Office of the Chief Executive
735 Randolph Street, Suite 1900
Detroit, Michigan 48226

September 25, 2024

The Honorable
Board of Directors
Great Lakes Water Authority

RE: CEO Report – September 25, 2024

Chairperson Baker and Directors,

I am pleased to begin my report to the Board by sharing with you our 2023 Year in Review report, which gives us the opportunity to reflect on the significant events of the last year, while showing gratitude to our stakeholders and celebrating our accomplishments. The overarching theme for the 2023 report is resiliency. In my opinion, it comes down to two skills: our ability to prepare and our willingness to adapt. In 2023, we encountered new challenges with our infrastructure, but also saw the impact of our ongoing resiliency efforts as we successfully weathered a number of difficult situations. I am so proud of how our team came together in support of each other and the people of southeast Michigan – no matter the situation that was thrown at them. I'm honored to work alongside our team every day.

I hope you can take a moment to enjoy the report.

As you know, outreach to and interaction with elected officials at all levels of government remains a top priority for me in my role as Chief Executive Officer. In the last month I, along with members of our executive team, have invested a significant amount of time into these efforts.

In addition to meetings with approximately 30 state legislators held either in-person or virtually, we were pleased to have the opportunity to meet in Lansing with Phil Roos, the Director of the Michigan Department of Environment, Great Lakes and Energy (EGLE) and members of his executive team. This meeting gave us a good opportunity to not only continue to build on our EGLE relationship, but also provide an update on a number of critical projects underway at GLWA.

We also conducted the second of our twice-yearly trips to Washington, D.C. to meet with our elected officials who serve at the federal level. While there September 9-10, 2024, we met with U.S. Representatives Shri Thanedar, Rashida Talib and John James, staff from Senator Gary Peters' office, House and Senate Committee staff, and representatives from the U.S. Environmental Protection Agency. After having conducted several years of these meetings, I believe that they have been very productive in not only raising GLWA's profile, but helping our legislators better understand the critical need that exists for water and wastewater infrastructure.

I wanted to update you on two resiliency-related projects that I mentioned in my last report. First, GLWA and the U.S. Army Corps of Engineers kicked-off work on our Southeast Michigan Flood Mitigation Study with a three-day technical design charrette September 16-18, 2024. The charrette was an extremely collaborative event that brought together a variety of different points of view to assist us in creating the overall scope for the study. I want to thank the more than 50 people who came out and gave generously of their time and knowledge. I was really energized by the idea sharing and the overwhelming focus on finding solutions at the regional level.

Second, I wanted to share some details of our work related to effectuating the recommendations of our Corrosion Control Study. On Wednesday, September 4, 2024, we held a special meeting for our Member Partners where EGLE provided an overview on upcoming changes to the Lead and Copper Rule followed by Cheryl Porter, our Chief Operating Officer of Water and Field Services, providing an overview of our plan to increase the level of orthophosphate we feed into our finished water. While there is no lead in GLWA's water and no lead pipes are used in the regional transmission system, upping the orthophosphate dosage will provide increased protections and assist our member partners in maintaining compliance with the changing lead action levels set by EGLE and updates to the U.S. Environmental Protection Agency's Federal Lead and Copper Rule. The meeting was very well attended.

On Tuesday, September 24, 2024, we held a virtual media briefing to launch our public outreach about our plan to change the dosing level of orthophosphate. A host of media attended to hear our Cheryl Porter detail the change, its timeline, and what the public can expect. It is important to note that orthophosphate is a tasteless and odorless food additive, and therefore will cause no change to the water people receive in their homes. The water remains safe for consumption, as well as for household and business use. I also participated in the briefing, giving broader context on why we undertook the study that led to the change in our corrosion control strategy and our ongoing commitment to protecting public health in the region.

With the end of the summer came the wrap up of our Internship Program for the year. By all reports – from managers and interns alike – the program was a resounding success. In fact, over 70 percent of our interns received an "exceeds expectations" rating from their managers.

One unique thing that GLWA does to close out our program each year is to have the interns give presentations on their work projects during an end of summer intern meeting. It really is amazing to see their passion and enthusiasm for the project they took on.

I am pleased to report that we extended the internships of 11 of our interns into the fall, and we also hired two into full-time positions at GLWA - one in Asset Management/Planning Services and the other in Security and Integrity.

I will close out my report as I always do, raising up the achievements of our team members.

First, I want to congratulate Sonya Collins, GLWA's Procurement Director on her being named by Crain's Detroit Business as a member of its 2024 class of Notable Black Business Leaders.

We are incredibly proud of Sonya and her work here at GLWA. It is so nice to see her being recognized in this prestigious way. You can read more about it in the September 9, 2024 edition of Crain's.

Next, I want to congratulate Cheryl Porter, Chief Operating Officer, Water and Field Services for recently being honored by the Michigan Section of the American Water Works Association with two of its highest honors – the Raymond J. Faust Award and the George W. Fuller Award. An interesting point of note here is that these are two completely separate selection committees and neither knew that the other had selected Cheryl for these prestigious awards – which speaks volumes about the respect she has earned in our sector.

I also want to acknowledge the team members who work in the laboratory at our Southwest Water Treatment Plant. Thanks to their dedication, the lab recently was recognized as a Laboratory of Excellence by achieving a 100 percent rating in their WS-336 Water Supply Proficiency Test.

Finally, I want to congratulate our Research and Innovation Team for winning the Bronze Award in the International Water Association Project Innovation award category at the recent International Water Association World Congress. The award was for the "IntensiCarb" collaboration between GLWA, the University of Western Ontario, Toronto Metropolitan University, USP Technologies and Trojan Technologies. The IntensiCarb project, part of GLWA's broader research efforts to optimize municipal sludge treatment technologies, is a novel method of enhancing anaerobic digestion to increase process capacity and decrease costs. Way to go team!

PLANNING SERVICES

Enterprise Asset Management Group (EAMG)

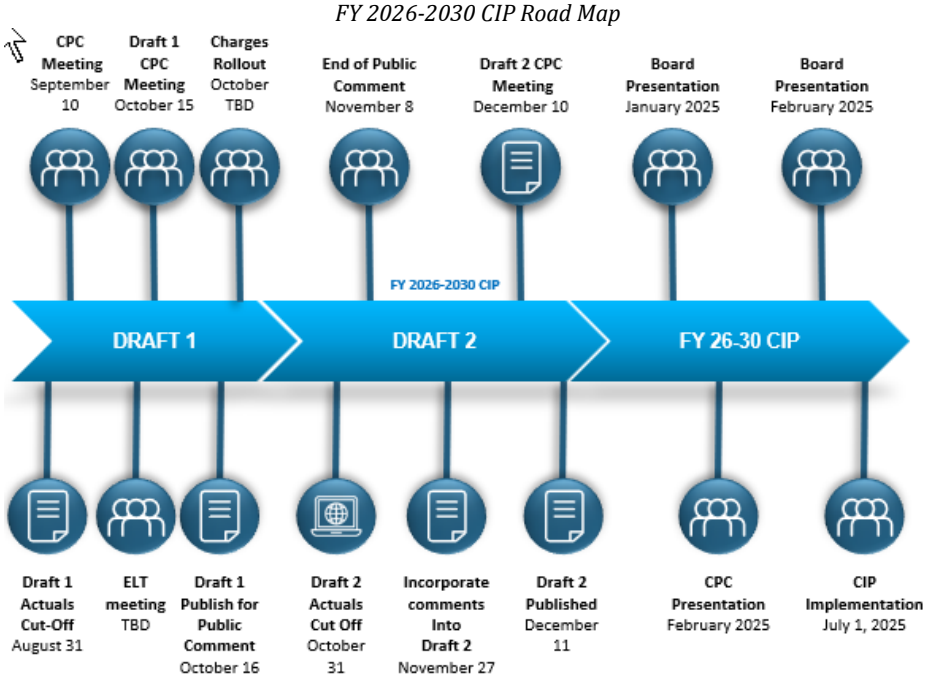
The EAMG has continued its focus on preparing for the implementation of NEXGEN, GLWA's new computerized asset/maintenance management system.

Highlights of the last month include participating and leading GLWA training sessions, working to optimize preventive maintenance strategies for GLWA's assets, continuing our asset audits, working with Wastewater Maintenance and Engineering teams to develop an equipment shutdown request process in NEXGEN and continuing our role in working with various GLWA groups for onboarding assets.

Capital Improvement Planning (CIP) Design:

The CIP development process for FY 2026-2030 has reflected considerable improvement, thanks to the dedication of the CIP Delivery Team. Throughout August, our CIP group diligently monitored and refined the FY 2025-2030 CIP program portfolios. This was accomplished by considering cost and schedule updates from relevant projects and considering the unaudited actuals at the end of FY 2024. We also spent the majority of August working with the Wastewater Team to update project budgets and forecasts to align with the financial targets set for the FY 2026-2030 CIP. To ensure that the CIP budget remains current, the CIP group will continue to collaborate closely with the Engineering Teams to refine the program portfolio as we capture project updates and actuals for July and August. The graphic below provides the remaining milestones for the FY2026-2030 roll-out and approval process.

FY 2026-2030 CIP Road Map



PLANNING SERVICES (continued)

Additionally, over the past month, Chapter 15, "CIP Planning and Development" of the Program Management Plan (PMP) was finalized and adopted. Furthermore, the CIP group completed, with the support of the CIP Satellite Team, the first update to the PMP. Even though most of the updates were minor, it was necessary to perform a midyear update given that the PMP was first launched in January 2024. In the future, these updates will be launched annually in January/February.

In August, the CIP team worked closely with GLWA's program management consultant, AECOM on the preparation of the FY 2026-2030 CIP Draft 1 document. The CIP group along with AECOM presented at the CIP work group meeting on August 13th and solicited feedback from attendees on opportunities for improving data sharing via an external dashboard that allows more flexibility in searching the CIP document.

Lastly, the team actively engaged in recruiting efforts over the past month, reviewing resumes and conducting interviews to fill key positions within the CIP Delivery Team. The CIP group successfully filled the Professional Administrative Analyst position with an external hire, Natalie White who joined the CIP Team in August and brings an extensive administrative experience. The CIP group is also recruiting for the roles of Manager of Assurances, Budget Management, and PMIS System Analyst. In August, two interviews were conducted, and one candidate has been invited to a second round of interviews.

Member Services Group

On August 22nd, the Communication and Education Work Group met to discuss ongoing initiatives and review water emergency communication resources. John Norton, Director of Research and Innovation presented an overview of GLWA's partnership with Wayne State University on a two-year program to create a Workforce Development and Pipeline Management Program, which includes large diameter pipe training and research center. The meeting continued with a round table discussion on water emergency communication resources. Boil water advisory resources were shared with members, and they were reminded that this information was available on the Member Partner resources section of GLWA's website. Bryan Peckinpaugh, DWSD Director of Public Affairs and Aubrey Ziems, DWSD Public Affairs Specialist presented the 2023 DWSD Water Quality Report. The report, which grew out of the Consumer Confidence Report requirement to provide water quality data to a water system's customers annually, was expanded in recent years to share easy-to-understand magazine-style content about the quality of water delivered by DWSD, as well as projects underway to upgrade the system's infrastructure.

DWSD 2023
Water Quality Report

PLANNING SERVICES (continued)

Additionally, the GLWA Public Affairs team discussed highlights from the 3rd Annual Friends and Family event at Water Works Park and unveiled the new, easy-to-understand video explaining the regional water treatment and distribution process: Freshwater to Drinking Water: A splash course in the treatment and distribution process. The next Communication and Education work group meeting is October 31.

GLWA Video : Freshwater to Drinking Water

The **Capital Improvement Plan (CIP) Work Group** meeting held virtually via Zoom on August 13th, began with a presentation from GLWA's CIP Director, Dima El-Gamal on the current state of GLWA's FY2024 CIP delivery, indicating GLWA has delivered water and wastewater capital improvements of approximately $177 Million and $133 Million, respectively. Dima also provided information on the development of the FY 2026 – FY 2030 CIP. This was followed by a Capital Program Management update from Mike McClure of AECOM. After a round of questions and answers from attendees, Mike Lasley provided information from GLWA's Procurement Team including details of the September 26th Vendor Outreach Event. The next meeting of the CIP Work Group is scheduled for December 3, 2024.


The watershed Hub Work Group meets with USGS in the field to tour monitoring equipment in the Lower Rouge River

The **Watershed Hub Work Group** met in the field in Dearborn on August 14 to observe newly installed water quality monitoring equipment at a sampling location on the lower Rouge River. The group was joined by several representatives from the United States Geological Survey (USGS) who are tasked with installing and maintaining the equipment, as well as sample collection and data analysis. USGS provided a demonstration of how the in-situ sampling and data transfer to their server takes place, as well as procedures for monthly grab sampling. The next meeting of the Watershed Hub Work Group meeting is scheduled for October 16, 2024.

On August 21st, the **Wastewater Best Practices Work Group** (WWBP) met on Detroit's east side near the Freud Pump Station.

PLANNING SERVICES (continued)

WWBP Work Group Members tour the Freud Pump Station

The meeting began with an update from Steven Eick of the Michigan Department of Environment, Great Lakes and Energy (EGLE) that the finalization of the Part 41 licensing rules has been delayed by a year or more. Currently, a D-class license requires secondary treatment knowledge unrelated to Retention Treatment Basin (RTB) operations. As a remedy, a separate RTB license is being proposed. Next, the group heard from Rainesha Williams-Fox of GLWA about the structure and primary responsibilities of GLWA's Conveyance and Combined Sewer Overflow group. This was followed by an overview from Zanetta Stewart of GLWA on the status and plans for the Freud Pump Station including the construction of a new pump station for redundancy that will help with the execution of maintenance at the existing station. Next, Members took turns sharing their experiences with recent storm events since the previous WWBP meeting in June. The meeting concluded with a tour of the Freud Pump Station. The group is scheduled to meet next on Wednesday, October 9th.

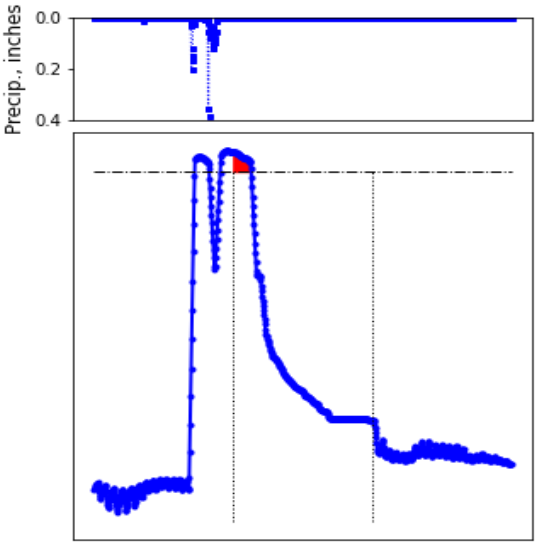
Water Analytics, Planning and Metering (WAPM)

The WAPM group is pleased to announce that based upon weekly collaboration with the City of Highland Park and their consultants, the parties agreed on the number and location of water billing meter sites to serve the City. With significant modeling of the available data, three master meter locations were recommended from the City's consultant. The proposal included two meters on the City's northern boundary (McNichols Road) and one on the southern boundary (Webb Street). Based on the best available data used to run the hydraulic model, the results of various model simulations, and the existing emergency connections, it was agreed that these locations provide the highest level of service to the City and will provide reliability for maintaining adequate service to the system during maintenance activities and unplanned events.

PLANNING SERVICES (continued)

Wastewater Analytics, Planning & Metering (WwAPM)

The WwAPM group created a data analytics and summary process to assess Member Partner wastewater exceedances. An example figure, without the flow scale and date range, is depicted here. These figures and metrics are auto-generated across a dataset and help quantify the occurrence of an exceedance relative to precipitation and assists in communicating the frequency, duration, and magnitude of an exceedance. The Wastewater Exceedance Process was introduced through the Wastewater Analytical Task Force as a method to gain a better understanding of the flow dynamics throughout the region in pursuit of improving levels of service.



Example Member Partner Exceedance

The purpose of the Southeast Michigan Flood Study is to evaluate flooding problems across Southeast Michigan and formulate alternatives to reduce flooding risk from a variety of causes such as increased rainfall intensity, duration, and frequency. The WwAPM group continues to work with the System Resiliency Group, Member Services, and the United States Army Corps of Engineers in preparation for a design charrette in mid-September. The three-day charrette has been scheduled, the agenda is set, invitations have been sent out, and we are looking forward to engaging with the numerous stakeholders to help shape the scope of work for this project!

WASTEWATER OPERATING SERVICES

Wastewater Operations

The Water Resource Recovery Facility (WRRF) operations complied with the Water Quality Standards for the month of September.

The Total Residual Chlorine (TRC) average for August 21, 2024, for Monitoring Point 049F (Detroit River Outfall) was 0.21 mg/l, in excess of the limit of 0.11 mg/l. One of four samples taken on this day reflected ongoing activities to initiate a scheduled plant shutdown. The remaining samples taken during times of routine operations did not have detectable TRC.

Also, on August 21, 2024, two Intermediate Lift Pumps tripped almost simultaneously, resulting in unauthorized discharge of Primary Effluent (PE). Approximately 0.05 million gallons of PE reached the Detroit River. Plant operations staff took steps to minimize the unauthorized discharge while maintenance staff investigated and restarted the pumps.

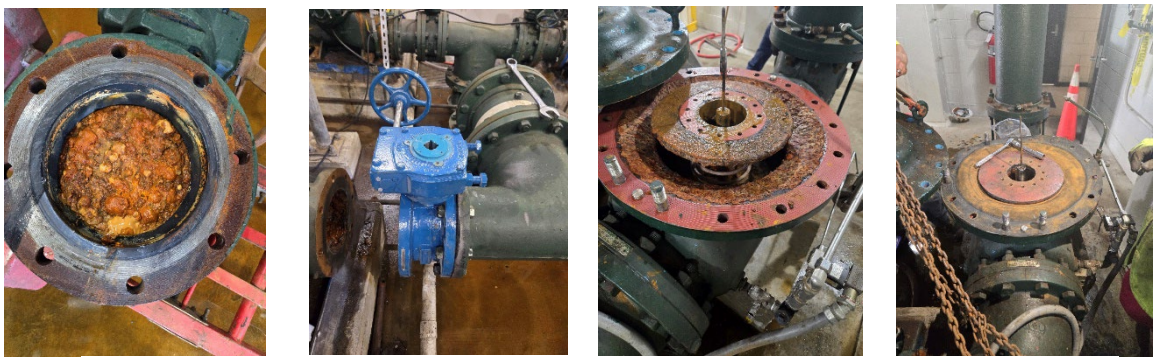
WASTEWATER OPERATING SERVICES (continued)

Maintenance

Team Leader Ray Zdonkievicz showing the new PLC display. Ray was responsible for coordinating the electric plant testing

On August 21, 2024, the WRRF experienced a complete plant shutdown to perform testing on a new Programmable Logic Controller (PLC) at Electrical Building 1 (EB-1). This testing verifies that the PLC sends the correct commands to operate the main and tie breakers as needed to ensure a continuity of power to the WRRF. Part of this test required the Maintenance Team to de-energize the entire facility to ensure the PLC would shift to the available, but unused, transformer which required the entire plant shutdown. The test was successful, and the WRRF was returned to operation!

Taking advantage of the WRRF shutdown, the Secondary Team completed repairs that also required the WRRF to shut down for four hours. These repairs were the replacement of an isolation valve for De-chlorination Booster Pump #4, and the repair of a control valve for Chlorination Booster Pump #1. The water header for these valves can only be isolated from the main meter pit that feeds the entire Chlorination/De-chlorination facility, requiring the complete shutdown of both processes to isolate the water main. Wastewater Maintenance and Wastewater Engineering are currently working collaboratively to identify a possible addition of isolation valves to allow for the shutdown of Chlorination and De-chlorination individually.

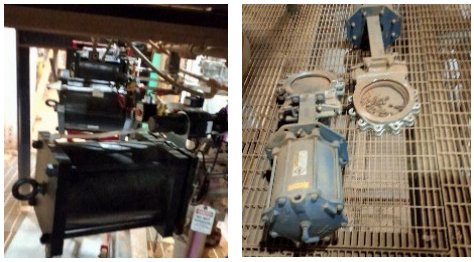


The old De-chlorination Booster Pump #4 isolation valve was removed and the new one installed is shown in the first 2 photos above.

The Chlorination Booster Pump #1 control valve shows signs of heavy scaling and corrosion before and after cleaning. The valve is now operating as designed as shown in the second 2 photos above.

WASTEWATER OPERATING SERVICES (continued)

The Incineration Team performed a replacement of the five-valve network known as the "Christmas tree" valves, that direct ash from the incinerators to either Ash Silo 4 or Ash Silo 5. The replacement of these valves required a 5-day shutdown of the entire incineration process and was completed on time and without incident. This project was coordinated and planned by Team Leaders *Richard Muntz* and *Natashea Buchanan* and was led in the field by Maintenance Technicians *Gilberto Garza* and *Kevin McGowen* with assistance by Maintenance Technician *Andrew Slusarczyk*. The team's ability to execute this complex and challenging repair on-time is commendable and limited the impact on Wastewater Operations!



Two of the old Christmas Tree valves removed and three of the new valves installed.

Laboratory

The Laboratory team is supporting the Combined Sewer Overflow (CSO) team in reorganizing and updating some CSO basin analyses areas.

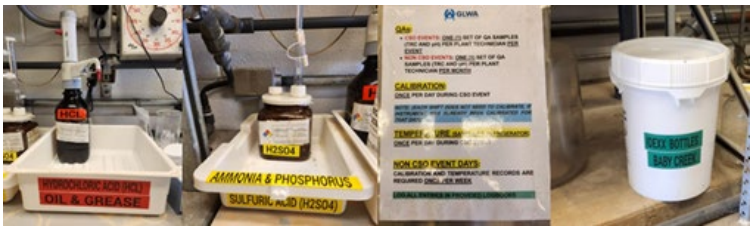


Figure 1: Baby Creek CSO basin sample preservation (left), guidance documents (middle) and new storage for fecal coliform sample bottles (right).

The Laboratory is also reviewing and adding new Standard Operating Procedures as well as providing Job Aids to the CSO team. Additional training was provided by Management Professional *Cathy Willey* on CSO specific permit requirements and by Management Professional *Lynda Kostrzewski*, Chemist *Hainite Tuitupou* and Team Leader *Beatrice Wanji* on pH and DO calibration and measurement, sampling and reagent storage.

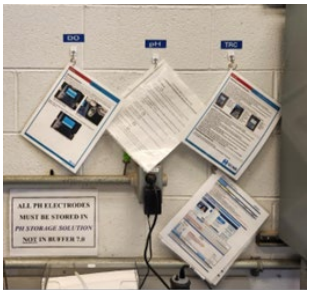


Figure 2: Baby Creek CSO basin analyses area (left) and new job aid for pH analysis (right).

The WRRF Maintenance Team is installing new sinks in several sampling areas. The sinks will be deeper to accommodate more flow from the grab lines as well as splash guards to protect the sampling chemists. This will allow better and safer flushing of the grab lines. Thorough flushing for several minutes is required to obtain a representative sample.

WASTEWATER OPERATING SERVICES (continued)

The Laboratory received two new vacuum samplers that have been installed at two process sites, Main WRRF Influent 1 and 2. We previously tested this sampler. The new versions now possess a sequential arm, providing the ability to collect 12 hour and 24 hour composite samples, a requirement for most sampling sites at the WRRF. The collected volumes so far are very accurate. Some adjustments to the plumbing may be needed to account for potential uncontrolled flow into the sampler. The currently used peristaltic samplers prevent this when the sampler pump is not active.

Figure 3: Chemist Niyla Reid operating the WAVE vacuum sampler at the Main Plant Influent 2 location.

Process Automation & Control System Team (PACS)

Operational Technology (OT)/PACs team members participated in factory acceptance testing (FAT) this month at the Commerce Controls facility in Novi, Michigan. The team inspected the network and control cabinets that would be installed at the St. Aubin and Leib facilities this fall.

Control Cabinet Testing during St. Aubin/Leib Factory Acceptance Test shown (photo blurred intentionally)

In addition to visual inspection, the team also conducted power tests, loop checks (verifying signal wiring continuity), and software integration tests during the three-day FAT.

During a planned power outage this month, the OT/PACS team successfully replaced a pair of root switches in the WRRF's secondary treatment process area. The new root switches feature advanced security features, and will serve to maintain control system communication and visibility across different areas of the plant. Additional network components are scheduled to be upgraded in the coming months.

New power transfer switches at WRRF De-Chlorination

This month, the OT/PACS team improved the resiliency of the control system at the WRRF's de-chlorination facility by installing two new automatic transfer switches and two new utility circuits to supply the main de-chlorination Programmable Logic Controller (PLC). These improvements will provide redundant 120 V feeds to the PLC, ensuring continuity of operation in case of a single supply outage.

WASTEWATER OPERATING SERVICES (continued)

Industrial Waste Control

There was a meeting that took place with the General Counsel staff on September 10, 2024, to address the submission of an amendment package to the Board of Directors regarding the GLWA (Pretreatment) Rules and Pretreatment Program.

Engineering And Construction
Wastewater Projects in Design or Miscellaneous

CIP Design:

CIP-211005 – Contract No. 2103338 – PS2 Variable Frequency Drives (*VFD) Replacement*
This design project involves replacing end of life VFD for five of the main lift pumps at Pump Station 2, and replacing four 160V electrical gear, including transformers, that will eventually power all eight main lift pumps. The 90% design review meeting was held with the designer (HDR) and GLWA staff on August 20, 2024. Comments were shared, and next steps will be discussed during the upcoming bi-weekly project meeting.

CIP 211007, Contract No. 1904337 and 2300154 – Pump Station 2 Bar Rack & Grit System Improvements
This project is to replace the current bar screens with finer screens and install an improved grit processing system. At the September Board of Directors meeting, the project team will seek approval to award the construction contract to the qualified low bidder. The notice to proceed is planned for the fourth quarter of 2024.

CIP216008, Contract No. 2000970 – Screened Final Effluent (SFE) Pump Station Rehabilitation
This is a progressive design-build project to replace the SFE building and equipment. The new SFE system will give the WRRF redundancy for sources of utility water, improving resilience of the facility. The contractor has submitted a lump sum price proposal for the second phase of the project. In August, GLWA held workshops with the contractor to clarify and negotiate the proposal, including the plan for measurement and verification of the operational savings of the new facility.

CIP 222001, Contract No. 2304897 – North West Interceptor (NWI) to Oakwood Combined Sewer Overflow (CSO) Sewer
At the August Board of Director's meeting, the recommendation of awarding this Contract to Jay Dee Contracting for $73M (Engineers Estimated Opinion of Project Cost was $87M) was approved. Contracts are being prepared for signatures and the notice to proceed is scheduled to be issued approximately the middle of October 2024. The property and easement acquisition are ongoing. Public outreach with District 6 businesses, residents, and governments is ongoing for both the Right-of-Way (ROW) vacation and the upcoming construction.

WASTEWATER OPERATING SERVICES (continued)

CIP 260201, Contract CS-168 – Rehabilitation of Conveyance System Interceptors and Trunk Sewers
Completion of the Resident Project Representative for the rehabilitation of NWI and the warranty inspections of the rehabilitation of Outfall B-39 and the rehabilitation of NWI are the only tasks now remaining under CS-168.

CIP 260619, Contract No. 2004538 – St. Aubin, Leib and Seven Mile CSO Instrumentation and Controls Replacement
This design-build (DB) project will replace the end-of-life control system with a new Ovation control system at three CSO facilities. Witnessed hardware FAT for St. Aubin began in August and will conclude in the second week of September 2024. GLWA and the DB Team continue to work together to review the last of the control panels and address programming and networking requirements for Leib and St. Aubin. Witnessed hardware and software FAT for Leib which is scheduled for the third week of September 2024, while construction activities are expected to increase at Leib and St. Aubin thereafter.

CIP 260701, Contract 1803709 – Conveyance System Infrastructure Improvements
The remaining scope of this engineering contract includes construction assistance from two separate construction contracts. CON-2102859 has been making progress with newly constructed backwater gate chambers and is expected to reach substantial completion in December 2025. CON-2201142 has been making progress with the repair/replacement of critical mechanical components in the in-system storage devices and repairs to the inflatable dams. Substantial completion is expected in March 2025. Contract No. 183709 also includes the construction of a river gauge house on the Detroit River. Construction of the gauge house is set to begin later this year, pending property/easement acquisition.

CIP260210 - 2201041 - Ashland-Linwood-Lonyo-2nd Av-Shiawassee (ALL2S)
The design of the proposed work on these five sewer sections is at 90%. The future construction projects will be broken into two separate projects. The Lonyo sewer is its own project with an Engineers Estimated Opinion of Project Cost of $26M. The Lonyo has an estimated three years of work to complete with two permanent access hatches and debris removal being planned from Patton Park. The other four are an estimated $12M in work and more in line with other sewer rehabilitation project scopes. Public outreach has begun for all five projects.

CIP 260904, Contract No. 2200545 - Professional Services for 3rd Floor Renovation at WRRF New Administration Building (*NAB)*
This project will renovate the third floor of the NAB to maximize and optimize the space utilization of the building as part of the Wastewater Master Plan. The consultant has submitted the 95% construction development documents and specifications. The project team will continue to incorporate feedback from various stakeholders and finalize contract drawings before going to Procurement this fall.

WASTEWATER OPERATING SERVICES (continued)

CIP 270006, Contract 2200061, Design Services of CSO Facilities Improvements II
This project optimizes disinfection and screening at St. Aubin, addresses fall protection safety requirements at all nine CSO facilities and rehabilitates architectural deficiencies at all nine CSOs. The 90% deliverable is currently under review by GLWA.

CIP 270010 – Contracts 2401360 – Puritan Fenkell and Seven Mile HVAC Upgrades
The scope of work includes upgrading the HVAC systems at both Seven Mile and Puritan Fenkell CSO Facilities. Request for Proposal documentation is being finalized and will be advertised this fall.

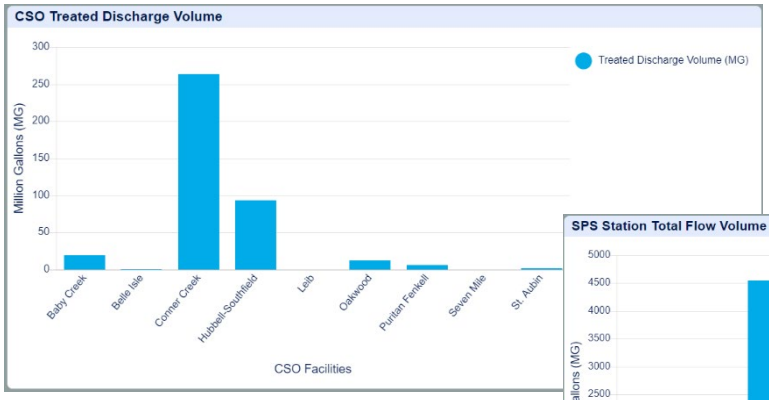
CIP 273001, Contract No. 2103225 – Hubbell-Southfield CSO Facility Improvements
Wade Trim (WT) is progressing toward the 60% design milestone and planning to submit design documents for GLWA's review in early October 2024. A meeting with Dearborn was scheduled to discuss the scope of the work.

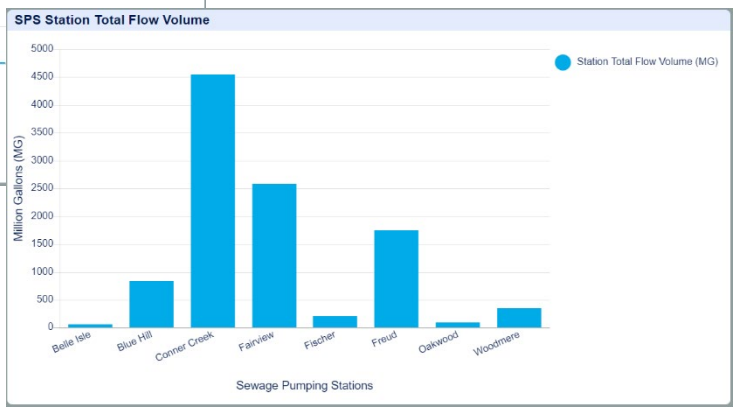
Combined Sewer Overflow (CSO) Control Program

CSO Operations Maintenance and Conveyance

The month of August was dry with only two discharges occurring at the beginning of the month. Plant technicians responded to the weather events occurring on August 2, 2024, and August 6, 2024. There was a combined overflow of 397 million gallons of treated discharge.

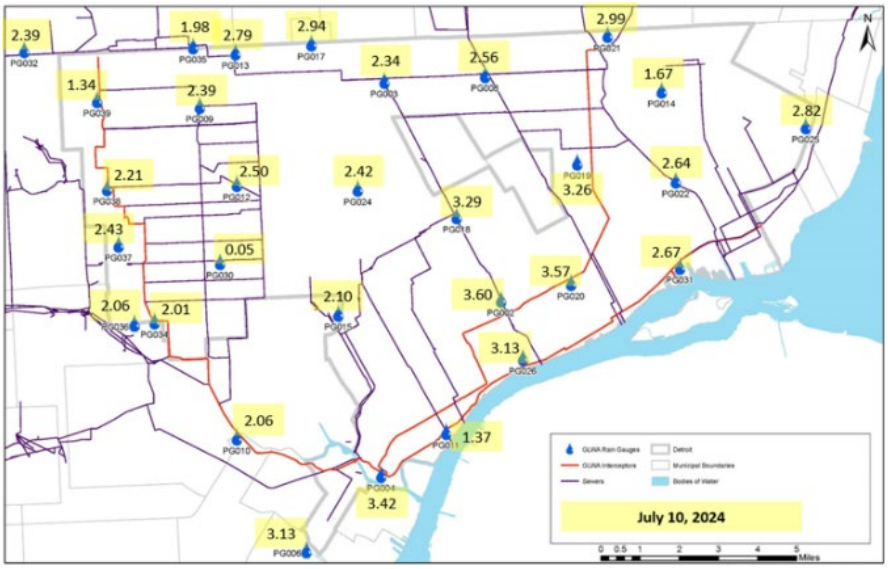
Conner Creek, Freud and Fairview facilities continued to provide pumping capacity during the storms as well as support for the ongoing Detroit River Interceptor.



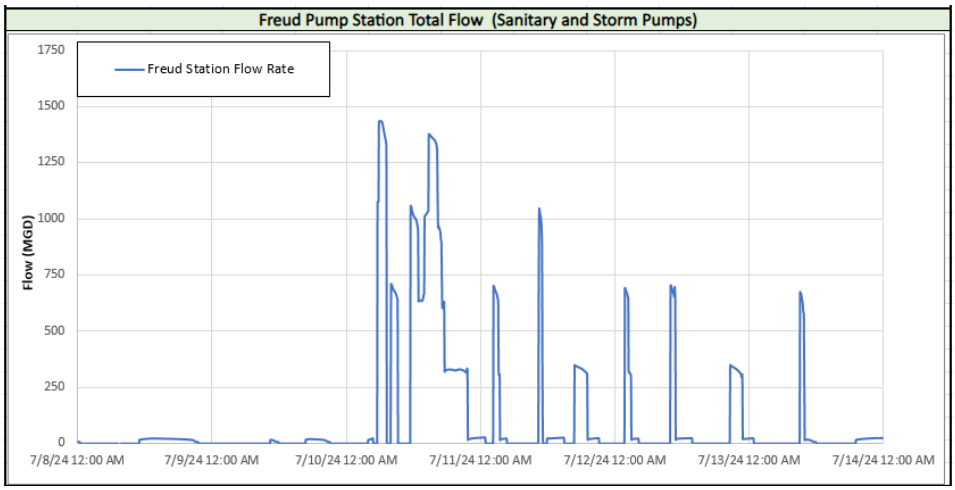


WASTEWATER OPERATING SERVICES (continued)

The Wastewater Conveyance-CSO team conducted a post event analysis for a large storm which occurred in July (it typically takes about a month to collect data and schedule the workshop). The post event analysis workshops are hosted by our vendor, Wade Trim, to discuss how well the conveyance system performed during medium to large storms. During the workshops, the performance of the RTB, sewer pump stations, interceptors and level sensors are discussed. These workshops are also a learning session where GLWA's O&M team have the opportunity to see how well they performed. An example of some presentation content is below:



Rainfall from precipitation gauges



WASTEWATER OPERATING SERVICES (continued)

Filling and Overflow Period	
Event Date (Post Event Report)	7/10/2024 #1623
CSO Facility	Hubbell-Southfield RTB, VR-8, DR01
Rain Gage(s)	PG012
Total rainfall (in)	2.53
Peak Hour Rainfall (in/hr)	0.53
Rainfall Start	7/9/24 11:20 PM
Rainfall End	7/10/24 3:45 PM

Hubbell - Southfield RTB			
Peak inflow (cfs)	1332.8	Influent Volume (MG)	344.5
Peak Outflow (cfs)	1270.7	Effluent Volume (MG) (Calculated)	324.0
Peak Shunt Flow (cfs)	31.7	Shunt Channel Volume (MG)	0.1
Captured Volume (MG) - Calculated		20.5	
Reported Treated Discharge Volume (MG)		286 MG (Post Event Report #1623)	

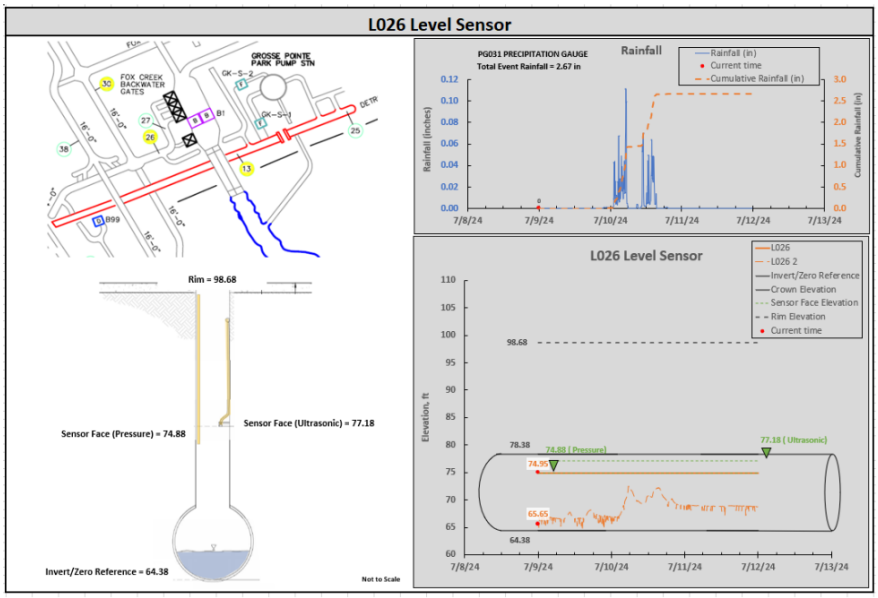
The Wastewater Conveyance-CSO team also can compare their performance to the National Pollutant Discharge Elimination System (NPDES) permit as well as the Interim Wet Weather Operations Plan. The post event lessons learned, lead to follow-up action items as necessary.

Hubbell-Southfield CSO contract underwent a reliability centered design/reliability centered maintenance workshop for its design build contract. The purpose of the workshop is to bring operations and maintenance team members together with the design and engineering team to discuss a maintenance strategy for equipment upkeep. This gives GLWA's O&M and leadership team the opportunity to weigh in on the asset management component of the design improvement.

GLWA hosted this quarter's Wastewater Best Practices Work Group. Regional stakeholders from the city of Dearborn, Macomb, Oakland and Wayne counties were in attendance. The group discussed the most recent wet weather events, lessons learned and updates on the new Freud sanitary station. A tour of the Freud storm/sanitary station was conducted afterward.

Our first of several Conveyance System Monitoring Tools training was conducted at Conner Creek retention basins (RTB). These monitoring tools provide GLWA's leadership and O&M staff with more real time information during wet weather events. Team members can view the conveyance levels in the interceptors and track ongoing sewer flow. This is another method of how GLWA is equipping our team with more instruments, thus making GLWA a more resilient organization.

<u>WASTEWATER OPERATING SERVICES</u> (continued)



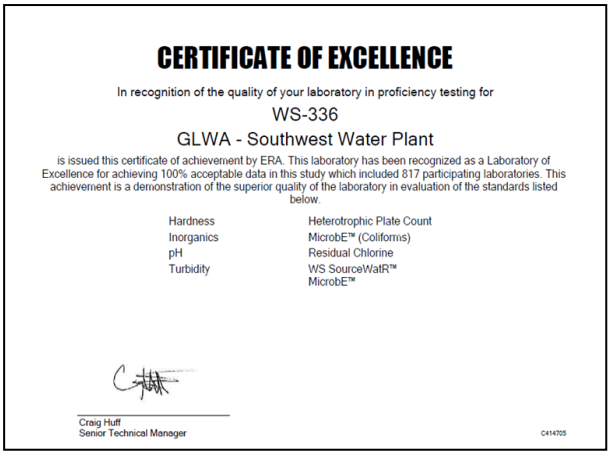
GLWA Wastewater Conveyance-CSO and Field Services team joined in the quarter two Quality Assurance/Quality Control workshop. This workshop is conducted quarterly and informs the two teams about the compiled data from the CSO's, Sewage Pumpstations and outfalls pertaining to discharges, and wastewater pumping during storm events. Data is also evaluated to determine how well the level and flow sensors performed during the previous quarter.

Opportunities for follow-up to address any abnormalities, if necessary are discussed as well.

Special recognition goes to WRRF Laboratory leadership team, *Andrea Busch*, *Lynda Korstrzewski* and *Beatrice Wanji* for assisting CSO operations in lab operations. *Andrea*, *Lynda*, and *Beatrice* have visited CSO laboratories, provided updates and recommendations for a more functional lab. The efficiency of the CSO operational laboratory provides the CSO team with the capability of meeting the NPDES permit by performing proper analysis for our treatment process.

WATER AND FIELD SERVICES

Southwest Water Treatment Plant



CERTIFICATE OF EXCELLENCE

In recognition of the quality of your laboratory in proficiency testing for

WS-336

GLWA - Southwest Water Plant

is issued this certificate of achievement by ERA. This laboratory has been recognized as a Laboratory of Excellence for achieving 100% acceptable data in this study which included 817 participating laboratories. This achievement is a demonstration of the superior quality of the laboratory in evaluation of the standards listed below.

Hardness	Heterotrophic Plate Count
Inorganics	MicrobE™ (Coliforms)
pH	Residual Chlorine
Turbidity	WS SourceWatR™ MicrobE™

Craig Huff
Senior Technical Manager

C414705

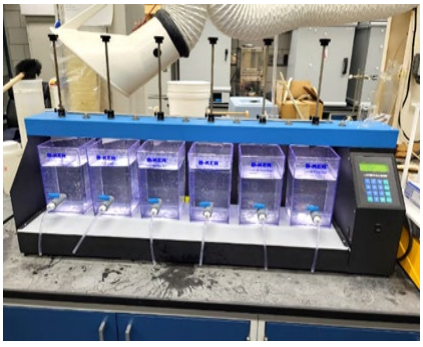
The Southwest Water Treatment Plant Laboratory received the results from a recent WS-336 Water Supply Proficiency Test. This test is designed to be an extensive measurement of water quality, covering hardness, inorganic compounds, pH, turbidity, and others. It is a great pleasure to announce that the Southwest Water Plant laboratory has been recognized as a Laboratory of Excellence by achieving an acceptance rating of 100%. This means that our laboratory was well within the acceptable limits in every category. This outstanding accomplishment demonstrates the wide breath of knowledge shown by our chemists as well as their dedication and hard work.

Water Work Park Treatment Plant

Jar Test for Optimum Coagulant Dosage at Water Works Park Water Treatment Plant

The jar test is a common laboratory procedure used to determine the optimal dosage needed to achieve effective coagulation of a particular coagulant for water treatment process. In this test, usually six jars are taken and filled with raw water and added a range of coagulant like alum to each jar. Each jar is mixed vigorously at the same time for about a minute and then the jars are allowed to settle with reduced mixing speeds and finally allowed to settle down with no mixing for the floc formation.

After the settling period, the jars are observed for the clarity of the water and the turbidity values are recorded. The jar with the best clarity and largest floc formation indicates the optimal alum dosage. Based on the results of the jar test, the appropriate alum dosage to use in full-scale water treatment processes can be determined. We are dosing slightly higher to remove total organic carbon. It is important to note that the jar test is a preliminary test and the results obtained may need to be further optimized in a pilot scale test or full-scale implementation.



Jar testing at Water Works Park

<u>WATER AND FIELD SERVICES</u> (continued)

Water Quality

Lead and Copper Sampling

The Water Quality team started delivering lead and copper sampling kits to our member partners. The lead and copper sampling kits include 1,000 mL plastic bottles, labels, and instructions on how to collect the sample. This is required by the Environmental Protection Agency (EPA) in all communities on a water distribution system supplied by surface water. Water Quality chemist process samples for lead and copper levels. The action level for lead is 15 parts per billion and the action level for copper is 1.3 parts per million. Lead and copper season begins June 1 and ends September 30. Thank you to the Water Quality investigators for doing a great job of packing and delivering kits.

Pictured left to right: Lead service line, cooper service line, and sampling kit

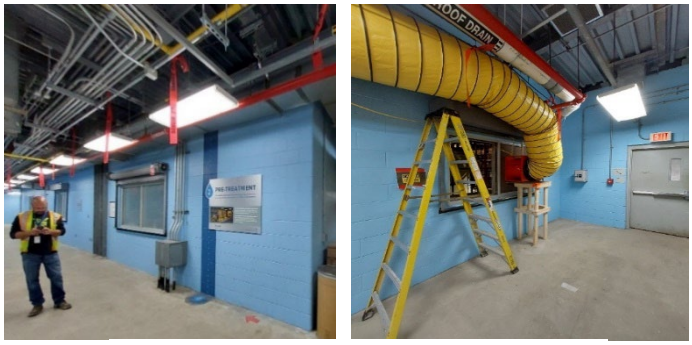
Facility Operations

Overhead Door Repairs

Facilities and Secure Door just completed evaluation of the 23 fire doors at Water Works Park in the Viewing Gallery. These doors protect staff exiting during a fire emergency. The fire doors need to be repaired to allow them to function properly, and the current closing devices also need to be replaced because they no longer meet code for fire shutters.

To repair and outfit all 23 doors with code compliant devices will be expensive. Facilities will meet with the plant manager and water operations to discuss the scope and estimate for these services.

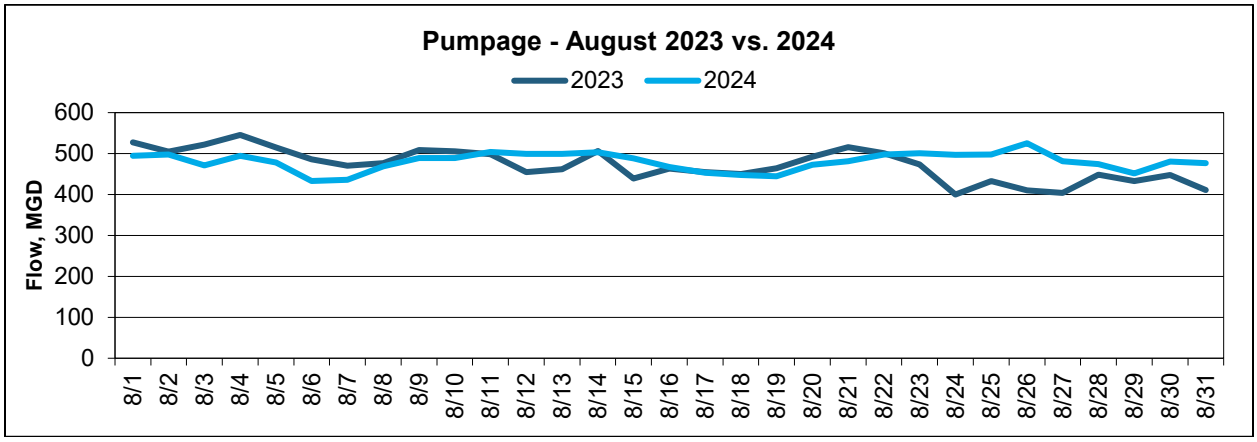
WATER AND FIELD SERVICES (continued)



Evaluation of existing fire doors/shutters

Systems Control Center (SCC)

There was a 1.9% increase in pumpage in August 2024 compared to August 2023



Research, Innovation & Transformation

Interns

At Water Works Park Pilot Plant, intern, Haley Grooms, is continuing her research on the top 400 publicly owned treatment works. She has been trying to build an extensive profile on each of the 400 plants as well as create a "bridge" between these utilities and GLWA. The data is in preparation of an EPA study on per- and polyfluoroalkyl substances concentrations in wastewater influent. Per- and polyfluoroalkyl substances are an emerging group of chemicals that are exceptionally problematic due to the health risks connected and their difficulty in treatment. The EPA wants to get a better understanding of where these chemicals are coming from, how to mitigate the spread, and what different plants are doing to monitor this.

WATER AND FIELD SERVICES (continued)

Haley's role is to get the background on each plant to enrich the EPA's data when it is released. Haley is trying to encourage other utilities to collaborate with us and share data, which has been exceptionally difficult.

Additionally, Haley is building a sampling profile for the three water treatment plants that pull their intake from the Detroit River (Water Works Park, Springwells, and Northeast). Every Tuesday, she will arrive at the pilot lab early to begin calibrating all the instruments the interns will be using. From there, they go into the basement of Water Works Park to collect samples from different points in the treatment process (raw, settled, filtered, and finished). After that, the interns split into groups of two (Mary Dunne and Vera Denison, Jean-Paul Zoorob and Haley) to collect the same samples from Springwells and Northeast treatment plants. Once they return to the lab, Haley run tests for turbidity and potential of hydrogen. This week, Haley collected samples as well as started to input the results into her spreadsheet to measure trends. Brown & Caldwell is also asking for bi-weekly samples of raw intake water, so Haley has reached out to Vera and Mary to help them out on Monday mornings.

The Research and Innovation team held its annual Summer Internship Presentations. This year's presentations, like the previous year, centered on the various projects and tasks performed by each intern as well as their experiences and overall professional development. This year, the interns were involved in tasks that supported some major projects of the group such as: Drinking Water Treatment Assessments and Optimization, Pilot Plant Rehabilitation and Utilization, Hydrothermal Liquefaction of Wastewater Sludge, Forecast Model Development of Primary Flow Rate, Publicly Owned Treatment Works PFAS (per- and polyfluoroalkyl substances) Data Acquisition, and Historical Data Visualization and Analysis. The interns received great feedback on their respective projects and were generally encouraged.

GLWA wins Bronze in the International Water Association "Project Innovation Award" Category

GLWA's Research and Innovation team is proud to announce they won the Bronze award in the International Water Association Project Innovation Award category at the recentlo International Water Association (IWA) World Congress held in Toronto. The award, recognizing innovative projects and developments, was for the "IntensiCarb" collaboration between University of Western Ontario, Toronto Metropolitan University, USP Technologies, Inc., Trojan Technologies, Inc., and the Great Lakes Water Authority.

WATER AND FIELD SERVICES (continued)

The IntensiCarb project, part of GLWA's broader research efforts to optimize municipal sludge treatment technologies, is a novel method of enhancing anaerobic digestion to increase process capacity and decrease costs.

Engineering

Water Engineering Active CIP Project Status

CIP# 122013 (Contract No. 2004456) 14 Mile Transmission Main Loop- Phase II
Project Manager: Pete Fromm
This construction project is at 90% complete. The new 54-inch transmission main has been installed, and the connections to the 8 Mile transmission main and the connections to the Haggerty Booster Station have been completed. The new 54-inch transmission main is being pressure tested, disinfected, and bacteriological tested. Final surface restoration (roadway) is being completed on Meadowbrook Road from 12 Mile Road to 13 Mile Road in the City of Novi. Final testing of the control valve station at the Haggerty Booster Station is planned once all pipe segments have been disinfected and tested. Project is still on schedule for late summer 2024 completion.

CIP# 119009 (Contract No. 1803990) Lake Huron High Lift and Yard Piping Improvements
Project Manager: Brian Vanhall
This project at Lake Huron Water Treatment Plant adds three pumps that are each rated for 20 million gallons per day, a 72-inch flow meter on the south high lift header with an 84" butterfly valve for isolation, 16" flow metering for process water usage by the plant, blowoff on the south high lift header, infrared heating within the pump building on the south side, and a replacement valve actuator on the 84-inch butterfly valve on the north high lift header. Construction for the south header improvements is forecast to be completed in the summer of 2024. Installation of the new high lift pumps and associated construction has been delayed by the pump supplier and a forecast is to be determined.

WATER AND FIELD SERVICES (continued)

CIP# 112006 (Contract No. 1904231) Northeast Flocculator Replacement
Project Manager: Brian Vanhall
This project at Northeast Water Treatment Plant replaces flocculator equipment in all four basins, demolishes inlet gates to each flocculation chamber and installs a baffle block at each basin inlet for flow distribution, improves access to the drywell with stairs and platforms to access the new flocculator gearmotors and replaces the access hatches to the inlet gates in each basin. This project is in the construction phase and flocculation improvements have been completed for Basin #3. Flocculation improvements for Basin #2 are next and are forecast to be completed in the summer of 2024. The project is on track for overall substantial completion on July 13, 2026, and final completion by March 18, 2027.

CIP# 122004 (Contract No. 2300600) 96" Water Transmission Main Relocation- Phase II
Project Manager: Corey Brecht
Project is in construction phase. The scope consists of approximately 8,000 ft. of 96-inch diameter welded steel pipe along Dequindre Road. in Rochester Hills which is divided between North Dequindre and South Dequindre segments. Currently the contractor has installed approximately 5,900 ft. of transmission main along the south segment of the project heading to Hamlin Road. South Dequindre Road is planned to be restored by October 2024 (approximately five months ahead of schedule). Contractor has begun preparatory activities on the north segment of the project in anticipation for pipe installation to begin in October 2024. The entire project is currently on track to be completed by fall of 2025.

CIP# 122004 (Contract No. 2100998) 96" Water Transmission Main Relocation Pipe Procurement
Project Manager: Corey Brecht
This contract is a material purchase with Northwest Pipe Company for the 96-inch spiral welded steel pipe. Currently Northwest Pipe Company is fabricating and delivering Phase II pipe for the contractor involved with Contract No. 2300600. The fabrication and delivery has increased to approximately 78% complete.

CIP# 122004 (Contract No. 2303968) 84-inch Triple Offset Ball Valve Procurement
Project Manager: Corey Brecht
This contract is a material purchase for Phase III of CIP #122004 – 96-inch Water Transmission Main Relocation Project. The material purchase includes two 84-inch triple offset ball valves that will be provided to the Phase III contractor for installation. The lead time of these valves was between 66 - 80 weeks from start of the shop drawing process and is the primary reason why GLWA pre-purchased these valves. The contract is currently in the submittal review process.

CIP# 122004 (Contract No. 1900741) Professional Engineering Services for the Design and Construction of the 96-inch Water Transmission Main Relocation
Project Manager: Corey Brecht
This contract provides engineering and construction assistance services for the entire 96-inch Water Transmission Main Relocation Project (Phase 1-3).

WATER AND FIELD SERVICES (continued)

The consultant has also completed the draft for the Design Build Request for Proposal package for Phase III that is scheduled to be advertised in September.

CIP# 122006 (Contract No. 1803621) Wick Road 48-Inch Water Transmission Main
Project Manager: Corey Brecht
Project is in construction phase. The work included installation of approximately 16,500 ft. of 48-inch diameter prestressed concrete cylinder pipe parallel to the existing 42-inch transmission main. The scope also included two cross connections and tie-in at the Wick Road Pump Station. All 16,500 ft. of pipe is installed, and all pavement restoration has been completed along with punch list items. Pending Final Pay Application and Closeout Request.

CIP# 111001 (Contract No. 1803769) Lake Huron High Lift, Low Lift, and Wash Water Pumping and Switchgear Improvements
Project Manager: Eric Kramp
This project provides engineering services to address long-standing issues with the switchgear, low lift, high lift, and corrosion control at the Lake Huron Water Treatment Plant. For the updates to the switchgear and low lift pumping improvements, the consultant has provided a 60% Design Package which has been reviewed and a 90% design package will be forthcoming. The Basis of Design Report for the High Lift Pump Station has been reviewed and returned, and the 30% Design Package was received mid-July 2024. The Basis of Design Report for phosphoric acid improvements have been received and incorporated into the High Lift Pump Station Project. The high lift pumping and phosphoric acid improvements projects may be combined and modified to create cost overall savings on this CIP project.

CIP# 111006 (Contract No. 2101680) Lake Huron Filter Instrumentation and Raw Water Flow Metering Improvements
Project Manager: Eric Kramp
This is a progressive design build project to address outdated and failing programmable logic controllers and controls throughout the plant, with particular emphasis in the filter building. The project is approximately 60% complete with Phase I. GLWA has reviewed and commented on the 60% Design Deliverable package and has returned it to the Contractor. The Contractor has provided the 90% Design Documents which are currently under review by GLWA. GLWA and the Contractor have begun discussions on the Phase II Cost and Pricing Agreement.

CIP# 111012 (Contract No. 2004549) Lake Huron Flocculator Improvements
Project Manager: Eric Kramp
This project is to bring the rapid mix and flocculation systems at the Lake Huron Water Treatment Plant to current standards. This project is in the study phase, with piloting of a mix of hydraulic and mechanical flocculation underway. A pure engineered hydraulic flocculation solution could not be proven through piloting.

WATER AND FIELD SERVICES (continued)

Once sufficient data is collected, GLWA will meet with the Michigan Department of Environment, Great Lakes, and Energy (EGLE) to confirm that the preferred technological solution will be acceptable to the jurisdictional authority. The engineer is developing a presentation for EGLE on our recommended solution.

CIP# 170801 (Contract No. CS-151A) Reservoir Inspection and design at Imlay, Lake Huron Water Treatment Plant, Springwells Water Treatment Plant, Southwest Water Treatment Plant
Project Manager: John McCallum
This project is the design, inspection and construction management/resident project representation services for 10 finished water reservoirs. Design started in December 2018 and as-built drawings are in process now. All 10 reservoirs have been inspected and as-built documents are being prepared. The contract had one change order for additional resident project representation services. The project remains on budget and is ahead of the contract final completion date of January 17, 2025.

CIP# 170801 (Contract No. 1900744) Reservoir Rehabilitation Construction Project at Imlay, Lake Huron, Springwells, and Southwest Water Treatment Facilities.
Project Manager: John McCallum
This low bid project is to clean and rehabilitate 10 finished water reservoirs based on the design package provided in Contract No. CS-151A. It started in November of 2019 with punch list items getting wrapped up this winter. The project remains on budget and is ahead of the contract final completion of January 17, 2025.

CIP# 170802 (Contract No. 2100236) Reservoir Rehabilitation Phase II (Design), Booster Stations and Water Treatment Plants
Project Manager: John McCallum
This project provides the design, inspection services, construction management, and project representation services for 16 of the system finished water booster stations. Started in July 2022 with design and exterior inspections. Resident project representation services are being provided on the first three reservoirs of the contract during the 2023-2024 low water demand season and will continue through 2027.

CIP# 170802 (Contract No. 2201316) Reservoir Rehabilitation Phase II (Construction), Booster Stations and Water Treatment Plants
Project Manager: John McCallum
This project is the low bid construction component based on Contract No. 2100236 bid package to clean, repair, and add select improvements to 16 finished water reservoirs at Eastside, Wick Road, Schoolcraft, Haggerty, Adams Road, Joy Road #1 & #2, North Service Center #1 & #2, Water Works Park #1 & 2A/2B, Northeast #1 & #2, Michigan Avenue, Lake Huron #3. The project started in December 2023 with the first season of interior rehabilitation work at Wick Road, Eastside, and Schoolcraft completed and the reservoirs are back in service. Exterior improvements will continue throughout the summer. Next fall another four reservoirs will be taken out of service for work.

WATER AND FIELD SERVICES (continued)

The last of the 16 will be completed in the 2026 - 2027 outage season with final contract completion in July 2028. The contract is on budget and time.

CIP# 114002 (Contract No. 2201068) Springwells Electrical Gear Replacement
Project Manager: Justin Kietur
This project is in construction phase. Project involves installation of new medium voltage switchgear and cabling from secondary side of GLWA transformers to the switchgear, and from the switchgear to the Low and High Lift Pumps and plant unit substations. Demolition for new switchgear room is complete, and the majority of cable tray within existing facility is complete. Site civil work for new electrical duct banks and utility bridge is underway. Revised drawings for DTE required changes to the switchgear have been issued to the contractor with additional cost and schedule impacts to the contract to be determined.

CIP# 115005 (Contract No. 2103880) Water Works Park Ventilation System Improvements
Project Manager: Mike Dunne
The project goals are to increase air exchanges and improved distribution of fresh air in areas of the plant that are susceptible to an accumulation of off-gassing from treatment chemicals. To achieve these goals, the existing heating, ventilation, and air conditioning (HVAC) systems will be demolished, and replacement and additional HVAC systems will be installed. The new HVAC systems consist of gas fired makeup air units, exhaust fans, ductwork, natural gas piping, ventilation control panels, electrical power, ambient air monitors and associated appurtenances. Construction crews have placed and commissioned all HVAC units in the north chemical, flocculation/sedimentation, and ozone areas. Three-fourths of the new ventilation has been completed in the filter area. Crews have moved their focus to the south chemical area and are targeting a November 27th completion date.

CIP# 116005 (Contract No. 2101255) Belle Isle Seawall Rehabilitation
Project Manager: Mike Dunne
The scope of the Belle Isle Seawall Rehabilitation project is to correct excessive erosion at the tip of the southern dike of the Belle Isle Intake lagoon. The erosion has been caused by years of ice floes scouring the dike and recent high-water events. The repair work will require the installation of new steel sheet piling and a rip-rap stone revetement to protect the earthen dike. The contractor has installed all four coffer cells and sheet piling that will serve to protect the shoreline at the tip of the southern dike from erosion. The next step of construction will be to place rip-rap and armor stone to build a revetement for further protection of water and ice erosion. The project is on track to be completed by the end of the 2024 calendar year.

CIP# 132016 (Contract No. 2004674) North Service Center Pumping Station Improvements
Project Manager: Tim Kuhns
Conceptual design for the project has been completed. Project will include rehabilitation of the existing station as Phase I of the project with Phase II of the project to include new reservoirs and reservoir pump house. The design phase for the replacement of line pumps and switchgear has commenced.

WATER AND FIELD SERVICES (continued)

CIP# 114017 (Contract No. 2201255) Springwells Flocculator Improvements
Project Manager: Pete Bommarito
This project replaces the existing horizontal paddle wheel flocculators in the four treatment trains of the 1958 treatment plant and adds continuous turbidity monitoring of its settled water. Flocculators are currently being manufactured for delivery with installation scheduled in Basins 5 and 6 beginning in the fall of 2024.

CIP# 116002 (Contract No. DB-150) Raw Water Tunnel Rehabilitation
Project Manager: Pete Bommarito
Project is in construction phase. Work within the Pennsylvania Tunnel and Northeast Tunnel is complete. Work within the Springwells Raw Water Tunnel has also been completed for this low demand season. The contractor, Ballard Marine Construction has successfully removed the Ballard Underwater Ring Transporter from the Springwells tunnel and temporarily closed off the access shafts for the high demand season. The contractor will return next low demand season (October through April) to continue installation of the stainless-steel rings.

CIP# 115001 (Contract No. 2000610) Water Works Park Yard Piping Replacement and Water Production Flow Metering
Project Manager: Mike Garrett
Project is in construction phase. Project involves complete replacement of yard piping, valves, and venturi meters for the piping system on the discharge of the Water Works Park High Lift Station. The eastern yard piping is completed and venturi meters 5 and 6 have been tested and put into service. The western yard piping is currently under construction and will be completed in summer of 2025. Construction of valve vaults and venturi meter vaults continues at pace in the western yard.

CIP# 122019 (Contract No. 2204376) Jefferson Main Replacement
Project Manager: Tim Kuhns
Project is at 90% design phase. Project involves use of 42-inch, high-density polyethylene fit slip-line approximately three miles of vintage 1915 cast iron 48-inch piping along Jefferson between Water Works Park Water Treatment Plant and Rivard Street just east of downtown Detroit. The Act 399 permit is pending with the State of Michigan. Prior to commencing construction, the City of Detroit has to complete a 16-inch set of parallel mains from Water Works Park to Rivard. Construction for this project will not commence until FY2028.

CIP# 132015 (Contract No. 1901767) Newburgh Booster Pumping Station Improvements
Project Manager: Jorge Nicolas
Project re-started design phase after a long pause due to finding the right site to build the new station, GLWA's budget re-alignment and GLWA's needs re-assessment. Contract Amendment is complete, and design is in progress.

WATER AND FIELD SERVICES (continued)

CIP# 113009 (Contract No. 2300730) Southwest Chain and Flight Upgrades
Project Manager: Vittoria Hogue
Project mobilized on March 4, 2024. Temporary lighting is being installed and equipment is being delivered to site and modifications in the first basin are being completed. Project involves removing and replacing flight and chain equipment in three of the four sedimentations basins at Southwest Water Treatment Plant. Equipment will be removed in basin 1A and removed and replaced in basins 1B and 2A.

CIP# 122016 (Contract No. 1803942) Downriver Transmission Main Loop
Project Manager: Vittoria Hogue
Phase I of the project is at 90% design, Phases II and III are at 60% design. Project involves installation of looped and redundant mains in the downriver area along Inkster Road and Allen Road to maintain service in the event of a break along the existing mains. Phase I involves the installation of a transmission main along Inkster Road. It was decided in the beginning of March to increase the size of the main from 30 inches to 42 inches to maintain minimum contract pressures. The original design intent was to prevent boil water advisories in the event of a main break. The consultant has submitted the proposal for the additional scope for the requested change. GLWA is in the process of reviewing the document. Phase I construction will be ready for bid advertisement in spring of 2025.

CIP# 132010 (Contract No. 1803312) West Service Center Pumping Station – Reservoir, Reservoir Pumping, and Division Valve Upgrades
Project Manager: Michael Garrett
Project is in construction phase. Project involves new reservoir pumping facility as well as new reservoirs and improvements to various existing yard valves. Construction is nearing completion. Startup and training have begun. Testing of new facilities and equipment began in March 2024 in which testing was completed successfully and was turned over to Systems Control Center for operational control. Demolition of existing reservoirs expected to begin after a 30-day test. Substantial completion scheduled for September 2024. Final Completion scheduled December 30, 2024. Site acceptance test for Ovation was completed, project will be moving into 30-day test this month. The cut and cap procedures for the reservoir had to be placed on hold until after peak season.

CIP# 132007 (Contract No. 1900516) Imlay Station Pumping Improvements
Project Manager: Vittoria Hogue
Project involved right sizing pump 3 at Imlay Pump Station to service the communities west of the station. All equipment has been installed. Upon further investigation, a discussion after the remote testing and the 30-day acceptance test was unsuccessful, it was discovered that Flint uses significantly less now than in 2019, when the project was designed. The pump, as it is currently designed, cannot supply below 10 million gallons per day (MGD), and Flint's current daily range of flows is 7 MGD – 14 MGD. Discussions of installing a recirculation line to send access flow into the reservoir are being had. The contractor is developing a change order to extend the contract and add funds to the contract to cover the additional work.

WATER AND FIELD SERVICES (continued)

Contract No. 2303227 Task Order Engineering Services Contract Task T2-13
Project Manager: Jorge Nicolas
Arcadis is assigned to prepare technical specs for Division 26 (Electrical) and Division 40 (Process Integration). Work is ongoing. Burn & McDonell is assigned to assist in Ovation related reviews. Work is on-going.

SYSTEM RESILIENCY

The Office of System Resiliency (OSR) creates, manages and implements initiatives that increase GLWA's capacity to prevent unplanned disruptions, and to recover and learn from them when they do occur. The office has three directors focused on Systems, Operations, and Energy.

Energy Management

OSR Energy and Water Engineering staff met with DTE and ITC at ITC's Novi Headquarters to continue GLWA's efforts to understand and improve our power resiliency efforts. ITC is responsible for the transmission of power between the points of generation and distribution as provided by DTE and Consumers Power in Michigan. The purpose of the meeting was to discuss potential expansion of ITC high voltage transmission facilities to select large power usage facilities at GLWA to improve the overall power feed reliability.

The visit also included a tour of ITC's System Operations Center to understand how they manage power transmission and balance demands with production for wind, solar, and conventional power production facilities.

Knowledge Capture

Two additional videos focusing on wet weather management are finishing final production and will be released this month.

The podcast series, "Pod Sustain GLWA" with members of the Water Transmission and System Control Center groups continues to meet on a bi-weekly basis to further promote discussions and knowledge transfer. The podcast forum has low administrative overhead that preserves the conversation for others interested in how the Water Transmission system works. The second podcast focused on the lessons learned during the 14 Mile water main breaks and repairs that occurred 2017 and 2021. The Water Explorers shared a collective story of GLWA resiliency as it addressed and resolved the main breaks. Discussion topics included: valve isolation, flow rerouting with member partner collaboration, building trust with impacted homeowners, improvements in GIS technology, innovations in main inspection, identifying the root cause of breaks, and the importance of after-action communication and reporting.

SYSTEM RESILIENCY (continued)

For the third podcast, we focused on "Valve Exercising at GLWA - A Success Story!" In 2017, GLWA launched a continuous process improvement program on the more than 10,000 valves in its water transmission system. In this podcast, the Water Explorers share a collective story of how GLWA's valve exercising program used the results of pilot program to create a streamlined program to validate location, assess condition, and confirm operability of its 10,000 valves in just three years.

Systems Resiliency

Anthony Troy, Manager of the Systems Control Center, and Todd King, System Resiliency Officer, attended the AWWA Water Infrastructure Conference in Phoenix, Arizona. This conference brought together experts from across the water sector to explore pressing issues and strategies for sustainable water infrastructure management.

Courtesy: Ad Shadat, Appia Solutions

Todd presented "Standing up a Resiliency Team at the Great Lakes Water Authority," to highlight the progress GLWA has made in its inaugural year of implementing CEO Coffey's vision of improving our organizational resiliency.

Flood Resiliency

This month GLWA and the US Army Corps of Engineers (USACE) conducted a three day planning charrette to kick off the Southeast Michigan Flood Resiliency General Investigation study. The extensive planning charrette brought together key stakeholders to establish the broad goals and objectives of the work at SEMCOG's facilities. The public signing ceremony is scheduled for September 30th. Planning, Public Affairs, and Member Outreach are supporting Resiliency and USACE to ensure all interested parties participate in this important study.

Resiliency Summit

OSR continued to collaborate with several University of Michigan offices to design and deliver an educational summit on power and water resiliency in the utility space. The effort is solidifying with participation from DTE, Consumers Power, and ITC. The tentative dates are January 29 - 30, 2025, at U of M's Ann Arbor North Campus. Stay tuned for more details as we endeavor to improve resiliency at the power-water nexus from applied and academic perspectives.

INFORMATION TECHNOLOGY

IT Security

In the past month, the IT Security Team has proactively blocked or thwarted 46,043 spam messages, 17,826 spoofed messages and 41 viruses. Additionally, 9,191 phishing attempts have been caught and 5,929 malware attempts have been blocked.

IT Business Productivity Systems

The IT Business Productivity Systems team continues to stabilize the Workday implementation post Financial go-live that occurred on July 1. This includes responding to access modification requests, integration stabilization, new or modified reports, and other configurations.

IT Enterprise Asset Management Systems

The IT Enterprise Asset Management Systems Team along with our consultant partner, NEXGEN, and GLWA's Enterprise Asset Management Group completed the Train-the-Trainer and Power User training sessions in August. Train-the-Trainers and Power Users will partner with the Project Management Team to train team members throughout GLWA in both tablet and web workflows on how to successfully use the configured NEXGEN system for the November 2024 go-live. Team Leader and Planner training will be completed in September. Technician training is commencing in September and ongoing through October. Refresher training will be provided for those who received training earlier on and who requested it prior to go-live. A post-go live support and training plan are in development to prepare for providing robust assistance during the post-go live stabilization period. In addition, final data migration is on-going and integration cutover tasks are being planned.

A video, titled "The Future of Asset Management" was developed to introduce the final NEXGEN training phase before go-live and highlight the change and opportunity that GLWA team members will encounter through transition to NEXGEN. Thanks to Public Affairs and Enterprise Asset Management Group for their efforts in producing the video in addition to Chad Cogar, David McCord, and Doretta Catchings for their positive yet realistic interviews and messages shared in the video.

INFORMATION TECHNOLOGY (continued)

IT Customer Service Delivery

The IT Customer Service Delivery team in collaboration with the IT Business Productivity Systems Team and the IT Infrastructure Delivery Team completed the Granicus Legistar upgrade prior to the previous version being decommissioned by the vendor. Legistar is the application used by GLWA to produce agendas, meeting minutes, documentation, and other content for the Board of Directors, Legal Committee, Capital Planning, and Operations & Resources Committee meetings.

IT Project Management Office (PMO)

Currently, the IT PMO is managing 21 active projects and is processing eight project requests. The PMO is also assisting with 15 initiatives.

PUBLIC AFFAIRS

TAP IN 2.0 Launches

GLWA's Public Affairs team is proud to have launched TAP IN 2.0 on Monday, September 9, 2024! The innovative recruitment campaign showcases the awe-inspiring scale, complexity and impact of our vital work, with an emphasis on GLWA's commitment to environmental stewardship. TAP IN 2.0 highlights the dedicated team members who safeguard public health every single day, demonstrating that a role in the water sector is more than just a job – it's a mission.

You can find the TAP IN campaign online through digital ads and social media, on TV (Comcast and streaming), at movie theatres (local Emagine and Emagine-operated theatres), on your favorite podcasts and radio shows (iHeart Media), and in print all around town! To view the new commercial, click HERE.

Above are examples of the different types of print materials used in the campaign

PUBLIC AFFAIRS (continued)

Freshwater to Drinking Water: A Splash Course in the Treatment and Distribution Process

Public Affairs has released a new video in collaboration with our passionate Water Operations Team called "Freshwater to Drinking Water: A Splash Course in the Treatment and Distribution Process!" This companion piece to the Emmy-award winning video "Where Does the Water Go" explores the processes, technology, and individuals behind the clean and safe drinking water running from your tap.

Public Affairs has shared the video with communities and public access stations across Southeast Michigan for their use.

You can watch the video by clicking HERE.

NexGen Video

Public Affairs collaborated with Information Technology (IT) to create a new video on NexGen, GLWA's new Enterprise Asset Management System. NexGen will streamline the way we manage our assets, maintenance activities and warehouse, while empowering GLWA team members to make better decisions through dashboards, reports, and long-range asset planning. The video shows the new excitement around NEXGEN implementation and details how the software's capabilities will streamline our processes.

CLICK HERE to watch the video.

PUBLIC AFFAIRS (continued)

Crain's 2024 Notable Black Business Leaders

Public Affairs is proud to have authored a winning nomination for Sonya Collins, Director of Procurement, to be named one of Crain's 2024 Notable Black Business Leaders! This prestigious recognition highlights those who demonstrate exceptional leadership through influential, innovative, bold and strategic vision.

Public Affairs also created a congratulations advertisement (pictured right) that was published in Crain's to complement the announcement.

MI-AWWA Communications Presentations

Public Affairs team members Curtis Burris-White and Stefanie Burns attended the 2024 American Water Works Association (AWWA) Michigan Section's MI-ACE conference to support the Communications Council with production initiatives, and run a pre-conference workshop on social media. In addition, Curt and Stefanie led a presentation discussing GLWA's recruitment initiatives through the TAP IN multimedia campaign.

SECURITY AND INTEGRITY

The Hazmat Unit coordinated and completed a total of 684 hours of training during the month. The group also had a total of 922 total training hours for the month of August.

The group rolled out the QR code for the "See Something/Say Something" program with Public Affairs for GLWA team members.

Security and Integrity continued the "Run, Hide, Fight" active shooter training for all GLWA team members.

Lastly, Security and Integrity has distributed the 2024 issue of GLWA's Emergency Response Plan to assigned GLWA staff.

ORGANIZATIONAL DEVELOPMENT

Performance Team

Internships

The 2024 Summer Internship Program was a success for managers and interns. Managers highlighted the interns' innovative ideas and fresh perspectives, which enhanced team dynamics and productivity. During the Intern Final Review, over 70 percent of the interns received an "exceeds expectations" rating from their managers.

The interns presented their work projects during an end of summer intern meeting. Their creativity, dedication, and fresh perspectives added significant value to GLWA.

Throughout the summer interns:

- Successfully contributed to organizational projects and gained hands-on experience. Participated in workshops and training sessions to enhance their professional skills.
- Met with assigned mentors who provided guidance and support.
- Interacted with GLWA Executive Leadership Team members and discovered the meaning of "One Water, One Team".

During the Intern End of Program Survey, all interns responded that GLWA's internship program met their expectations, and that they would participate in the program again if they were able to. They thought the program was great in furthering their career development and helped them achieve their goals. Interns reflected on the positive experience, with many praising GLWA's welcoming culture and the opportunity to make meaningful contributions.

GLWA extended the internship program into the fall for eleven interns. The program was extended based on organizational need and intern availability. Two interns have also accepted full-time positions at GLWA.

Apprenticeships

Terrell Dockery, Maintenance Technician Apprentice, completed GLWA's four-year Maintenance Technician Apprenticeship Program.
He was awarded the United States Department of Labor (USDOL) certificate of completion and the certificate of completion from Henry Ford College (HFC). Mr. Dockery graduated from the apprenticeship program at HFC with honors and has now accepted a full-time position with GLWA as a Maintenance Technician.

Candice Hobson, Manager – Water Maintenance, Terrell Dockery, Maintenance Technician Apprentice Graduate, and Reginald Bryant, Team Leader

ORGANIZATIONAL DEVELOPMENT (continued)

Four new apprentices were onboarded for the Electrical Instrumentation Control Technician – Instrumentation (EICT-I) apprenticeship program.

Performance Management

The FY25 Baseline Goal Planning Review cycle concluded.

BENEFITS AND WELLNESS

Team Member Engagement – Benefits, Well-being, and Resiliency

Physical Well-being

GLWA Women's Health Initiative

The GLWA Women's Health Initiative quarterly event was held at the Wayne County Community College District (WCCCD) Curtis L. Ivery Health and Wellness Education Center (HWEC), with **20** GLWA team members in attendance for yin and hatha yoga classes.

Our very own, Phyllis Hurks, Director of Strategic Workplace Relations, was one of the yoga instructors. Team members also enjoyed health-focused refreshments and a time of networking to destress and promote team building.

Drop 5 Virtual Weight-Loss Community

Held Thursdays at noon, the July Drop 5 Community facilitated by the BCBSM well-being team, helped team members learn what to look for in a walking shoe, low-impact, high-intensity workouts, the health benefits of organic tea, how to identify problems with the Bristol Stool Chart, and they experienced a sound bath class,

August webinars comprised subjects on What to Look for in a Walking Shoe, Virtual Sound Bath Class, Trending: Low-Impact, High-Intensity Workouts, Cindy and Marissa Visit an Organic Tea Farm, and Dr. Parker Discusses the Bristol StoolChart.

ORGANIZATIONAL DEVELOPMENT (continued)

Mental Well-being

Transformation Thursdays – Caregiver Series

The Transformation Thursdays for the month of August gave 27 GLWA team members caregiver resources and support from the *Rosalynn Carter Institute for Caregivers (RCI)*, which promotes the health, strength, and resilience of all caregivers at every stage of their journey. The series covered the following topics:

- Let's Experience: So, You're a Caregiver, Now What?
- Let's Learn: Caregiving Across Cultures
- Let's Take Action: From Burnout to Blossom

Ulliance Life Advisor EAP

115 team members were served during the first half of 2024. Of over 140 services rendered, the top three concerns were legal, work-related and depressed mood.

There is a **13.9% engagement** rate among GLWA team members. This is significantly above the 2021 national engagement rate which rose to 9.7%.

70.6% of team members accessed Ulliance Life Adviser EAP for the first time during the January – June 2024 period.

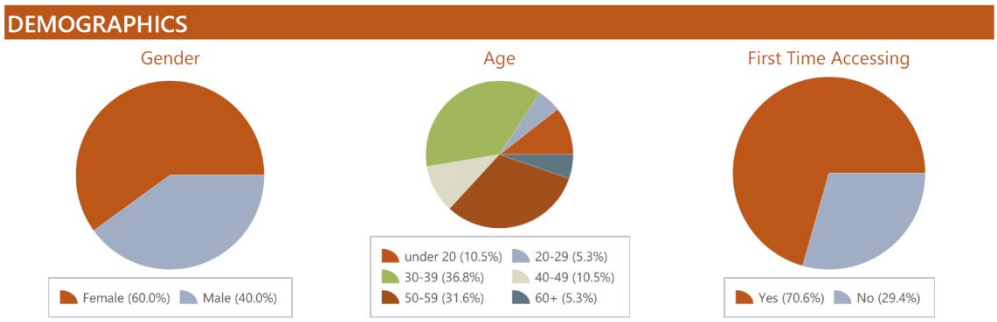
Men's Mental Health: EAP engagement: **40% male**
The Ulliance team reports:

National averages as current, as 2021 indicate roughly 18% of men reported receiving mental health treatment.

- This is even lower for Hispanic and African American men, at roughly 12%.

ORGANIZATIONAL DEVELOPMENT (continued)

GLWA continues to work to reduce mental health stigma and support the resiliency of its team members.



Concern	% of Total Current Year
Legal	23.1%
Work Related Issue	11.5%
Depressed Mood	11.5%
Substance Use	7.7%
Self-Improvement	7.7%
Grief	7.7%
Family Concerns	7.7%
Anxious Mood	7.7%
Stress/ Adjustment	3.8%
Relationships	3.8%
Financial	3.8%
Benefits/ FMLA	3.8%

Wellness Wednesday Meditations

Held Wednesdays at noon, GLWA team members participated in June meditations led by the Blue Cross Blue Shield of Michigan (BCBSM) well-being team. Each session focused on providing GLWA team members tools and techniques to use box breathing to calm the mind and body, experience stillness in the present moment, let go of tension, and connect with animals in nature. August topics included: Connecting with Animals, Box Breathing, Being Still, and Relaxing Breaths.

ORGANIZATIONAL DEVELOPMENT (continued)

Financial Well-being

Retirement Planning Lunch & Learn

All GLWA team members were able to meet with MissionSquare retirement plan specialists virtually August 19, 2024.

The Northeast Water Plant hosted the MissionSquare Retirement Education on-site lunch and learn seminar with close to **20** GLWA team members on August 20, 2024. Team members were able to review their retirement goals and portfolio performance during one-on-one consultations for both dates.

Benefit and Wellness Education

2025 Open Enrollment is coming

In August, the One Water Wellness Team provided five group presentations to **175** team members representing Lake Huron, Springwells, and Southwest water plants, the CSO, Pump Station and Conveyance group and the Procurement and Group Leadership Teams.

We have another year with a **Seamless Enrollment Process** where no action is needed for GLWA team members who are not making any changes, and not enrolling in a flexible spending account.

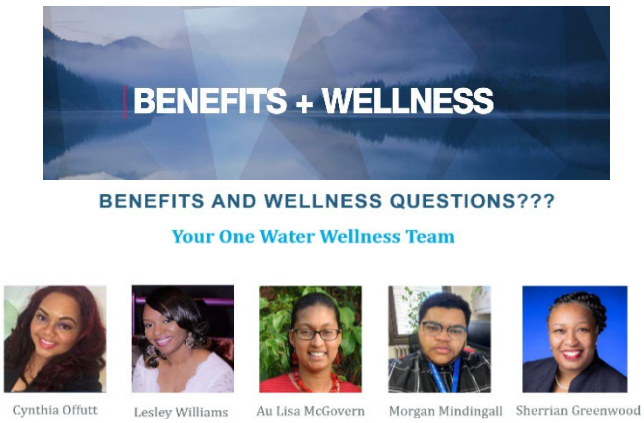
We were excited to introduce coming conditions management solutions to team members: Hinge Health, a personalized online physical therapy service for joint and pelvic health, ExactMeds by RxGenomix, at-home pharmacogenomic testing, and expanded solutions for hypertension, weight management, mental health and pre-diabetes through Teledoc.

ORGANIZATIONAL DEVELOPMENT (continued)

One Water Wellness Office Hours

The One Water Wellness Team hosted weekly on-site office hours during the month of July at:

- Central Services Facility
- Water Works Park
- Water Resource Recovery Facility
- Lake Huron Water Plant
- Northeast Water Plant
- Southwest Water Plant
- Springwells Water Plant



Approximately **20** GLWA team members were able to meet one-on-one for assistance with benefits, retirement, FMLA, and wellness resources.

Training

During August, 52 instructor-led training courses were delivered to 379 GLWA team members totaling 234.5 instructor-led training hours. In addition, 50 online-self-paced training courses (e.g., KnowBe4) were completed totaling 129 self-paced training hours. Also, eight GLWA team members completed 20 360Water online courses.

Talent Management

Staffing

The table below provides a breakdown of GLWA Team Members since the last CEO report:

Number of New Hires	13
Number of Separations	20
Total Staffing – Regular FTEs (YTD)	1055

FINANCIAL SERVICES AREA

August 2024 Audit Committee Recap

The August 2024 regular monthly Audit Committee meeting was held on Friday, August 23, 2024. The GLWA Audit Committee binders are publicly available at www.glwater.org/financials/. The meeting included the following topics:

- ✓ A review of revised WRAP Allocations for FY2025
- ✓ A request for the Audit Committee to recommend that the Board authorize a contract for Water and Wastewater Service Charges Consultant Services.
- ✓ A request for the Audit Committee to recommend that the Board authorize a contract for finance operations assistance to support post-Workday implementation, launch Workday Adaptive, and manage other competing priorities.
- ✓ FY2024 Annual Financial Audit Update
- ✓ Recognition of award from Government Finance Officers Association Achievement for Excellence in Financial Reporting for FY2023
- ✓ Recognition of award from Government Finance Officers Association Achievement for Distinguished Budget Presentation
- ✓ Presentation of the March, April, and May 2024 Monthly Financial Report (Executive Summaries attached)
- ✓ Monthly updates on the Gifts, Grants & Other Resources activities
- ✓ Presentation of the Quarterly Investment Report
- ✓ Monthly Affordability & Assistance Update
- ✓ Presentation of the Quarterly Construction Work in Progress Report
- ✓ Circulation of the latest Procurement Pipeline

Procurement Update

Last month, members of the GLWA Procurement Team attended the NIGP (National Institute for Governmental Purchasing) Annual Forum and Products Exhibition in Charlotte, North Carolina. The NIGP is an international association established in 1944 that develops, supports, and promotes the public procurement profession. Serving as the trusted advisor to more than 3,000 public procurement agencies, including GLWA, the NIGP counts more than 17,000 public procurement professionals throughout North America as members.

FINANCIAL SERVICES AREA (continued)

The NIGP's Annual Forum is the largest North American educational conference, and is designed exclusively for individuals in public procurement. During this year's four-day conference, which hosted over 3,000 attendees (the highest in the NIGP's history), GLWA attended a variety of plenary sessions and small group workshops where they had the opportunity to connect with public procurement professionals from across the country and Canada to share experiences, challenges, and best practices. In addition, the NIGP Products Exhibition provided forum participants the opportunity to discover and preview new products and services from nearly 200 government suppliers.

Affordability & Assistance Update

The Water Residential Assistance Program (WRAP) is set to embark on another fiscal year of services and is excited to welcome Highland Park residents to our program!

Haran Stanley, the Affordability & Assistance Management Professional, participated in an in-person meeting of the Water Affordability Workgroup in Lansing on August 26, 2024. The meeting sought to bring together representatives from diverse community action agencies, utilities, advocacy groups, and other stakeholders to engage in collaborative discussions regarding potential improvements that will benefit Michigan residents in need.

Financial Services Update

GLWA Workday Financial Services (FINS) continues to rollout training for the new system that launched on July 1, 2024. The classes this month will focus on end user training by our Procurement team, supplier invoicing and expense report training from our Accounts Payable team as well as the differences when utilizing mobile devices or tablets in Workday by our Information Technology team.

These classes are offered in multiple classroom types to include in-person, virtual, and drop-in, no reservation necessary knowledge sharing sessions for all team members.

On August 12, 2024, several team members from across the organization, to include Financial Services, participated in an Administrative Support Professional Development training hosted by Dr. Lewis Bender of Bender & Associates. Dr. Bender's primary research has a focus on organizational teams and the factors and variables that impact a team's processes and effectiveness.

Pictured above: Several GLWA support team members gather during the Administrative Support Professional Development training in Mt. Pleasant, MI

FINANCIAL SERVICES AREA (continued)

During the three-day training, participants developed methods to manage generational differences in the workplace, how to navigate ethical challenges, and how to overcome challenges through emotional intelligence. A special presentation was given by LaShone Bedford, Manager of Strategic Planning & Development for Water Operating Services which focused on how self-care and well-being can positively impact fear, boredom and procrastination. This was the third year this conference, specifically designed for administrative support was held, and proudly GLWA was well represented, sending 31 members of our support team for this unique training opportunity.

OFFICE OF THE GENERAL COUNSEL

- ***Legislative Updates*:** The Office is monitoring infrastructure spending bills at the federal and state level, supporting the activities regarding proposed water affordability legislation, and working with others to develop state stormwater utility legislation. This month, General Counsel (GC) Jones accompanied CEO Coffey and Deputy CEO Wolfson to Washington, D. C., for meetings with members of the U.S. Congress, staffers, and various representatives of several regulatory agencies such as the EPA, to discuss various GLWA projects and capital improvement plans. Associate General Counsel, Lavonda Jackson provided a team update on the USEPAs proposed Water System Restructuring Assessment Rule. The proposed Rule would provide structure for states, public water systems, and the communities they serve to identify and assess restructuring options to help ensure sustainable, safe, and affordable drinking water.

- ***Gordie Howe International Bridge*:** GLWA filed a notice of claim with the Court of Claims related to its relocation claim.

- ***June and July 2021 Rain Events:*** The Office is providing legal support in response to the significant rain events in June and July 2021. Recently, the trial court dismissed most of the lawsuits against GLWA based on governmental immunity. The Plaintiffs are appealing the decision. The Court recently dismissed an additional lawsuit related to the July 2021 storm event. The Plaintiffs are also appealing the decision. This month, the General Counsel's office accepted service of two new lawsuits regarding the 2021 rain events.

- ***Negotiations with the City of Dearborn:*** Meetings have been tentatively scheduled for the first week in October to meet with the City of Dearborn regarding terms of a Water Service Contract. Dearborn's City Attorney recently provided Dearborn's edits to the proposed contract. GLWA will meet and confer and respond accordingly.

OFFICE OF THE GENERAL COUNSEL (continued)

- ***Highland Park Settlement Agreement****:* On February 14, 2024, the GLWA Board voted to approve the settlement agreement in final (or next to final) form. On March 18, 2024, the Highland Park City Council unanimously approved the Settlement Agreement between GLWA and the City. When the Settlement Agreement is fully executed, the trust incorporated as a part of the Settlement Agreement is funded, and initial distributions from the trust are received, the Highland Park litigation will be closed. The trust has been funded and the initial distributions from the trust have been received. On June 10, 2024, the following Stipulated Orders were submitted to the Court: a stipulated order to dismiss the 2014 case; a stipulation for dismissal of the 2023 appeal from the 2014 case; a stipulated order for dismissal of the 2020 case; and a stipulated order for release of the cash bond to GLWA in the federal case. As of this reporting, all Stipulated Orders have been entered by the courts, and the cash bond in the federal case has been returned to GLWA.

- ***Mays, et al v GLWA:*** The Court recently entered an order partially granting GLWA's Motion for Summary Disposition and partially dismissing Plaintiffs' claims.

- ***Trenton Water Main*****:** The Office is negotiating the transfer of the 24-inch water main to GLWA.

- ***Contract Negotiations:*** The Office is negotiating 30-year wastewater disposal services contracts with sewer member partners that do not have a model contract.

- ***Environmental and Workplace Safety Compliance*****:** The Office continues to work with the COO and team leaders from both the water and sewer systems to comply with regulations and to respond to any alleged violations. As part of this collaboration, OGC attends the GLWA/DWSD/EGLE monthly Compliance Calls. Additionally, Associate General Counsel, Lavonda Jackson, attended the webinars "Environmental Considerations with Land Use Redevelopment and "Navigating PFAS in 2024, Part IV: Emerging Trends in Litigation."

- ***Federal Grants and Contracts:*** The OGC has commenced a checklist of the necessary changes that GLWA must make to its policies, Standard Operating Procedures (SOP)s, and federal contract exhibits in compliance with the new Uniform Grants Guidance, which is scheduled to become effective October 1, 2024. In addition, the OGC is collaborating with the GLWA grants team to obtain approval of the Department of Energy (DOE) Hydrothermal Liquefication Budget Period 2, Go/No-Go decision scheduled to be delivered on or after October 1, 2024.

- ***Record Retention Policy*****:** The Office has received approval for GLWA's record retention policy from the State and has finalized GLWA's Record Storage and Disposal Policy to work hand in hand with it.

OFFICE OF THE GENERAL COUNSEL (continued)

- The General Counsel's office, led by Associate GC, Kirsten Silwanowicz, has begun training for all GLWA team members to implement these policies. The administration of the Record Retention Policy and the Record Storage and Disposal Policy is now underway.

- ***Industrial Pretreatment Program ("IPP")*****:** The Office also continues to provide assistance on PFAS and PFOS matters, including comments on the new drinking water regulations and negotiating an administrative consent order with an industrial user.

- ***Real Estate:*** The Office is working to secure easements and acquire properties related to various water and sewer projects. Each real estate transaction will be presented to the Board for approval when they are fully negotiated.

- ***Member Outreach*****:** The Office continues to be an active participant in Member Outreach sessions.

- ***Main Relocations*****:** The Office continues to support water operations in its discussions with community stakeholders regarding water main relocations.

- ***Civil Litigation and Arbitrations*****:** The Office continues to vigorously defend actions against GLWA. In October 2023, the Board authorized settlements of key litigation including a class action lawsuit regarding IWC charges and the collection actions against Highland Park. The Office is working on implementing those resolutions.

- ***Labor Relations*****:** The Office continues to provide legal advice to Organizational Development on labor relations and employment matters.

- ***Procurement*****:** The Office continues to assist GLWA's Procurement Team negotiate contracts, change orders and amendments and interpret contractual provisions. The Office is also assisting with the Procurement Policy's Procedures and updating GLWA's template contracts. The Office is part of a cross-functional team working to complete significant revisions to the GLWA construction contract, including consideration of using an entirely new contract format. The Office continues to provide advice on federal grant compliance.

OFFICE OF THE GENERAL COUNSEL (continued)

***Statistics*:**

	#
Contracts approved as to form:	26
Contracts drafted or revised:	74
Subpoenas/Information requests received:	5
Subpoenas/Information responded to:	7

Professional Development Accomplishments

- Kirsten Silwanowicz had an article published in the Women Lawyers Journal titled "Reproductive Justice – The Choice is Yours, or Is It? The article can be found here.

Respectfully submitted,

Suzanne R. Coffey

Suzanne R. Coffey, P.E.
Chief Executive Officer

SRC/dlr

Attachment: April Executive Summary

GLWA Great Lakes Water Authority

Financial Report
Executive Summary Dashboard
for the Month Ended April 30, 2024

Key Financial Metrics

The table below provides key report highlights and flags the financial risk of a budget shortfall by year-end as follows: No Risk (green) - Potential (yellow) - Likely (red)

Each variance is monitored by the Great Lakes Water Authority (GLWA) management and, where appropriate, operating and/or budget priorities are re-evaluated. Staff reviews the need for budget amendments quarterly and requests necessary amendments when required based on the most current information available. Third quarter budget amendments were approved by the Board of Directors at the June 26, 2024 meeting and are reflected in this report.

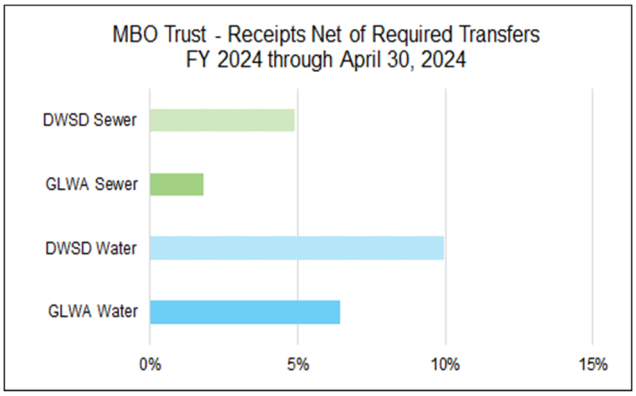
For the current year, water operations and maintenance, water and sewer capital spend, and investment earnings reflect variances to budget outside the normal range. Capital spend variances reflect evolving changes in timing that the Capital Improvement Planning group continues to monitor and review. Operations and maintenance and investment earnings activity is monitored closely and are under review for possible additional budget amendments.

A bond transaction was completed in December 2023 for $148.5 million to support water system improvements and $96.8 million to support sewage disposal system improvements.

As of April 30, 2024					
Metric	FY 2024 Budget	FY 2024 Amended Budget	FY 2024 Actual	Variance from Financial Plan	Report Page Reference
Wholesale Water Billed Revenue ($M)	$285.4	$280.7	$280.4	0%	49
Wholesale Water Billed Usage (mcf)	10,980,000	10,463,000	10,476,000	0%	
Wholesale Sewer Billed Revenue ($M)	$234.9	$234.9	$234.9	0%	51
Wholesale Water Operations & Maintenance ($M)	$127.4	$140.7	$133.0	-6%	5
Wholesale Sewer Operations & Maintenance ($M)	$171.4	$187.4	$182.4	-3%	
Investment Income ($M)	$12.8	$38.8	$48.8	26%	38
Water Prorated Capital Spend w/SRA* ($M)	$199.4	$162.4	$141.2	-13%	29
Sewer Prorated Capital Spend w/SRA* ($M)	$165.9	$128.6	$101.4	-21%	30

*SRA refers to the capital spending ratio assumption which allows capital program delivery realities to align with the financial plan.

Master Bond Ordinance (MBO) Trust Net Receipts (page 51)



Net cash flow receipts remain positive for GLWA Water and Sewer. This means that all legal commitments of the MBO Trust and the lease payment are fully funded – and that positive cash flow is available for additional capital program funding in subsequent year(s). DWSD Water reports a surplus of $10.8 million and DWSD Sewer reports a surplus of $12.3 million of net receipts over disbursements through April 2024.

Budget to Actual Analysis (page 3)

- The FY 2024 information includes the third quarter FY 2024 budget amendments approved by the GLWA Board of Directors on June 26, 2024. These are the final budget amendments for FY 2024.
- The total Revenue Requirements are on target through April 2024.
- The total overall Operations & Maintenance expenses are at 80.1% of budget through April 2024. This positive variance equates to a dollar amount of $12.8 million.

Basic Financial Statements (page 9)

- The Basic Financial Statements are prepared on a full accrual basis and reflect preliminary, unaudited results.
- Operating income for April 2024 is $74.0 million for the Water fund (24.5% of total revenues) and $98.2 million for the Sewer fund (24.0 % of total revenues).
- Water Net Position increased by $ 15.8 million, and Sewage Disposal Net Position increased by $ 42.3 million for the year to date through April 2024.

Capital Improvement Plan Financial Summary (page 28)

- Water system costs incurred to date are below the 79.4% Capital Spend Ratio assumption.
- Sewer system costs incurred to date are below the 70.3% Capital Spend Ratio assumption.

Master Bond Ordinance Transfers (page 31)

- For April, transfers of $13.8 million and $18.7 million were completed for the GLWA Water and Sewer funds, respectively.
- Also for April, transfers of $5.6 million and $6.9 million were completed for the DWSD Water and Sewer funds, respectively.

Cash Balances & Investment Income (page 38)

- Total cash & investments are $648 million for Water and $779 million in the Sewer fund.
- Total, combined, cumulative, FY 2024 investment income through April is $48.8 million.

DWSD Retail Revenues, Receivables & Collections (page 42)

- Water revenue through April 30, 2024 is 103.86% and usage is 104.03% of budget.
- Sewer revenue through April 30, 2024 is 98.16% and usage is 101.08% of budget.
- Combined accounts receivable balances for the water and sewer funds report a decrease of $11.8 million over the prior year.
- Past dues over 180 days make up of 67.5% the total accounts receivable balance. The current bad debt allowance covers over 95.5% of past dues over 60 days.

GLWA Wholesale Billing, Receivables & Collections (page 48)

- GLWA accounts receivable past due balance net of Dearborn is 0.12% of the total accounts receivable balance. Discussions remain underway between GLWA and Dearborn regarding the water balance in dispute.
- Average wholesale water collections for the period of May 2023 through April 2024 are trending above the prior year.
- Average wholesale sewer collections for the period of May 2023 through April 2024 are trending above the prior year.

Questions? Contact the Office of the Chief Financial Officer at CFO@glwater.org.