security reports are an indication of the effectiveness of security programs (less is better).

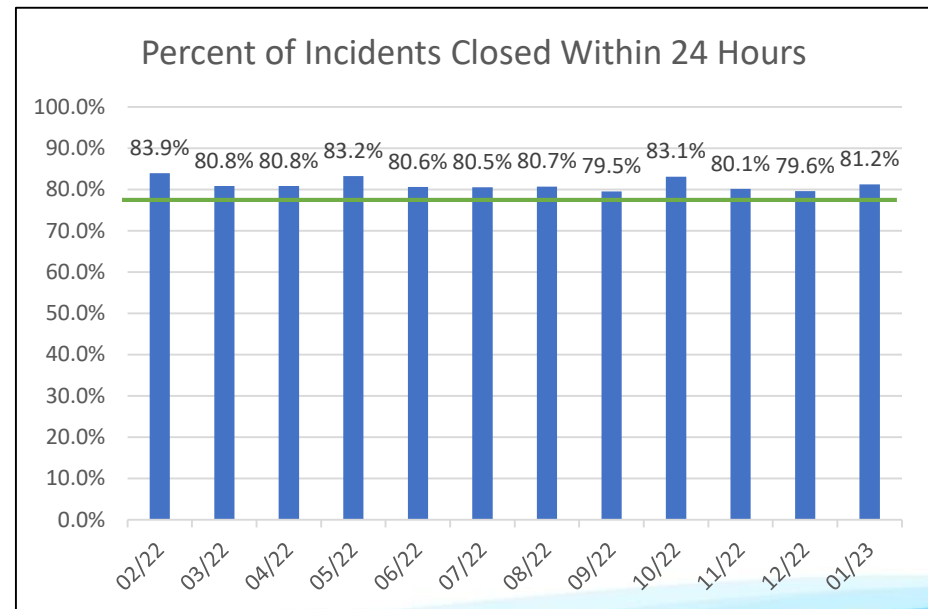


# Enterprise Resiliency – Information Technology



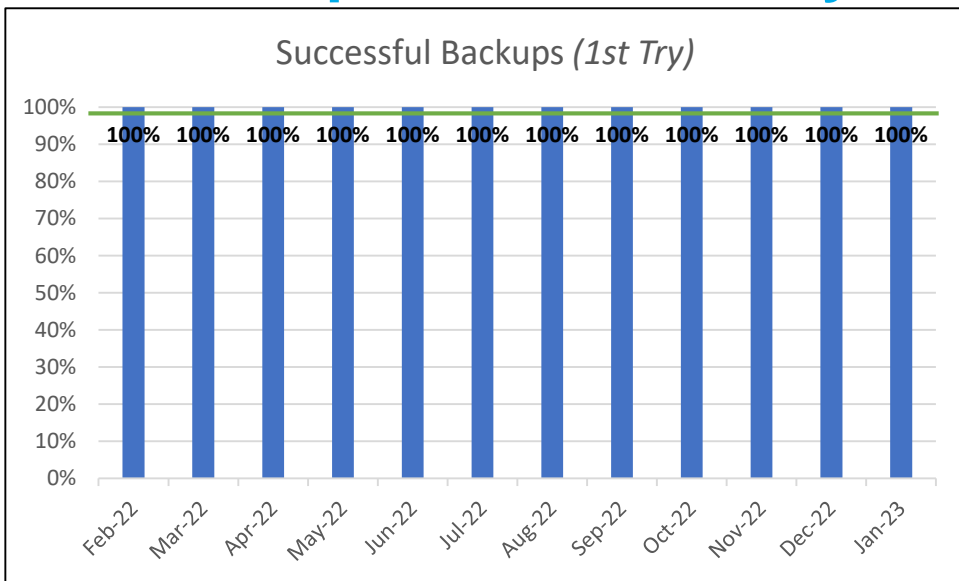
- GLWA has 42 monitored, network-connected sites, including offices, plants, pump stations, and other facilities.
- Network connectivity allows employees to access the applications needed to do their work and connects plants and pump stations to the intranet to report operational data

- An Incident is a technology issue that is preventing an employee from performing some part of their job duties
- Quick resolution of incidents increases employee productivity.
- The industry standard for 24-hour resolution is 68%



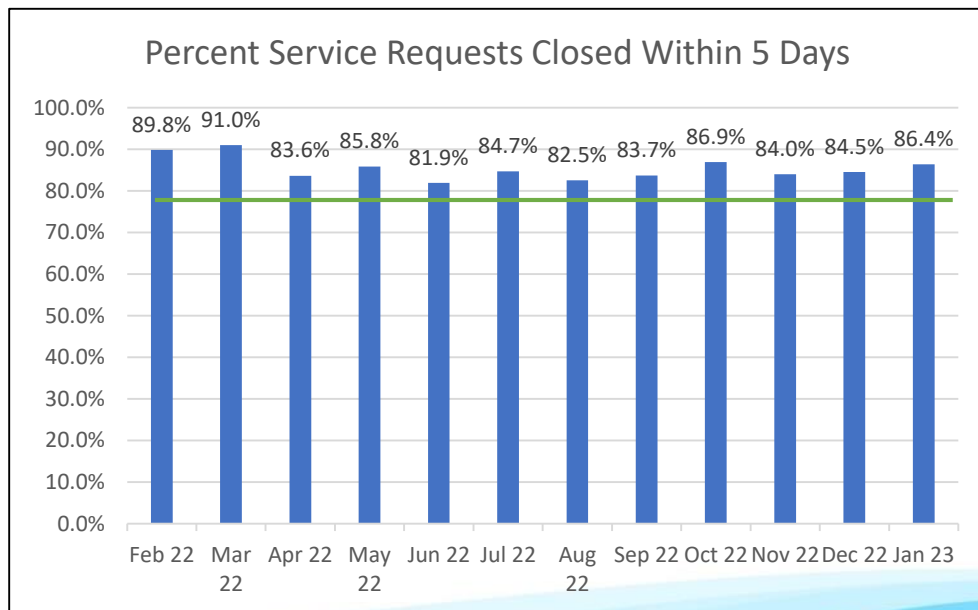


# Enterprise Resiliency – Information Technology

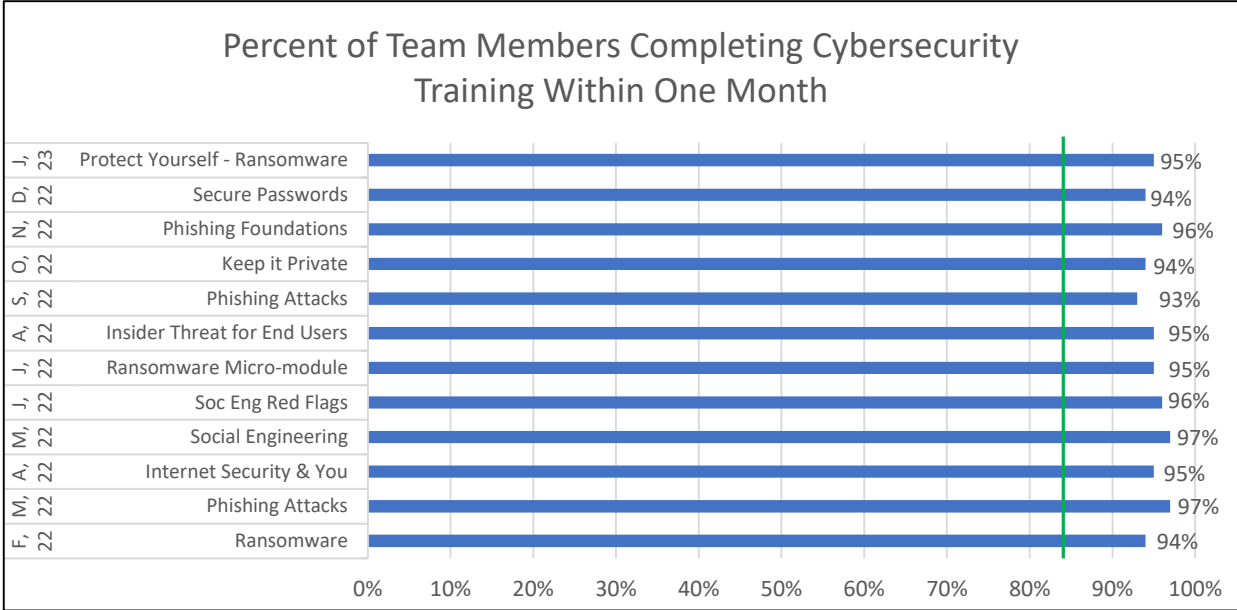


- Backups ensure that GLWA's information is safe in case of unexpected disruptions.
- Successfully backing up on the first try streamlines operations and frees up resources for other tasks.

- A service request is a request for IT work that is not preventing an employee from performing their work.
- Timely fulfilment of service requests ensure that employees have the technology resources needed to do their jobs and increases job satisfaction.



# Enterprise Resiliency – Information Technology

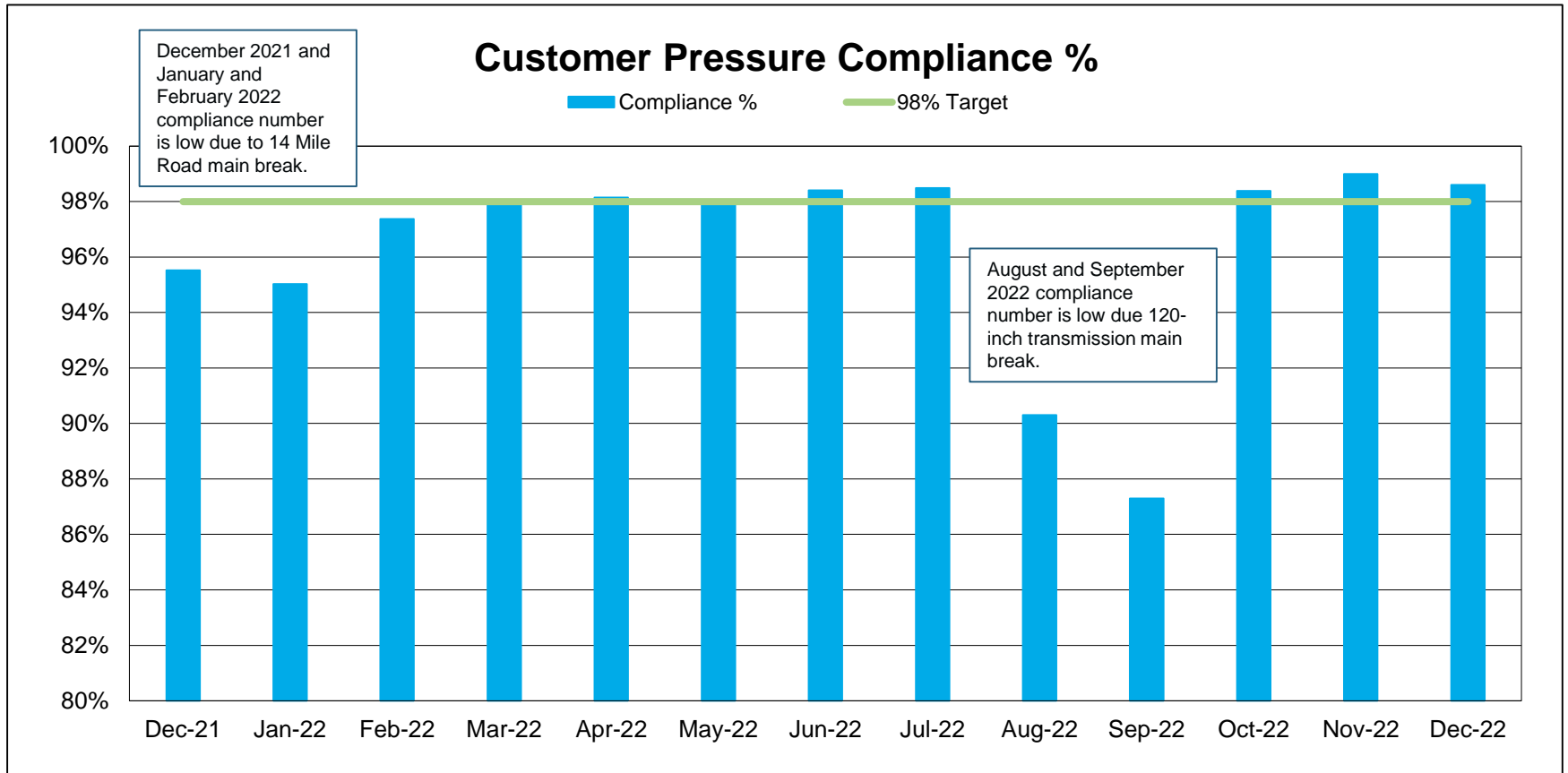


- End users are responsible for 80 percent of cybersecurity breaches.
- Well trained users are less likely to take action that could cause a breach

A dynamic splash of blue water with bubbles and ripples, set against a light blue background. The water is captured in motion, creating a sense of freshness and movement.

# EUM Attribute: Customer Satisfaction

# Customer Satisfaction – Water & Field Services



**Operational Resiliency:** To exceed customer compliance by being greater than 98% of contractual pressures.

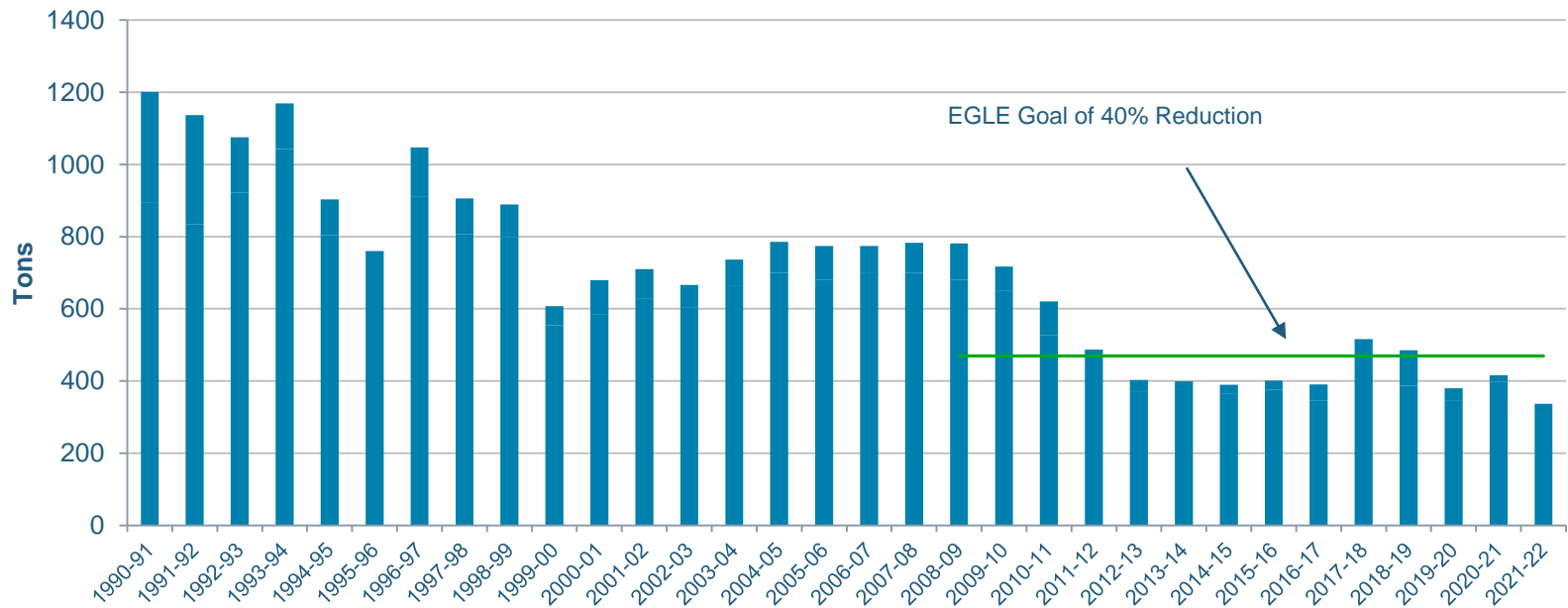
A dynamic splash of blue water with bubbles and ripples, set against a light blue background. The water is captured in motion, creating a sense of freshness and movement.

# EUM Attribute: Community Sustainability

# Community Sustainability – Watershed Health

- State and Federal regulators have a goal of 40 percent reduction in phosphorus loading in the Western Lake Erie Basin.
- GLWA has surpassed the State and Federal goal.

Effluent Phosphorus Loading  
July 1990 to June 2022

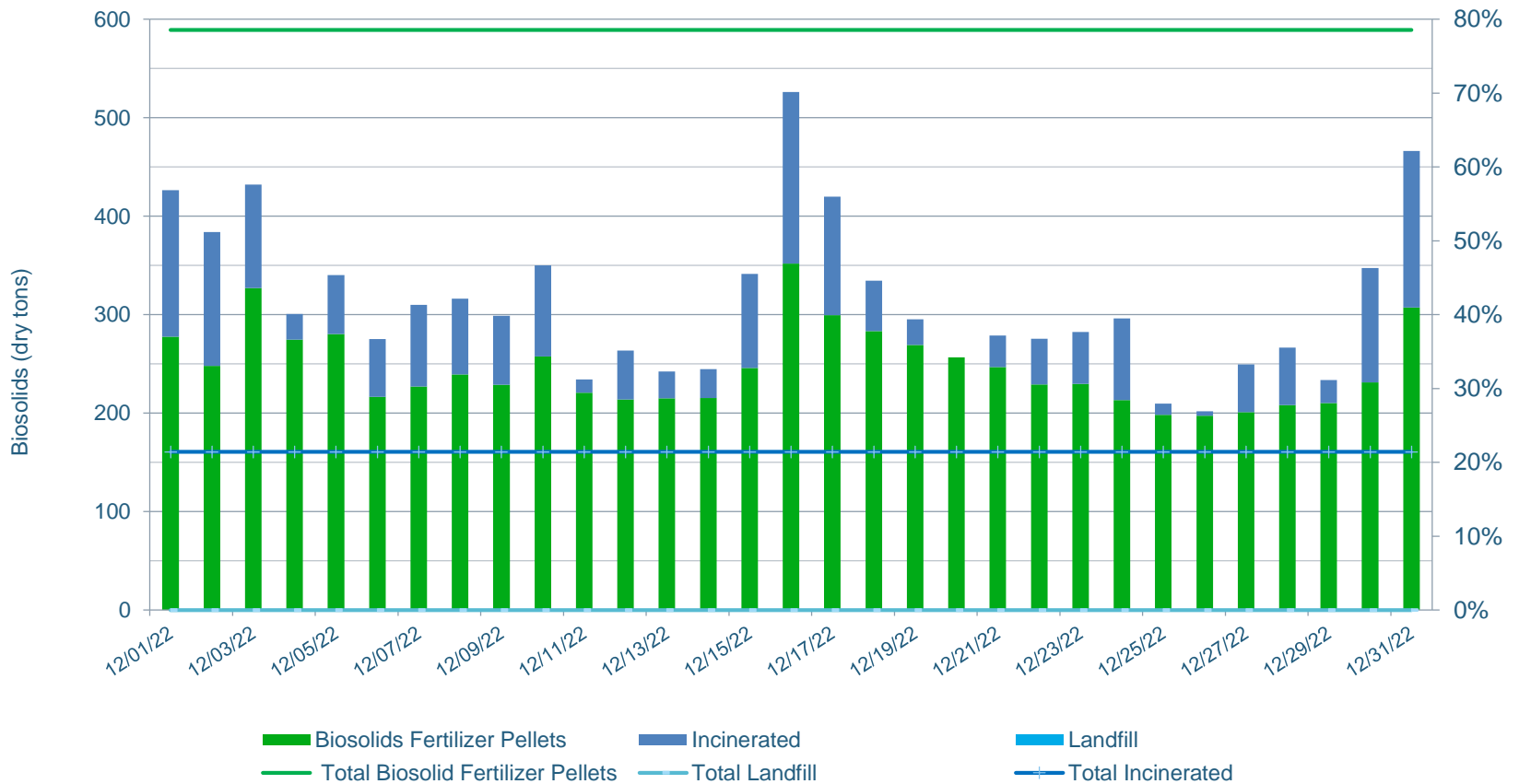


A dynamic splash of water in shades of blue, with bubbles and ripples, set against a light blue background. The water is captured in motion, creating a sense of freshness and movement.

# EUM Attribute: Water Resource Sustainability

# Water Resource Sustainability – Biosolids Handling by Method

- GLWA strives to increase nutrient recovery and beneficial reuse of biosolids.
- Use of the biosolids dryer facility for solids handling is preferred because it uses biosolids for the production of fertilizer pellets.





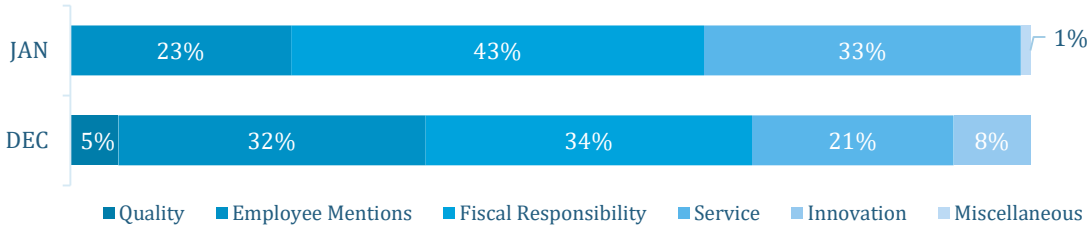
A dynamic splash of water in shades of blue, with bubbles and ripples, set against a light blue background. The water is captured in motion, creating a sense of energy and freshness.

# **EUM Attribute: Stakeholder Understanding and Support**

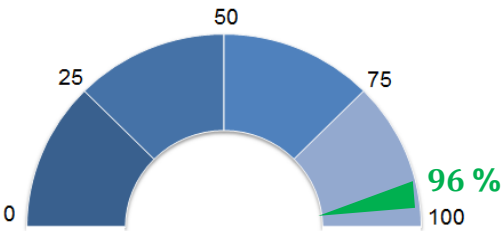
# TRADITIONAL MEDIA SUMMARY

Traditional media coverage focused on the proactive announcement about the updates to the Water Residential Assistance Program (WRAP) and [funding reallocation for Flint residents](#), in addition to proactive [severe weather alerts](#). Other coverage highlighted GLWA Chief Operating Officer Cheryl Porter being elected the next [American Water Works Association \(AWWA\) incoming president](#). Of this month's media coverage, 43 percent included cursory mentions and 57 percent non-cursory. Of the stories with non-cursory mentions, 96 percent included a GLWA quote or message.

## PERCENT COVERAGE BY MESSAGE PILLAR

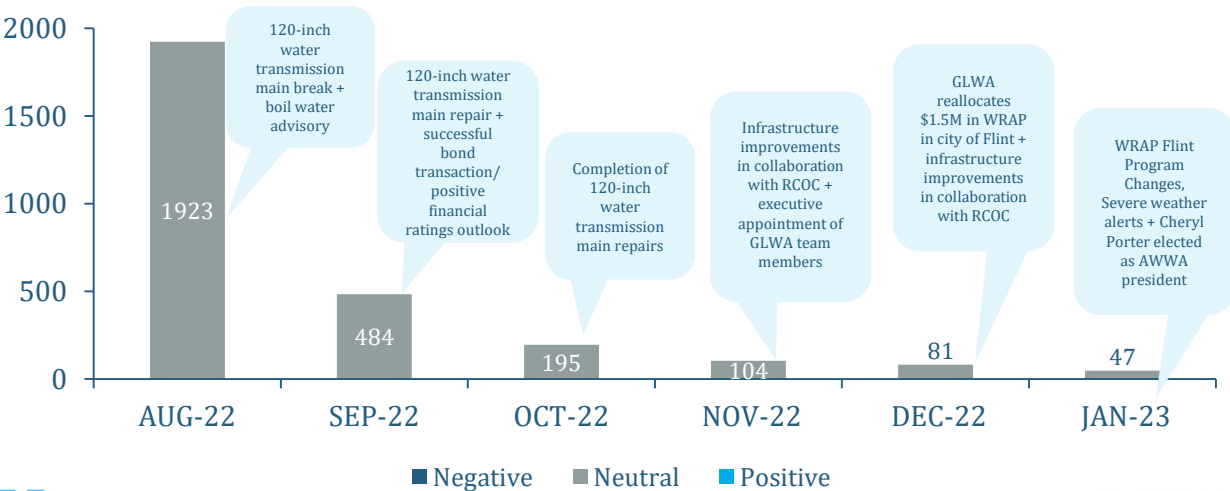


## MESSAGE PULL-THROUGH\*



**96% of non-cursory coverage included a GLWA message (GOAL = 75%)**

## MEDIA MENTIONS + SENTIMENT



**MEDIA VOLUME: 47**  
**CURSORY OR FLINT MENTIONS: 20**  
**INCLUDED GLWA MESSAGE: 27**

\*Message pull-through includes quotes or comments from a GLWA spokesperson, a quote from a GLWA press release or underlying theme of GLWA providing safe and clean water.

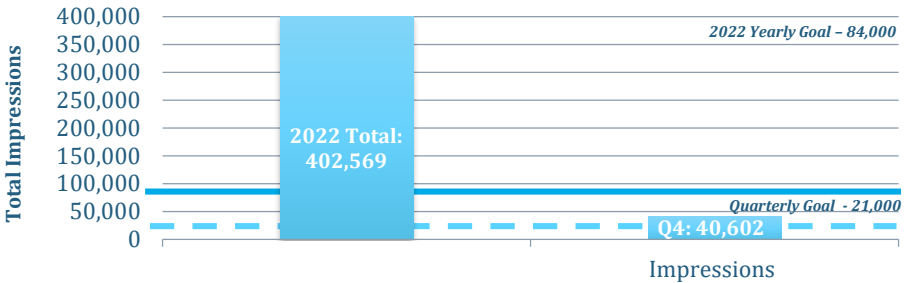


# FACEBOOK & TWITTER QUARTERLY REVIEW



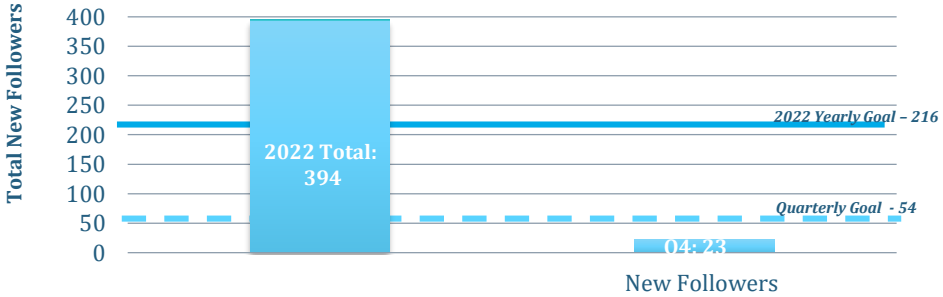
## Facebook - Total Impressions Q4 2022

- Total Q4 Impressions (40,602 total impressions)
- Yearly Goal (84,000 impressions/year)
- Quarterly Goal (21,000 impressions/quarter)



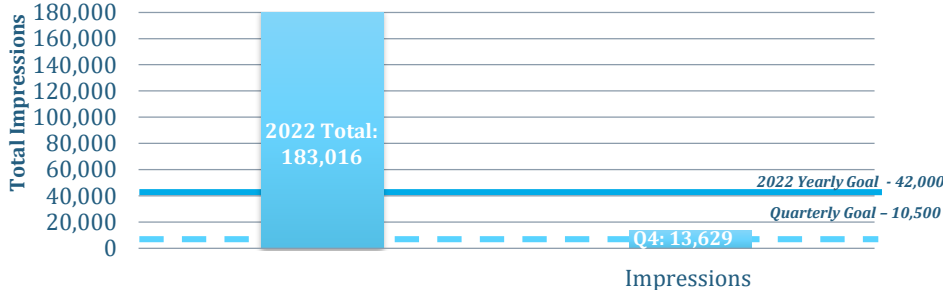
## Facebook- Total New Followers Q4 2022

- Yearly Goal (216 new followers/year)
- Q4 New Followers (23 new followers)
- Q4 New Followers (23 new followers)



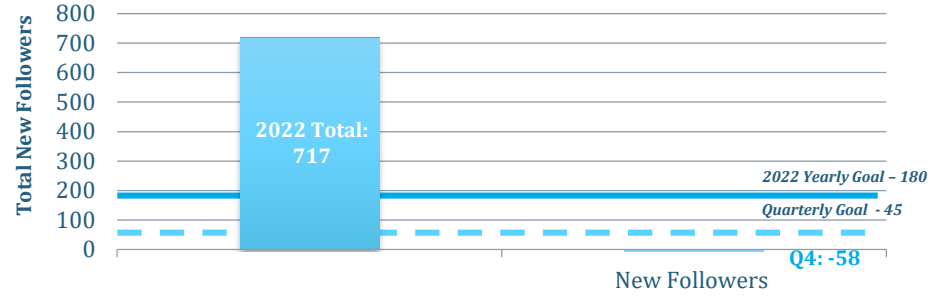
## Twitter - Total Impressions Q4 2022

- Total Q4 Impressions (13,629 total impressions)
- Yearly Goal (42,000 impressions/year)
- Quarterly Goal (10,500 impressions/quarter)



## Twitter - Total New Followers Q4 2022

- Yearly Goal (180 new followers/year)
- Quarterly Goal (45 new followers/quarter)
- Q4 New Followers (-58 total new followers)



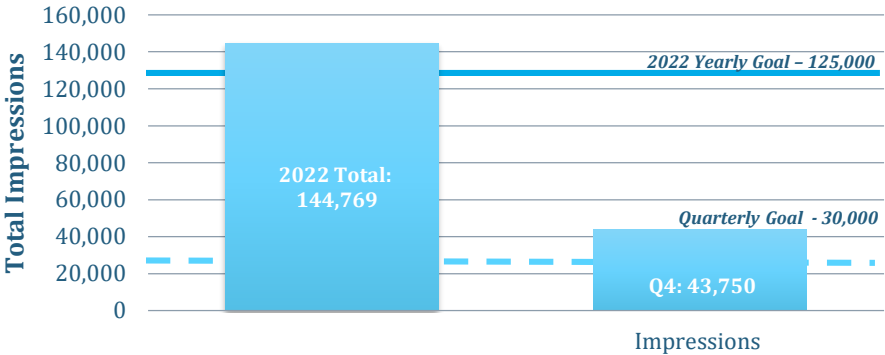
• Q4: October 2022 – December 2022

# LINKEDIN QUARTERLY REVIEW



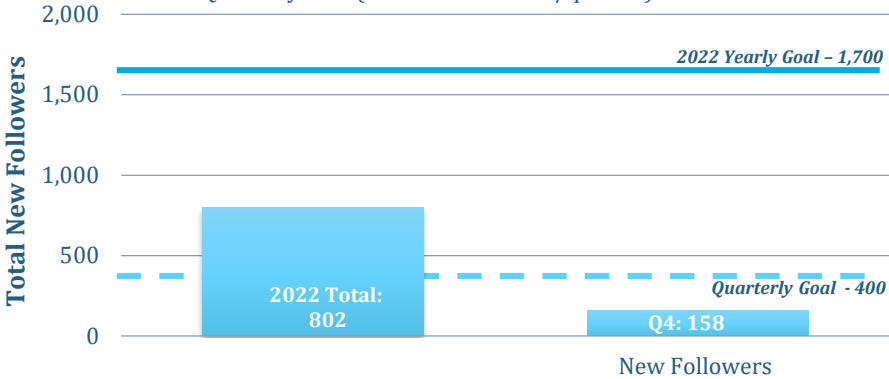
## LinkedIn - Total Impressions Q4 2022

- Yearly Goal (125,000 impressions/year)
- Quarterly Goal (30,000 impressions/quarter)
- Total Q4 Impressions (43,750 total impressions)



## LinkedIn - Total New Followers Q4 2022

- Q4 New Followers (158 total new followers)
- Yearly Goal (1,700 new followers/year)
- Quarterly Goal (400 new followers/quarter)



### Follower growth recommendations:

- Continue to share engaging visual content like videos, quote cards and GIFs, that followers can interact with.
- Continue to tag leadership and team members in posts, whenever possible, highlighting achievements and organizational activity.
- Follow and interact with key media, related organizations and government groups in GLWA’s service area and respond to comments and messages from followers.

• Q4: October 2022 – December 2022

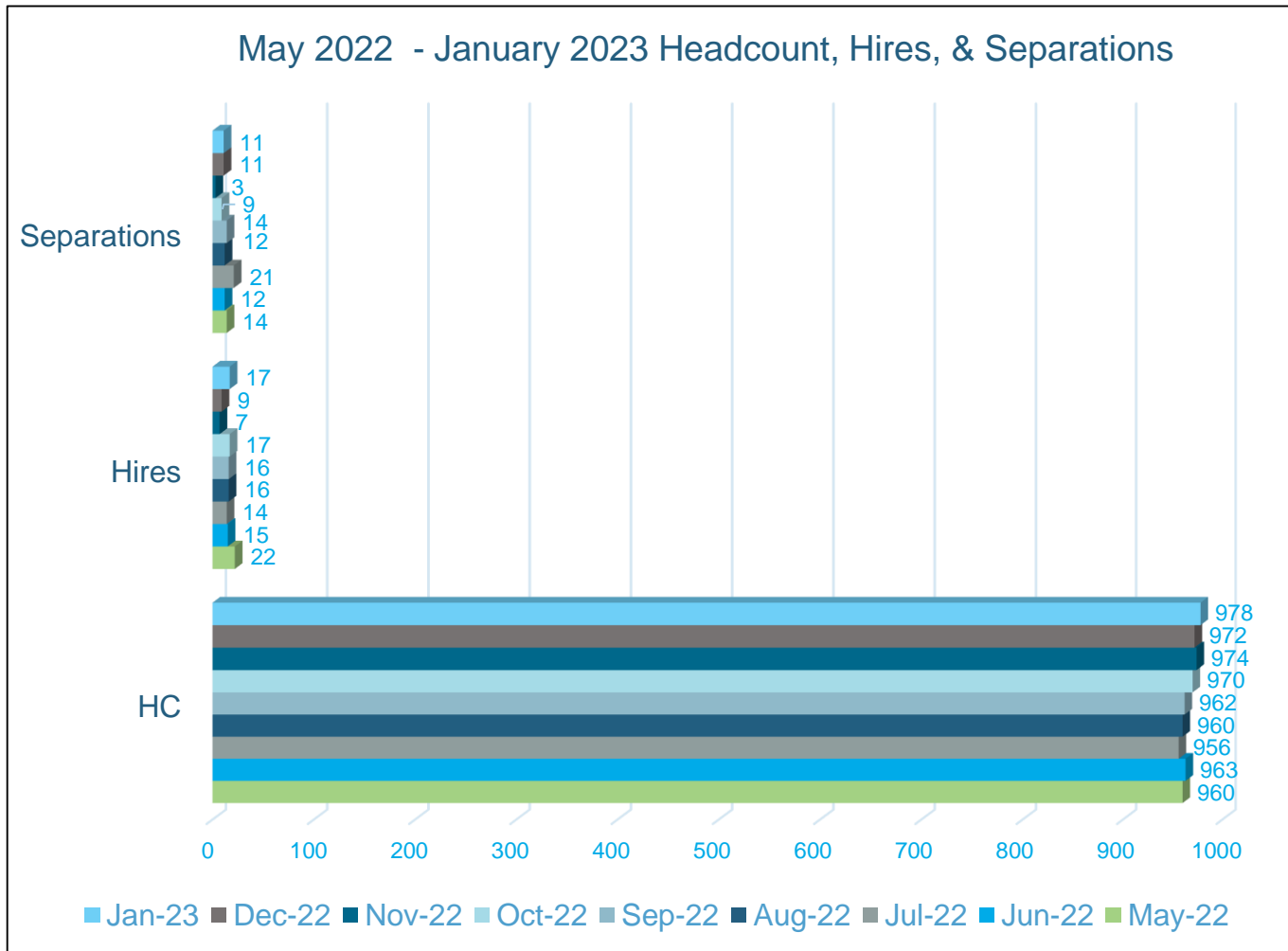


A dynamic splash of water in shades of blue, with bubbles and ripples, set against a light blue background. The water is captured in motion, creating a sense of energy and freshness.

**EUM Attribute:**

**Employee and Leadership Development**

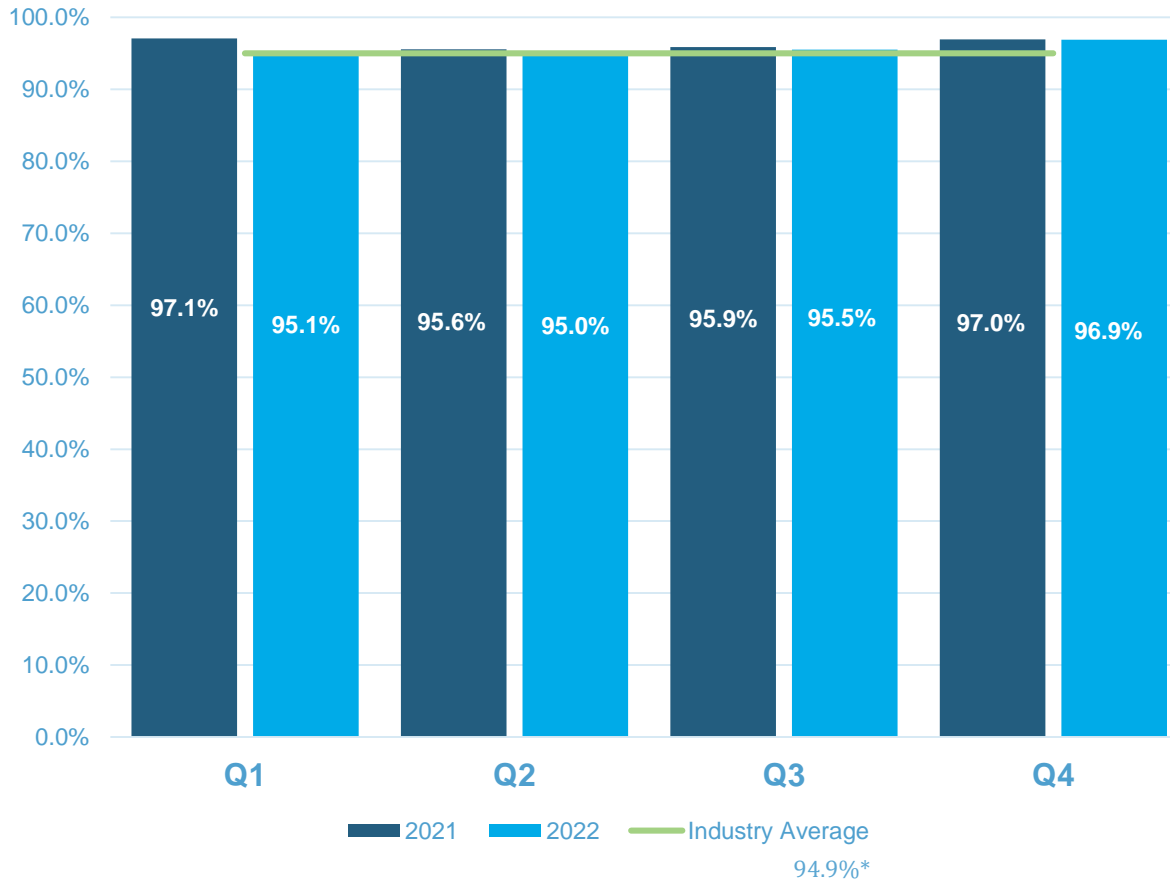
# Organizational Development



*\*Headcount is as of month end*

# Organizational Development

**Retention by Quarter**  
Team Members Employed at Quarter Start



*Above retention rates are reflected in percentages*

- Retention leads to decreased training costs, increased productivity, and cross training and development.

\*From the U.S. Bureau of Labor Statistics 10-Oct-2016 report for the sector "State and Local Government, Excluding Education."

*\*This is a quarterly slide that will next be updated in April's report.*