



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

January 26, 2022

The Honorable
Board of Directors
Great Lakes Water Authority

RE: Interim CEO's Report – January 26, 2022

Dear Chairperson Quadrozzi and Directors:

One of my major areas of focus since I was appointed Interim Chief Executive Officer has been a commitment to transparency in all of GLWA's operations, most especially in regard to our response to the unprecedented flooding events that happened last summer.

In keeping with that commitment, I have made it a priority to interact with organizations that were impacted by the flooding. Most recently, I had the pleasure of attending the Infrastructure Committee of St. Ambrose Parish, a church community which straddles the Detroit/Grosse Pointe Park border and sustained significant damage. Teaming up with DWSD Deputy Director and Chief Engineer Palencia Mobley, we spent about 2.5 hours at St. Ambrose reviewing the capabilities and limitations of the regional sewer system, providing a presentation which I believe left committee members and other attendees much better informed about where waters from Detroit and the Pointes meet and flow and how the system works from a big picture perspective. It was a good interaction and I look forward to continuing to provide this type of programming throughout our service area.

Staying on the transparency theme, I recently conducted my first set of virtual one-on-one meetings with GLWA team members who have been working on flexible work arrangements throughout the coronavirus (COVID-19) pandemic. My objective is to spend 20 minutes with each team member who requests a meeting to check in with them and get a feel for how they are doing both personally and professionally. The first set of meetings, during which I met with seven team members, happened on Monday, January 10. They were good dialogues, and I heard some extremely valuable perspectives on both challenges team members are facing and how we can work with them to address them. Additional meetings will occur on January 24, 31 and February 7.

Given the increase in cases of COVID-19 due to the Omicron variant, the Executive Leadership Team made the decision to postpone the final reconstitution of those team members working on flexible work arrangement to April 25. We felt this was in the best interest of the health and safety of all team members, both those who have been working in our facilities since this began, as well as those still working remotely. I also recorded a video reminding team members of the essential role they play in the execution of our COVID-19 safety protocols, such as mask wearing, social distancing and staying home if they are not feeling well. The video is playing on the monitors in our facilities and was also emailed to team members. A link to the video can be found on Page 21.

In each of my monthly reports to the Board, I like to call out Areas, Groups, Teams and individual team members for their excellence. This month is no different, and I would like to start by letting you know that GLWA recently received two National Environmental Achievement Awards from the National Association of Clean Water Agencies (NACWA). Recognition was given in the areas of Watershed Collaboration for our Watershed Hub, and in public education for the Regional Operating Plan video. I want to congratulate the Systems Planning Group Team and the Public Affairs Team for their outstanding work!

I also want to thank team members from our IT and Field Services/Utility Review and Permits (URAP) Teams for accomplishing a smooth transition from MISS DIG to a brand-new platform, in a very short time frame and with very little impact to the URAP Team's ability to complete critical locate and design tickets. Way to go to these Teams for their hard work.

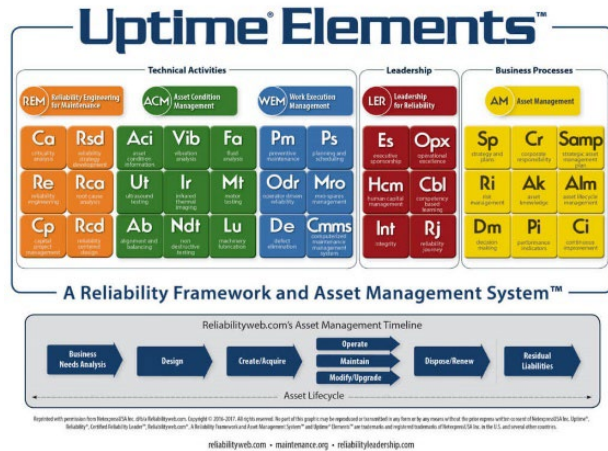
Finally, I want to congratulate the team at the Springwells Water Treatment Plant for its Laboratory receiving their Certificate of Excellence and being recognized as a Laboratory of Excellence in acknowledgement of their Laboratory Team's demonstration of superior quality work. We appreciate everything the Springwells Lab Team has done and will continue to do to earn this important honor.

PLANNING SERVICES

Asset Management Group (AMG)

Continuing GLWA’s Asset Management competency development initiative, the Enterprise Asset Management Group organized a globally recognized Certified Reliability Leader (CRL) Certification Training for team members engaged in operations and maintenance as well as asset management activities across the organization. The training focused on whole life asset reliability decisions and whole life value delivery through leadership designed to:

- Allow attendees to utilize some of the industry’s most advanced thinking in Reliability Maintenance
- Understand the Uptime® Elements Framework and begin to master the language, words, phrases, ideas, and concepts to gain and enhance knowledge about Reliability Maintenance
- Lead trainees to discover for themselves what it is to “BE” a Reliability Leader and to exercise reliability leadership as a natural self-expression



The training was provided by Reliability Web as part of the Asset Management Planning contract through Jacobs. The course included a globally recognized CRL certification exam. This is the second round of training that included 36 team members selected by their leadership team member to participate.

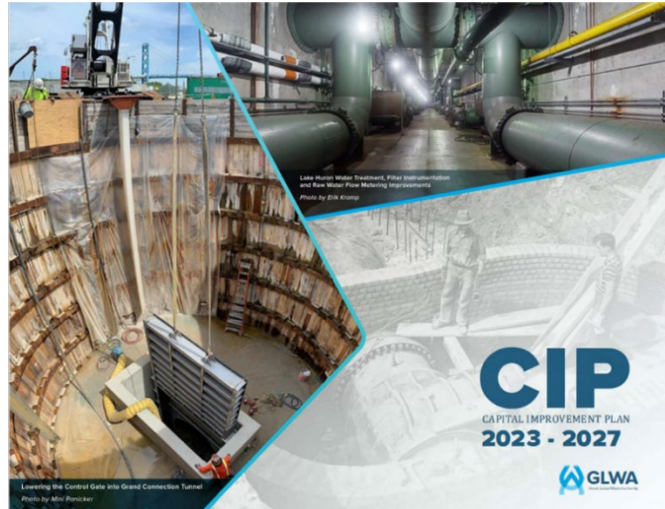
GLWA’s Linear System Integrity Program (LSIP) is continuing to progress with assistance from our consultant, HDR of Michigan. This program is focused on improving the reliability of our water transmission and wastewater collection systems. The goal of the program is to proactively assess GLWA’s water transmission mains and wastewater interceptor system and renew as necessary, to reduce the impacts of failures and increase reliability of our linear assets.

GLWA has begun to develop a program framework for our water system, which will provide a sustainable process that can be implemented and maintained for decades to come. This framework includes safety, emergency, and Quality Assurance/Quality Control (QA/QC) guidelines including inspection and analysis decision logic. Also currently under development is a collaboration portal, performance indicators, progress reports, and dashboards. The LSIP team has met with leaders within GLWA during one-on-one interviews to collect valuable insights into program goals, requirements, and risks. These will be used to tailor the LSIP program to meet the varying needs throughout the organization and address program risks.

PLANNING SERVICES (continued)

Capital Improvement Planning Group (CIP)

After addressing comments received internally and from member partners, the CIP delivery team released the second draft of the FY 23-27 CIP. Draft 2 was well received by the Capital Planning Committee on December 14, 2021. The CIP group values and appreciates the positive engagement and support from members of the Capital Planning Committee and member partners. We also appreciate the feedback from Mr. Jeff McKeen, SOCWA and Ms. Kelly Karl of SEMCOG. Special thanks to everyone who contributed to the



publication of the FY 23-27 CIP Draft 2, including Chiefs, Directors, Project Managers, IT GIS team, the Financial Group, and AECOM for contributing to the timely delivery of this effort. The CIP group has continued to work on the online portal enhancements targeted at improving the cost and schedule management and forecasting. The CIP delivery team is committed to exploring opportunities for continuous improvement of GLWA’s CIP.

In December, the Project Management Information System (PMIS) proposal reviews were completed. Three vendors have been shortlisted for demonstrations in January. Additionally, the CIP group, with support from the program management consultant, AECOM, continued to work on the Program Management Plan (PMP) Chapters 00, 01, 02, and 10. The team targets PMP chapter rollout to take place early in 2022. Furthermore, a Roles Workshop was hosted by CIP and Engineering Directors to introduce the core delivery team to two new roles: “Technical Management Leads” and “Life Cycle Project Managers.”

Lastly, we are excited to share that the CIP group is growing and has posted multiple new positions for recruitment internally and externally. Open positions include a Controls Manager, Budget Management Professionals, Schedule Management Professionals, and many more. The CIP group is also excited to announce two internal GLWA members to the CIP Team: Ian Thompson as Assurance Manager and Mellissa Phelan as CIP Planning Management Professional. Please join us in welcoming Ian and Melissa to their new roles. The CIP Team looks forward to their contributions.

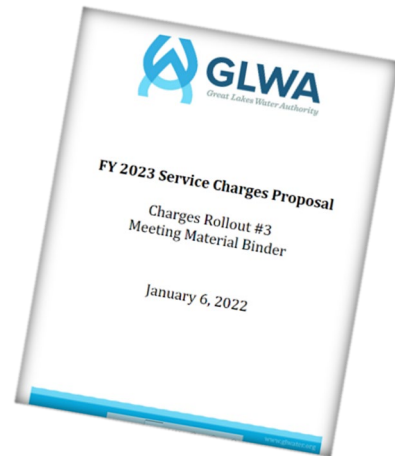
Systems Planning Group

At the request of the One Water Co-Chairs, the Member Outreach Team worked to limit the number of meetings held during the month of December 2021 by sharing content with members in alternate ways.

PLANNING SERVICES (continued)

We hope that having fewer regularly scheduled meetings offered some respite to our busy members at the end of a particularly challenging year, and we look forward to your feedback on this practice. Member Outreach Work Group meetings will continue to be conducted remotely in early 2022, at least through May.

The Charges Rollout #3 meeting was hosted on January 6, 2022 and focused on the proposed FY 2023 revenue requirements. Chief Financial Officer and Treasurer, Nicolette Bateson, along with Bart Foster, of The Foster Group, reviewed the FY 2023 and FY 2024 Water and Wastewater Budget, as well as the Five-Year Financial Plan Forecast. A “binder” of information was provided and is available on the Member Outreach Portal. Member Partners also received their proposed charge sheets in advance of the meeting and were encouraged to sign up for one-on-one meetings with members of GLWA’s Financial Services team, to discuss community-specific questions.



Those meetings were held January 10 – January 14.

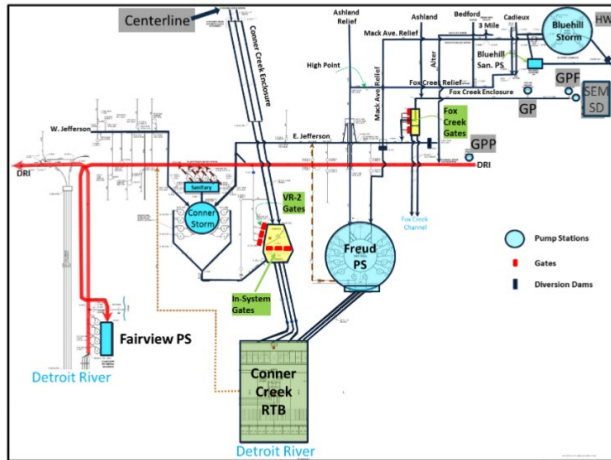
The Charges Rollout #4 meeting was held on January 20, 2022 and addressed questions from the previous meeting, such as

- Bad Debt Expense
- Explanation of the 4% promise,
- Description of Mod/No Mod contracts.

Additional information was provided on the FY 2023 revenue requirements and budget, as well as refinements to Water and Wastewater Charges. Please contact the Member Outreach Team for more information at outreach@glwater.org.

On December 1st, the Watershed Hub Work Group met to continue progress on a work plan for implementation of a regional investigational E.coli sampling program - work that is supported by a grant from the Michigan Department of Environment, Great Lakes, and Energy. The sampling program is intended to identify potential stream segments that may be impacted by unidentified untreated sewage discharges and nonpoint sources of pollution for further investigation. It will complement GLWA's existing water quality monitoring program, which focuses on measuring water quality to better understand the effectiveness of system investments and inform decisions about future investments. Early design elements for the sampling program will be vetted with a broad audience of stakeholders at the January 28, 2022 Watershed Hub Stakeholder Webinar.

PLANNING SERVICES (continued)



The Member Outreach Team began meeting with members on the east side of the wastewater system in September. The purpose is to build a shared understanding of the system, coordinate projects and identify ways we can work together to protect public health and the environment. On December 13th, the Eastside Members subgroup met to discuss how members' flow moves through the Fox Creek Enclosure, a Wayne-County owned wastewater pipe that receives flow from the Southeast Macomb Sanitary District Kerby Pump Station, Grosse Pointe

Farms Kerby Pump Station, and City of Grosse Pointe Pump Station and transmits it through the East Jefferson Relief Sewer to the Detroit River Interceptor. Eastside members also discussed ways they might remove flow from the system in the future in order to reduce flooding. On December 9th, GLWA convened members tributary to the Northwest Interceptor for the first time as a Westside Members subgroup. The purpose of the meeting was to build a shared understanding of how the regional system works on the west side of the wastewater system and how members' flows impact one another. The group also discussed planned or potential changes to their local systems.

The System Planning Group continues to make progress on the Long Term CSO Control Plan. The project is the next step in CSO control planning after the completion of the Wastewater Master Plan. The project is currently in the model calibration phase. Once model calibration is completed, the wastewater collection system model will be suitable for use in evaluating alternatives for future CSO control measures.

The System Planning Group is also developing a preliminary schedule for updating the Water Master Plan update. The Water Master Plan was most recently completed in 2015 and is due for an update. The System Planning Group intends to complete the study in-house. System Planning Group engineers are currently in the process of updating the hydraulic model geometry based on the up-to-date geographic information system (GIS) model. Using the GIS data will result in improved spatial accuracy in the hydraulic model. Once the model geometry is updated, System Planning will update the model calibration, so the hydraulics are suitable for use in evaluating alternatives.

Systems Analytics and Meter Operations Group (SAMO)

The SAMO Group continues progress working on wholesale water meter pit rehabilitation and meter replacement program. The scope of work includes construction work at 58-meter pits with metering and/or meter pit condition concerns. Last month, coordination meetings were held with the City of Allen Park, City of Flint, City of Lincoln Park, City of Rochester Hills, and City of Taylor. The planned work has been completed at 47 of the meter pit locations and is underway at another three locations.

PLANNING SERVICES (continued)

The Group continues its progress working on the sewer meter upgrade/replacement program. Currently the group is working on upgrading meters at three sewer meter locations (BC-S-2, DN-S-8 and DT-S-3).

WASTEWATER OPERATING SERVICES

Wastewater Operations

Water Resource Recovery Facility (WRRF) operations complied with the Water Quality Standards for December 2021.

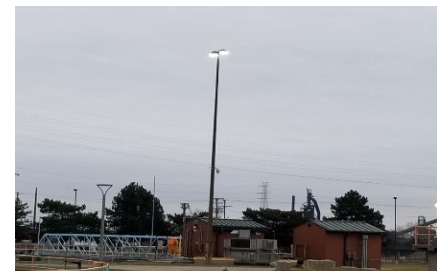
Maintenance



The replacement of the Main Lift Pump (MLP) #1 pull-out assembly is ongoing. After working through various challenges with obtaining materials and completing the disassembly, the pump is being reinstalled and should be tested and available for operations soon. The return to service of MLP #1, one of the largest pumps at the facility, will greatly improve operational and maintenance flexibility at the WRRF. Due to the tight tolerances, the case ring for the MLP #1 pull-out assembly had to be retained in dry ice for the metal to contract enough for installation and is shown in the top-left picture. The casing ring installed in the pump volute is shown in the picture at right.



The Central Maintenance Team has been working on a plant-wide effort to replace old light fixtures on 50-foot poles with new LED light fixtures. This will increase nighttime visibility in the WRRF, having a positive effect on both the safety and security of night-time team members while also providing greater lighting reliability. The picture at the right shows a typical new LED light fixture installed at the WRRF.



WASTEWATER OPERATING SERVICES (continued)

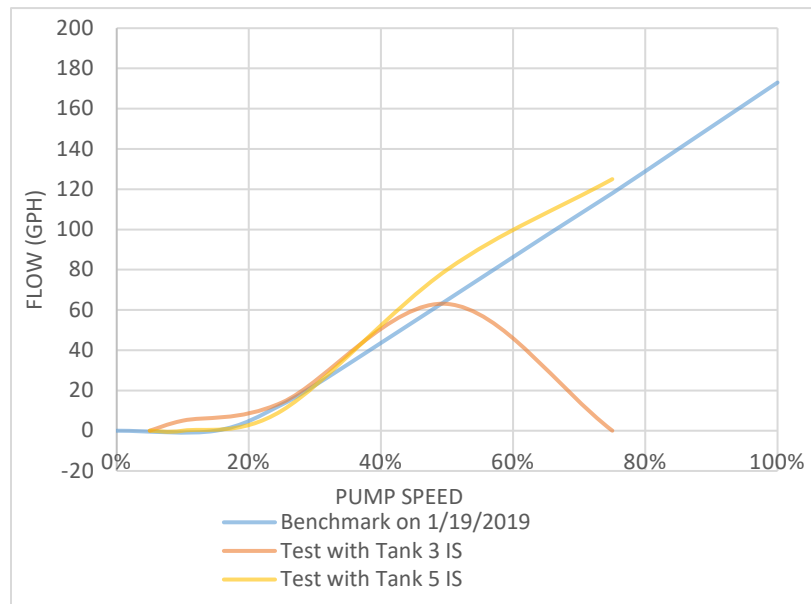
Finally, the Residuals Team electricians, with assistance from Asset Management team members Raymond Zdonkiewicz and Alpesh Patel, were able to troubleshoot and correct a complicated and intermittent issue. Vacuum Pump B, a component critical to the operation of the Incineration Complex 2 ash handling system, was having an issue with spurious nuisance tripping. They isolated the fault to a Motor Protection Relay and had the relay replaced and reprogrammed.

Vacuum Pump B no longer experiences this intermittent fault, and the reliability of the Ash Handling System has been improved.

Process Control Center (PCC)

The WRRF Process Automation and Control System (PACS) team of engineers and technicians completed a request to investigate the recent failure of sodium hypochlorite (SH) feed pumps at the Hypo Facility. Testing included:

1. Investigate the repetitive SH pumps failure.
2. Verification and recording of pump flow curves for the SH pumps.
3. Verification of pump controls from PLC (Programmable Logic Controller) (manual, auto), sequencing, and flow control.
4. Verification of flow paths (including all manual valves).
5. Verification of pump suction and discharge valve operation and open/close status signal to controls.
6. Verification of inlet and discharge pressure switches.
7. Verification of field wiring and input/output modules.



Flow Curves from Report

WASTEWATER OPERATING SERVICES (continued)

The PACS Maintenance team members replaced the differential pressure instrumentation associated with the Venturi Flowmeter that is used to indicate flow into the primary rectangular clarifiers.

The PACS team installed process cameras in the Ash Silo for the Incineration Complex. The plant technicians use these to monitor the filling of trucks for the disposal of the ash.

Laboratory

The Laboratory had no National Pollutant Discharge Elimination System (NPDES) violations for December 2021. Also, we are initiating a “sampler coordinator role” in the Lab to help ensure the receiving and dispersal of samples is meeting NPDES requirements.

The laboratory staff has caught up on backlogs for all parameters.

Key Performance Indicators (KPIs) for Quality Assurance (QA) samples exceeded GLWA goals.

We provided 5S tours for four groups including other areas of WRRF and team members from the Water Supply Operations plants.

Engineering & Construction Engineering

Design Engineering

The Design Engineering Team is working on the following projects:

Contract GLWA-CON-197 (March 2018) – Dewatered Sludge Cake Conveyance Improvements. This contract involves the replacement of belt conveyors affected by the 2016 fire event and feed conveying modifications at the incinerators. Construction has been ongoing, and the first four of the eight screw feeders installed experienced several conveying difficulties and frequent fire in the twin screw feeders. GLWA identified several design and fabrication deficiencies. GLWA is now in communication with the Design Consultant and the contractor requiring them to resolve the issues.

JOC 70, Contract 2102646 – Complex A Gallery Pump Sludge Feed Pump SFP-2 Replacement. This replaces the existing 40-year-old pump with a new, correct-sized pump in accordance with the dewatering feed pump concept developed in CIP 213006. The JOC is already out for bid.

WASTEWATER OPERATING SERVICES (continued)

Construction Engineering

CIP 211002, Contract PC-795 – Pump Station No. 2 Pumping Improvements. Pump No. 14 installed under this contract did not meet the performance requirements indicated in Change Order No.1 and therefore a notice of defective work notice was issued to the Contractor on December 7, 2021. The GLWA project team and the contractor are scheduled to meet in January 2022 to discuss and resolve the issue.

CIP 211004, Contract CON-250 – Pump Station No.1 Rack & Grit and MPI 1 and Jefferson Sampling Stations Improvements. The work under this contract is completed and the final change order to close out this contract is submitted for January 2022 Board approval.

CIP 213007, Contract CON-197 – WRRF Modification to Incineration Sludge Feed Systems at Complex II. The work under this contract is more than 85% complete, and the contractor is currently working on the installation of new screw feeders and associated equipment related to incinerators 13 and 14. This contract has experienced delays due to COVID-19 and has experienced performance issues associated with the newly furnished and installed screw feeders. A notice of defective work was issued to the contractor, and the issue is being corrected by the contractor/designer of record. A Change Order No. 2 for additional time and money is submitted for the January 2022 Board approval.

CIP 211008, Contract 2002190 – Rehabilitation of Ferric Chloride Feed System at PS#1 and Complex B Sludge Lines. This contract was awarded to Weiss Construction Company on April 5, 2021. The contractor has completed the majority of submittals and has completed all-polymer system demolition. They are working on chemical feed plumbing and masonry work now. Pandemic and supply chain issues may delay the delivery of materials.

CIP 216004, Contract 1802410 – Rehabilitation of various Sampling Sites and PS#2 Ferric Chloride System at WRRF. Construction is progressing at the site for all the sampling sites and PS # 2 Ferric Chloride system. This project has experienced delays due to pandemic and pump skid-related changes. Change Order No. 3 for additional time and money is submitted for January 2022 Board approval.

CSO Control Program

The CSO team is working on the following projects:

CIP 260614, Contract 1902224 – CSO Facilities Structural Improvements Program. Repair work continues at Hubbell-Southfield. An urgent repair has been identified for Corbels at Conner Creek internal to the basin, and we are working to coordinate with all other affected projects to ensure access to the basin so the repairs can be made.

WASTEWATER OPERATING SERVICES (continued)

CIP 260618, Contract 2003330 – Oakwood HVAC Improvements. January and February 2022 are scheduled for significant progress on this project installing openings in the roofs, installing structural steel, performing roof repairs, and beginning to change out the HVAC fans.

CIP 260621, Contract 2004666 – Conner Creek Dike Improvements. Wall installation (concrete topping) and fence installation have been progressing. The rain in September and October 2021 delayed the projects, and as cold weather came, it slowed the concrete construction down somewhat.

Overall, the project is well within schedule, and we believe the wall and fencing will be completed by the end of February or the beginning of March 2022. The security upgrades at Conner Creek are continuing. Final restoration will occur in the Spring of 2022.

WATER OPERATIONS

Lake Huron Tunnel Explosion Memorial Event



It has been 50 years since the accident which claimed the lives of 22 men while building the Lake Huron Water Treatment Plant intake tunnel. A memorial was constructed in 2006, and this year family and friends gathered to remember the fathers, brothers, and sons lost in the explosion. Lake Huron Plant Manager Christopher Steary spoke at the memorial to express condolences to the families on behalf of GLWA. From his speech, “So, we honor them. We remember. We recommit daily to safety. This tragedy is never far from my mind and the Great Lakes Water Authority is committed to ensuring the safety of the team members who come to work every day, to the safety of the contractors who build and construct the improvements, and to the safety of our neighbors as well.”

WATER OPERATIONS (continued)

Water Fluoridation Quality Award

GLWA's water system was recognized for its continuing commitment to public health of all Michigan residents by the Michigan Department of Health and Human Services, Oral Health Program for achieving the CDC's Optimal Fluoridation Award. This is a great honor for the communities served and the state. This award recognizes those public water systems that adjust the fluoride concentration in drinking water and achieve a monthly average fluoride level that is in the optimal range for 11-12 consecutive months in a year, as documented in the Water Fluoridation Reporting System (WFRS).



Springwells Water Treatment Plant

Certificate of Excellence

Springwells Water Treatment Plant laboratory received "Certificate of Excellence" for getting acceptable values for all proficiency testing samples in recognition of the quality of laboratory in proficiency testing for WS-302, a study performed during the period of September 7, 2021 to October 22, 2021.

This certificate of achievement was issued by ERA, A Waters Company. This laboratory has been recognized as a Laboratory of Excellence for achieving 100% acceptable data in this study which included 254 participating laboratories. This achievement is a demonstration of the superior quality of the laboratory in evaluation of the standards listed below:

- Heterotrophic Plate Count
- MicrobE™ (Coliforms)
- Inorganics
- pH
- Turbidity
- Residual Chlorine
- O-Phosphate Nutrients

This is a great achievement for SPW Water Treatment Plant laboratory.

WATER OPERATIONS (continued)

Water Works Park Water Treatment Plant

High Lift Exciter Upgrade

Water Works Park High Lift Pumping Station was built over 100 years ago. During that time, the building itself has remained mostly unchanged. The equipment within the building experienced a large improvement project in 1960. Pumps, valves, electrical service, and a host of other equipment were modernized. A great deal of that equipment remains in service today. As one might expect, repairing items from the 1960s can be difficult as parts become rarer and rarer. This is the case for the excitation system for the motors of the pumping units in the High Lift. The exciters are a crucial piece of equipment that deliver a DC electrical field for the synchronous pump motors. This regulates the speed of the motor to allow the pump to run at the same speed regardless of load.

The need to modernize the High Lift equipment is paramount to maintaining a reliable pumping station. Facing exorbitant and prohibitive costs to repair existing equipment, Water Works Park contracted with Siemens to install a new exciter system for High Lift Pump No. 9. The new exciter system has many benefits to the plant. The technology is able to improve motor performance and reliability, and protect the motor from over-excitation, under-excitation, limiting the time of consecutive starts, and many others. Troubleshooting efforts are minimized due to event recording and operational data viewability through the local display. Operational flexibility is another feature of the new exciter system, allowing operators to control motor excitation current or power factor. The new system also reduces the operators need to monitor and adjust the power factor by automatically adjusting the power factor to the ideal setting.



Existing Exciter Cabinet

Retrofit Exciter Cabinet

Water Quality

Control of Zebra Mussels in the Tunnel to Water Works Park, Northeast and Springwells

Zebra mussels (average 1.5 inches in length) are known to colonize the intake structure, clog pipes, screens, and water transport structure. They attach themselves to most hard surfaces and form multi-layer colonies and costly block intake pipes and screens.

WATER OPERATIONS (continued)

Among the many methods used to control zebra mussels at the intake structures, chlorine has been found to be the most effective and is widely used. The intake structures at Belle Isle and the tunnels are annually controlled with the application of sodium hypochlorite as a chlorine source.

The intake structures serve three plants: Water Works Park (10-foot diameter tunnel), Northeast and Springwells (16-foot diameter tunnel) water plants. The length of the tunnel is about 4,100 feet. So, the goal is to reduce the accumulation of zebra mussels within the interior of the intake pipes.

Sodium hypochlorite, which is an approved water additive chemical, was applied as the source of chlorine. This process was performed continuously for at least two weeks. Sodium hypochlorite was applied at the intake for free chlorine residuals between 0.9 ppm (parts per million) and 1.2 ppm when the water reached the plant. In addition, at Water Works Park a small dose of chlorine was added after filtration to meet the plant goal of 1.20 ppm of free residuals chlorine leaving the plant.

Sodium hypochlorite (15% chlorine) prevent the release of zebra mussel eggs, kill the larva (more susceptible to chlorine than the adults), and reduce the population in the water column.

Additionally, as the temperature decreases below 100°C, the adult mussels stopped releasing eggs and the mussels cannot re-establish before winter.

No water quality issues have been reported or observed with the application of sodium hypochlorite at the Belle Isle Intake.

PFAS and Associated MCLs

Per- and Polyfluoroalkyl Substances (PFAS) are tested in GLWA drinking water. These substances are regulated by Michigan Department of Environment, Great Lakes, and Energy (EGLE). To date, GLWA has not exceeded the maximum contamination level (MCL) for PFAS in drinking water. The MCLs were set by EGLE, and testing became required in October 2020 for GLWA. In addition to our annual regulatory testing, GLWA has been assisting EGLE with a PFAS study at surface water plants that sample and analyzes our water every other month. To date, GLWA water has not exceeded the MCLs, and our drinking water has no detectable level of PFAS.

WATER OPERATIONS (continued)

GLWA's Water Quality team performs the sampling and has the samples analyzed in a Michigan certified laboratory. There are seven PFAS compound groups that are regulated (chart shown right). As part of GLWA's ongoing effort to supply drinking water of unquestionable quality, GLWA's Water Quality team began sampling for PFAS before the regulatory requirement.

REGULATED PFAS AND ASSOCIATED MCLs	
Contaminant	MCL (ng/L)*
Perfluorononanoic acid (PFNA)	6
Perfluorooctanoic Acid (PFOA)	8
Perfluorooctane Sulfonic Acid (PFOS)	16
Perfluorohexane Sulfonic Acid (PFHxS)	51
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	370
Perfluorobutane Sulfonic Acid (PFBS)	420
Perfluorohexanoic Acid (PFHxA)	400,000

*ng/L = Nanogram/liter

Water Quality vs. Main Disinfection

Water Quality is one of the final teams to arrive on site after a major main break is repaired. Water Quality is responsible for disinfecting piping that has been open to contamination or pressure loss. This process is very important to protect our member partner communities from bacterial contamination. When performing a disinfection on a water main, Water Quality uses the American Water Works Association (AWWA) Standard C651-14 for disinfecting water mains. Water Quality uses the slug method to disinfect large water mains. Before starting our process, we must verify that all valves are closed, the portion of the main that needs disinfection should be isolated from sections of the main in use. Next, Water Quality determines the 65% calcium hypochlorite chlorine insertion point and the amount of chlorine needed to disinfect the water main. Next, the flushing points are determined so the chlorine can be monitored along the pipeline.

Once the chlorine reaches normal levels at the end of the pipe, sample disinfection is completed and samples can be collected.

December 29, 2021, Water Quality disinfected the 48-inch main on West 14 Mile Road between Farmington and Halsted Roads. After putting Chlorine in at 14 Mile at Halsted, blowoffs are closed to allow pipe to fill. Flush point is set up for chlorine residual tracking and sampling when residual meets desired normal residual of water system operation. After a desired residual is met, samples must be collected two consecutive days in a row.



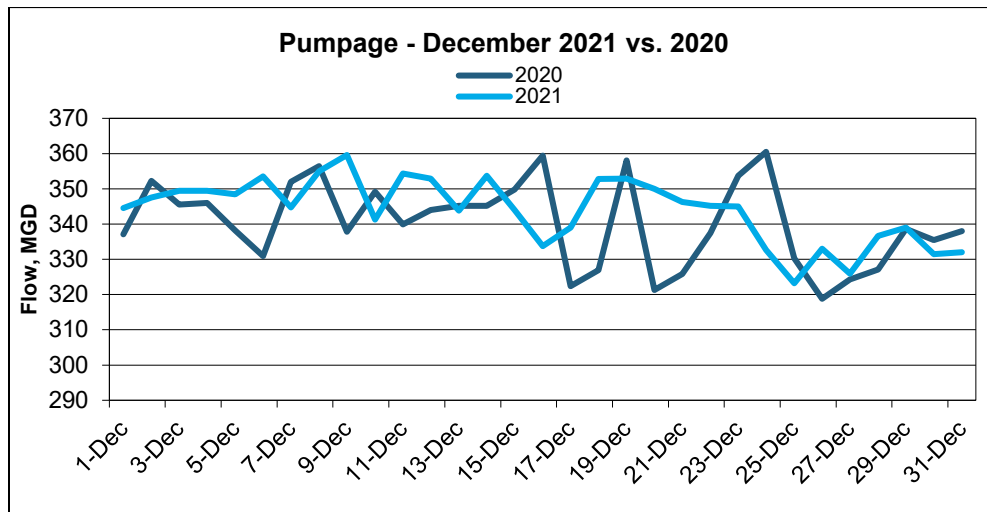
Before and after pictures of a gate valve installation

WATER OPERATIONS (continued)

The first day consist of a bacteriological sample and a physical sample for clarity of water. The second day is only a bacteriological sample if the physical sample passes first day. After all samples are negative, the water main is ready to be put back in service.

Systems Control Center (SCC)

December 2021 pumpage was 1% higher than December 2020



Energy, Research & Innovation

Energy

Power Monitoring Expert (PME) Software

The Energy, Research & Innovation (ERI) team has been working with the Water Resource Recovery Facility (WRRF) Process Control Center (PCC) team on the upgrade of the Power Monitoring Expert (PME) software. An orientation was held for two days with three sessions per day. There were 39 participants for the orientation. A more formal two-day online training was offered and had 30 participants.



WATER OPERATIONS (continued)

This system provides insight into our electrical systems with sophisticated Power Quality (PQ) meters throughout many GLWA facilities. The project installed a new PME server, updated all the electrical graphics for metered facilities and provided dashboards and reporting. This will be a valuable tool for monitoring energy usage and investigating electrical issues.

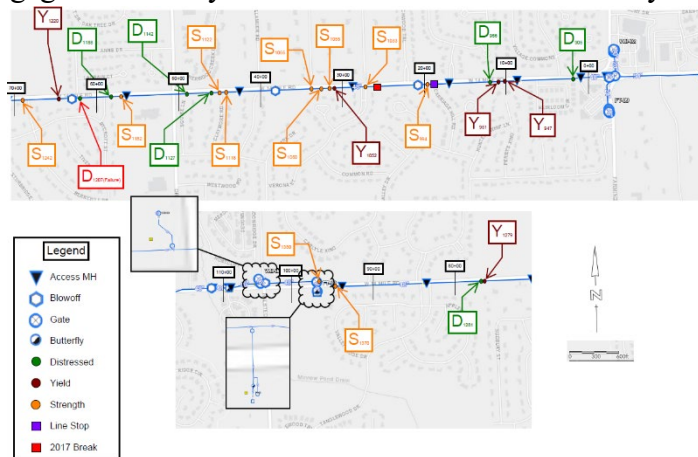
The upgrade will be in place as a project to PQ meter all pumping units at Northeast, Southwest and Water Works Park water treatment plants is concluding.

Research

14 Mile Road Pipe Break – Forensic Analysis

The ERI team is assisting the forensic analysis of the 14 Mile Road pipe break by engaging university resources to assist in additional structural, corrosion, and analytical analysis. Sticks of the 14 Mile pipe currently being removed for the repairs will be used for subsequent analyses by both the contractor team and by ERI-engaged university resources. These additional analyses represent emerging analytical techniques that might provide new understanding of the pipe degradation characteristics.

The figure to the right shows an assessment of the 14 Mile Road pipe characteristics adjacent to the 2017 and 2021 pipe breaks. The pipe breaks are shown in red. The pipe sticks (lengths of pipe) being removed are adjacent to the pipe break or new valve installations required for the repair.



Detroit River Buoy – End of its First Season

Together with the Water Operations and Water Quality teams, we initiated the placement of a buoy collecting real-time source water quality data in the Detroit River (DR). The buoy, the only one in the DR, was first deployed in September this year located about 1.6 miles upstream of the Southwest Intake.

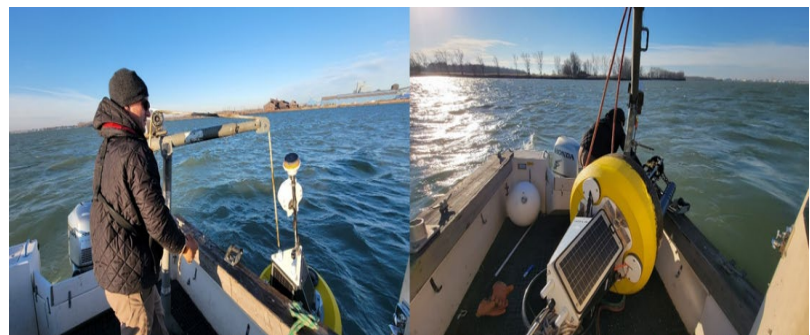


Figure 1: Buoy retrieval on November 30th

WATER OPERATIONS (continued)

The buoy provides data ahead of the intake and can serve as an early warning for changing water quality. Parameters include oxygen reduction potential, temperature, dissolved oxygen, conductivity, pH, turbidity and 'total algae'. Last Tuesday, the buoy had to be removed for the season (Fig.1, shown above) but will be re-deployed in the spring of 2022.

For the last three months we were able to gather important baseline water quality data for the Detroit River. A focus of this project was the detection of Harmful Algae Blooms (HABs). While HABs can also refer to algae, the main HAB of concern are toxic cyanobacteria.

These are technically not algae but phototrophic bacteria. Lake St. Clair, upstream of the DR, regularly experiences such HABs during the summer months. The buoy serves as a prewarning system if biomass from these blooms is detected downstream in the DR (Fig. 2).

During a rain event in October a turbidity increase was observed at the buoy before reaching the water treatment plant (WTP), which corroborated the buoy's predictive value. Overall, the data from the buoy and WTP showed the same trends.

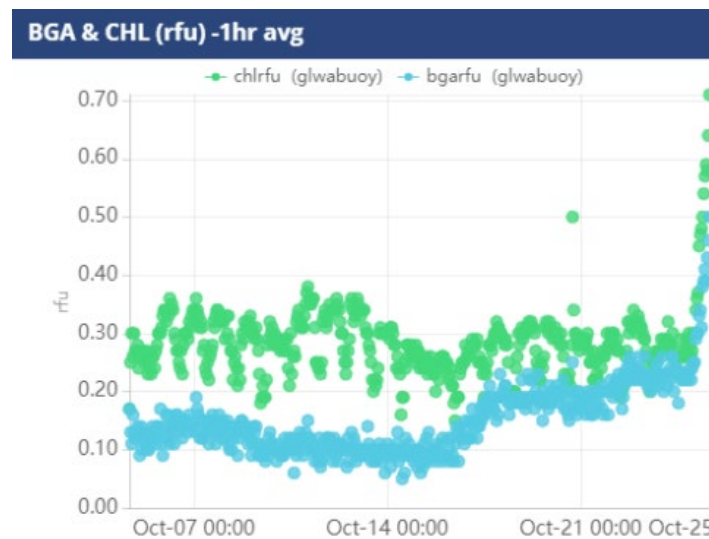


Figure 2: A peak for 'Total Algae' indicators was observed in October (left).

WATER OPERATIONS (continued)

Engineering

Contract No. 2000610

“Yard Piping, Valves, and Venturi Meters Replacement at Water Works Park”

Project Manager: Jacob Mangum

The contractor has completed construction on the new Water Works Park security entrance including the new entrance road, perimeter lighting, security gates, and guardhouse. Training for security and maintenance team members is scheduled and it is expected that the new entrance will be open for use at the beginning of February 2022, once final acceptance is complete.

Work has now begun in preparation of isolation of the eastern portion of the transmission mains leaving the WWP high lift building. This work includes installation of linestop sleeves and thrust blocking at ten locations in the yard. Linestop sleeves being installed range in size from 30-inches to 72-inches.

The large concrete thrust blocks being formed and poured will restrain the water mains once they are cut and capped until the new water mains are installed. Simultaneous to this work electrical duct banks and handholes are being installed to provide power and instrumentation lines to future valve vaults.



WWP security entrance from Jefferson Ave.



WWP security entrance from plant

WATER OPERATIONS (continued)



Electrical duct bank and handhole supplying power and instrumentation lines to future valve vaults



48-inch linestop sleeve ready for installation



Pouring concrete for thrust block on the Garland-Charlevoix water main in preparation for linestop installation

INFORMATION TECHNOLOGY

In the past month, the IT Security Team has proactively blocked or thwarted 15,196 spam messages, 7,345 spoofed messages and 4 viruses. Additionally, 985 phishing attempts have been caught and 358 malware attempts have been blocked. The IT Security Team has worked in conjunction with the IT application and infrastructure teams to mitigate or patch all risks that were associated with the critical vulnerability identified by the Cybersecurity and Infrastructure Security Agency (CISA) (Log4j Vulnerability) on December 14, 2021. The IT Security Team continues to monitor the vulnerability to ensure there are no additional risks.

The IT Business Productivity Team, along with team members from GLWA's Water Engineering and Wastewater Operations Groups, kicked-off a project to scan GLWA's document into our document management retention system. An estimated 100K documents will be scanned at GLWA's Water Resources Recovery Facility in the first year of the engagement.

INFORMATION TECHNOLOGY (continued)

The IT Infrastructure Team has completed the project to back up GLWA’s Microsoft cloud hosted suite of products. All items related to One Drive, Teams, SharePoint, and Email are now being backed up to a separate cloud to ensure recoverability.

The IT Enterprise Asset Management Systems Team, along with the Enterprise Asset Management Group have kicked off the implementation of NEXGEN as GLWA’s new Enterprise Asset Management (EAM) system. A cross-functional implementation team of EAM users represented by team members across most of GLWA areas and groups has been assembled. This team will provide vital input while we embark on the first phase of the project, Project and Implementation Planning, to establish system requirements and business processes that best fit GLWA’s way of work and asset management.

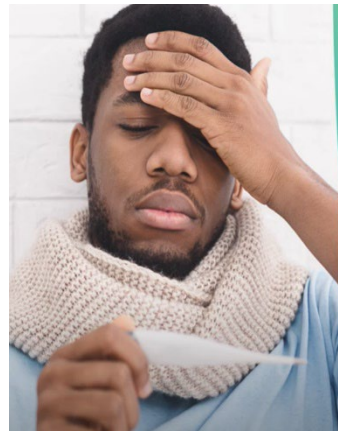
Currently, the IT PMO is managing 23 active projects and is processing 20 project requests.

PUBLIC AFFAIRS

Keeping Team Members Safe

The Public Affairs Team worked with Interim CEO Sue Coffey to produce a new “Keeping Team Members Safe” video. The focus of the video was reminding team members not to let their guards down on safety protocols and what they need to do to protect themselves, and those around them.

The video used graphics to reiterate four main points: If you are not feeling well, do not come to work; If you are feeling well, take your temperature to make sure you don’t have a fever; Complete GLWA’s COVID daily screening questionnaire; and Wear a mask properly and where required. You can watch the video by clicking [HERE](#).



If you are feeling well and are able, take your temperature before leaving home, and if it is at or over 99°, **STAY HOME** and call your Leadership Team Member.

Virtual Visits with Team Members on Flexible Work Arrangement

Public Affairs has facilitated and scheduled meetings between Interim CEO Sue Coffey and GLWA team members on flexible work arrangements. These 20-minute meetings conducted on the Teams platform are a way for her to introduce herself, learn more about team members roles at GLWA, hear how they’re doing and what’s on their mind.

PUBLIC AFFAIRS (continued)

The virtual meetings come on the heels of in-person visits with team members at all five water treatment facilities, the Water Resource Recovery Facility, Central Services Facility and Conner Creek CSO.

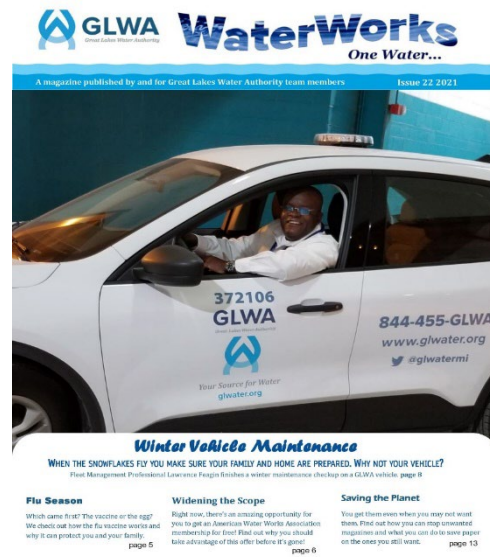
Michigan Water and Wastewater Professionals Week

When Michigan Governor Gretchen Whitmer proclaimed December 13-19, 2021, as Water and Wastewater Professionals Workforce Week, the Public Affairs Team came up with a number of different ways to celebrate our team members and the hard work and dedication each of them provides every single day. Graphics were designed featuring GLWA team members to thank them for making GLWA the provider of choice for drinking water of unquestionable quality and environmentally safe and healthy wastewater services. The graphics were also used in a social media campaign to educate the public with fun facts about GLWA and the water sector. As a “sweet” way to bring the week to a close, cookies (individually wrapped for everyone’s safety!) were delivered to each of our facilities as a small token of our appreciation for everyone’s hard work.



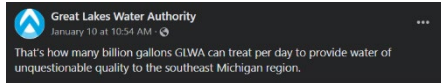
WaterWorks Magazine Issue 22

Issue 22 of WaterWorks Magazine was released on Tuesday, December 21, 2021. The cover features Fleet Management Professional Lawrence Feagin after finishing a winter maintenance checkup on a GLWA vehicle. Stories included some great tips for preparing your own vehicle for winter weather from our Fleet Group, the perks of owning your own chickens and why the flu vaccine is so important.



PUBLIC AFFAIRS (continued)

Social Media Graphics



Public Affairs created new “Big Numbers” graphics and started publishing them on GLWA’s social media channels. The new design, which can potentially be published on other platforms, is geared towards educating the public about the water sector’s big picture activities in an even more visually appealing way.

Holiday Greeting Video

The Public Affairs Team had to get creative in the midst of the ongoing coronavirus (COVID-19) pandemic to produce a GLWA team holiday video. Since the team could not record a video in person, we asked team members to connect with their One Water teammates, old and new, by showing us what they enjoy most about the holidays. Team members sent in videos and photos showing what they were doing to get into the holiday spirit. You can watch the video by clicking [HERE](#).

Interim CEO Holiday Message

Public Affairs and Interim CEO Sue Coffey collaborated to produce two special holiday message videos. One focused on GLWA team members, and the other on our member partners. In the messages, Sue wished everyone a safe and healthy holiday season.

She thanked team members for the great work they’ve done all year in challenging circumstances and noted that our strong teamwork will carry us forward, together, into the future. In the member partner video, Sue thanked everyone for their continued partnership and spoke about how important it is to continue to work together and focus on regional collaboration.

Watch the team member video by clicking [HERE](#).

Watch the member partner video by clicking [HERE](#).

SECURITY AND INTEGRITY

The Hazmat Unit coordinated and completed a total of 66.5 hours of training during the month.

The Security and Integrity Group continues to participate in the daily Emergency Operations Center’s ongoing COVID-19 Pandemic briefings.

The Group has finalized the development of the Emergency Preparedness Team with the Financial Services Area.

Lastly, the Group continues to participate in the emergency response to the Oakland County Emergency Operations Center for the 14 Mile Road water main break.

ORGANIZATIONAL DEVELOPMENT

Performance, Progression and Apprenticeships

Apprenticeships

EICT-E and Maintenance Technician apprentices continue to progress with the respective on the job training. All apprentices assigned journey workers and team leaders provided positive feedback on performance, skills and understanding of GLWA processes. The EICT-E related training instruction materials included PVC fittings, fire ratings, firestopping, and using the Code, Standards, and Practices 2, Level II, based on the 2020 NEC. The EICT-E overall class grade has an average grade of 90 percent. The Maintenance Technician continue to achieve high grades ranging between 85% and 94% in class performance. The apprentices have maintained 100% class attendance at Henry Ford College.

Progression

The 2021 Progression Cycle launched on November 18, 2021 and closed on January 12, 2022. We had 316 progression reviews completed.

Talent Management

Staffing

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

Number of New Hires	3
Number of Separations	9
Total Staffing - Regular FTEs (YTD)	984

ORGANIZATIONAL DEVELOPMENT (continued)

Professional Development Certification Program

Team leaders, chemists represented by SWSCA, and maintenance technicians represented by BTC participated in the Professional Development Certification Program during October and November. One hundred and two (102) team members received a certification stipend for submitting a valid and job classification specific Michigan Department of Environment, Great Lakes, and Energy (EGLE) certification during December.

Benefits/Wellness

GLWA provides the Omada Wellness program to team members and their families. It is a 16-week chronic disease prevention program that helps participants lose weight and maintain the loss. To date, the total pounds lost by 40 participants is 389.7 pounds over two years, with a 35% - 85% range in a projected reduction in risk for chronic diseases like heart disease and diabetes over the next three years.

We celebrate their progress together in working towards a healthier lifestyle!

Training

During the month of **December**, **82** GLWA team members completed **six** non-safety courses and **10** safety courses. **Seven** GLWA team members and **one** member partner completed **20** online 360Water courses.

FINANCIAL SERVICES AREA

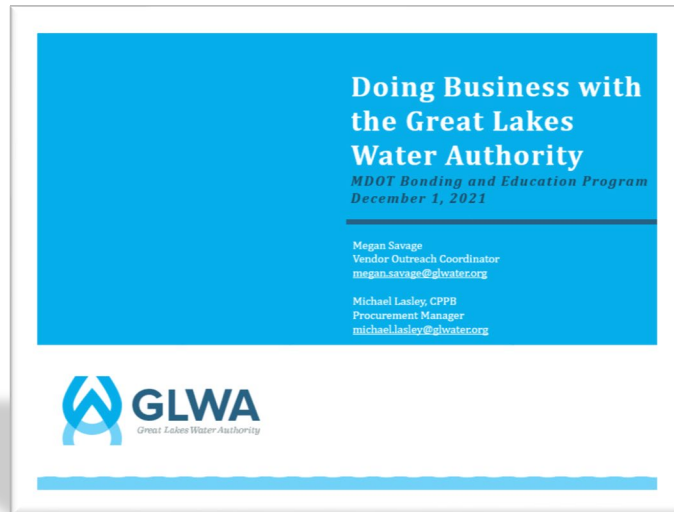
The most recent Audit Committee meeting was held on Friday, December 17, 2021. The GLWA Audit Committee binders are publicly available at www.glwater.org. The meeting included the following topics.

- ✓ Discussion Draft: FY 2022 & FY 2023 Biennial Budget and Five-Year Plan, Proposed FY 2023 Charges with Supporting Materials, and Updated Long-Term Plan
- ✓ Review of the September Monthly Financial Report (Executive Summary attached).
- ✓ Highlights of monthly Business Inclusion and Diversity program activities.
- ✓ Presentation of the Quarterly Construction Work in Progress (CWIP), Water Residential Assistance Program (WRAP), and Debt Reports.
- ✓ Distribution of the latest Procurement Pipeline (attached)
- ✓ Introduction of a Water Utility Assistance Program Reference Guide (attached)

FINANCIAL SERVICES AREA (continued)

Vendor Outreach Update

On December 1, 2021, Megan Savage and Michael Lasley delivered a presentation to the participants of the Michigan Department of Transportation (MDOT) Bonding and Education Program. Over 40 small and disadvantaged businesses, all members of MDOT’s Bonding and



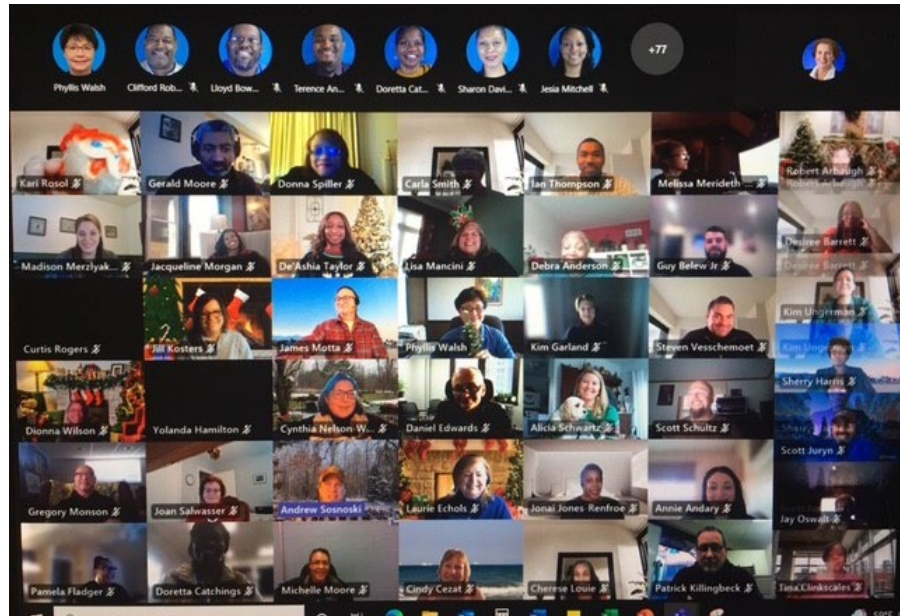
Education Program, pre-registered and participated in the virtual event where GLWA was also joined by procurement representatives from the State of Michigan. In their presentation, “Doing Business with the Great Lakes Water Authority,” Megan and Mike discussed helpful information on navigating GLWA’s procurement process, from creating a vendor profile in GLWA’s Bonfire Portal to submitting a complete and competitive bid or proposal response to any GLWA solicitation. Also featured in the presentation were the requirements for

GLWA’s Business Inclusion and Diversity (B.I.D.) Program, which was formally launched in February 2021 and is designed to maximize opportunities for small, minority-owned, and disadvantaged businesses in GLWA’s service territory area. As always, GLWA welcomed the opportunity to connect with the vendor community and answer their questions.

FINANCIAL SERVICES AREA (continued)

FSA Holiday Meeting

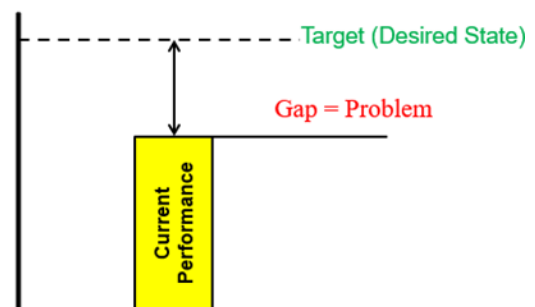
FSA continues to support communication and connections between team members through regular group meetings. The group recently met to discuss updates from Interim CEO Sue Coffey, celebrate individual team accomplishments from 2021, and share holiday greetings.



Transformation Team Gap Analysis Process

The Transformation Team has developed a simple gap analysis process to help team members to define and address critical business needs and problems. Performing a gap analysis is a part of the Define phase in the Lean Six Sigma (LSS) DMAIC journey. DMAIC is the problem-solving approach that drives Lean Six Sigma. This five-phase methodology of Define, Measure, Analyze, Improve and Control is used for improving existing process problems with unknown causes.

Gap analysis is a key tool that follows a systematic approach to measure the difference between the performance of the current state and the desired or future state. The resultant measure is known as a gap. Another name for gap is problem and if our GLWA team members can learn to identify and measure the problem(s), these problems can be solved, and process improvement implemented.



The simple steps that you'll need to follow to conduct your own gap analysis are:

1. Select the process you are planning to improve and form a team with team members associated with the process.
2. Investigate! Walk the process and document the current state in detailed steps, take pictures, draw sketches, make observations, and ask many questions.
3. Brainstorm and document the desired future state in terms of process flow, roles, responsibilities, resources, organizational business objectives, compliance obligations and process controls to sustain the gains.
4. Identify the gap by brainstorming the problem/issue and jot down pain points.
5. Define the gap or problem with a concise statement and metrics.

FINANCIAL SERVICES AREA (continued)

6. Define the potential steps and resources needed to move from our current state to our desired state. (See the diagram below for an example of how to organize these components of your analysis.)

Current State		GAP Analysis		Future State		Suggested Improvements	
Process Flow Chart	Detail Of Operation	Potential Areas Of Interest	Detail Of Operation/Desired State	Sketch/Photo/Drawing	Sketch/Photo/Drawing	Long-Term PCA	Long-Term PCA
	1		1				
	2		2				


7. Pilot, work out bugs, and implement long-term, permanent, corrective actions.
8. Celebrate team success!!!

For additional guidance and support in conducting a successful gap analysis, reach out to the Transformation Team using the following link: [Transformation Request for Training](#).

Procurement Pipeline

The December 2021 Procurement Pipeline edition is attached. This month features the introduction of a Business Inclusion and Diversity (B.I.D.) program vendor diversity form, reminders on visitor COVID-19 access requirements and safety protocols, and a listing of upcoming solicitations.

The General Counsel’s January, 2022 Report is an attachment to the Interim Chief Executive Officer’s Report.

Respectfully submitted,

 Suzanne R. Coffey, I.E.
 Interim Chief Executive Officer

SFM/dlr
 Attachment

- Executive Summary – September, 2021
- Procurement Pipeline - December, 2021
- Water Utility Assistance Program Reference Guide
- General Counsel January, 2022 Report

Key Financial Metrics

The table below provides key report highlights and flags the financial risk of a budget shortfall by year-end as follows:

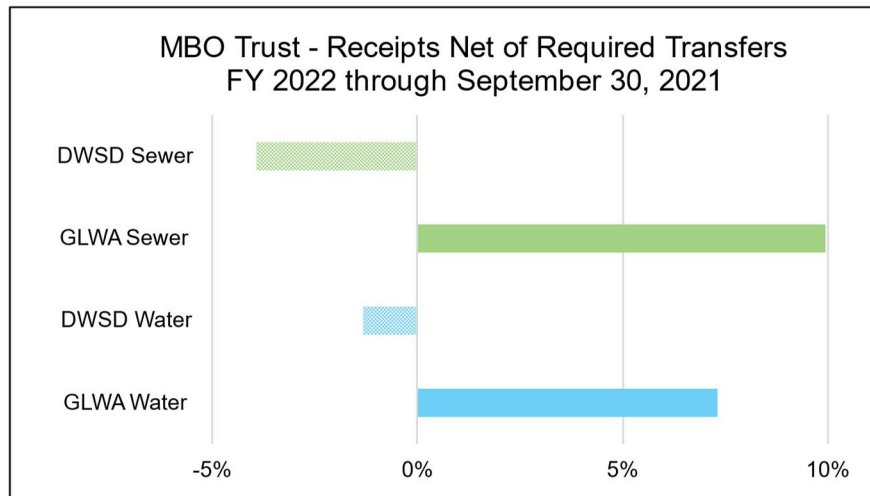
No Risk (green) - Potential (yellow) - Likely (red)

Each variance is monitored by the Great Lakes Water Authority (GLWA) management and, where appropriate, operating and/or budget priorities are re-evaluated. Budget amendments are prepared and presented quarterly based on most current information. To address the wholesale water revenue shortfall, a first quarter budget amendment was approved for \$2.4 million.

As of September 30, 2021				
Metric	FY 2022 Budget	FY 2022 Actual	Variance from Financial Plan	Report Page Reference
Wholesale Water Billed Revenue (\$M)	\$94.0	\$89.3	-5%	47
Wholesale Water Billed Usage (mcf)	4,503,000	4,059,000	-10%	
Wholesale Sewer Billed Revenue (\$M)	\$67.8	\$67.8	0%	49
Wholesale Water Operations & Maintenance (\$M)	\$36.0	\$32.3	-10%	5
Wholesale Sewer Operations & Maintenance (\$M)	\$45.3	\$40.0	-12%	
Investment Income (\$M)	\$0.8	\$1.1	47%	37
Water Prorated Capital Spend w/SRA* (\$M)	\$33.8	\$38.2	13%	28
Sewer Prorated Capital Spend w/SRA* (\$M)	\$20.3	\$15.5	-24%	29

*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 54)



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

shortfall of \$330 thousand and DWSD Sewer reports a shortfall of \$2.8 million through September 2021. On August 26, 2021, the DWSD Board of Water Commissioners proactively adopted budget amendments to address potential shortfalls for FY 2022. These budget amendments will be reflected in the October 2021 report.

The current DWSD loan receivable balance for fiscal year 2018 is \$6.2 million.

Budget to Actual Analysis (page 3)

- FY 2022 information includes the first quarter budget amendments which were approved by the GLWA Board on December 8, 2021.
- The total Revenue Requirements are on target through September 2021.
- The total Operations & Maintenance expenses are at 22.2% of budget through September 2021.

Basic Financial Statements (page 9)

- The Basic Financial Statements are prepared on a full accrual basis and reflect preliminary, unaudited results.
- Operating income for September 2021 is \$31.0 million for the Water fund (32.8% of total revenues) and \$38.6 million for the Sewer fund (32.5 % of total revenues).
- Water Net Position increased by \$8.1 million, and Sewage Disposal Net Position increased by \$9.0 million for the year to date through September 2021.

Capital Improvement Plan Financial Summary (page 27)

- Water systems exceed the 75% Capital Spend Ratio assumption.
- Sewer systems did not meet the 75% Capital Spend Ratio assumption.

Master Bond Ordinance Transfers (page 30)

- For September, transfers of \$13.5 million and \$17.6 million were completed for the GLWA Water and Sewer funds, respectively.
- Also for September, transfers of \$4.6 million and \$8.3 million were completed for the DWSD Water and Sewer funds, respectively.

Cash Balances & Investment Income (page 36)

- Total cash & investments are \$433 million in the Water fund and \$410 million in the Sewer fund.
- The total combined cumulative investment income for FY 2022 through June is \$1.1 million.

DWSD Retail Revenues, Receivables & Collections (page 41)

- Water usage through September 30, 2021 is at 110.68% and revenues at 101.86% of budget.
- Sewer usage through September 30, 2021 is at 104.22% and revenues at 100.17% of budget.
- Combined accounts receivable balances for the water and sewer funds report an increase of \$40.7 million over the prior year.
- Past dues over 180 days make up 65.4% of the total accounts receivable balance. The current bad debt allowance covers 97% of past dues over 60 days.

GLWA Wholesale Billing, Receivables & Collections (page 46)

- GLWA accounts receivable past due balance net of Highland Park is 8.3% of the total accounts receivable balance, with the majority of that balance related to one water account dispute currently under discussion.
- The Highland Park past due balance is \$50.2 million. It includes \$38.4 million for wastewater treatment services, \$1.8 million for industrial waste control services, and \$10.0 million for water supply services. Highland Park has not made a payment for FY 2022 through September 2021. The GLWA Legal team is pursuing options for additional collections.

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

Welcome to the December edition of *The Procurement Pipeline*, a monthly newsletter designed to provide updates on doing business with the Great Lakes Water Authority (GLWA).

New! Business Inclusion and Diversity (B.I.D.) Program Vendor Diversity Plan Form

Under GLWA's Business Inclusion and Diversity (B.I.D.) Program, launched on February 1, 2021, a Diversity Plan for solicitations budgeted at \$1 million or more is a mandatory requirement. A successful Diversity Plan outlines the vendor's efforts to maximize opportunities for participation by small, minority-owned, and disadvantaged business subcontractors on the specific GLWA solicitation to which they are responding.

To streamline and guide the process of creating your Diversity Plan, a new version of GLWA's [B.I.D. Requirements](#) document now includes a Diversity Plan form that vendors must complete when responding to a B.I.D.-qualifying solicitation. Completing this fill-in form will replace the current Diversity Plan requirement to submit a written document of no more than three single-spaced pages, including an executive summary.

When reviewing the new B.I.D. Diversity Plan form, please note the following:

- The form identifies mandatory and optional fill-in text fields and charts as well as provides instructions on the information requested for each. Please complete all mandatory fields.
- Vendors submitting documentation of diversity certifications held, or additional supplemental evidence of their diversity and inclusion efforts, are instructed to attach these files to the completed Diversity Plan form document as one combined file before uploading to the Bonfire project page.

The new Diversity Plan form is available to view on the [GLWA Vendor Webpage](#) and will be included with forthcoming B.I.D. qualifying solicitations when advertised in GLWA's [Bonfire Procurement Portal](#). Any additional questions regarding the new

form or GLWA's B.I.D. Program requirements may be directed via email to [Michael Lasley](#) and [Megan Savage](#).

Reminder: Visitor COVID-19 Access Requirements and Safety Protocols to Remain in Effect Until Further Notice

On August 24, 2021, GLWA issued [Coronavirus Update #137](#) to the vendor community stating that all current Visitor COVID-19 Access Requirements will remain in effect until further notice. For a full overview of GLWA's Visitor COVID-19 Access Requirements, please review [Coronavirus Update #137](#). Any additional questions may be directed to [Michael Lasley](#) and [Megan Savage](#).

Virtual Vendor Introduction Meetings with GLWA

If you are interested in learning more about doing business with GLWA, contact us at GLWAVendorOutreach@glwater.org to schedule a vendor introductory meeting. Topics include helpful information on submitting a competitive bid or proposal to a GLWA solicitation, as well as the requirements for GLWA's Business Inclusion and Diversity (B.I.D.) Program.

Keeping up with GLWA

Our Interim Chief Executive Officer (ICEO) Monthly Report provides a wealth of information and news about important initiatives within GLWA's service territory area that impact GLWA, its member partners, and the public. To read the November 2021 Monthly Report, please click [here](#).

What's Coming Down the Pipe?

Current Solicitations: Be sure to register in GLWA's [Bonfire Procurement Portal](#) for new solicitations and contract award information.

Upcoming Procurements: Next Three to Nine Months—See newsletter pages 2-3.

Visit GLWA online!

To see the GLWA Vendor homepage, please visit www.glwater.org or contact us via email at procurement@glwater.org.

Upcoming Solicitations December 2021

Category	Description	Budget Estimate
Water System (next three months)		
Progressive Design Build	Lake Huron Water Treatment Plant, Filter Instrumentation and Raw Water Flow Metering Improvements (CIP #111006)	\$24,428,000
Wastewater System (next three months)		
Construction	HAZMAT (Hazardous Material) Building Renovation (CIP #216010)	\$1,500,000
Request for Qualifications	WRRF Rehabilitation of Intermediate Lift Pumps (ILPs) 1 & 2 and Modifications to Aeration Decks 1 & 2 to Incorporate Biological Phosphorus Removal and Step Feed (CIP #212008)	\$60,000,000
Design	Architectural & Safety Improvements to CSO Facilities (CIP #260600)	\$1,400,000
Design	WRRF Improvements to Sludge Feed Pumps (CIP #213006)	\$1,900,000
Water System (next four to nine months)		
Materials & Equipment	Springwells WTP Pumping Unit Procurement Package (CIP #114002 Contracts E thru G)	\$56,000,000
Materials & Equipment	Springwells WTP Process Valve Procurement Package (CIP #114002 Contracts H thru I)	\$12,500,000
Wastewater System (next four to nine months)		
Construction	Pump Station #1 Screenings Building HVAC Improvements (CIP #211006)	\$1,000,000
Construction	Connor Creek Sewer System Rehabilitation (CIP #260204)	\$40,000,000
Construction	WRRF Pump Station #1 Improvements (CIP #211006)	\$55,000,000
Design	Hubbell Southfield Flushing and Facility Improvements (CSO) (CIP #273001)	\$5,500,000
Design	Baby Creek and Belle Isle Facilities Control Improvements (CSO) (CIP #270006)	\$502,500
Construction	Freud Pump Station Improvements (CIP #232002)	\$75,000,000
Projects moved to Procurement Team (Preparing for solicitation on Bonfire)		
Construction	WRRF Administration Building 4 th Floor Renovation (Old CIP #216010, New CIP #260902)	\$3,250,000
Construction	Generator Improvements (Controls upgrades, Generator modifications) (CSO) (CIP #260622)	\$2,000,000
Maintenance Services	Facilities Maintenance Services (O&M)	\$25,500,000
Progressive Design Build	Lake Huron Water Treatment Plant, Filter Instrumentation and Raw Water Metering Improvements (CIP #111006)	\$22,000,000
Professional Services	SCADA System Professional Services (O&M)	\$5,500,000
Progressive Design Build	Lake Huron Water Treatment Plant: Progressive Design Build of Instrumentation and Control Improvements (CIP #111006)	\$25,000,000
Design Build	WRRF Structural Improvements (CIP #216011)	\$12,000,000
Construction	Conveyance System Infrastructure Improvements - Regulators and Backwater gate chambers (CIP #260701)	\$40,000,000
Construction	Rehabilitation of Northwest Interceptor from 8 Mile Road to Warren Pierson (CIP #260205)	\$7,000,000
Professional Services	Virtual Tour and Laser Scanning Services (O&M)	\$1,000,000
Professional Services	Elevator Preventative Maintenance (O&M)	\$1,645,728
Professional Services	As Needed and Emergency Roof Repairs (O&M)	\$3,000,000

Vendors should continue to monitor [Bonfire](#) for solicitation updates.

Acronyms		
WRRF: Water Resource Recovery Facility	CSO: Combined Sewer Overflow	WTP: Water Treatment Plant

Water Utility Bill Assistance Programs – Updated 12/8/21

Program	Funding Source	Maximum Household Eligibility	Program Details	Total Allocation	Administered By
CERA (Covid Emergency Rental Assistance)	Consolidated Appropriations Act and American Rescue Plan Act (ARPA)	Maximum of \$2,500 (dependent on household size)	<ul style="list-style-type: none"> • Renters-only program • Program pays for utility bills and rent assistance and can provide a bill credit • Eligibility based on household incomes up to 50-80% of the area median income (AMI). • Funds go directly to water utilities 	\$622 million to be fully allocated by September 30, 2025	Michigan State Housing Development Authority through the Community Action Agencies (CAA)
LIHWAP (Low Income Household Water Assistance Program)	ARPA	\$650 or, through a waiver, total arrearage balance	<ul style="list-style-type: none"> • Payments may be made to reduce arrearages and rates charged to low-income households that are at or below 150% of the federal poverty level (FPL) • Household must be facing a shut-off to qualify for additional funds • Funds go directly to water utilities 	\$36 million to be fully spent by December 31, 2023	Michigan Department of Health and Human Services (MDHHS) through the CAAs
WRAP (Water Residential Assistance Program)	Great Lakes Water Authority (GLWA) revenue	<ul style="list-style-type: none"> • \$2,000 for conservation and plumbing • \$300 for bill payment assistance • \$1,200 in arrearage assistance 	<ul style="list-style-type: none"> • Program provides bill payment assistance, assistance with reducing arrearages, and household minor plumbing and conservation services to eligible low-income households within the GLWA service territory • Eligible households must be at or below 200% of the FPL and responsible for their water bill • Households are eligible for up to two years of arrearage and bill payment assistance • Funds go directly to water utilities 	0.5% of budgeted revenues (\$6.2 million for FY2022)	GLWA, in partnership with the CAAs
Household Relief (expired October 2020)	The Coronavirus Aid, Relief, and Economic Security (CARES) Act	\$700 towards water and sewer bill	<ul style="list-style-type: none"> • Funds went directly to water utilities towards paying past due balances. • Customer accounts were matched to households receiving Supplemental Nutrition Assistance Program (SNAP) benefits • 116 water utilities in Michigan participated 	\$20 million (one time)	MDHHS



Office of the General Counsel

735 Randolph Street, Suite 1900
Detroit, Michigan 48226

Office of the General Counsel – January 26, 2022

- **COVID-19:** The Office supports GLWA’s response to the COVID-19 pandemic, including participating in GLWA’s COVID-19 Task Force, review of COVID-19 related laws, rules and public health orders.
- **NPDES ACO Dismissal:** The Office assisted in preparing documents to have the ACO’s dismissed.
- **Legislative Updates:** The Office is also monitoring infrastructure spending bills at the federal and state level.
- **Gordie Howe International Bridge:** GLWA submitted its relocation reimbursement request to MDOT and received MDOT’s response. GLWA is appealing MDOT’s decision.
- **June and July Rain Events:** The Office is providing legal support in response to the significant rain events in June and July. To date, 10 lawsuits were filed against GLWA related to the rain events.
- **Trenton Water Main:** The Office is negotiating the transfer of the 24-inch water main to GLWA.
- **Training:** Office members attended the following training opportunities “American Bar Association National Environmental Enforcement Conference;” “EGLE 2021 Great Lakes PFAS Summit;” and the “CMS Vaccine Mandate Lawsuits create further Uncertainty for Employers.”
- **Contract Negotiations:** GLWA will attempt to secure long term contracts with all communities that are not on the model contract. The Office is working with member partners to draft a new model sewer contract. Office staff completed the Designated Management Agreement with SEMCOG. The water contract negotiation team has begun preparations for the 2022 contract alignment/reopener process for all 84 member partners plus Detroit. Negotiations begin in March and continue through October.
- **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.
- **Record Retention Policy:** The Office is drafting a record retention policy for GLWA.
- **Industrial Pretreatment Program:** The Office continues to work with the Industrial Waste Control (“IWC”) Group and external stakeholders on finalizing and implementing an updated IPP.

To date, 99% of the communities have passed a concurring resolution and GLWA made a presentation to the City of Highland Park’s City Council, which is the only community that has not passed a concurring resolution. The Office is also providing assistance on PFAS

and PFOS matters.

- **Real Estate:** The Office is negotiating easements related to support the Baby Creek CSO infrastructure improvement project. The Office is negotiating the acquisition of property for the Newburgh pump station. The Office is negotiating easements related to 96” watermain relocation and the Woodward Sewer Project. The Office is negotiating a purchase agreement for 235 McKinstry.
- **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, including a class action lawsuit regarding IWC charges. The federal court awarded \$241,418.75 in attorney fees against Highland Park for its frivolous and groundless claims against GLWA and Sue McCormick.
- **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.

- **Statistics:**

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• Contracts approved as to form:	33
• Contracts drafted or revised:	110
• Subpoenas/Information requests received:	2
• Subpoenas/Information responded to:	7

- **Awards:** D-Business Magazine’s selected Kirsten Silwanowicz, Associate General Counsel, as a 2022 Top Corporate Counsel awardee.