



Audit Committee Meeting
Friday, July 28, 2023 at 8:00 a.m.
www.glwater.org

MEETING CANCELED – AGENDA ITEMS WILL BE MOVED FORWARD TO AUGUST 2023 MEETING

AGENDA

1. CALL TO ORDER
2. ROLL CALL
3. APPROVAL OF AGENDA
4. APPROVAL OF MINUTES
 - A. June 26, 2023 (Page 1)
5. PUBLIC PARTICIPATION
6. OLD BUSINESS
7. NEW BUSINESS
 - A. Annual Financial Audit Update (Page 8)
 - B. DWSD State Revolving Fund (SRF) Loans 7656-01 and 7657-01 (Page 18)
Grant Funded
8. REPORTS
 - A. CFO Report (Page 19)
 - B. Monthly Financial Report for April 2023 (Page 21)
 - C. Charges Outreach & Modeling Update (Page 22)
 - D. Affordability & Assistance Update (Page 23)
9. COMMUNICATIONS
 - A. The Procurement Pipeline for July 2023 (Page 25)
10. LOOK AHEAD
 - A. Next Audit Committee Meeting: August 25, 2023 at 8:00 a.m.
11. OTHER MATTERS
12. ADJOURNMENT



Great Lakes Water Authority

735 Randolph Street
Detroit, Michigan 48226
glwater.legistar.com

Meeting Minutes - Draft

Audit Committee

Monday, June 26, 2023

8:00 AM

Zoom Telephonic Meeting

Zoom Telephonic Special Meeting

Join Zoom Meeting:

<https://glwater.zoom.us/j/84077312854?pwd=cjJZUFJ6YnZ0VW9iaCtiS2tCeFVJQT09>

Join By Telephone

US Toll-Free:

877 853 5247; or 888 788 0099

Meeting ID: 840 7731 2854

Passcode: 953576

1. Call To Order

Chairperson Baker called the meeting to order at 8:01 a.m.

2. Quorum Call

Present: 3 - Chairperson Brian Baker, Director Gary Brown, and Director Jaye Quadrozzi

3. Approval of Agenda

Nicolette Bateson, Chief Financial Officer/Treasurer, requested to move item 8.I. (Update: Economic Outlook Task Force) to item 7.A.

Chairperson Baker requested a Motion to Approve the Agenda as Amended.

Motion By: Jaye Quadrozzi

Support By: Gary Brown

Action: Approved as Amended

The motion carried by a unanimous vote.

4. Approval of Minutes

A. [2023-231](#) Minutes of May 26, 2023

Sponsors: Nicolette Bateson

Indexes: Finance

Attachments: [4A May 26, 2023 Audit Committee Meeting Minutes](#)

Chairperson Baker requested a Motion to Approve the Minutes of the May 26, 2023 Audit Committee Meeting.

Motion By: Jaye Quadrozzi

Support By: Gary Brown

Action: Approved

The motion carried by a unanimous vote.

5. Public Comment

There were no public comments.

6. Old Business

None

7. New Business

A. (8.I.) [2023-249](#) Update: Economic Outlook Task Force

Sponsors: Nicolette Bateson

Indexes: Finance

Attachments: [8I1 Audit Committee Memo - Economic Outlook Task Force 3.24.2023](#)
[8I2 EOTF Quarterly Update_Audit Committee_6.23.23](#)

Motion By: Gary Brown

Support By: Jaye Quadrozzi

Action: Received and Filed

The motion carried by a unanimous vote.

B. [2023-232](#) **Resolution to Approve the FY 2023 Fourth Quarter Budget Amendments**

Sponsors: Nicolette Bateson

Indexes: Finance

Attachments: [7A0 FY 2023 4th Quarter Budget Amendment Report](#)
[7A2 FY 2023 Fourth Quarter Budget Amendment Report](#)
[7A3 Addendum 1 FY 2023 Fourth Quarter Budget Amendment Report cover](#)
[7A4 Addendum 1 FY 2023 Fourth Quarter Budget Amendment Report](#)
[7A5 Addendum 2 FY 2023 Fourth Quarter Budget Amendment Report cover](#)
[7A6 Addendum 2 FY 2023 Fourth Quarter Budget Amendment Report](#)
[7A7 FY 2023 Fourth Quarter Budget Amendment Resolution](#)

Motion By: Gary Brown

Support By: Jaye Quadrozzi

Action: Recommended for Approval to the Board of Directors

Agenda of June 28, 2023

The motion carried by a unanimous vote.

C. [2023-233](#) **Proposed GLWA Procurement Policy Amendment**

Sponsors: Nicolette Bateson

Indexes: Finance

Attachments: [7B1 AC Memo - Proposed Procurement Policy Amendment](#)
[7B3 GLWA Procurement Policy WORKING Draft 6.23.23](#)
[8C Business Inclusion and Diversity Program Update](#)

Motion By: Gary Brown

Support By: Jaye Quadrozzi

Action: Recommended for Approval to the Board of Directors

Agenda of June 28, 2023

The motion carried by a unanimous vote.

D. [2023-234](#) Resolution Regarding Approval of the Highland Park Bad Debt Recovery Credits Methodology and Approval of Schedule of Member Partner Bad Debt Recovery Credits #2023-1 Totaling \$1,000,000

Sponsors: Nicolette Bateson

Indexes: Finance

Attachments: [7C1 AC Memo Highland Park Bad Debt Expense Recovery Methodology](#)
[7C3 2023-234 Resolution.Legistar-Highland Park Bad Debt Expense Recovery Credits](#)
[7C3.1 Sewer Shares of Bad Debt Recovery](#)
[7C3.2 Water Shares of Bad Debt Recovery](#)
[7C4 TFG Memo Highland Park Recovery Credit 062023 FINAL](#)
[7C51 Bad Debt Recovery Credits #2023-1 by Member Partner](#)
[7C52 Sewer Bad Debt Recovery Credits by Member Partner 2023-1](#)
[7C53 Water Bad Debt Recovery Credits by Member Partner 2023-1](#)

Motion By: Jaye Quadrozzi

Support By: Gary Brown

Action: Recommended for Approval to the Board of Directors

Agenda of June 28, 2023

The motion carried by a unanimous vote.

8. Reports

A. CFO Report - Verbal

Nicolette Bateson, Chief Financial Officer/Treasurer, stated that the Financial Services Area is working to keep things balanced, as reported in today's meeting.

CFO Bateson gave a brief report on an opportunity she had to speak at the American Water Works Association's Annual Conference, which was attended by 10,000 people from all over the world, and the focus was discussion of climate risks, disclosures, and official statements/financial statements.

CFO Bateson also provided an update on Workday implementation.

B. [2023-243](#) Monthly Financial Report for March 2023

Sponsors: Nicolette Bateson

Indexes: Finance

Attachments: [8B March 2023 Financial Report](#)

Motion By: Gary Brown

Support By: Jaye Quadrozzi

Action: Received and Filed

The motion carried by a unanimous vote.

C. [2023-244](#) Business Inclusion and Diversity Program Update

Sponsors: Nicolette Bateson

Indexes: Finance

Attachments: [8C Business Inclusion and Diversity Program Update](#)

Motion By: Gary Brown

Support By: Jaye Quadrozzi

Action: Received and Filed

The motion carried by a unanimous vote.

D. [2023-245](#) Charges Outreach & Modeling Update

Sponsors: Nicolette Bateson

Indexes: Finance

Attachments: [8D Charges Outreach and Modeling Update - 06.23.23](#)

Motion By: Jaye Quadrozzi

Support By: Gary Brown

Action: Received and Filed

The motion carried by a unanimous vote.

E. [2023-242](#) Affordability & Assistance Update

Sponsors: Nicolette Bateson

Indexes: Finance

Attachments: [8E1 Affordability and Assistance Update](#)

[8E2 WRAP Quarterly Report FY23 Q3](#)

Motion By: Gary Brown

Support By: Jaye Quadrozzi

Action: Received and Filed

The motion carried by a unanimous vote.

Note: Chairperson Quadrozzi was excused from the remainder of the meeting at 9:45 a.m.

F. [2023-246](#) Quarterly Construction Work in Progress Report through March 31, 2023

Sponsors: Nicolette Bateson

Indexes: Finance

Attachments: [8F Quarterly CWIP Report FY 2023 Q3](#)

Motion By: Brian Baker

Support By: Gary Brown

Action: Received and Filed

The motion carried by a unanimous vote.

G. [2023-247](#) Semi-Annual Debt Report through March 31, 2023

Sponsors: Nicolette Bateson

Indexes: Finance

Attachments: [8G Semiannual Debt Report as of 3.31.2023](#)

Motion By: Gary Brown

Support By: Brian Baker

Action: Received and Filed

The motion carried by a unanimous vote.

H. [2023-248](#) Annual Pension Report

Sponsors: Nicolette Bateson

Indexes: Finance

Attachments: [8H0 GRS Component II Annual Pension Report](#)

[8H1 GRS Audit Communication Letter](#)

[8H2 GRS Audited Financial Report](#)

[8H3 GRS GASB 67-68 Report](#)

[8H4 DRAFT GRS Actuarial Valuation Report](#)

Motion By: Gary Brown

Support By: Brian Baker

Action: Received and Filed

The motion carried by a unanimous vote.

9. Communications

A. [2023-250](#) The Procurement Pipeline for June 2023

Sponsors: Nicolette Bateson

Indexes: Finance

Attachments: [9A The Procurement Pipeline for June 2023](#)

No Action Taken

10. Look Ahead

The next Audit Committee Meeting is scheduled for Friday, July 28, 2023 at 8:00 a.m.

11. Other Matters

There were no other matters.

12. Adjournment

Chairperson Baker requested a Motion to Adjourn.

Motion By: Gary Brown

Support By: Brian Baker

Action: Approved

The motion carried by a unanimous vote.

There being no further business, the meeting was adjourned at 9:57 a.m.



Financial Services Audit Committee Communication

Date: July 28, 2023

To: Great Lakes Water Authority Audit Committee

From: Steve Hoover, CPA, Financial Reporting Manager

Re: Annual Financial Audit Update

Background: Annually, the Great Lakes Water Authority (GLWA) prepares an Annual Comprehensive Financial Report (ACFR) and Schedule of Expenditures of Federal Awards (SEFA) in accordance with financial accounting standards and federal guidelines. Baker Tilly US, LLP (Baker Tilly) has been engaged to perform the GLWA annual financial audit and issue an opinion as to whether the financial statements are fairly stated in accordance with accounting standards for fiscal years ending 2022, 2023 and 2024.

Analysis: The GLWA Financial Services Area (FSA) has been preparing for the fiscal year ending June 30, 2023 audit by reviewing internal control walkthrough documents, reviewing vendor statements, preparing a tentative schedule for the audit, and working on preliminary close of the June 2023 period.

Before the auditors begin annual fieldwork, GLWA FSA presents the Audit Committee with the draft audit engagement letter and communication to formally share the intended scope and timing of the annual financial audit. Attached to this memo is the FY 2023 engagement letter draft from Baker Tilly outlining the full scope of Baker Tilly and GLWA management responsibilities associated with this year's annual financial audit.

A second attachment to this memo provides a communication from Baker Tilly related to the timing for the release of this year's audit report.

Proposed Action: Receive and file this report.



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May 31, 2023

Great Lakes Water Authority
735 Randolph Street, 15th Floor
Detroit, MI 48226

Thank you for using Baker Tilly US, LLP (Baker Tilly, we, our) as your auditors.

The purpose of this letter (the Engagement Letter) is to confirm our understanding of the terms and objectives of our engagement and the nature of the services we will provide as independent accountants of the Great Lakes Water Authority (Client, you, your).

Service and Related Report

We will audit the financial statements of the Great Lakes Water Authority as of and for the years ended June 30, 2023 and 2022, and the related notes to the financial statements. Upon completion of our audit, we will provide the Great Lakes Water Authority with our audit report on the financial statements and supplemental information referred to below. If, for any reasons caused by or relating to the affairs or management of the Great Lakes Water Authority, we are unable to complete the audit or are unable to or have not formed an opinion, or if we determine in our professional judgment the circumstances necessitate, we may withdraw and decline to issue a report as a result of this engagement.

The following supplementary information accompanying the financial statements will also be subjected to the auditing procedures applied in our audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America, and our auditor's report will provide an opinion on it in relation to the financial statements as a whole.

- > Combining and Individual Fund Schedules included within the Comprehensive Annual Financial Report

The following supplementary information will also be subjected to the auditing procedures applied in our audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America, and our auditor's report will provide an opinion on it in relation to the financial statements as a whole.

- > Schedule of Expenditures of Federal Awards (if in separate document from financial statements)

Accounting standards generally accepted in the United States of America provide for certain required supplementary information (RSI), such as management's discussion and analysis, to supplement the Great Lakes Water Authority's financial statements. Such information, although not a part of the financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the financial statements in an appropriate operational, economic or historical context. As part of our engagement, we will apply certain limited procedures to the Great Lakes Water Authority's RSI in accordance with auditing standards generally accepted in the United States of America. These limited procedures will consist of inquiries of management regarding the methods of preparing the information and comparing the information for consistency with management's response to our inquiries, the financial statements, and other knowledge we obtained during our audit of the financial statements. We will not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance. The following RSI is required by generally accepted accounting principles and will be subjected to certain limited procedures, but will not be audited:

- > Management's Discussion and Analysis
- > Defined Benefit Pension Plan Schedules

We will read the following other information accompanying the financial statements to identify any material inconsistencies with the audited financial statements; however, the other information will not be subjected to the auditing procedures applied in our audit of the financial statements and our auditor's report will not provide an opinion or any assurance on that other information:

- > Introductory Section
- > Statistical Section

Our report does not include reporting on key audit matters.

Our Responsibilities and Limitations

The objective of a financial statement audit is the expression of an opinion on the financial statements. We will be responsible for performing that audit in accordance with auditing standards generally accepted in the United States of America (GAAS). These standards require that we plan and perform our audit to obtain reasonable, rather than absolute, assurance about whether the financial statements are free of material misstatement, whether caused by error or fraud. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. A misstatement is considered material if there is a substantial likelihood that, individually or in the aggregate, it would influence the judgment made by a reasonable user based on the financial statements. The objective also includes reporting on:

- > Internal control related to the financial statements and compliance with laws, regulations and the provisions of contracts or grant agreements, noncompliance with which could have a direct and material effect on the financial statements in accordance with *Government Auditing Standards*.
- > Internal control related to major federal programs and an opinion (or disclaimer of opinion) on compliance with laws, regulations and the provisions of contracts or grant agreements that could have a direct and material effect on each major program in accordance with the Single Audit Act Amendments of 1996 and OMB *Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards* (Uniform Guidance).

The *Government Auditing Standards* report on internal control over financial reporting and on compliance and other matters will include a paragraph that states (i) that the purpose of the report is solely to describe the scope of testing of internal control and compliance, and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance, and (ii) that the report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. The Uniform Guidance report on internal control over compliance will include a paragraph that states that the purpose of the report on internal control over compliance is solely to describe the scope of testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Both reports will state that the report is not suitable for any other purpose.

We will be responsible for performing the audit in accordance with auditing standards generally accepted in the United States of America (GAAS); the standards for financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; the Single Audit Act Amendments of 1996; the Uniform Guidance, and will include tests of accounting records, a determination of major program(s) in accordance with the Uniform Guidance, and other procedures we consider necessary to enable us to express such opinions and to render the required reports.

As part of an audit in accordance with GAAS, we exercise professional judgment and maintain professional skepticism throughout the audit. We will also:

- > Identify and assess the risks of material misstatement of the financial statements and supplemental information, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- > Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. However, we will communicate to you in writing concerning any significant deficiencies or material weaknesses in internal control relevant to the audit of the financial statements and supplemental information that we have identified during the audit.
- > Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements and supplemental information, including the disclosures, and whether the financial statements and supplemental information represent the underlying transactions and events in a manner that achieves fair presentation.
- > Conclude, based on the audit evidence obtained, whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the entity's ability to continue as a going concern for a reasonable period of time.

Because of the inherent limitations of an audit, together with the inherent limitations of internal controls, an unavoidable risk that some material misstatements may not be detected exists, even though the audit is properly planned and performed in accordance with GAAS. Because the determination of abuse is subjective, *Government Auditing Standards* do not expect auditors to provide reasonable assurance of detecting abuse. Our audit will include examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. Our audit does not relieve management or those charged with governance of their responsibilities. Our audit is limited to the period covered by our audit and does not extend to any later periods during which we are not engaged as auditor.

Great Lakes Water Authority

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The audit will include obtaining an understanding of the Great Lakes Water Authority and its environment, including internal controls, sufficient to assess the risks of material misstatement of the financial statements and to determine the nature, timing and extent of further audit procedures. An audit is not designed to provide assurance on internal control or to identify deficiencies in internal control. However, during the audit, we will communicate to management and those charged with governance internal control matters that are required to be communicated under professional standards. We will also inform you of any other matters involving internal control, if any, as required by *Government Auditing Standards* and the Uniform Guidance.

Tests of controls may be performed to test the effectiveness of certain controls that we consider relevant to preventing and detecting errors and fraud that are material to the financial statements and to preventing and detecting misstatements resulting from illegal acts and other noncompliance matters that have a direct and material effect on the financial statements. Our tests, if performed, will be less in scope than would be necessary to render an opinion on internal control and, accordingly, no opinion will be expressed in our report on internal control issued pursuant to *Government Auditing Standards*.

As required by the Uniform Guidance, we will perform tests of controls over compliance to evaluate the effectiveness of the design and operation of controls that we consider relevant to preventing or detecting material noncompliance with compliance requirements applicable to each major federal award program. However, our tests will be less in scope than would be necessary to render an opinion on those controls and, accordingly, no opinion will be expressed in our report on internal control over compliance issued pursuant to the Uniform Guidance.

Also, if required by *Government Auditing Standards*, we will report known or likely fraud, illegal acts, violations of provisions of contracts or grant agreements, or abuse directly to parties outside of the Great Lakes Water Authority.

As part of obtaining reasonable assurance about whether the financial statements are free of material misstatement, we will perform tests of the Great Lakes Water Authority's compliance with the provisions of applicable laws, regulations, contracts and agreements, including grant agreements. However, the objective of those procedures will not be to provide an opinion on overall compliance and we will not express such an opinion in our report on compliance issued pursuant to *Government Auditing Standards*.

The Uniform Guidance requires that we also plan and perform the audit to obtain reasonable assurance about whether you have complied with applicable laws and regulations and the provisions of contracts and grant agreements applicable to major programs. Our procedures will consist of test of transactions and other applicable procedures described in the OMB Compliance Supplement for the types of compliance requirements that could have a direct and material effect on each of the Great Lakes Water Authority's major programs. The purpose of those procedures will be to express an opinion on your compliance with requirements applicable to each of your major programs in our report on compliance issued pursuant to the Uniform Guidance.

We are also responsible for determining that those charged with governance are informed about certain other matters related to the conduct of the audit, including (i) our responsibility under GAAS, (ii) an overview of the planned scope and timing of the audit, and (iii) significant findings from the audit, which include (a) our views about the qualitative aspects of your significant accounting practices, accounting estimates, and financial statement disclosures; (b) difficulties encountered in performing the audit; (c) uncorrected misstatements and material corrected misstatements that were brought to the attention of management as a result of auditing procedures; and (d) other significant and relevant findings or issues (e.g., any disagreements with management about matters that could be significant to your financial statements or our report thereon, consultations with other independent accountants, issues discussed prior to our retention as independent auditors, fraud and illegal acts, and all significant deficiencies and material weaknesses identified during the audit). Lastly, we are responsible for ensuring that those charged with governance receive copies of certain written communications between us and management including written communications on accounting, auditing, internal controls or operational matters and representations that we are requesting from management.

The audit will not be planned or conducted in contemplation of reliance of any specific third party or with respect to any specific transaction. Therefore, items of possible interest to a third party will not be specifically addressed and matters may exist that would be addressed differently by a third party, possibly in connection with a specific transaction.

Management's Responsibilities

You are responsible for identifying and ensuring that the entity complies with applicable laws, regulations, contracts, agreements, and grants and for taking timely and appropriate steps to remedy fraud and noncompliance with provisions of laws, regulations, contracts or grant agreements, or abuse that we report. Additionally, as required by the Uniform Guidance, it is management's responsibility to follow up and take corrective action on reported audit findings and to prepare a summary schedule of prior audit findings and a corrective action plan. The summary schedule of prior audit findings should be available for our review before we begin fieldwork.

Management is responsible for establishing and maintaining a process for tracking the status of audit findings and recommendations. Management is also responsible for identifying for us previous financial audits, attestation engagements, performance audits or other studies related to the objectives discussed above. This responsibility includes relaying to us corrective actions taken to address significant findings and recommendations resulting from those audits, attestation engagements, performance audits or studies. You are also responsible for providing management's views on our current findings, conclusions and recommendations, as well as your planned corrective actions for the report, and for the timing and format for providing that information.

You are responsible for the preparation of the supplementary information in conformity with GAAP. You agree to include our report on the supplementary information in any document that contains, and indicates that we have reported on, the supplementary information. You also agree to include the audited financial statements with any presentation of the supplementary information that includes our report thereon. Your responsibilities include acknowledging to us in the representation letter that (a) you are responsible for presentation of the supplementary information in accordance with GAAP; (b) that you believe the supplementary information, including its form and content, is fairly presented in accordance with GAAP; (c) that the methods of measurement or presentation have not changed from those used in the prior period (or, if they have changed, the reasons for such changes); and (d) you have disclosed to us any significant assumptions or interpretations underlying the measurement or presentation of the supplementary information.

You are responsible for preparation of the schedule of expenditures of federal awards (including notes and noncash assistance received) in conformity with the Uniform Guidance. You agree to include our report on the schedule of expenditures of federal awards in any document that contains and indicates that we have reported on the schedule of expenditures of federal awards. You also agree to make the audited financial statements readily available to intended users of the schedule of expenditures of federal awards no later than the date the schedule of expenditures of federal awards is issued with our report thereon. Your responsibilities include acknowledging to us in a written representation letter that (a) you are responsible for presentation of the schedule of expenditures of federal awards in accordance with the Uniform Guidance; (b) that you believe the schedule of expenditures of federal awards including its form and content, is fairly presented in accordance with the Uniform Guidance; (c) that the methods of measurement or presentation have not changed from those used in the prior year (or, if they have changed, the reasons for such changes); and (d) you have disclosed to us any significant assumptions or interpretations underlying the measurement or presentation of the schedule of expenditures of federal awards.

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Management is responsible for (i) adjusting the financial statements to correct material misstatements and for affirming to us in a management representation letter that the effects of any uncorrected misstatements aggregated by us during the current engagement and pertaining to the latest period under audit are immaterial, both individually and in the aggregate, to the financial statements taken as a whole, and (ii) notifying us of all material weaknesses, including other significant deficiencies, in the design or operation of your internal control over financial reporting that are reasonably likely to adversely affect your ability to record, process, summarize and report external financial data reliably in accordance with GAAP. Management is also responsible for identifying and ensuring that the Great Lakes Water Authority complies with the laws and regulations applicable to its activities.

As part of our audit process, we will request from management and, when appropriate, those charge with governance written confirmation concerning representations made to us in connection with the audit.

Baker Tilly is not a municipal advisor as defined in Section 975 of the Dodd-Frank Wall Street Reform and Consumer Protection Act or under Section 15B of the Securities Exchange Act of 1934 (the Act). Baker Tilly is not recommending an action to the Great Lakes Water Authority; is not acting as an advisor to you and does not owe a fiduciary duty pursuant to Section 15B of the Act to you with respect to the information and material contained in the deliverables issued under this engagement. Any municipal advisory services would only be performed by Baker Tilly Municipal Advisors LLC (BTMA) pursuant to a separate engagement letter between you and BTMA. You should discuss any information and material contained in the deliverables with any and all internal and external advisors and experts that you deem appropriate before acting on this information or material.

Nonattest Services

Prior to or as part of our audit engagement, it may be necessary for us to perform certain nonattest services. For purposes of this letter, nonattest services include services that *Government Auditing Standards* refers to as nonaudit services.

None of these nonattest services constitute an audit under generally accepted auditing standards including *Government Auditing Standards*.

We will not perform any management functions or make management decisions on your behalf with respect to any nonattest services we provide.

In connection with our performance of any nonattest services, you agree that you will:

- > Continue to make all management decisions and perform all management functions, including approving all journal entries and general ledger classifications when they are submitted to you.
- > Designate an employee with suitable skill, knowledge, and/or experience, preferably within senior management, to oversee the services we perform.
- > Evaluate the adequacy and results of the nonattest services we perform.
- > Accept responsibility for the results of our nonattest services.
- > Establish and maintain internal controls, including monitoring ongoing activities related to the nonattest function.

On a periodic basis, as needed, we will meet with you to discuss your accounting records and the management implications of your financial statements. We will notify you, in writing, of any matters that we believe you should be aware of and will meet with you upon request.

Great Lakes Water Authority

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Government Auditing Standards require that we provide you with a copy of our most recent external peer review report and any subsequent peer review reports received during the period of the contract. Our most recent peer review report accompanies this letter.

This engagement is subject to the terms and conditions outlined in the professional services contract No.2104125.

We appreciate the opportunity to be of service to you.

Sincerely,

BAKER TILLY US, LLP

Baker Tilly US, LLP

Enclosure

This letter correctly sets forth the understanding of the Great Lakes Water Authority.

Official's Name

Official's Signature

Title

Date



Report on the Firm's System of Quality Control

October 28, 2021

To the Partners of Baker Tilly US, LLP and the
National Peer Review Committee

We have reviewed the system of quality control for the accounting and auditing practice of Baker Tilly US, LLP (the firm) applicable to engagements not subject to PCAOB permanent inspection in effect for the year ended March 31, 2021. Our peer review was conducted in accordance with the Standards for Performing and Reporting on Peer Reviews established by the Peer Review Board of the American Institute of Certified Public Accountants (Standards).

A summary of the nature, objectives, scope, limitations of, and the procedures performed in a System Review as described in the Standards may be found at www.aicpa.org/prsummary. The summary also includes an explanation of how engagements identified as not performed or reported in conformity with applicable professional standards, if any, are evaluated by a peer reviewer to determine a peer review rating.

Firm's Responsibility

The firm is responsible for designing a system of quality control and complying with it to provide the firm with reasonable assurance of performing and reporting in conformity with applicable professional standards in all material respects. The firm is also responsible for evaluating actions to promptly remediate engagements deemed as not performed or reported in conformity with professional standards, when appropriate, and for remediating weaknesses in its system of quality control, if any.

Peer Reviewer's Responsibility

Our responsibility is to express an opinion on the design of the system of quality control and the firm's compliance therewith based on our review.

Required Selections and Considerations

Engagements selected for review included engagements performed under *Government Auditing Standards*, including compliance audits under the Single Audit Act; audits of employee benefit plans; audits performed under FDICIA; audits of broker-dealers; and examinations of service organizations [SOC 1® and SOC 2® engagements].

As a part of our peer review, we considered reviews by regulatory entities as communicated by the firm, if applicable, in determining the nature and extent of our procedures.

Opinion

In our opinion, the system of quality control for the accounting and auditing practice of Baker Tilly US, LLP applicable to engagements not subject to PCAOB permanent inspection in effect for the year ended March 31, 2021, has been suitably designed and complied with to provide the firm with reasonable assurance of performing and reporting in conformity with applicable professional standards in all material respects. Firms can receive a rating of *pass*, *pass with deficiency(ies)* or *fail*. Baker Tilly US, LLP has received a peer review rating of *pass*.

Moss Adams LLP



Memo

To: Great Lakes Water Authority Audit Committee

From: Gwen Zech, Senior Manager (Baker Tilly)
Stephanie Silva, Senior Associate (Baker Tilly)

c.c. Jodi Dobson, Partner (Baker Tilly)

Date: July 13, 2023

Subject: Great Lakes Water Authority Audit Status and Annual Comprehensive Financial Report (ACFR)

We have prepared this memo to communicate to the audit committee our expectations regarding the timing of fieldwork, review, draft reports and issuance of the ACFR. The schedule below summarizes expected milestone dates to meet a deadline of issuance on December 15, 2023.

	Due Date Friday, December 15, 2023
All audit workpapers uploaded to portal for audit	Tuesday, October 3, 2023
End of Fieldwork (Including first review)	Friday, October 13, 2023
Senior Manager level financial statement review	Friday, October 20, 2023
Draft to Jodi Dobson, Partner	Monday, October 23, 2023
Draft to concurring partner for technical review	Tuesday, October 24, 2023
Comments returned from GLWA management to Baker Tilly*	Friday, November 3, 2023
Draft back from detail check by Baker Tilly	Wednesday, November 8, 2023
Presentation of draft to Audit Committee	Friday, November 17, 2023
Preparation of separate ACFRs'	Friday, December 1, 2023
Presentation of draft to full Board of Directors	Wednesday, December 13, 2023
Issuance of the ACFRs'	Friday, December 15, 2023

* - Comments should include everyone on team in addition to various third parties (i.e. attorneys, bond advisors, etc.). Ideally, all changes would be accumulated into one file and given to us.

The information provided here is of a general nature and is not intended to address the specific circumstances of any individual or entity. In specific circumstances, the services of a professional should be sought. Baker Tilly US, LLP trading as Baker Tilly is a member of the global network of Baker Tilly International Ltd., the members of which are separate and independent legal entities. © 2018 Baker Tilly US, LLP



Financial Services Audit Committee Communication

Date: July 28, 2023

To: Great Lakes Water Authority Audit Committee

From: Nick Fedewa, CPA, Acting Public Finance Manager

Re: DWSD State Revolving Fund (SRF) Loans 7656-01 and 7657-01 Grant Funded

Background: The resolutions listed below were approved by the Great Lakes Water Authority Board of Directors on June 28, 2023 to provide low cost state revolving fund loan financing for Detroit Water & Sewerage Department (DWSD) in accordance with the terms of the lease agreement between GLWA and the City of Detroit which includes DWSD. Subsequently, DWSD was informed that the Department of Environment, Great Lakes and Energy (EGLE) confirmed entire amount of those SRF loans will be funded by American Rescue Plan (ARP) grant monies and confirmed SRF loans would no longer be necessary for these projects. EGLE and the Municipal Finance Authority (MFA) recognize the funding source as a grant that will be fully administered by DWSD.

- Resolution Regarding Approval of Series Ordinance Authorizing Issuance and Sale of Water Supply System Revenue Bonds in an Aggregate Amount Not to Exceed \$20,900,000, (Ordinance 2023-03 / Series 2023 SRF-2 / DWSD 7656-01 Water Main Replacement WS-732) [2023-179](#)
- Resolution Regarding Approval of Series Ordinance Authorizing Issuance and Sale of Water Supply System Revenue Bonds in an Aggregate Amount Not to Exceed \$21,800,000 (Ordinance 2023-04 / Series 2023 SRF-3 / DWSD 7657-01 Water Main Replacement WS-733) [2023-180](#)

Analysis: Since series ordinances related to these projects were approved by the Board it should be noted, as concurred by Bond Counsel, that adoption of a series ordinance by the GLWA Board authorizes GLWA to issue bonds, pursuant to the terms specified in the Series Ordinance. However, it does not obligate GLWA to follow through on the *issuance* of bonds so authorized. For this reason, no further action is required by the Board of Directors.

Proposed Action: Receive and file this report.



Financial Services Audit Committee Communication

Date: July 28, 2023

To: Great Lakes Water Authority Audit Committee

From: Nicolette N. Bateson, CPA, Chief Financial Officer & Treasurer

Re: CFO Update

This month I would like to acknowledge the professional development of our team members as well as strategic efforts to develop the Environmental, Social and Governance (ESG) framework at GLWA.

Grant Team Specialization Certification

Congratulations to Grants Management team members Alicia Schwartz and Nicholas Simms who successfully completed a one-day certification course through the Institute for Public Procurements regarding the use of federal grant funds. The course focused on providing a framework to understand the conditions of properly expending federal grant funds and continues to build the expertise of the FSA Grants Management team.



Michigan Women in Finance Appointment

On June 13, 2023, GLWA Grants & Intergovernmental Relations Manager Alicia Schwartz was appointed President of the professional organization Michigan Women in Finance (MWIF). The mission of MWIF is to bring together issuers, bankers, legal counsel, trust officers, underwriters, analysts, and others to provide an opportunity to gain insight into the marketplace while expanding their professional network. Alicia will serve a one-year term leading the MWIF Board of



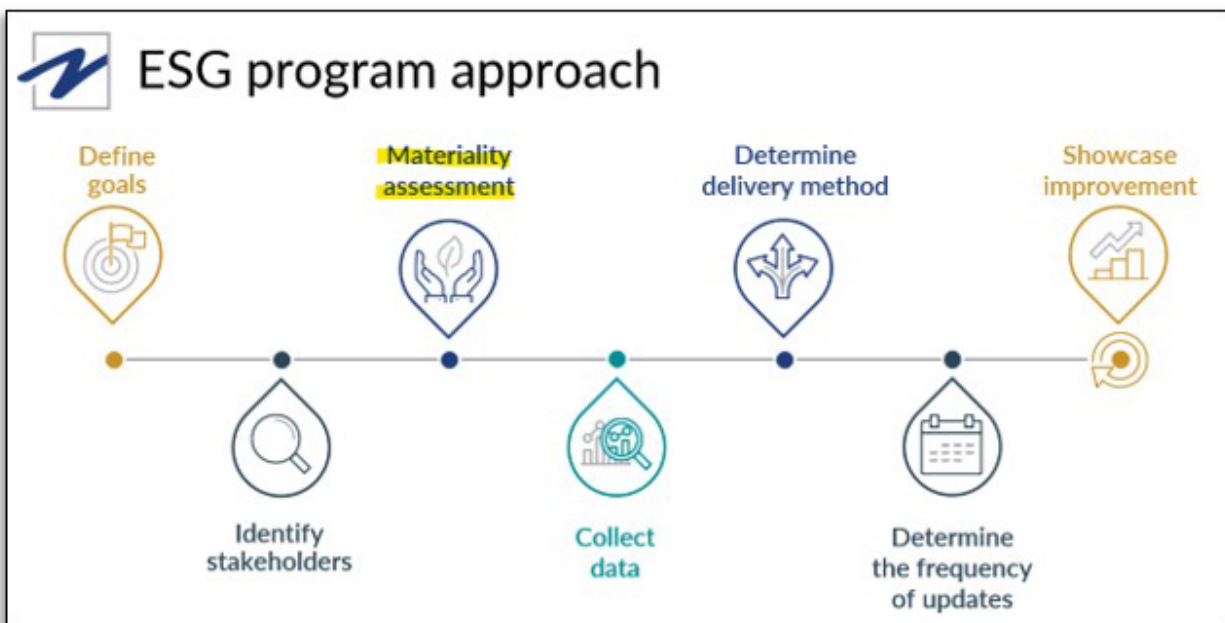
Directors as well as overseeing planning for the organizations Fall Networking event and Annual Spring Conference.



Environmental, Social and Governance (ESG) Initiative

This year, GLWA is embarking on an organization-wide initiative to develop an ESG program. ESG is a term that is becoming increasingly common in the bond market as investors seek out organizations for their investments portfolios that exhibit socially conscious behaviors. There are various ESG designations, criteria, and ratings that can impact the cost of borrowing positively or negatively for an organization. Many aspects of GLWA inherently support the tenants of ESG so it is of benefit for GLWA to implement a process for documenting, measuring, and reporting on the ways in which our organization meets these standards. This process could lead to improved credit ratings and lower interest rates on debt issuances in the future.

The current focus of this initiative is on a materiality assessment, which involves gathering input from various stakeholder groups to help the project team document the areas of ESG most relevant to GLWA. This input will then become the basis for future phase data



collection and reporting. The project team has held several meetings with GLWA team members across the organization over the past month as well as a one with member partner group. The next series of meetings will focus on external vendor stakeholders.

GLWA

Great Lakes Water Authority



Monthly Financial Report Binder

April 2023

**Presented to the
Great Lakes Water Authority
Audit Committee on July 28, 2023**

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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)

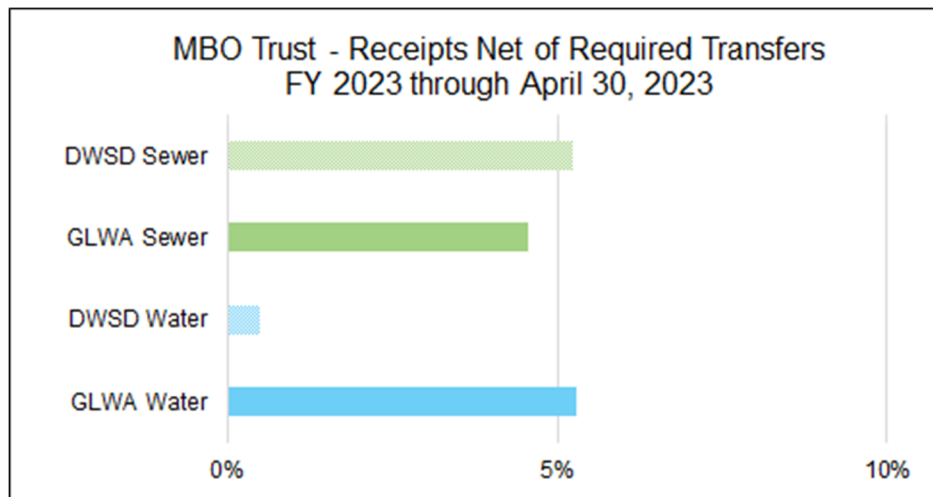
Each variance is monitored by the Great Lakes Water Authority (GLWA) management and, where appropriate, operating and/or budget priorities are re-evaluated. Staff reviews the need for budget amendments quarterly and requests necessary amendments when required based on the most current information available. This report reflects fourth quarter budget amendments approved by the GLWA Board of Directors on June 28, 2023.

For the current period, investment income and sewer capital spend reflect variances to budget outside the normal range. Investment income earned continues to increase monthly and is anticipated to achieve budget expectations by yearend. Sewer capital spend is also expected to show additional improvement prior to yearend.

As of April 30, 2023					
Metric	FY 2023 Budget	FY 2023 Amended Budget	FY 2023 Actual	Variance from Financial Plan	Report Page Reference
Wholesale Water Billed Revenue (\$M)	\$278.8	\$278.8	\$280.6	1%	49
Wholesale Water Billed Usage (mcf)	10,957,000	10,957,000	11,072,000	1%	51
Wholesale Sewer Billed Revenue (\$M)	\$228.9	\$228.9	\$228.3	0%	
Wholesale Water Operations & Maintenance (\$M)	\$120.7	\$130.6	\$124.9	-4%	5
Wholesale Sewer Operations & Maintenance (\$M)	\$153.4	\$170.1	\$166.0	-2%	
Investment Income (\$M)	\$1.9	\$27.1	\$26.1	-4%	38
Water Prorated Capital Spend w/SRA* (\$M)	\$129.6	\$173.3	\$170.5	-2%	29
Sewer Prorated Capital Spend w/SRA* (\$M)	\$104.9	\$90.4	\$80.0	-12%	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 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 surplus of \$500 thousand and DWSD Sewer reports a surplus of \$13.0 million of net receipts over disbursements through April 2023.

Budget to Actual Analysis (page 3)

- FY 2023 information includes the fourth quarter budget amendments which were approved by the GLWA Board of Directors on June 28, 2023.
- The total Revenue Requirements are on target through April 2023.
- The total overall Operations & Maintenance expenses are at 80.6% of budget through April 2023 which is below the pro-rata benchmark of 83.3%. This positive variance equates to a dollar amount of \$9.8 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 2023 is \$66.1 million for the Water fund (22.0% of total revenues) and \$95.7 million for the Sewer fund (23.8 % of total revenues).
- Water Net Position increased by \$ 10.4 million, and Sewage Disposal Net Position increased by \$ 22.7 million for the year to date through April 2023.

Capital Improvement Plan Financial Summary (page 28)

- Water system costs incurred to date are slightly below the amended 107% Capital Spend Ratio assumption.
- Sewer system costs incurred to date are also below the amended 86.2% Capital Spend Ratio assumption.

Master Bond Ordinance Transfers (page 31)

- For April, transfers of \$15.1 million and \$21.8 million were completed for the GLWA Water and Sewer funds, respectively.
- Also, for April, transfers of \$6.0 million and \$6.0 million were completed for the DWSD Water and Sewer funds, respectively.

Cash Balances & Investment Income (page 38)

- Total cash & investments are \$572 million for Water and \$710 million in the Sewer fund.
- Total, combined, cumulative, FY 2023 investment income through April is \$26.1 million.

DWSD Retail Revenues, Receivables & Collections (page 42)

- Water usage through April 30, 2023 is 109.41% and revenues are 106.36% of budget.
- Sewer usage through April 30, 2023 is 103.74% and revenues are 100.40% of budget.
- Combined accounts receivable balances for the water and sewer funds report an increase of \$42.4 million over the prior year.
- Past dues over 180 days make up of 69.8% the total accounts receivable balance. The current bad debt allowance covers 99.4% of past dues over 60 days.

GLWA Wholesale Billing, Receivables & Collections (page 48)

- GLWA accounts receivable past due balance net of Highland Park is 14.78% 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 \$54.9 million. It includes \$41.0 million for wastewater treatment services, \$1.9 million for industrial waste control services, and \$12.0 million for water supply services. Highland Park made a catch-up payment of \$1.7 million on June 3, 2022 and has continued to make additional, monthly payments since that time totaling \$4.1 million as of April 30, 2023.

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



The Monthly Budget to Actual Analysis report includes the following three sections.

1. Revenue Requirements Budget Basis Analysis
2. Operations & Maintenance Budget – Major Budget Categories
3. Alignment of Operations & Maintenance Budget Priorities – Expense Variance Analysis

The FY 2023 information presented in these sections includes the fourth quarter FY 2023 budget amendments approved by the GLWA Board of Directors on June 28, 2023.

Revenue Requirements Budget Basis Analysis

GLWA's annual revenue requirements represent the basis for calculating Member Partner charges and aligns with the Master Bond Ordinance flow of funds categories. The budget basis is not the same as the full accrual basis used for financial reporting although the revenues and operations and maintenance expenses are largely reported on an accrual basis. The primary difference between the revenue requirements budget basis to the financial reporting basis is the treatment of debt service, legacy pension obligations, and lease related activities. The Revenue Requirements Basis is foundational to GLWA's daily operations, financial plan, and of most interest to key stakeholders.

Table 1A – Water Revenue Requirements Budget and **Table 1B – Sewer Revenue Requirements Budget** presents a year-over-year budget to actual performance report. The revenue requirements budget is accounted for in the operations and maintenance fund for each system. Since this report is for April 2023, the pro-rata benchmark is 83.3% (10 of 12 months of the fiscal year).

Items noted below are highlighted in gold on Tables 1A (Water) and 1B (Sewer).

1. **Revenues:** For *both* systems, total revenues for FY 2023 are slightly below the pro-rata benchmark; the *water* system is at 82.2% while the *sewer* system is at 83.0%. Detailed schedules related to revenues are provided in the *Wholesale Billings, Collections, and Receivables* section of this financial report binder.

Water revenues presented in Table 1A differ from those presented in *Table 2 – Statement of Revenues, Expenses and Changes in Net Position* found in the *Basic Financial Statement* section of this report. Water Revenues presented in Table 1A for revenue requirement purposes are reduced by the monthly payment to the City of Flint for a license to raw water rights under the Flint Raw Water Contract as documented in Appendix A-2 of the [Flint Water Agreement](#). Through April 30, 2023, these payments total \$5.4 million for FY 2023.

2. **Investment Earnings:** For both systems, investment earnings are below the pro-rata benchmark for FY 2023; the *water* system is at 67.4% while the *sewer* system is at 66.4%. Detailed analysis of investment earnings activity to date can be found in the *Cash & Investment Income* section of this financial report binder.
3. **Other Revenues:** These are one-time and unusual items that do not fit an established revenue category. Both the *water* and *sewer* systems actual amount will vary from budget due to the nature of the items recorded in this category.
4. **Operations & Maintenance Expense:** Actual expenses¹ for *both* systems are below the pro-rata benchmark for FY 2023; the *water* system is at 79.7% while the *sewer* system O&M expenses is at 81.3%.
5. **Debt Service:** For FY 2023, both systems are above the pro-rata benchmark for debt service; the *water* system is at 85.2% while the *sewer* system is at 84.3%. The activity is based on the payment schedules adjusted for the State Revolving Fund loans that are still being drawn down.
6. **Operating Reserve Deposit:** GLWA has established a target balance in the O&M Fund of 45 days of operating expense which works in tandem with the I&E Funds to provide liquidity to the utility. Adequate funding is in place to meet this requirement; therefore, it is expected that additional transfers to this reserve will not be required in FY 2023.
7. **DWSD Budget Shortfall Pending:** To the extent that the local (DWSD) system experiences budgetary shortfalls as defined by the Water & Sewer Services Agreement, the GLWA budget is impacted.² Steps to proactively detect, and ideally prevent, this shortfall scenario were put into place with the 2018 Memorandum of Understanding (dated June 27, 2018). For FY 2022, DWSD management successfully implemented a formal plan to end the year with positive net cash flows for both the DWSD *water* system and the DWSD *sewer* system. For FY 2023, neither the DWSD *water* system nor the DWSD *sewer* system have a budgetary shortfall through April 30, 2023. GLWA and DWSD staff meet regularly to discuss steps to mitigate shortfalls, when they occur, as outlined in the 2018 MOU.
8. **Improvement & Extension (I&E) Fund Transfer Pending:** The contribution to the I&E Fund is for improvements, enlargements, extensions, or betterment of the *water* and *sewer* systems.
9. **Other Revenue Requirements:** The remaining revenue requirements for *both* systems are funded on a 1/12th basis each month in accordance with the Master Bond Ordinance.
10. **Overall:** Total revenue requirements for *both* systems are in line with the benchmark.

¹The tables in this analysis reflect actual amounts spent. If this analysis was on a master bond ordinance (MBO) basis, like that used for calculating debt service coverage, O&M "expense" would equal the pro-rata budget because 1/12 of the O&M budget is transferred monthly outside the MBO trust to an O&M bank account.

² As a reminder, the monthly O&M transfer for MBO purposes is at 1/12 of the budget to a DWSD O&M bank account outside the trust. Actual budget may be less than that amount providing an actual positive variance for DWSD.

All amounts are unaudited unless otherwise noted.

GLWA Audit Committee July 28, 2023

Table 1A – Water Revenue Requirements Budget (year-over-year) – (\$000)

	FY 2022 AMENDED BUDGET	FY 2022 ACTIVITY THRU 4/30/2022	Percent Year-to- Date	FY 2023 BOARD ADOPTED BUDGET	FY 2023 AMENDED BUDGET	FY 2023 ACTIVITY THRU 4/30/2023	Percent Year-to- Date
Water System							
Revenues							
Suburban Wholesale Customer Charges	\$ 315,011	\$ 262,374	83.3%	\$ 331,962	\$ 333,856	\$ 275,404	82.5%
Retail Service Charges	21,697	18,081	83.3%	22,986	22,834	19,037	83.4%
Investment Earnings	1,924	1,630	84.7%	949	9,670	6,513	67.4%
Other Revenues	684	720	105.2%	175	995	980	98.5%
Total Revenues	\$ 339,316	\$ 282,805	83.3%	\$ 356,072	\$ 367,356	\$ 301,934	82.2%
Revenue Requirements							
Operations & Maintenance Expense	\$ 143,934	\$ 105,541	73.3%	\$ 144,848	\$ 156,748	\$ 124,924	79.7%
General Retirement System Legacy Pension	6,048	5,040	83.3%	6,048	6,048	5,040	83.3%
Debt Service	135,121	112,804	83.5%	150,337	150,055	127,878	85.2%
General Retirement System Accelerated Pension	6,268	5,224	83.3%	6,268	6,268	5,224	83.3%
Extraordinary Repair & Replacement Deposit	-	-	0.0%	-	200	-	0.0%
Water Residential Assistance Program Contribution	1,706	1,421	83.3%	1,771	1,771	1,475	83.3%
Regional System Lease	22,500	18,750	83.3%	22,500	22,500	18,750	83.3%
Operating Reserve Deposit	-	-	0.0%	-	-	-	0.0%
DWSD Budget Shortfall Pending Improvement & Extension Fund Transfer Pending	-	-	0.0%	-	-	-	0.0%
	23,740	22,550	95.0%	24,300	23,766	23,714	99.8%
Total Revenue Requirements	\$ 339,316	\$ 271,330	80.0%	\$ 356,072	\$ 367,356	\$ 307,005	83.6%
Net Difference		\$ 11,475				\$ (5,071)	
<i>Recap of Net Positive Variance</i>							
Revenue Variance		\$ 42				\$ (4,196)	
Revenue Requirement Variance		11,434				(875)	
Overall Variance		\$ 11,475				\$ (5,071)	

Table 1B – Sewer Revenue Requirements Budget (year-over-year) – (\$000)

	FY 2022 AMENDED BUDGET	FY 2022 ACTIVITY THRU 4/30/2022	Percent Year-to- Date	FY 2023 BOARD ADOPTED BUDGET	FY 2023 AMENDED BUDGET	FY 2023 ACTIVITY THRU 4/30/2023	Percent Year-to- Date
Sewer System							
Revenues							
Suburban Wholesale Customer Charges	\$ 268,130	\$ 226,968	84.6%	\$ 275,404	\$ 274,907	\$ 229,697	83.6%
Retail Service Charges	188,662	157,219	83.3%	191,042	191,042	159,202	83.3%
Industrial Waste Control Charges	8,325	6,915	83.1%	8,420	8,420	6,988	83.0%
Pollutant Surcharges	5,089	4,121	81.0%	4,951	4,951	3,980	80.4%
Investment Earnings	1,876	1,361	72.6%	1,156	13,532	8,981	66.4%
Other Revenues	538	398	74.0%	400	2,355	2,195	93.2%
Total Revenues	\$ 472,620	\$ 396,982	84.0%	\$ 481,372	\$ 495,207	\$ 411,042	83.0%
Revenue Requirements							
Operations & Maintenance Expense	\$ 191,909	\$ 155,864	81.2%	\$ 184,053	\$ 204,123	\$ 165,960	81.3%
General Retirement System Legacy Pension	10,824	9,020	83.3%	10,824	10,824	9,020	83.3%
Debt Service	204,985	171,271	83.6%	205,638	212,509	179,238	84.3%
General Retirement System Accelerated Pension	11,621	9,684	83.3%	11,621	11,621	9,684	83.3%
Extraordinary Repair & Replacement Deposit	-	-	0.0%	-	-	-	0.0%
Water Residential Assistance Program Contribution	2,358	1,965	83.3%	2,394	2,394	1,995	83.3%
Regional System Lease	27,500	22,917	83.3%	27,500	27,500	22,917	83.3%
Operating Reserve Deposit	-	-	0.0%	-	-	-	0.0%
DWSD Budget Shortfall Pending Improvement & Extension Fund Transfer Pending	-	-	0.0%	-	-	-	0.0%
	23,424	28,197	120.4%	39,343	26,237	22,084	84.2%
Total Revenue Requirements	\$ 472,620	\$ 398,918	84.4%	\$ 481,372	\$ 495,207	\$ 410,897	83.0%
Net Difference		\$ (1,935)				\$ 145	
<i>Recap of Net Positive Variance</i>							
Revenue Variance		\$ 3,132				\$ (1,631)	
Revenue Requirement Variance		(5,067)				1,776	
Overall Variance		\$ (1,935)				\$ 145	

All amounts are unaudited unless otherwise noted.

GLWA Audit Committee July 28, 2023

Operations & Maintenance Budget – Major Budget Categories

The year-over-year benchmark ratio as of April 30, 2023, is 83.3% (ten months). When comparing FY 2023 to FY 2022 in **Table 2 – Operations & Maintenance Budget – Major Budget Categories**, the overall spending is higher in FY 2023.

In addition to the four major budget categories, an internal charge cost center for employee benefits is shown in the table below. If the number is positive, it indicates that the internal cost allocation rate charges to other cost centers is not sufficient. A negative number indicates a surplus in the internal cost center. A moderate surplus is preferred as it provides a hedge for mid-year benefit program cost adjustments (premiums adjust on January 1 each year) as well as managing risk as the program is partially self-insured.

Table 2 – Operations & Maintenance Budget – Major Budget Categories – (\$000)

Major Budget Categories	FY 2022 AMENDED BUDGET	FY 2022 ACTIVITY THRU 4/30/2023	Percent Year-to- Date	FY 2023 BOARD ADOPTED BUDGET	FY 2023 AMENDED BUDGET	FY 2023 ACTIVITY THRU 4/30/2023	Percent Year-to- Date
Water	\$ 76,422	\$ 61,545	80.5%	\$ 76,518	\$ 85,337	\$ 69,518	81.5%
Sewer	120,971	98,348	81.3%	113,198	136,348	113,705	83.4%
Centralized	103,846	75,344	72.6%	104,503	104,502	81,249	77.7%
Administrative	34,603	26,168	75.6%	34,682	34,682	26,412	76.2%
Employee Benefits	-	-	0.0%	-	-	-	0.0%
Total O&M Budget	\$ 335,843	\$ 261,406	77.8%	\$ 328,900	\$ 360,870	\$ 290,884	80.6%

Totals may be off due to rounding

Alignment of Operations & Maintenance Budget Priorities – Expense Variance Analysis

The purpose of **Table 3 – Operations & Maintenance Expense Variance Analysis** is to evaluate whether the actual spend rate within a natural cost category is in alignment with the budget. Given the effort to develop an accurate budget, a variance is a red flag of a *potential* budget amendment or misalignment of priorities.

Total: In total, the overall O&M expenses are at 80.6% which is below the pro-rata benchmark of 83.3%. This positive variance equates to a dollar amount of \$9.8 million. The expense category commentary is provided below for items highlighted on Table 3.

Personnel Costs: The overall category is slightly under the pro-rata benchmark; coming in at 81.3% through April 2023.

Utilities: The overall category is slightly below the pro-rata benchmark; coming in at 82.1% through April 2023. Variances within this category, when they occur, are not unexpected as usage varies throughout the year.

- **Electric** is below the pro-rata benchmark, coming in at 81.6%. The FY 2023 budget was adjusted for the increase to the charge for kWh. It should be noted that variances are not unexpected as usage varies throughout the year. The first three months of GLWA's fiscal year (July, August, and September) are typically peak months for the usage of electricity. June, the last month of GLWA's fiscal year, is typically a peak month as well.
- **Gas** is coming in at 83.9% which is slightly higher than the benchmark of 83.3%. Variances within this category are not unexpected as usage varies throughout the year. The FY 2023 budget was adjusted for the increase in both usage as well as for the cost of natural gas MMBTU.
- **Sewage service** is higher than the benchmark, coming in at 86.2%. Increased usage has been reported at the WRRF (in part due to bills being received for actual meter readings when in the past the bills had been estimated), the Biosolids Dryer Facility (BDF), and the Southwest Water Plant. The FY 2023 budget was adjusted for the increased usage and this category continues to be closely monitored.
- **Water service** is lower than the benchmark, coming in at 81.4%. As meters have been repaired or replaced at the WRRF, the billings that previously reported estimated readings have been replaced with actual readings. The actual readings have been coming in higher than the estimated billings. In addition, a new water billing structure was implemented in early FY 2023 which has resulted in an increase in the water billing rate. The FY 2023 budget was adjusted for the increased meter readings and billing rate.

Chemicals: This category is on target; coming in at 83.3% through April 2023. The FY 2023 budget has been amended for both systems to adjust for the rising chemical costs and this category continues to be closely monitored.

Supplies & Other: This category is slightly lower than the pro-rata benchmark; coming in at 81.8% through April 2023. Given that the nature of the items in this category are subject to one-time expenses that do not occur evenly throughout the year, variances are not unexpected.

Contractual Services: The overall category is lower than the pro-rata benchmark; coming in at 78.6% through April 2023. Variances in this category, when they occur, are not unexpected as the usage of contracts varies throughout the year (projects scheduled to begin during the latter half of the year as well as contracts that are on an as needed basis). Budget amendments are processed for those projects in which the actual start dates have been delayed from that in which they were budgeted.

Capital Program Allocation: This category is on target; coming in at 83.2% through April 2023. The amount in the Capital Program Allocation account is shown as negative as this is a "contra" account which represents an offset to the Personnel Costs section of the Operations & Maintenance (O&M) budget. The FY 2023 budget was amended.

Shared Services: This category is lower than the benchmark; coming in at 60.8% through April 2023. The shared services reimbursement is comprised of both labor (tracked via BigTime) and expenses, such as annual fees for software licensing. Staff from both GLWA and DWSD have been working together to evaluate and refine the budget for the shared services agreements. Based on these evaluations, adjustments have been made to both the billings and accounting accruals to reflect the forecasted activity more accurately for FY 2023. In addition, it is important to note that some of the shared services agreements are not billed at a monthly rate of 1/12 of the annual budgeted amount and activity includes true-up billings from prior years.

Table 3 – Operations & Maintenance Expense Variance Analysis – (\$000)

Expense Categories Entity-wide	FY 2022 AMENDED BUDGET	FY 2022 ACTIVITY THRU 4/30/2022	Percent Year-to- Date at 4/30/2022	FY 2022 ACTIVITY THRU 6/30/2022	Percent Year-to- Date at 6/30/2022	FY 2023 AMENDED BUDGET	FY 2023 PRORATED AMENDED BUDGET (10 MONTHS)	FY 2023 ACTIVITY THRU 4/30/2023	Percent Year-to- Date 4/30/2023	FY 2023 PRORATED BUDGET LESS FY 2023 ACTIVITY
Salaries & Wages	\$ 66,113	\$ 53,745	81.3%	\$ 63,901	84.1%	\$ 71,395	\$ 59,496	\$ 58,650	82.1%	\$ 846
Workforce Development	869	665	76.6%	844	78.8%	1,326	1,105	1,101	83.0%	4
Overtime	8,126	6,678	82.2%	8,113	82.3%	8,411	7,009	7,004	83.3%	5
Employee Benefits	25,956	20,745	79.9%	24,206	85.7%	25,582	21,318	20,430	79.9%	889
Transition Services	10,805	8,480	78.5%	9,990	84.9%	9,432	7,860	7,228	76.6%	632
Employee Benefits Fund	-	-	0.0%	-	0.0%	-	-	-	0.0%	-
Personnel Costs	111,869	90,315	80.7%	107,053	84.4%	116,145	96,788	94,413	81.3%	2,374
Electric	43,950	36,504	83.1%	43,755	83.4%	47,963	39,969	39,116	81.6%	853
Gas	7,081	5,833	82.4%	8,665	67.3%	12,042	10,035	10,098	83.9%	(63)
Sewage Service	2,510	2,034	81.0%	2,568	79.2%	3,028	2,523	2,609	86.2%	(85)
Water Service	5,841	4,109	70.3%	4,669	88.0%	11,589	9,657	9,435	81.4%	223
Utilities	59,383	48,480	81.6%	59,656	81.3%	74,622	62,185	61,258	82.1%	927
Chemicals	19,842	15,993	80.6%	20,382	78.5%	29,525	24,604	24,597	83.3%	7
Supplies & Other	35,034	25,354	72.4%	29,711	85.3%	36,163	30,135	29,568	81.8%	567
Contractual Services	111,198	85,567	76.9%	107,527	79.6%	106,625	88,854	83,779	78.6%	5,075
Capital Program Allocation	(2,684)	(2,135)	79.5%	(2,632)	81.1%	(2,135)	(1,779)	(1,776)	83.2%	(3)
Shared Services	(3,202)	(2,169)	67.7%	(2,398)	90.4%	(1,571)	(1,309)	(955)	60.8%	(354)
Unallocated Reserve	4,402	-	0.0%	-	0.0%	1,497	1,247	-	0.0%	1,247
Total Expenses	\$ 335,843	\$ 261,406	77.8%	\$ 319,300	81.9%	\$ 360,870	\$ 300,725	\$ 290,884	80.6%	\$ 9,841
<i>Totals may be off due to rounding</i>										



The Basic Financial Statements report includes the following four tables.

1. Statement of Net Position - All Funds Combined
2. Statement of Revenues, Expenses and Changes in Net Position – All Funds Combined
3. Supplemental Schedule of Operations & Maintenance Expenses -All Funds Combined
4. Supplemental Schedule of Nonoperating Expenses – All Funds Combined

At a macro level GLWA has two primary funds for financial reporting purposes: *Water Fund* and *Sewage Disposal Fund*. These funds represent the combined total of four sub-funds for each system that are used internally to properly account for sources and uses of funds. Those sub-funds for each system are: *Operations & Maintenance Fund*, *Improvement & Extension Fund*, *Construction Fund*, and *Capital Asset Fund*.

The June 2022 comparative amounts shown in the tables below are presented based on final audited figures.

Statement of Net Position – All Funds Combined

Explanatory notes follow the Statement of Net Position shown in Table 1 below.

Table 1 – Statement of Net Position - All Funds Combined
As of April 30, 2023
(\$000)

	Water	Sewage Disposal	Total Business-type Activities	Comparative June 30, 2022
Assets				
Cash - unrestricted (a)	\$ 178,682	\$ 286,667	\$ 465,349	\$ 347,655
Cash - restricted (a)	115,795	73,541	189,336	113,378
Investments - unrestricted (a)	65,293	65,768	131,062	185,209
Investments - restricted (a)	193,032	295,144	488,176	144,445
Accounts Receivable	81,906	56,553	138,459	175,133
Due from (to) Other Funds (b)	6,589	(6,589)	-	-
Other Assets (c)	675,777	409,833	1,085,610	1,077,698
Cash held FBO DWSD Advance	-	-	-	-
Capital Assets, net of Depreciation	1,207,295	2,003,266	3,210,561	3,432,437
Land	293,617	126,816	420,433	420,750
Construction Work in Process (e)	429,911	273,103	703,015	467,190
Total assets	3,247,897	3,584,102	6,832,000	6,363,896
Deferred Outflows (f)	46,060	114,764	160,824	182,497
Liabilities				
Liabilities - Liabilities-ST	156,347	178,342	334,689	354,055
Due to (from) Other Funds (b)	-	-	-	-
Other Liabilities (h)	2,069	5,480	7,549	7,500
Cash Held FBO DWSD (d)	17,196	27,106	44,302	20,470
Liabilities - Long-Term (i)	3,172,256	3,537,614	6,709,869	6,263,510
Total liabilities	3,347,868	3,748,542	7,096,410	6,645,535
Deferred Inflows (f)	44,912	37,667	82,580	120,157
Total net position (j)	\$ (98,823)	\$ (87,343)	\$ (186,166)	\$ (219,299)

Totals may be off due to rounding

In general, the Statement of Net Position reflects a mature organization with no unexpected trends.

An ongoing challenge is the Net Position Deficit. The underlying causes took years to build (largely heavy use of debt to finance capital asset investment versus a strategic blend of debt, state revolving funds, and cash). The effect is reflected in GLWA's high debt interest expense. The GLWA is regularly updating the FY 2032 forecast which helps to provide a pathway to a positive Net Position in the future.

Footnotes to Statement of Net Position

- a. *Cash and Investments* are reported at market value. Investments at June 30, 2022 are also reported at market value. The April 30, 2023 values differ from the Cash and Investment section of this Financial Report Binder due to timing of certain items recognized on a cash versus accrual basis.
- b. *Due from Other Funds* and *Due to Other Funds* are shown at gross for sub-fund activity.
- c. *Other Assets* primarily consists of the contractual obligation receivable from DWSD related to reimbursement of bonded indebtedness for local system improvements.
- d. *Cash Held FBO Advance (for benefit of) DWSD* and *Cash Held FBO DWSD* represents the net difference between DWSD retail cash received from customers and net financial commitments as outlined in the Master Bond Ordinance.
- e. *Construction Work in Process* represents the beginning balance of CWIP plus any construction spending during the fiscal year. The balance will fluctuate based on the level of spend less any capitalizations or write-offs.
- f. *Deferred Inflow* and *Deferred Outflow* relate mainly to financing activity and GLWA's share of the legacy General Retirement System (GRS) pension obligation.
- g. *Liabilities - Short-term* include accounts payable, retainage payable, and certain accrued liabilities. Some items, such as compensated absences and worker's compensation, are reviewed periodically but only adjusted in the interim if there is a material change.
- h. *Other Liabilities* account for the cash receipts set aside for the Budget Stabilization Fund and the Water Residential Assistance Program.
- i. *Liabilities – Long-term* include bonds payable, lease payable, and legacy General Retirement System pension liabilities.
- j. *Net Position Deficit* is defined by accounting standards as the residual of all other elements presented in a statement of financial position. It is the difference between (a) assets and deferred outflows of resources and (b) liabilities and deferred inflows of resources. A net deficit occurs when the liabilities and deferred inflows exceed assets and deferred outflows. GLWA's net deficit is largely driven by an increase in depreciation expense because of the increase in the acquisition valuation approach for recording capital asset values in the opening Statement of Net Position on January 2016. Efforts are underway to evaluate the net operating effect of this matter over the long term.

Statement of Revenues, Expenses and Changes in Net Position

– All Funds Combined

This statement, shown in Table 2, is presented in summary format. The accrual basis of revenues and operations and maintenance expense vary from the revenue requirement basis presented in the *Budget to Actual Analysis* and the *Wholesale Billings, Receivables & Collections* sections of the April 2023 Financial Report Binder. Prior year ending balances are provided in the June 30, 2022 column as a reference for comparative purposes. Explanatory notes follow this statement.

Water revenues presented below in Table 2 differ from those presented in *Table 1A – Water Revenue Requirement Budget* found in the *Budget to Actual Analysis* section of this report because water revenues presented in Table 1A for revenue requirement purposes are reduced by the monthly payment to the City of Flint for a license to raw water rights.

Table 2 – Statement of Revenues, Expenses and Changes in Net Position
– All Funds Combined
For the Ten Months ended April 30, 2023
(\$000)

	Water	Percent of Revenue	Sewage Disposal	Percent of Revenue	Total Business- Type Activities	Comparative June 30, 2022
Revenue						
Wholesale customer charges	\$ 280,778	93.5%	\$ 229,697	57.2%	\$ 510,475	\$ 591,840
Local system charges	19,037	6.3%	159,202	39.7%	178,239	210,360
Industrial waste charges		0.0%	6,988	1.7%	6,988	8,300
Pollutant surcharges		0.0%	3,980	1.0%	3,980	5,182
Other revenues	375	0.1%	1,531	0.4%	1,906	664
Total Revenues	300,190	100.0%	401,398	100.0%	701,588	816,345
Operating expenses						
Operations and Maintenance	125,517	41.8%	168,748	42.0%	294,264	324,735
Depreciation	105,593	35.2%	136,572	34.0%	242,165	281,210
Amortization of intangible assets	2,972	1.0%	366	0.1%	3,339	4,006
Total operating expenses	234,082	78.0%	305,686	76.2%	539,768	609,951
Operating Income	66,108	22.0%	95,712	23.8%	161,820	206,394
Total Nonoperating (revenue) expense	55,665	18.5%	73,022	18.2%	128,687	215,561
Increase/(Decrease) in Net Position	10,443	3.5%	22,690	5.7%	33,133	(9,167)
Net Position (deficit), beginning of year	(109,266)		(110,033)		(219,299)	(210,132)
Net position (deficit), end of year	\$ (98,823)		\$ (87,343)		\$ (186,166)	\$ (219,299)
<i>Totals may be off due to rounding</i>						

All amounts are unaudited unless otherwise noted.

GLWA Audit Committee July 28, 2023

Water Fund

- ✓ The increase in Water Fund Net Position is \$10.4 million.
- ✓ Wholesale water customer charges of \$280.8 million account for 93.5% of Water System revenues.
- ✓ Operating expenses of \$234.1 million represent 78.0% of total operating revenue. Depreciation is the largest operating expense at \$105.6 million or 45.1% of operating expense.
- ✓ Amortization of intangible assets represents activity for raw water rights.
- ✓ Operating income after operating expenses (including depreciation) equals \$66.1 million or 22.0% of operating revenue.
- ✓ The largest category within nonoperating activities is bonded debt interest expense of \$70.1 million (this equates to the bonded debt interest expense less the offset from DWSD contractual obligation income).

Sewage Disposal Fund

- ✓ The increase in the Sewage Disposal Fund Net Position is \$22.7 million.
- ✓ Wholesale customer charges of \$229.7 million account for 57.2% of Sewer System revenues. Wholesale customer charges are billed one-twelfth each month based on an agreed-upon historical average “share” of each customer’s historical flows which are formally revisited on a periodic basis. The result is no revenue shortfall or overestimation.
- ✓ Local system (DWSD) charges of \$159.2 million account for 39.7% of total operating revenues. These are also billed at one-twelfth of the annual revenue requirement.
- ✓ Operating expenses of \$305.7 million represent 76.2% of total operating revenue. Depreciation is the largest operating expense at \$136.6 million or 44.7% of total operating expense.
- ✓ Amortization of intangible assets represents activity for a warehouse lease.
- ✓ Operating income after operating expenses (including depreciation) equals \$95.7 million or 23.8% of operating revenue.
- ✓ The largest category within nonoperating activities is bonded debt interest expense of \$82.0 million (this equates to the bonded debt interest expense less the offset from DWSD contractual obligation income).

Supplemental Schedule of Operations & Maintenance Expenses – All Funds Combined

This Supplemental Schedule of Operations & Maintenance Expenses (O&M) schedule is shown below in Table 3. This accrual basis of operations and maintenance expense may vary from the revenue requirement basis presented in the *Budget to Actual Analysis* section of the April 2023 Financial Report Binder. Explanatory notes follow this schedule.

**Table 3 – Supplemental Schedule of Operations & Maintenance Expenses
– All Funds Combined
For the Ten Months ended April 30, 2023
(\$000)**

	Water	Percent of Total	Sewage Disposal	Percent of Total	Total Business- Type Activities	Percent of Total
Operating Expenses						
Personnel						
Salaries & Wages	21,564	17.2%	45,416	26.9%	66,980	22.8%
Overtime	4,378	3.5%	2,627	1.6%	7,005	2.4%
Benefits	14,328	11.4%	6,101	3.6%	20,430	6.9%
Total Personnel	\$ 40,270	32.1%	\$ 54,144	32.1%	\$ 94,414	32.1%
Utilities						
Electric	25,052	20.0%	14,064	8.3%	39,116	13.3%
Gas	1,534	1.2%	8,564	5.1%	10,098	3.4%
Sewage	670	0.5%	1,939	1.1%	2,609	0.9%
Water	5	0.0%	9,430	5.6%	9,435	3.2%
Total Utilities	\$ 27,262	21.7%	\$ 33,996	20.1%	\$ 61,258	20.8%
Chemicals	10,239	8.2%	14,358	8.5%	24,597	8.4%
Supplies and other	9,609	7.7%	18,881	11.2%	28,489	9.7%
Contractual services	39,942	31.8%	48,419	28.7%	88,360	30.0%
Capital Adjustment	-	0.0%	-	0.0%	-	0.0%
Capital program allocation	(990)	-0.8%	(787)	-0.5%	(1,777)	-0.6%
Intergovernmental Agreement	-	0.0%	(123)	-0.1%	(123)	0.0%
Shared services allocation	(815)	-0.6%	(141)	-0.1%	(956)	-0.3%
Operations and Maintenance Expenses	\$ 125,517	100.0%	\$ 168,748	100.0%	\$ 294,264	100.0%

Totals may be off due to rounding

- ✓ Core expenses for water and sewage disposal systems are utilities (20.8% of total O&M expenses) and chemicals (8.4% of total O&M expenses).
- ✓ Personnel costs (32.1% of total O&M expenses) include all salaries, wages, and benefits for employees as well as staff augmentation contracts that fill a vacant position (contractual transition services).
- ✓ Contractual services (30.0%) includes:
 - Water System costs of sludge removal and disposal services at the Northeast, Southwest and Springwells Water Treatment Plants (approximately \$2.9 million);
 - Sewage Disposal System costs for the operation and maintenance of the biosolids dryer facility (approximately \$14.0 million); and
 - Centralized and administrative contractual costs allocated to both systems for information technology, building maintenance, field, planning and other services.
- ✓ The Capital Program Allocation, Intergovernmental Agreement and Shared Services Allocation are shown as negative amounts because they are 'contra' expense accounts representing offsets to associated costs in other Operations and Maintenance expense categories.

Supplemental Schedule of Nonoperating Expenses – All Funds Combined

The Supplemental Schedule of Nonoperating Expenses – All Funds Combined is shown in Table 4. Explanatory notes follow this schedule.

Table 4 – Supplemental Schedule of Nonoperating Expenses – All Funds Combined
For the Ten Months ended April 30, 2023
(\$000)

	Water	Sewage Disposal	Total Business- type Activities	Comparative June 30, 2022
Nonoperating (Revenue)/Expense				
Interest income contractual obligation	\$ (20,541)	\$ (13,662)	\$ (34,203)	\$ (42,120)
Interest income DWSD Shortfall	-	-	-	(145)
Investment earnings	(11,701)	(14,836)	(26,537)	(3,735)
Net (incr) decr in fair value of invstmt	(2,534)	(3,667)	(6,201)	9,119
Other nonoperating revenue	(605)	(664)	(1,269)	(476)
Interest Expense				
Bonded debt	90,673	95,709	186,382	212,284
Lease obligation	14,011	17,125	31,136	37,836
Other obligations	3,571	1,362	4,933	6,077
Total interest expense	108,255	114,195	222,450	256,197
Other non-capital expense	-	-	-	-
Memorandum of Understanding	-	-	-	-
Capital Contribution	-	(2,176)	(2,176)	(6,991)
Amortization, issuance costs, debt	(11,879)	2,589	(9,290)	(13,318)
(Gain) loss on disposal of capital assets	277	1,842	2,119	322
Loss on impairment of capital assets	-	-	-	-
Water Residential Assistance Program	1,837	2,722	4,559	2,793
Legacy pension expense	(7,444)	(13,322)	(20,765)	13,915
Total Nonoperating (Revenue)/Expense	\$ 55,665	\$ 73,022	\$ 128,687	\$ 215,561

Totals may be off due to rounding

- ✓ Interest income on contractual obligation relates to the portion of the total GLWA debt obligation attributable to DWSD. This interest income offsets the total debt interest expense paid by GLWA on behalf of both entities monthly.
- ✓ Interest income DWSD shortfall represents interest from a budgetary shortfall loan from fiscal years 2016, 2017 and 2018 and is paid in accordance with the 2018 Memorandum of Understanding (MOU). This loan was paid in full in FY 2022.
- ✓ Investment earnings in this report are reflected at book value. Any differences between the Basic Financial report and Cash and Investment section of this Financial Report binder are due to accrued interest.

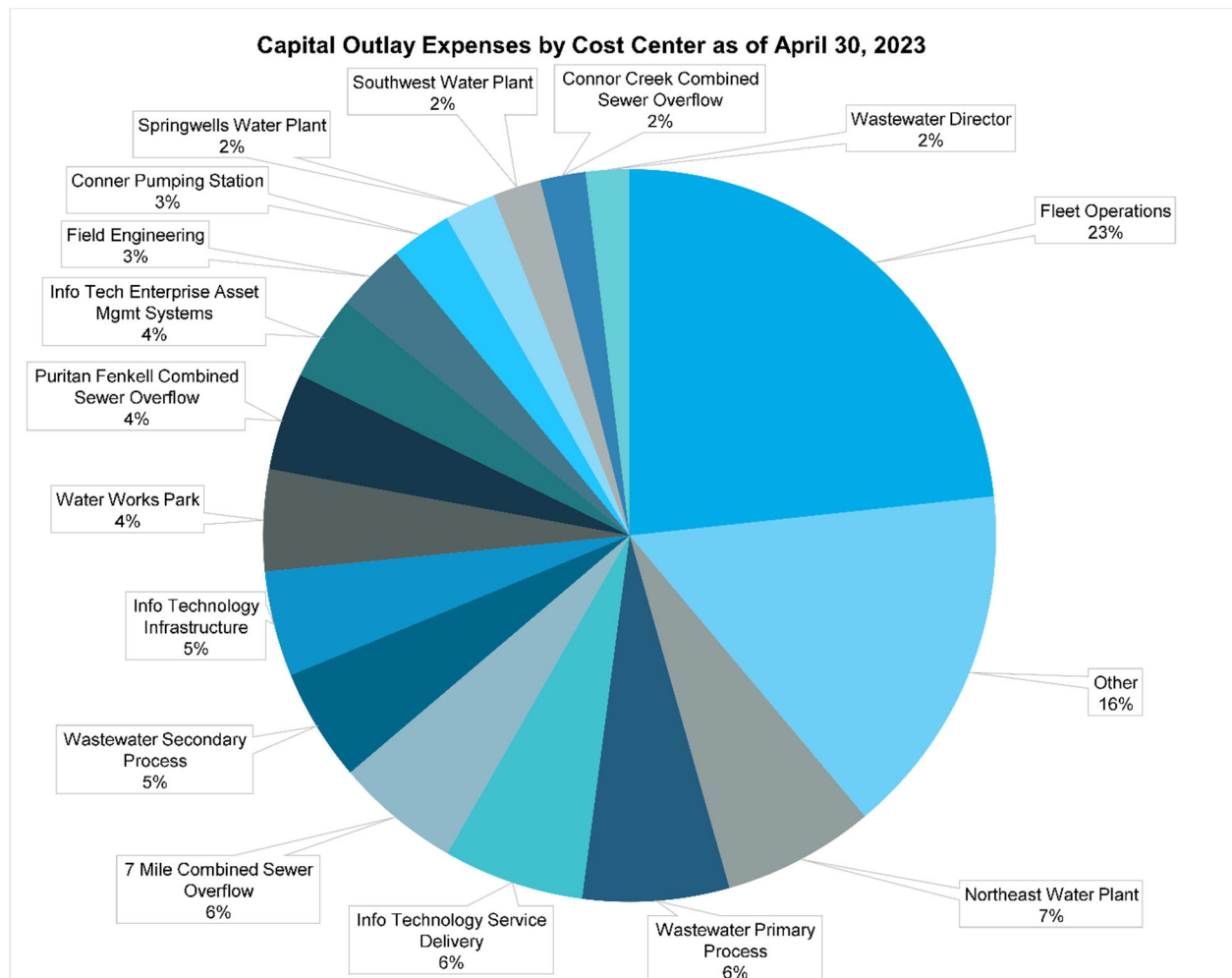
- ✓ Net (increase) decrease in fair value of investments consists of market value of investments and realized gain/loss on sale of investments. FY 2021 market value adjustments for Water and Sewer total \$1.5 million and \$1.0 million, respectively. FY 2022 market value adjustments for Water and Sewer total \$2.8 million and \$3.9 million, respectively. Any difference is due to realized gain or loss on investments.
- ✓ Interest expense, the largest category of nonoperating expenses, is made up of three components:
 - Bonded debt;
 - Lease obligation for the regional assets from the City of Detroit; and
 - Other obligations such as an obligation payable to the City of Detroit for an allocation BC Notes related to assumed DWSD liabilities; acquisition of raw water rights related to the KWA Pipeline.
- ✓ FY 2023 other non-operating income primarily represents FEMA Covid-19 grant income for the Water and Sewage Disposal systems.
- ✓ The FY 2023 capital contribution in Nonoperating (revenue) expense represents funds from the Evergreen Farmington Sewer District for a maximum discharge capacity of 227 cubic feet per second (cfs) to the regional sewer system.
- ✓ The FY 2022 capital contribution in Nonoperating (revenue) expense represents \$7.0 million from the Oakland Macomb Interceptor Drainage District for assets placed in service during FY 2022.
- ✓ FY 2023 Sewage Disposal loss on disposal of capital assets includes sale of McKinstry warehouse.
- ✓ For FY 2023, GLWA is recognizing non-operating pension revenue rather than expense as a result of improved investment earnings for the plan.

Financial Activity Charts

Chart 1 – Capital Outlay – Water and Sewer System Combined

Capital Outlay represents purchases of equipment, software, and small facility improvement projects. It *excludes* any capital investment which is included in the monthly construction work-in-progress report related to the Capital Improvement Program. Some items span several months so the entire cost may not have been incurred yet. In addition, items are capitalized only if they meet GLWA's capitalization policy.

Through April 30, 2023, total capital outlay spend is \$9.5 million. Following this chart is a sample list of projects and purchases from the total spend of \$9.5 million:



Note: Due to rounding totals may not equal 100%.

Water Operations: Northeast Water treatment plant loss of flow and head measurement (\$521k); Overhead door repair (\$160k); EDS Dashboard (\$86k); furniture

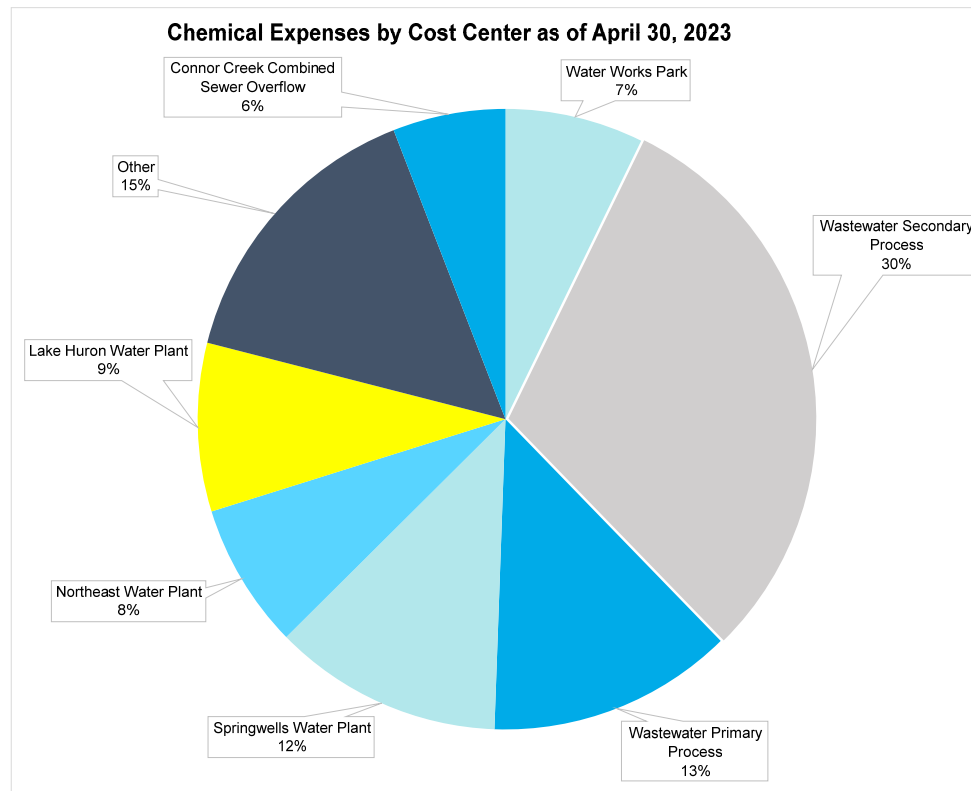
for multiple sites (\$77k); pump (\$63k); metering pump repairs (\$57k); composite cylinders (\$45k); tank pressure transmitter (\$42k); CAAS Cube ELISA System (\$37k) and megohmmeter (\$31k).

Wastewater Operations: CSO actuator replacement (\$815k); Water intake improvements (\$372k); Rotork replacements (\$188k); WRRF Electrical Buildings project (\$163k); Instrumentation and Controls (\$155k); Scum hopper (\$153k); WRRF Actuator (\$132k); Pulsafeeders (\$121k); Gas detection unit (\$120k); Complex A pump replacement (\$110k); Water Champ (\$97k); Terrain litter vacuum (\$95k); Puritan-Fenkell courtyard accessibility improvements (\$84k); Meters (\$84k); Flygt Mixer (\$73k); CSO PQM meters (\$73k); Wastewater pumps (\$71k); Connor Creek replacement actuators (\$54k); Gate valve actuators (\$50k); Electric actuator (\$50k); Rotork units (\$42k) and rotork actuators (\$35k).

Centralized & Administrative Facilities: Trucks and vehicles (\$2.0m); Computer hardware (\$545k); Software (\$474k); Cloud Backup Project (\$322k); charging stations (\$177k); Pressure transmitter (\$87k); transmitter (\$46k); flow meter replacement (\$45k); maintenance renewal (\$37k); radios (\$36k) and CSF furniture (\$30k).

Chart 2 – Chemical Expenses – Water and Sewer System Combined

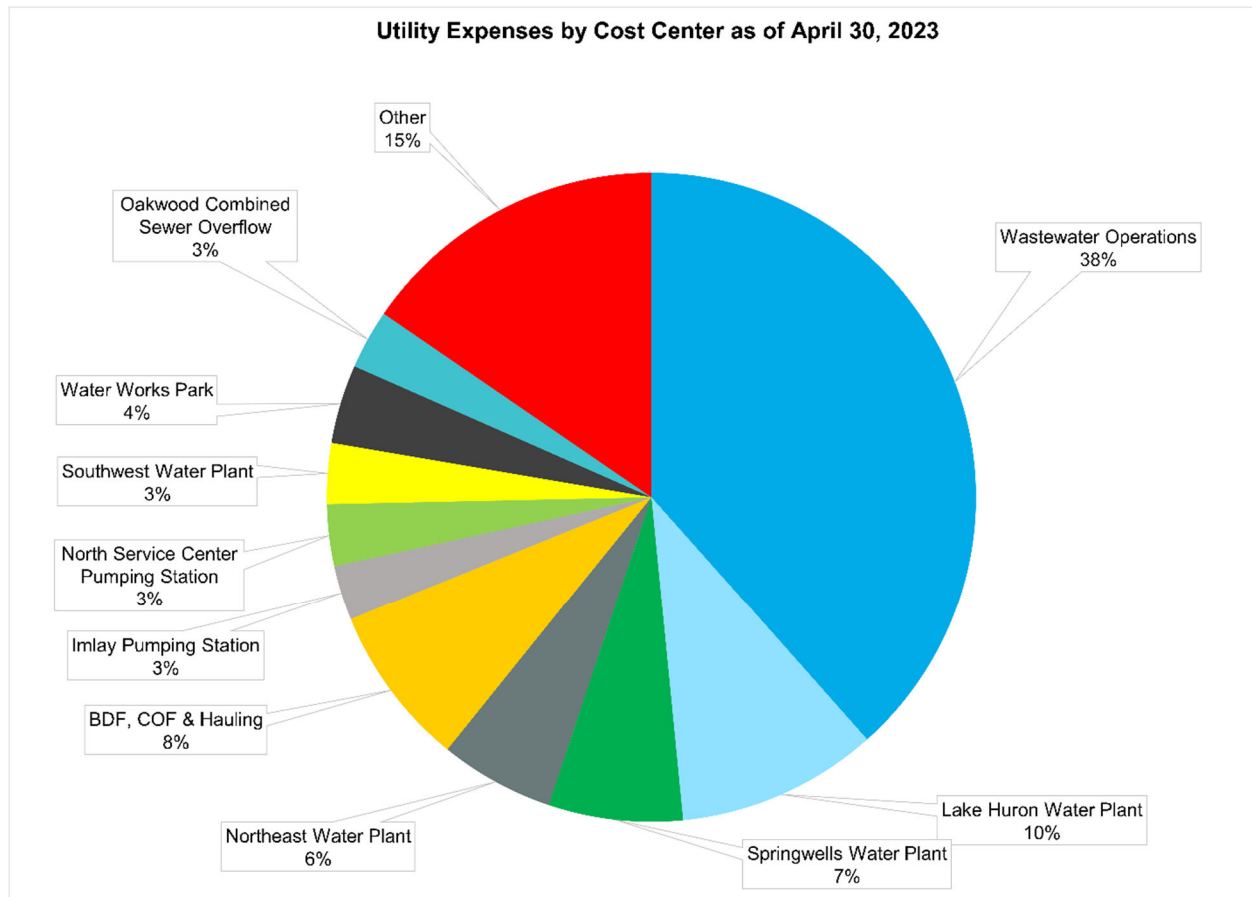
Chemical expenses are \$24.6 million through April 30, 2023. The allocation is shown in the chart below and remains consistent with prior periods.



Note: “Other” includes Combined Sewer Overflow (CSO), portions of the Wastewater process and two departments from Water. Due to rounding totals may not equal 100%.

Chart 3 – Utility Expenses – Water and Sewer System Combined

Utility expenses are \$61.3 million through April 30, 2023. The allocation is shown in the chart below and consistent with prior periods.



Note: Due to rounding totals may not equal 100%.



Financial Operations KPI

This key performance indicator shown in **Chart 1 – Bank Reconciliation Completion Status** below provides a measure of the progress made in the month-end close process which includes bank reconciliations with a completed status at month end. Through April 30, 2023 all reconciliations are up-to-date and complete.

There was one account added in the general ledger accounts since March 2023.

Chart 1 – Bank Reconciliation Completion Status

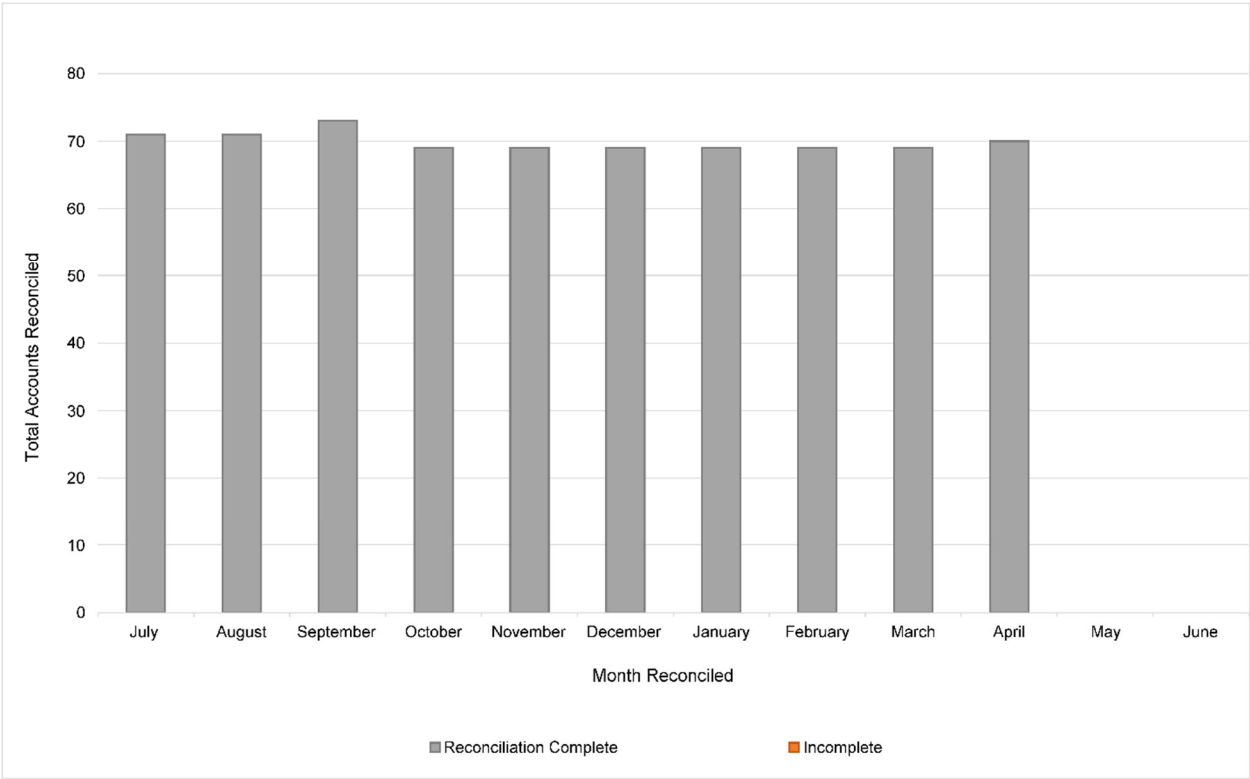


Table 1 – Fiscal Year 2023 GL Cash Account Rollforward

Total GL Cash accounts as of July 1, 2022	71
New GL Cash accounts	4
Inactivated GL Cash accounts	(5)
Total GL Cash accounts as of April 30, 2023	70

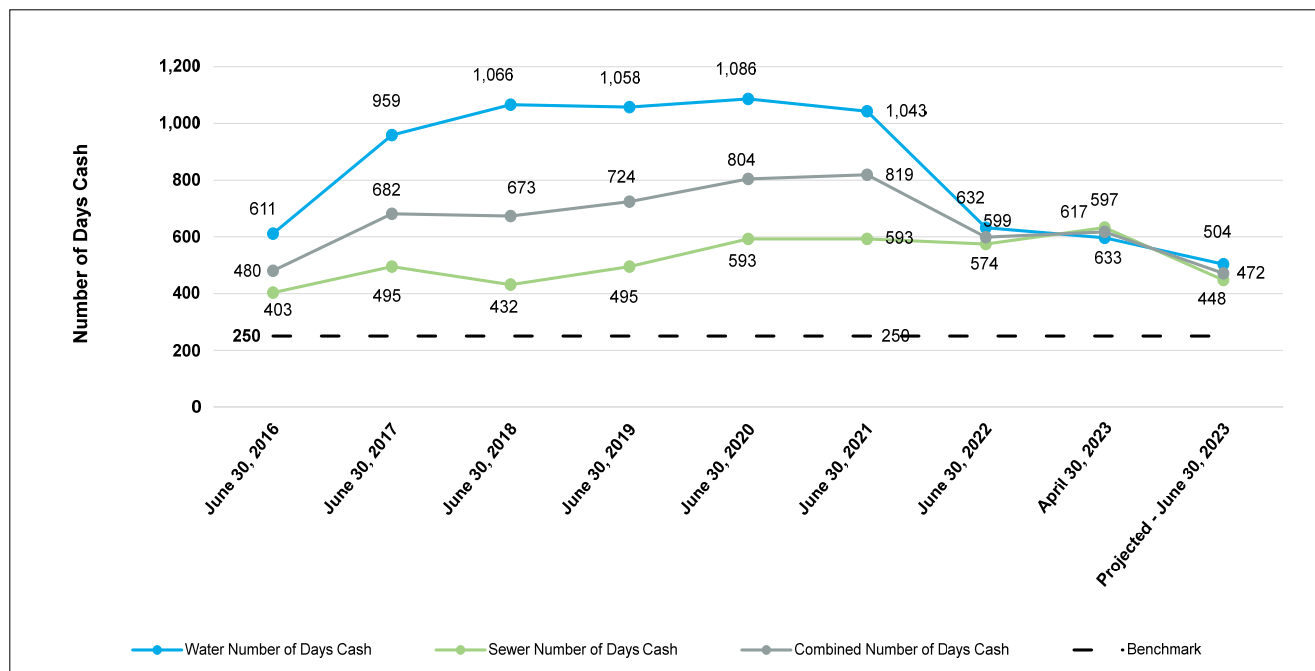


Financial Operations KPI - Liquidity

This key performance indicator shown in **Chart 1 – Historical Schedule of Days Cash on Hand – Liquidity – Regional System** and **Table 1 – Schedule of Days Cash on Hand – Liquidity – Regional System** below provides a measure of a utility's ability to meet expenses, cope with emergencies and navigate business interruptions. Liquidity is one of several key metrics monitored by bond rating agencies reflecting an organization's financial strength. A best practice benchmark for this key performance indicator is greater than 250 days cash on hand as shown by the dashed line in Chart 1 below.

Both GLWA Water and Sewer funds continue to exceed this target with Water at 633 and Sewer at 597 days cash on hand as of April 30, 2023. These balances remain strong for the regional system but did decrease in FY 2022 as I&E funds were used as planned to fund capital improvement projects. A September 2022 revenue bond transaction has replenished the construction bond fund and reduced the emphasis on I&E funding. The FY 2023 projection is calculated based on values from the GLWA FY 2023 – 2027 Budget & Five-Year Plan.

Chart 1 – Historical Schedule of Days Cash on Hand – Liquidity – Regional System



Note: The GLWA Annual Comprehensive Financial Reports are the source of all historic data referenced. Refer to these reports for detailed calculations by fiscal year.

Table 1 – Schedule of Days Cash on Hand – Liquidity – Regional System

	<u>June 30, 2022</u>	<u>April 30, 2023</u>	<u>Projected June 30, 2023</u>
Water Fund			
Cash and Investments - Unrestricted	\$ 238,691,000	\$ 243,976,000	\$ 205,800,000
Operating Expense			
Operating Expense (a)	\$ 264,579,000	\$ 240,012,000	\$ 288,014,000
Less: Depreciation (a)	(123,196,000)	(112,750,000)	(135,300,000)
Less: Amortization of Intangible Asset (a)	(3,567,000)	(2,972,000)	(3,567,000)
Net Operating Expense	\$ 137,816,000	\$ 124,290,000	\$ 149,148,000
Operating Expense per Day	\$ 378,000	\$ 409,000	\$ 409,000
Days Cash			
Number of Days Cash	632	597	504
Sewage Disposal Fund			
Cash and Investments - Unrestricted	\$ 294,174,000	\$ 352,435,000	\$ 249,400,000
Operating Expense			
Operating Expense (a)	\$ 345,372,000	\$ 304,185,000	\$ 365,023,000
Less: Depreciation (a)	(158,014,000)	(134,833,000)	(161,800,000)
Less: Amortization of Intangible Asset (a)	(440,000)	-	-
Net Operating Expense	\$ 186,919,000	\$ 169,352,000	\$ 203,223,000
Operating Expense per Day	\$ 512,000	\$ 557,000	\$ 557,000
Days Cash			
Number of Days Cash	574	633	448
Combined			
Cash and Investments - Unrestricted	\$ 532,865,000	\$ 596,410,000	\$ 455,200,000
Operating Expense			
Operating Expense (a)	\$ 609,951,000	\$ 544,197,000	\$ 653,037,000
Less: Depreciation (a)	(281,210,000)	(247,583,000)	(297,100,000)
Less: Amortization of Intangible Asset (a)	(4,006,000)	(2,972,000)	(3,567,000)
Net Operating Expense	\$ 324,735,000	\$ 293,642,000	\$ 352,370,000
Operating Expense per Day	\$ 890,000	\$ 966,000	\$ 965,000
Days Cash			
Number of Days Cash	599	617	472
<i>Totals may be off due to rounding</i>			

(a) Current year expenses are expressed as a proration of the annual budget for the purposes of this metric.



The monthly Budget to Financial Statements Crosswalk includes the following.

1. Crosswalk Budget Basis to Financial Reporting Basis
2. Explanatory Notes for Crosswalk

Purpose for Crosswalk: The Great Lakes Water Authority establishes a “Revenue Requirements” budget for the purposes of establishing charges for services. The financial report is prepared in accordance with Generally Accepted Accounting Policies for enterprise funds of a local government. Because the budget and the financial statements are prepared using different basis of accounting, the crosswalk reconciles the “Net Difference” to the “Increase/(Decrease) in Net Position” in Table 2 of the Basic Financial Statements in the monthly Financial Report.

The Authority has a Water Master Bond Ordinance and a Sewer Master Bond Ordinance (MBO). The Ordinances provide additional security for payment of the bonds. All revenues of the system are deposited into Revenue Receipts Funds which are held in trust by a trustee. The cash is moved to multiple bank accounts monthly based on 1/12th of the budget as defined in the MBO (“the flow of funds”) for all revenue requirements except for the Debt Service monthly transfer. The Debt Service monthly requirement is computed by the trustee, U.S. Bank. The cash transfer for debt is net of investment earnings that remain in the debt service accounts to be used for debt service.

The budget is prepared on a modified cash basis. The revenue requirements are determined based upon the cash needed to meet the financial commitments as required by the Master Bond Ordinance.

- Operation & Maintenance (O&M) expenses based on an accrual basis
- O&M Legacy Pension Allocation (includes administrative fee) and Accelerated Legacy Pension Allocation (includes B&C notes obligation) based on a cash basis
- Debt Service Allocation based on a cash set aside basis to provide the cash for the debt payments on the due dates
- Lease payments based on a cash basis
- Water Residential Assistance Program based on a percentage of budgeted revenue
- Regional System Improvement & Extension Fund Allocation on a cash basis

Budget: In Table 1A and Table 1B of the Budget to Actual Analysis the ‘Revenues’ section is the accrual basis revenues that are available to meet the ‘Revenue Requirements’. The ‘Revenue Requirements’ section budget column indicates the annual cash transfers to be made.

Financial Reporting: The Authority's financial statements are prepared in conformity with generally accepted accounting principles (GAAP) as applied to government units. The Authority maintains its records on the accrual basis of accounting to conform to GAAP. Revenues from operations, investments and other sources are recorded when earned. Expenses (including depreciation) are recorded when incurred.

Table 1 – Crosswalk Budget Basis to Financial Reporting Basis provides a reconciliation of the “Net Difference” in Table 1A and Table 1B in the Budget to Actual Analysis report to the “Increase/(Decrease) in Net Position” in Table 2 of the Basic Financial Statements in this monthly Financial Report. Explanatory notes follow the Crosswalk shown in Table 1 below.

Table 1 – Crosswalk Budget Basis to Financial Reporting Basis (\$000)
For the Nine Months Ended April 30, 2023

	Water	Sewer	Total
Net Revenue Requirement Budget Variance (a)	\$ (5,071)	\$ 145	\$ (4,926)
Budgetary categories adjustments to financial reporting basis			
Pension delayed accounting election adjustments			
Current year pension transfers/payments recorded as deferral (c)	9,534	17,063	26,597
Prior year pension contribution accounted for in current year (d)	7,444	13,322	20,766
Administrative prepaid adjustment (e)	-	-	-
Debt service (f)	57,746	97,191	154,937
Accelerated pension B&C notes obligation portion (g)	170	382	552
Regional System lease (h)	4,739	5,792	10,531
GASB 87 & GASB 96 adjustments (h)	336	640	976
WRAP (i)	(362)	(727)	(1,089)
DWSD short term allocation (j)	-	-	-
Improvement & Extension Fund transfers (j)	23,714	22,084	45,798
Nonbudgeted financial reporting categories adjustments			
Depreciation and amortization (k)	(108,565)	(136,938)	(245,503)
Amortization - debt related (k)	11,879	(2,589)	9,290
Other nonoperating income (k)	-	-	-
Other nonoperating expense (k)	-	-	-
Gain(loss) on disposal of capital assets (k)	(277)	(1,842)	(2,119)
Raw water rights obligation (l)	2,363	-	2,363
Investment earnings for construction fund (m)	4,877	5,661	10,537
Interest on DWSD note receivable (n)	-	-	-
Investment earnings unrealized gain/loss (o)	2,844	3,860	6,704
Improvement & extension fund operating expenses (p)	(929)	(3,530)	(4,458)
Net Position Increase/(Decrease) per Financial Statements (b)	\$ 10,443	\$ 22,690	\$ 33,132

Table 2 - Explanatory Notes for Crosswalk

- (a) Source: Budget to Actual Table 1A and Table 1B in Monthly Financial Report
- (b) Source: Basic Financial Statements Table 2 in Monthly Financial Report
- (c) Current year pension payments are an expense for budget purposes but not for financial reporting purposes.

- (d) Prior year pension payments are accounted for in the current year financial statements.
- (e) The administrative fee is part of the O&M Legacy Pension shown as an expense for budget purposes. For financial reporting purposes part of the administrative fee is considered prepaid based on the prior year General Retirement System audit information and therefore not an expense for the current year financial reporting. The prepaid portion is adjusted in June each year.
- (f) Debt service (principal and interest payments) are shown as an expense for budget purposes. Most of the adjustment relates to principal payments which are not an expense for financial reporting purposes. A portion of the adjustment relates to interest expense variances on state revolving fund debt due to the timing of payment draws. The cash set aside basis for interest expense generally is the same as the accrual basis for financial reporting.
- (g) The accelerated pension payment includes the obligation payable for the B&C notes. The pension portion is included in item (c) above. This adjustment relates to the B&C note obligation payments. The principal and interest cash basis payments are treated as an expense for budget purposes. The principal portion is not an expense for financial reporting purposes. For financial reporting purposes interest is expensed on an accrual basis which is different from the cash basis.
- (h) Payments for the warehouse lease and subscription-based information technology arrangements (SBITA) are expensed for budget purposes. For financial reporting purposes, the warehouse lease is recorded under GASB 87 and payments are treated as a reduction in the lease liability and interest expense (which is a nonoperating expense). The SBITA payments are recorded under GASB 96 and are treated as a prepaid subscription asset as the software is currently in the implemented phase.
- (i) WRAP is shown as an expense for budget purposes. For financial reporting purposes the expense is not recognized until the funds have been transferred to the WRAP administrator. The adjustment shown is the amount of current year transfers that have not been transferred to the WRAP administrator. Note that there are funds from the prior year that have not been transferred to the WRAP administrator.
- (j) The DWSD short term allocation and Improvement & Extension Fund transfers are shown as an expense for budget purposes but not for financial reporting purposes.
- (k) Certain nonoperating income and expenses are reported in financial statements only.

- (l) The water service contract with Flint includes a license for raw water rights which has been recorded as an asset and liability by the Authority. The contract provides for a credit to Flint as Flint satisfies its monthly bond payment obligation to KWA. This KWA credit is treated as a noncash payment of principal and interest on the liability recorded for the raw water rights. For budget, wholesale customer charges are net of the anticipated KWA credits to Flint as that is the cash that will be received and available to meet the budgeted revenue requirements. For financial reporting purposes the Flint wholesale charges are recorded as the total amount billed. When the KWA credit is issued, the receivable from Flint is reduced and the principal and interest payments on the liability for the raw water rights are recorded as a noncash transaction. Most of the adjustment shown relates to the principal reduction made for the credits applied which are not an expense for financial reporting basis.
- (m) Investment earnings from the construction fund are not shown as revenue in the budget and are shown as revenue in the financial statements. Construction fund investment earnings are excluded from the definition of revenue for budget purposes as they are used for construction costs and are not used to meet the revenue requirements in the budget.
- (n) Interest on a DWSD note receivable is budgeted as part of the Sewer improvement and extension fund and is transferred directly to that fund as payments are made. DWSD does not currently have a note receivable due to GLWA.
- (o) Unrealized gains and losses are recorded annually as required for financial reporting purposes but do not reflect actual investment earnings and are not included in cash basis reporting.
- (p) The Water Improvement and Extension fund and the Sewer Improvement and Extension fund reflect certain expenses relating to repairs paid for through the Water and Sewer Improvement and Extension funds, respectively. These are consolidated expenses for financial reporting purposes but are not reflected in the current Operations and Maintenance budget expenses.



The Monthly Capital Improvement Plan Financial Summary includes the following.

1. Water System Capital Improvement Plan Spend Incurred to date
2. Sewer System Capital Improvement Plan Spend Incurred to date

Capital Improvement Plan Financial Summary

Great Lakes Water Authority (GLWA) capital improvement projects generally span two or more years due to size and complexity. Therefore, the GLWA Board of Directors (Board) adopts a five-year capital improvement plan (CIP). The CIP is a five-year, rolling plan which is updated annually and formally adopted by the GLWA Board of Directors. In addition, the Board of Directors adopts a capital spending ratio assumption (SRA) which allows the realities of capital program delivery to align with the financial plan. The SRA is an analytical approach to bridge the total dollar amount of projects in the CIP with what can realistically be spent due to limitations beyond GLWA's control and/or delayed for nonbudgetary reasons. Those limitations, whether financial or non-financial, necessitate the SRA for budgetary purposes, despite the prioritization established.

This report presents quarterly and monthly CIP spending against the prorated CIP in total and the CIP adjusted for the SRA. The prorated CIP is calculated by dividing the total fiscal year 2023 board-approved CIP plan by twelve equal months. It should be noted that for operational purposes, GLWA utilizes Primavera P6 for refined monthly projections for cash management and project management.

GLWA completed a bond transaction of \$450 million in September 2022 to support water system and sewage disposal system improvements. These funds along with I&E and SRF low-interest loans will fund the capital program going forward.

Capital spend reflects a noticeable variance from budgeted CIP for both the water and sewer funds. For the purposes of this metric, we compare actual spend with the Board-approved budget. For the purposes of managing the financial plan, budget amendments are made to align spending with resources available. Fourth quarter FY 2023 budget amendments were approved by the Board on June 28, 2023. The capital spend rate adjustment is 107% of the Board approved CIP planned spend for the water fund and 86.2% of the Board approved CIP planned spend for the sewer fund.

As of December 31, 2022, the State Revolving Fund (SRF) activity reported in Charts 1 and 2 has been revised to reflect changes in approved, GLWA SRF funding.

Chart 1 – Water System Capital Improvement Plan Spend Incurred to Date

As of April 2023, the water system incurred over \$170 million of construction costs to date. This spend represents 105% of the original, Board-approved CIP, and 98% of the Board-reviewed spend rate adjustment.

Economic factors affecting the CIP spend are considered by the Board quarterly at which time the Board may amend the planned spend rate adjusted.

Chart 1 – Water System Capital Improvement Plan Spend Incurred to Date – Spend Rate Adjusted

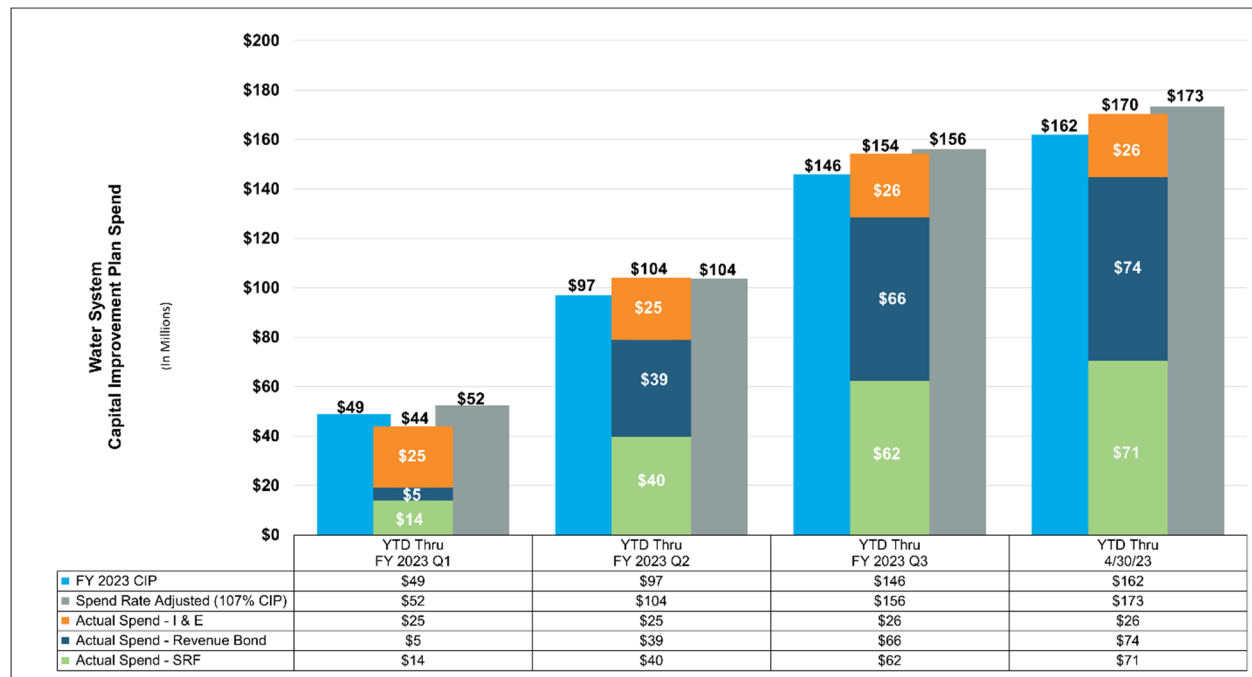
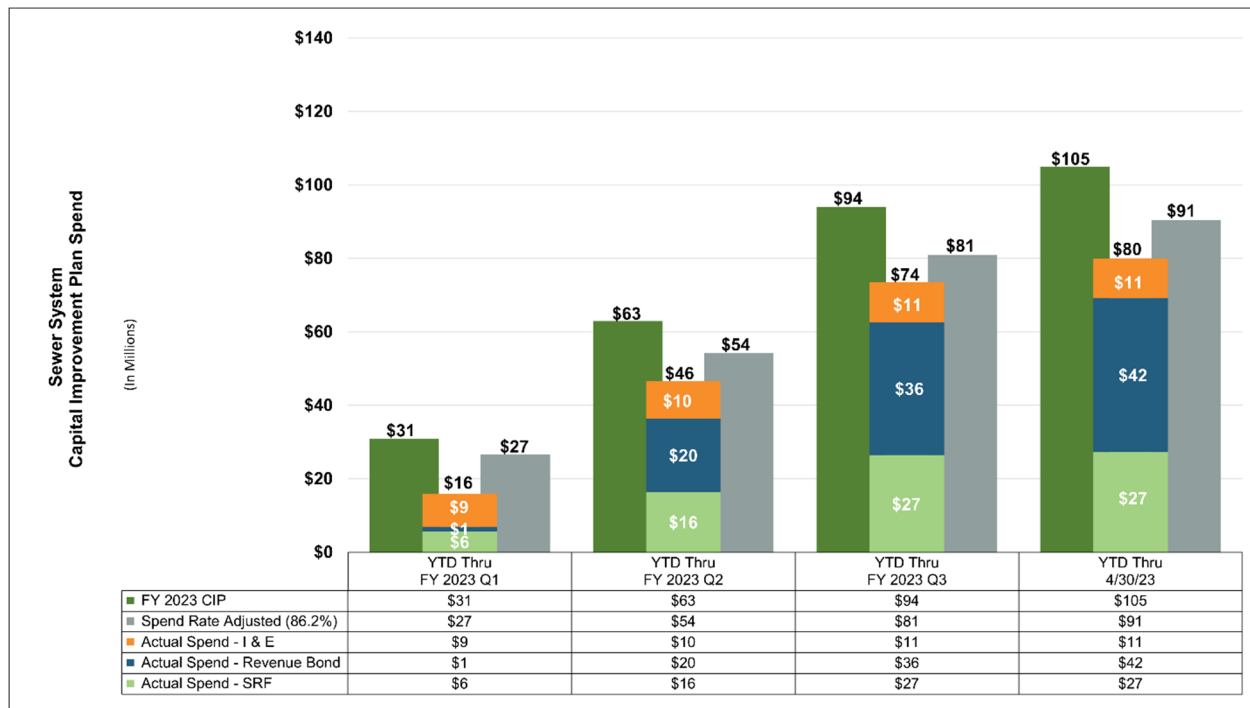


Chart 2 – Sewer System Capital Improvement Plan Spend Incurred to Date

As of April 2023, the Sewer system incurred over \$80 million of construction costs to date. This spend represents 76% of the original, Board-approved CIP, and 88% of the Board-reviewed spend rate adjustment.

Economic factors affecting the CIP spend are considered by the Board quarterly at which time the Board may amend the planned spend rate adjusted.

Chart 2 – Sewer System Capital Improvement Plan Spend Incurred to Date – Spend Rate Adjusted





This report includes the following.

1. Master Bond Ordinance (MBO) Required Transfers to Accounts Held by GLWA
2. Master Bond Ordinance (MBO) Required Transfers to Accounts Held by DWSD

MBO Transfers to Accounts Held by GLWA

GLWA Transfers: The Treasury team completes required MBO transfers on the first business day of each month. These transfers are completed in accordance with the Great Lakes Water Authority (GLWA) and Detroit Water & Sewerage Department (DWSD) budgets as approved and adopted by the GLWA Board of Directors and DWSD Board of Water Commissioners annually.

Monthly transfers for Operations & Maintenance (O&M), Pension, and Water Residential Assistance Program (WRAP) are one-twelfth of the annual, budgeted amount. Budget stabilization should not require additional funding due to new, baseline funding levels established as part of the June 2018 Memorandum of Understanding but is included to reflect historical activity. If there are transfers to the Extraordinary Repair & Replacement (ER&R) fund they would be completed annually based on budget and year-end fund status.

Table 1 – GLWA FY 2023 Water MBO Transfers reflects the required transfers for FY 2023 completed through April 2023. MBO transfers for water totaling \$140.3 million have been transferred to GLWA accounts.

Table 2 – GLWA FY 2023 Sewer MBO Transfers reflects the required transfers for FY 2023 completed through April 2023. MBO transfers for sewer totaling \$188.9 million have been transferred to GLWA accounts.

Table 3 – GLWA MBO Transfer History reflects historical transfers for FY 2016 through FY 2023 to date.

Table 1 – GLWA FY 2023 Water MBO Transfers

	WATER						
	Operations & Maintenance	Pension Sub Account	Pension Obligation	WRAP	Budget Stabilization (For Benefit of DWSD)	Extraordinary Repair & Replacement (ER&R)	Total Water
FY 2023							
July 2022	\$ 12,070,642	\$504,000	\$891,308	\$200,975	-	2,000,000	\$15,666,925
August 2022	\$ 12,070,642	\$504,000	\$891,308	\$200,975	-	-	13,666,925
September 2022	\$ 12,070,642	\$504,000	\$891,308	\$200,975	-	-	13,666,925
October 2022	\$ 12,070,642	\$504,000	\$891,308	\$223,209	-	-	13,689,159
November 2022	\$ 12,070,642	\$504,000	\$891,308	\$223,209	-	-	13,689,159
December 2022	\$ 12,070,642	\$504,000	\$891,308	\$223,209	-	-	13,689,159
January 2023	\$ 12,070,642	\$504,000	\$891,308	\$223,209	-	-	13,689,159
February 2023	\$ 12,070,642	\$504,000	\$891,308	\$223,209	-	-	13,689,159
March 2023	\$ 12,070,642	\$504,000	\$891,308	\$223,209	-	-	13,689,159
April 2023	\$ 13,503,974	\$504,000	\$891,308	\$223,209	-	-	15,122,491
Total FY 2023	\$ 122,139,752	\$ 5,040,000	\$ 8,913,080	\$ 2,165,388	\$ -	\$ 2,000,000	\$140,258,220

Table 2 – GLWA FY 2023 Sewer MBO Transfers

	SEWER						
	Operations & Maintenance	Pension Sub Account	Pension Obligation	WRAP	Budget Stabilization (For Benefit of DWSD)	Extraordinary Repair & Replacement (ER&R)	Total Sewer
FY 2023							
July 2022	\$ 15,337,717	\$902,000	\$1,223,950	\$321,925	-	-	\$17,785,592
August 2022	\$ 15,337,717	\$902,000	\$1,223,950	\$321,925	-	-	17,785,592
September 2022	\$ 15,337,717	\$902,000	\$1,223,950	\$321,925	-	-	17,785,592
October 2022	\$ 16,534,372	\$902,000	\$1,223,950	\$300,892	-	-	18,961,214
November 2022	\$ 16,534,372	\$902,000	\$1,223,950	\$300,892	-	-	18,961,214
December 2022	\$ 16,534,372	\$902,000	\$1,223,950	\$300,892	-	-	18,961,214
January 2023	\$ 16,534,372	\$902,000	\$1,223,950	\$300,892	-	-	18,961,214
February 2023	\$ 16,534,372	\$902,000	\$1,223,950	\$300,892	-	-	18,961,214
March 2023	\$ 16,534,372	\$902,000	\$1,223,950	\$300,892	-	-	18,961,214
April 2023	\$ 19,334,372	\$902,000	\$1,223,950	\$300,892	-	-	21,761,214
Total FY 2023	\$ 164,553,755	\$9,020,000	\$12,239,500	\$3,072,019	\$ -	\$ -	\$188,885,274

All amounts are unaudited unless otherwise noted.

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Table 3 – GLWA MBO Transfer History

GLWA MBO Transfer History							
WATER							
	Operations & Maintenance	Pension Sub Account	Pension Obligation	WRAP	Budget Stabilization (For Benefit of DWSD)	Extraordinary Repair & Replacement (ER&R)	Total Water
Total FY 2016	\$71,052,000	\$6,037,100	\$10,297,200	\$1,983,300	\$2,326,900	\$606,000	\$92,302,500
Total FY 2017	111,879,600	6,037,200	10,297,200	2,077,200	360,000	-	130,651,200
Total FY 2018	121,562,604	6,048,000	10,695,696	2,159,400	-	-	140,465,700
Total FY 2019	121,562,604	6,048,000	10,695,696	2,061,000	-	-	140,367,300
Total FY 2020	126,840,204	6,048,000	10,695,683	1,980,804	-	-	145,564,691
Total FY 2021	134,127,300	6,048,000	10,695,700	2,324,200	-	-	153,195,200
Total FY 2022	143,933,800	6,048,000	10,695,700	2,376,600	-	-	163,054,100
Total FY 2023 (month to date)	122,139,752	5,040,000	8,913,080	2,165,388	-	2,000,000	140,258,220
Life to Date	\$953,097,864	\$47,354,300	\$82,985,955	\$17,127,892	\$2,686,900	\$2,606,000	\$1,105,858,911
SEWER							
	Operations & Maintenance	Pension Sub Account	Pension Obligation	WRAP	Budget Stabilization (For Benefit of DWSD)	Extraordinary Repair & Replacement (ER&R)	Total Sewer
Total FY 2016	\$100,865,600	\$10,838,400	\$14,025,800	\$2,523,400	\$5,591,700	\$779,600	\$134,624,500
Total FY 2017	175,858,800	10,838,400	14,026,800	2,654,400	2,654,400	-	206,032,800
Total FY 2018	191,079,396	10,824,000	14,687,496	2,760,804	-	-	219,351,696
Total FY 2019	191,079,396	10,824,000	14,687,496	2,870,992	-	-	219,461,884
Total FY 2020	181,925,800	10,824,000	14,687,517	2,887,300	-	-	210,324,617
Total FY 2021	182,296,000	10,824,000	14,687,500	3,764,300	-	-	211,571,800
Total FY 2022	191,908,600	10,824,000	14,687,400	3,868,700	-	-	221,288,700
Total FY 2023 (month to date)	164,553,755	9,020,000	12,239,500	3,072,019	-	-	188,885,274
Life to Date	\$1,379,567,347	\$84,816,800	\$113,729,509	\$24,401,915	\$8,246,100	\$779,600	\$1,611,541,271

All amounts are unaudited unless otherwise noted.

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MBO Required and Lease Payment Transfers to DWSD

DWSD Transfers: The GLWA Treasury team completes the required MBO transfers on the first business day of each month. These transfers are completed in accordance with the GLWA and DWSD budgets as approved and adopted by the GLWA Board of Directors and DWSD Board of Water Commissioners annually. Transfers are coordinated with other areas of GLWA Financial Services in advance of the first business day of each month. GLWA Treasury sends confirmation of transfers made to DWSD Treasury.

Monthly transfers for O&M and O&M Pension are one-twelfth of the annual, budgeted amount. The annual lease payment, as stated in the Water & Sewer Lease Agreements, is \$22,500,000 for Water and \$27,500,000 for Sewer. The monthly lease transfer is one-twelfth of the amount as stated in the Lease agreements unless otherwise designated by DWSD. Per Section 3.5 of the Lease, the Lease payment may be used for (a) bond principal and interest for Local System Improvements, (b) bond principal and interest for the City's share of common-to-all System Improvements, and (c) Local System improvements.

Table 4 – DWSD FY 2023 Water MBO Transfers reflects the required transfers for FY 2023 completed through April 2023. MBO transfers for Water totaling \$54.4 million have been transferred to accounts held by DWSD. For FY 2023, DWSD has requested that \$2,922,100 of the lease payment be utilized to offset a portion of debt service.

Table 5 – DWSD FY 2023 Sewer MBO Transfers reflects the required transfers for FY 2023 completed through April 2023. MBO transfers for Sewer totaling \$65.4 million have been transferred to accounts held by DWSD. For FY 2023, DWSD has requested that \$4,388,300 of the lease payment be utilized to offset a portion of debt service.

Table 6 – DWSD Water MBO and Lease Payment Transfer History reflects historical transfers for FY 2016 through FY 2023 to date.

Table 7 – DWSD Sewer MBO and Lease Payment Transfer History reflects historical transfers for FY 2016 through FY 2023 to date.

Table 4 – DWSD FY 2023 Water MBO Transfers

WATER				
	<u>Operations & Maintenance</u>	<u>Pension</u>	<u>Lease Payment (I&E Fund)</u>	<u>Total Water</u>
FY 2023				
July 2022	\$2,540,833	\$356,000	\$1,150,750	\$4,047,583
August 2022	2,540,833	356,000	1,150,750	4,047,583
September 2022	2,540,833	356,000	1,150,750	4,047,583
October 2022	3,884,345	356,000	1,791,739	6,032,084
November 2022	3,884,345	356,000	1,791,739	6,032,084
December 2022	3,884,345	356,000	1,791,739	6,032,084
January 2023	3,884,345	356,000	1,791,739	6,032,084
February 2023	3,884,345	356,000	1,791,739	6,032,084
March 2023	3,884,345	356,000	1,791,739	6,032,084
April 2023	3,884,345	356,000	1,791,739	6,032,084
Total FY 2023	\$34,812,914	\$3,560,000	\$15,994,423	\$54,367,337

Table 5 – DWSD FY 2023 Sewer MBO Transfers

SEWER				
	<u>Operations & Maintenance</u>	<u>Pension</u>	<u>Lease Payment (I&E Fund)</u>	<u>Total Sewer</u>
FY 2023				
July 2022	\$5,282,500	\$238,000	\$2,291,667	\$7,812,167
August 2022	5,282,500	238,000	2,291,667	7,812,167
September 2022	5,282,500	238,000	2,291,667	7,812,167
October 2022	3,949,878	238,000	1,804,078	5,991,956
November 2022	3,949,878	238,000	1,804,078	5,991,956
December 2022	3,949,878	238,000	1,804,078	5,991,956
January 2023	3,949,878	238,000	1,804,078	5,991,956
February 2023	3,949,878	238,000	1,804,078	5,991,956
March 2023	3,949,878	238,000	1,804,078	5,991,956
April 2023	3,949,878	238,000	1,804,078	5,991,956
Total FY 2023	\$43,496,646	\$2,380,000	\$19,503,547	\$65,380,193

Table 6 – DWSD Water MBO and Lease Payment Transfer History

Transfers to DWSD				
WATER				
	Operations & Maintenance	Operations & Maintenance Pension	Lease Payment (I&E Fund)	Total Water
FY 2016 *				
MBO/Lease Requirement	\$26,185,600	\$4,262,700	\$22,500,000	\$52,948,300
Offset to Debt Service	-	-	(2,326,900)	(2,326,900)
Net MBO Transfer	26,185,600	4,262,700	20,173,100	50,621,400
FY 2017				
MBO/Lease Requirement	33,596,400	4,262,400	22,500,000	60,358,800
Offset to Debt Service	-	-	-	-
Net MBO Transfer	33,596,400	4,262,400	22,500,000	60,358,800
FY 2018				
MBO/Lease Requirement	35,059,704	4,272,000	22,500,000	61,831,704
Offset to Debt Service	-	-	(1,875,000)	(1,875,000)
Net MBO Transfer	35,059,704	4,272,000	20,625,000	59,956,704
FY 2019				
MBO/Lease Requirement	35,484,300	4,272,000	22,500,000	62,256,300
Offset to Debt Service	-	-	(3,972,200)	(3,972,200)
Net MBO Transfer	35,484,300	4,272,000	18,527,800	58,284,100
FY 2020				
MBO/Lease Requirement	34,662,400	4,272,000	22,500,000	61,434,400
Offset to Debt Service	-	-	(3,548,000)	(3,548,000)
Net MBO Transfer	34,662,400	4,272,000	18,952,000	57,886,400
FY 2021				
MBO/Lease Requirement	35,833,900	4,272,000	22,500,000	62,605,900
Offset to Debt Service	-	-	(8,278,300)	(8,278,300)
Net MBO Transfer	35,833,900	4,272,000	14,221,700	54,327,600
FY 2022				
MBO/Lease Requirement	29,989,000	4,272,000	22,500,000	56,761,000
Offset to Debt Service	-	-	(8,925,400)	(8,925,400)
Net MBO Transfer	29,989,000	4,272,000	13,574,600	47,835,600
FY 2023 (month to date)				
MBO/Lease Requirement	34,812,914	3,560,000	16,875,000	55,247,914
Offset to Debt Service	-	-	(880,577)	(880,577)
Net MBO Transfer	34,812,914	3,560,000	15,994,423	54,367,337
Life-to-Date				
MBO/Lease Requirement	265,624,218	33,445,100	174,375,000	473,444,318
Offsets	-	-	(29,806,377)	(29,806,377)
Total Water	265,624,218	33,445,100	144,568,623	443,637,941

All amounts are unaudited unless otherwise noted.

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Table 7 – DWSD Sewer MBO and Lease Payment Transfer History

	SEWER			
	Operations & Maintenance	Operations & Maintenance Pension	Lease Payment (I&E Fund)	Total Sewer
FY 2016 *				
MBO/Lease Requirement	\$19,774,300	\$2,861,800	\$27,500,000	\$50,136,100
Offset to Debt Service	-	-	(19,991,500)	(19,991,500)
Total MBO Transfer	19,774,300	2,861,800	7,508,500	30,144,600
FY 2017				
MBO/Lease Requirement	41,535,600	2,862,000	27,500,000	71,897,600
Offset to Debt Service	-	-	-	-
Total MBO Transfer	41,535,600	2,862,000	27,500,000	71,897,600
FY 2018				
MBO/Lease Requirement	60,517,992	2,856,000	27,500,000	90,873,992
Offset to Debt Service	-	-	(9,166,664)	(9,166,664)
Total MBO Transfer	60,517,992	2,856,000	18,333,336	81,707,328
FY 2019				
MBO/Lease Requirement	56,767,920	2,856,000	27,500,000	87,123,920
Offset to Debt Service	-	-	(4,415,000)	(4,415,000)
Total MBO Transfer	56,767,920	2,856,000	23,085,000	82,708,920
FY 2020				
MBO/Lease Requirement	62,343,500	2,856,000	27,500,000	92,699,500
Offset to address shortfall	(7,100,000)	-	-	(7,100,000)
Offset to Debt Service	-	-	(5,032,700)	(5,032,700)
Total MBO Transfer	55,243,500	2,856,000	22,467,300	80,566,800
FY 2021				
MBO/Lease Requirement	69,915,700	2,856,000	27,500,000	100,271,700
Offset to Debt Service	-	-	(3,257,200)	(3,257,200)
Total MBO Transfer	69,915,700	2,856,000	24,242,800	97,014,500
FY 2022				
MBO/Lease Requirement	61,301,000	2,856,000	27,500,000	90,735,453
Offset to Debt Service	-	-	(5,529,297)	(4,607,750)
Total MBO Transfer	61,301,000	2,856,000	21,970,703	86,127,703
FY 2023 (month to date)				
MBO/Lease Requirement	43,496,646	2,380,000	20,625,000	66,501,646
Offset to Debt Service	-	-	(1,121,453)	(1,121,453)
Total MBO Transfer	43,496,646	2,380,000	19,503,547	65,380,193
Life-to-Date				
MBO/Lease Requirement	415,652,658	22,383,800	213,125,000	650,239,911
Offsets	(7,100,000)	-	(48,513,814)	(54,692,267)
Total Sewer	408,552,658	22,383,800	164,611,186	595,547,644

* Note: FY 2016 lease transfer amounts shown do not include prepayment on the lease amount for the 6 months period before bifurcation.



This report includes the following:

1. Monthly Cash Balances Compared to Investment Income
2. Cash Balance Detail

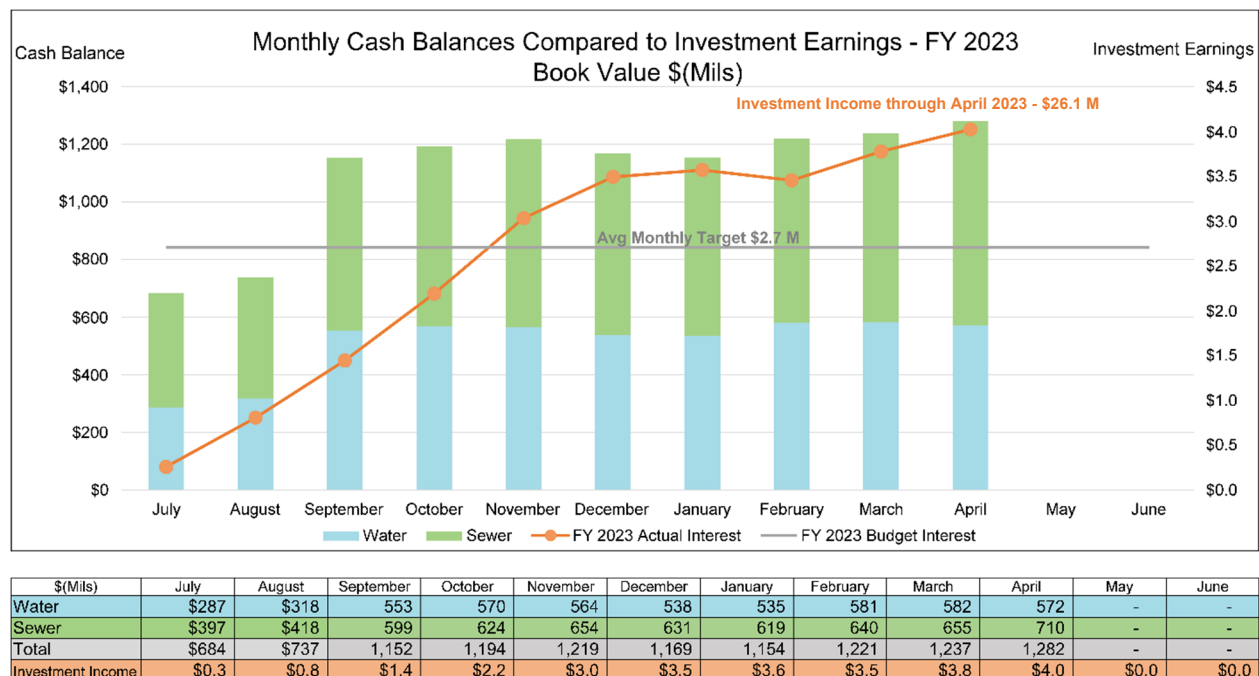
Monthly Cash Balances Compared to Investment Income

GLWA's investment holdings comply with the requirements of Public Act 20 of 1948, as amended and the GLWA Investment Policy. The cash balances shown in this report include bank deposits, money market funds, a local government investment pool, U.S. Treasuries, Federal Agencies, and commercial paper.

Cash and investment balances change each month based on Master Bond Ordinance (MBO) funding requirements, operational needs, capital spending pace, and mandatory debt payments. Investment income fluctuates monthly based on cash and investment balances as well as market conditions and investment strategy. For the month of April 2023, GLWA earned investment income of \$4.0 million and cumulative FY 2023 earnings through April 2023 of \$26.1 million. Total investment income reported includes earnings from revenue requirement funds as well as construction bond funds.

GLWA continues to refine cash flows and work with its investment advisor to identify strategies to maximize future investment income while meeting the objectives of safety and liquidity.

Chart 1 – Monthly Cash Balances Compared to Investment Income – Through April 2023



Cash Balance Detail

Funds Held By GLWA: GLWA cash balances are held in accounts as defined by the Master Bond Ordinance. The accounts are funded by monthly transfers, as stipulated in the MBO, on the first business day of each month. The “operations and maintenance” (O&M) fund transfer amounts are based upon the annual O&M budget approved by the GLWA Board of Directors for the regional systems and by the Board of Water Commissioners for the Detroit Water & Sewerage Department (DWSD) local system budgets. The water and sewer funds held by GLWA and their purpose, as defined by the MBO, are listed below.

Funds Held Within Trust:

- Receiving – all retail and wholesale revenues collected which are distributed in subsequent month(s)
- Debt Service – funds set aside for debt service and debt reserve requirements
- Pension Obligation – funds set aside to meet GLWA’s annual funding requirements for the legacy General Retirement System Pension Plan
- Water Residential Assistance Program (WRAP) – funds set aside to be used to provide financial assistance to qualified residents throughout the local and regional water system as directed by program guidelines
- Budget Stabilization – funds held by GLWA on behalf of DWSD that can be applied against shortfalls in retail revenues
- Emergency Repair & Replacement (ER&R) – funds set aside to pay the costs for major unanticipated repairs and replacements of the local and regional systems
- Improvement & Extension (I&E) – funds set aside to be used for the improvements, enlargements, and extensions of the regional system

Funds Held Outside Trust:

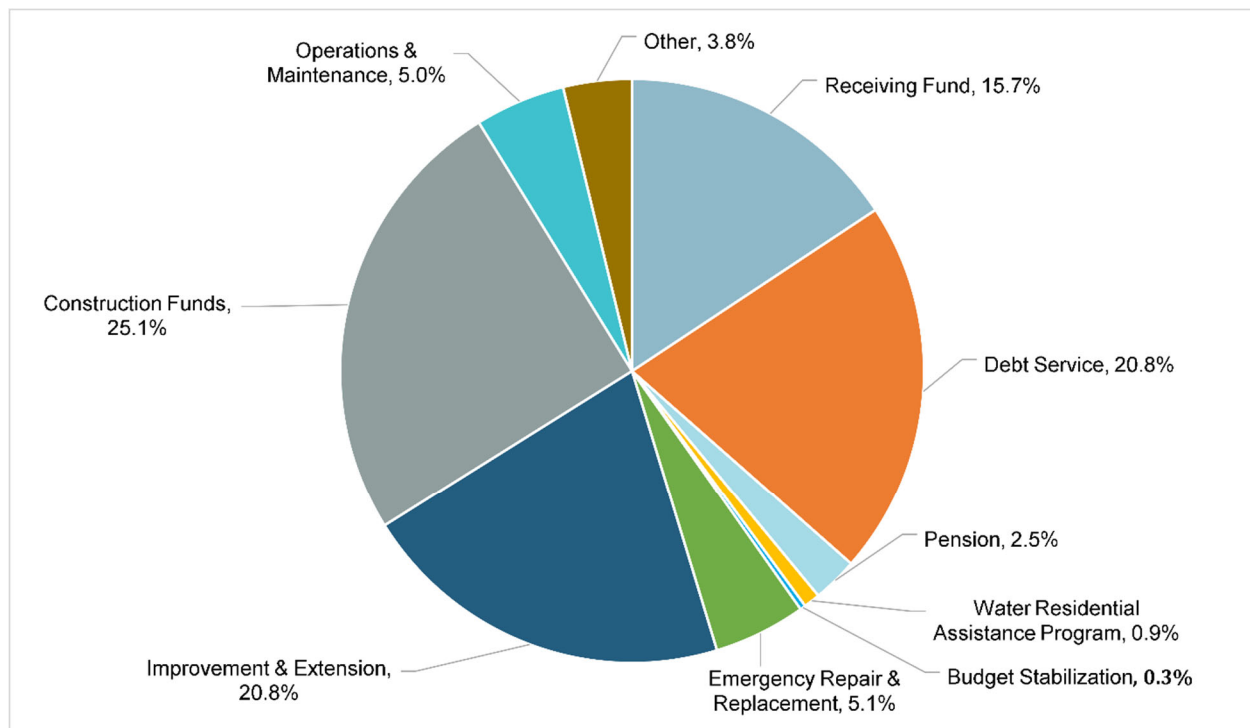
- Bond Proceeds – funds raised from debt issuance used for costs of repairs, construction, and improvements of the regional system
- Operations & Maintenance (O&M) – funds used to meet the operational and maintenance requirements of the regional system
- Other – retainage funds held on behalf of contractors and security deposit funds held on behalf of the City of Flint

A [chart](#) depicting the follow of funds is online at glwater.org as well as the [MBO](#) documents.

Chart 2 – Cash Balances - Water Funds as of April 2023 - Shows the allocation of the balance among the different categories defined in the section above. The total cash balance for Water Funds as of April 30, 2023 is \$572 million. The allocation of balances among the I&E, bond proceeds, and debt service reserve funds reflects GLWA's commitment to funding capital improvements and meeting debt reserve requirements while simultaneously increasing I&E resources to fund pay-as-you-go capital funding to reduce long-term debt in the future.

GLWA completed a bond transaction of \$225 million in September 2022 to support water system improvements. These funds along with I&E and SRF low-interest loans will fund the capital program going forward.

Chart 2 – Cash Balances - Water Funds as of April 2023

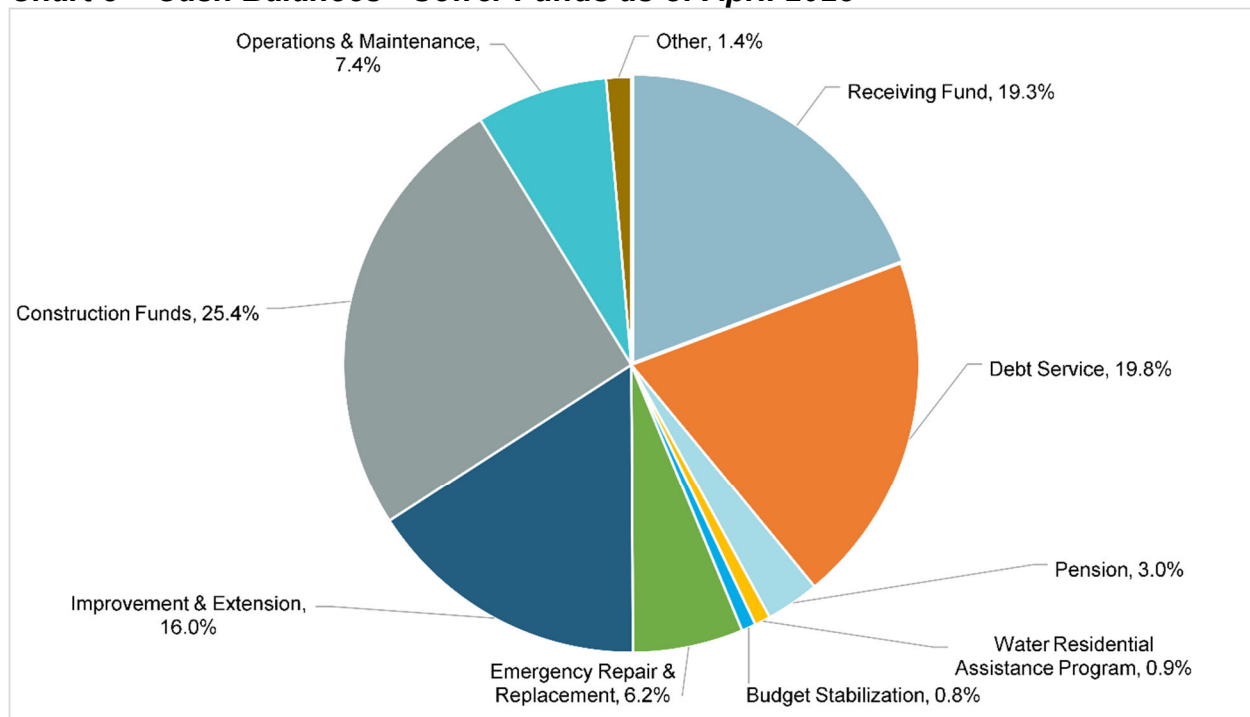


Note: Due to rounding totals may not equal 100%.

Chart 3 – Cash Balances - Sewer Funds as of April 2023 - Shows the allocation of the balance among the different funds defined in the section above. The total cash balance for Sewer Funds as of April 30, 2023 is \$710 million. Like the Water Funds, the allocation of balances among the I&E, bond proceeds, and debt service reserve funds reflects GLWA's commitment to funding capital improvements and meeting debt reserve requirements while simultaneously increasing I&E resources to fund pay-as-you-go capital funding to reduce long-term debt in the future.

In conjunction with the Water Fund transaction, GLWA completed a bond transaction of \$225 million in September 2022 to support sewage disposal system improvements. These funds along with I&E and SRF low-interest loans will fund the capital program going forward.

Chart 3 – Cash Balances - Sewer Funds as of April 2023



Note: Due to rounding totals may not equal 100%.



Retail Revenues, Receivables, and Collections: Pursuant to the terms of the lease agreement between the City of Detroit and the Great Lakes Water Authority (GLWA), the Detroit Water & Sewerage Department (DWSD) serves as GLWA's agent for billing activities for the City of Detroit retail customer class. All water and sewer service collections from DWSD customers are deposited in a trust account and are administered in accordance with the GLWA Master Bond Ordinance.

The Monthly Retail Revenues, Receivables, & Collections Report includes the following.

1. DWSD Retail Water Revenue Billings and Collections
2. DWSD Retail Sewer Revenue Billings and Collections
3. DWSD Retail Water & Sewer System Accounts Receivable Aging Report

Note: Wholesale customer revenues are billed by the Great Lakes Water Authority.

DWSD Retail Water Billings and Collections

Retail Billing Basis: DWSD bills retail customers monthly. Customers are billed throughout the month in cycles based on a meter reading schedule beginning with residential accounts and ending with commercial and industrial customers.

Table 1 - DWSD Retail Billings shows the FY 2023 water usage and billed revenue which are provided by DWSD staff. As of April 30, 2023, the DWSD usage was at 109.41% of the budget and billed revenue was at 106.36% of budget.

DWSD Retail Water Collections: The collections represent payments made by DWSD retail customers. These receipts are deposited directly into a lockbox with a trustee for administration of the flow of funds defined by GLWA's Master Bond Ordinance.

Table 2 - Retail Water Collections shows collections by month for the past 12 months compared to collections for the prior year as well as the calculated difference between the periods.

Table 1 – DWSD Retail Water Billing

RETAIL WATER CUSTOMERS								
Month (1)	FY 2023 - Original Budget		FY 2023 - Actual		FY 2023 - Variance		FY 2022 - Actuals	
	Volume	Revenue	Volume	Revenue (2)	Volume	Revenue	Volume	Revenue
	Mcf	\$	Mcf	\$	Mcf	\$	Mcf	\$
July	257,000	11,956,000	244,749	9,490,589	(12,251)	(2,465,411)	266,704	10,064,683
August	248,900	11,711,000	277,313	13,301,941	28,413	1,590,941	264,644	9,994,589
September	218,600	10,776,000	234,806	11,591,601	16,206	815,601	232,348	9,169,300
October	198,900	10,184,900	239,062	11,730,809	40,162	1,545,909	204,290	8,422,092
November	194,500	9,954,500	212,663	10,706,519	18,163	752,019	209,830	8,544,611
December	193,700	9,902,000	222,502	11,073,513	28,802	1,171,513	204,072	8,442,152
January	198,600	10,050,700	227,748	11,257,742	29,148	1,207,042	221,369	8,819,430
February	190,400	9,842,000	208,568	10,569,468	18,168	727,468	204,489	8,438,300
March	204,900	10,276,600	229,264	11,383,630	24,364	1,107,030	233,190	9,221,716
April	192,400	9,922,800	198,665	10,121,640	6,265	198,840	192,495	8,305,331
May	214,500	10,567,000					245,471	9,530,928
June	245,700	11,523,800					272,811	10,281,954
Total	2,558,100	126,667,300	2,295,340	111,227,452	197,440	6,650,952	2,751,713	109,235,086
Subtotals ytd	2,097,900	104,576,500	2,295,340	111,227,452	197,440	6,650,952		
Achievement of Budget			109.41%	106.36%				

(1) Figures are stated as "Service Months"; that is, July figures represent bills issued in August, etc.

(2) Retail Revenues include Miscellaneous Revenues and Penalties

Table 2 – DWSD Retail Water Collections

Water				
Month	Current Year	Prior Year	Variance	Ratio
May	7,660,852	7,365,204	295,648	4.01%
June	9,123,179	8,917,831	205,348	2.30%
July	8,518,373	8,387,705	130,668	1.56%
August	9,636,219	8,588,507	1,047,712	12.20%
September	5,082,383	8,041,683	(2,959,300)	-36.80%
October	13,082,745	8,512,614	4,570,131	53.69%
November	10,270,582	7,926,331	2,344,251	29.58%
December	11,630,994	8,121,586	3,509,408	43.21%
January	8,857,268	6,919,040	1,938,228	28.01%
February	8,244,713	10,156,126	(1,911,413)	-18.82%
March	10,417,832	11,093,125	(675,293)	-6.09%
April	9,417,449	7,431,900	1,985,549	26.72%
Rolling, 12-Month Total	111,942,589	101,461,652		
Rolling, 12-Month Average	9,328,549	8,455,138		

All amounts are unaudited unless otherwise noted.

GLWA Audit Committee July 28, 2023

DWSD Retail Sewer Billings and Collections

Retail billing basis: DWSD bills retail customers monthly. Customers are billed throughout the month in cycles based on a meter reading schedule beginning with residential accounts and ending with commercial and industrial customers.

Table 3 - DWSD Retail Sewer Billings shows the FY 2023 sewer billed revenue which are provided by DWSD staff. As of April 30, 2023, the DWSD usage was at 103.74% of the budget and billed revenue was at 100.40% of budget.

DWSD Retail Sewer Collections: The collections represent payments made by DWSD retail customers. These receipts are deposited directly into a lockbox with a trustee for administration of the flow of funds defined by GLWA's Master Bond Ordinance.

Table 4 – DWSD Retail Sewer Collections shows collections by month for the past 12 months compared to collections for the prior year as well as the calculated difference between the periods.

Table 3 - DWSD Retail Sewer Billings

RETAIL SEWER CUSTOMERS								
Month (1)	FY 2023 - Original Budget		FY 2023 - Actual		FY 2023 - Variance		FY 2022 - Actuals	
	Volume	Revenue	Volume	Revenue (2)	Volume	Revenue	Volume	Revenue
	Mcf	\$	Mcf	\$	Mcf	\$	Mcf	\$
July	211,900	27,858,000	223,661	29,297,748	11,761	1,439,748	219,791	29,462,804
August	217,600	28,027,300	231,809	29,640,202	14,209	1,612,902	249,522	31,231,624
September	188,400	27,285,000	197,455	27,523,933	9,055	238,933	215,748	29,401,234
October	182,400	27,102,800	194,154	27,375,180	11,754	272,380	190,483	27,936,280
November	167,500	26,696,800	172,579	26,525,064	5,079	(171,736)	194,135	28,032,939
December	166,500	26,780,100	174,896	26,676,360	8,396	(103,740)	189,283	27,836,982
January	169,200	26,797,900	175,562	26,403,544	6,362	(394,356)	203,526	28,493,782
February	166,100	26,702,400	160,804	25,814,735	(5,296)	(887,665)	189,525	27,837,984
March	176,100	26,994,800	181,217	26,720,229	5,117	(274,571)	212,176	29,032,277
April	166,400	26,761,800	167,727	26,120,878	1,327	(640,922)	179,291	27,196,557
May	182,100	27,166,400					220,082	29,382,758
June	210,600	27,861,300					242,746	30,704,517
Total	2,204,800	326,034,600	1,879,864	272,097,874	67,764	1,090,974	2,506,308	346,549,738
Subtotals ytd	1,812,100	271,006,900	1,879,864	272,097,874		1,090,974		
Achievement of Budget/Goal			103.74%	100.40%				

(1) Figures are stated as "Service Months"; that is, July figures represent bills issued in August, etc.

(2) Retail Revenues include Miscellaneous Revenues and Penalties

Table 4 – DWSD Retail Sewer Collections

Sewer				
Month	Current Year	Prior Year	Variance	Ratio
May	20,952,592	21,888,687	(936,095)	-4.28%
June	25,922,279	32,508,249	(6,585,970)	-20.26%
July	30,935,343	24,185,252	6,750,091	27.91%
August	26,064,896	25,036,198	1,028,698	4.11%
September	15,261,467	22,635,796	(7,374,329)	-32.58%
October	28,182,933	25,119,240	3,063,693	12.20%
November	21,994,899	23,505,249	(1,510,350)	-6.43%
December	23,756,153	24,880,743	(1,124,590)	-4.52%
January	23,760,629	23,020,491	740,138	3.22%
February	23,867,073	24,495,922	(628,849)	-2.57%
March	30,697,464	29,410,086	1,287,378	4.38%
April	21,542,671	22,115,076	(572,405)	-2.59%
Rolling 12-Month Total	292,938,400	298,800,989		
Rolling, 12-Month Average	24,411,533	24,900,082		

DWSD Retail Water and Sewer Accounts Receivable Aging Report

The DWSD detailed accounts receivable aging is categorized by customer category.

Table 5 is a summary of the monthly sales, total receivables, bad debt allowance and net Water and Sewer receivables as of April 30, 2023 with comparative totals from June 30, 2022, June 30, 2021 and June 30, 2020. This table does not include past due accounts that have been transferred to the City of Detroit for collection as tax liens.

The table provides a comparison of days in accounts receivable calculated as net receivables divided by daily sales and confirms that over time days in AR is held in check overall due to a consistent practice of adjusting the allowance for doubtful accounts monthly. To the extent this allowance is adjusted, and bad debt expense is recognized in the DWSD budget, it does not impact GLWA.

Table 6 is a summary of the total, current and non-current Water and Sewer receivables by category as of April 30, 2023 with comparative totals from April 30, 2022. This table does not include past due accounts that have been transferred to the City of Detroit for collection as tax liens.

The Total Balance and Total Bad Debt Allowance as of April 30, 2023 are reflective of the values in both the Table 5 Summary and Table 6 breakdown.

Table 5 – DWSD Retail Accounts Receivable Aging Report – Summary

Summary						
Period Ending	Monthly Sales	Receivables			Days in AR (1)	
		Total	Allowance	Net		
June 30, 2020	\$ 33,061,000	\$ 213,846,000	\$ (142,882,000)	\$ 70,964,000	64	
June 30, 2021	\$ 36,335,000	\$ 248,055,000	\$ (200,146,000)	\$ 47,909,000	40	
June 30, 2022	\$ 39,022,000	\$ 300,346,000	\$ (253,924,000)	\$ 46,422,000	36	
April 30, 2023	\$ 38,210,000	\$ 329,122,000	\$ (273,224,000)	\$ 55,897,000	44	
Totals may be off due to rounding						

Totals may be off due to rounding

(1) Days in AR is calculated as net receivables divided by daily sales (monthly sales/30 days)

Table 6 – DWSD Retail Accounts Receivable Aging Report – Water & Sewer Combined

Sales Class	# of Accounts	Avg. Balance	Current	> 30 Days	> 60 Days	> 180 Days	A/R Balance
Residential	214,025	\$ 890.23	\$ 18,034,000 9.5%	\$ 10,334,000 5.4%	\$ 30,656,000 16.1%	\$ 131,508,000 69.0%	\$ 190,532,000 100.0%
Commercial	21,075	1,367.46	7,281,000 25.3%	2,226,000 7.7%	5,084,000 17.6%	14,228,000 49.4%	28,819,000 100.0%
Industrial	4,343	3,354.42	5,232,000 35.9%	1,037,000 7.1%	2,443,000 16.8%	5,856,000 40.2%	14,568,000 100.0%
Tax Exempt	3,812	816.03	554,000 17.8%	205,000 6.6%	482,000 15.5%	1,870,000 60.1%	3,111,000 100.0%
Government	48,485	405.27	4,280,000 21.8%	1,131,000 5.8%	1,551,000 7.9%	12,688,000 64.6%	19,650,000 100.0%
Drainage	45,419	647.56	2,383,000 8.1%	1,391,000 4.7%	4,637,000 15.8%	21,001,000 71.4%	29,412,000 100.0%
Subtotal - Active Accounts	337,159	\$ 848.54	\$ 37,763,000 13.2%	\$ 16,325,000 5.7%	\$ 44,851,000 15.7%	\$ 187,152,000 65.4%	\$ 286,091,000 100.0%
Inactive Accounts	330,663	130.13	2,000 0.0%	79,000 0.2%	411,000 1.0%	42,537,000 98.9%	43,030,000 100.0%
Total	667,822	\$ 492.83	\$ 37,766,000 11.5%	\$ 16,404,000 5.0%	\$ 45,262,000 13.8%	\$ 229,689,000 69.8%	\$ 329,122,000 100.0%
% of Total A/R							
Water Fund	250,857	280.31	\$ 11,101,000	\$ 4,312,000	\$ 10,214,000	\$ 44,691,000	\$ 70,318,000
Sewer Fund	287,399	900.50	\$ 26,665,000	\$ 12,092,000	\$ 35,049,000	\$ 184,998,000	\$ 258,803,000
Total April 30, 2023 (a)	667,822	\$ 492.83	\$ 37,766,000	\$ 16,404,000	\$ 45,262,000	\$ 229,689,000	\$ 329,122,000
Water Fund- Allowance							\$ (53,403,000)
Sewer Fund- Allowance							\$ (219,821,000)
Total Bad Debt Allowance							\$ (273,224,000)
Comparative - April 2022 (b)	646,743	\$ 443.34	\$ 33,126,000	\$ 14,864,000	\$ 41,715,000	\$ 197,025,000	\$ 286,730,000
Difference (a) - (b)	21,079		\$ 4,640,000	\$ 1,541,000	\$ 3,548,000	\$ 32,664,000	\$ 42,392,000

All amounts are unaudited unless otherwise noted.

GLWA Audit Committee July 28, 2023



The Monthly Wholesale Billings, Receivables, & Collections Report includes the following.

1. Wholesale Water Billings and Collections
2. Wholesale Sewer Billings and Collections
3. City of Highland Park Billings and Collections
4. Wholesale Water & Sewer Accounts Receivable Aging Report

Wholesale Water Billings and Collections

Wholesale Water Contracts: Great Lakes Water Authority (GLWA) provides wholesale water service to 87 member-partners through a variety of service arrangements.

Service Arrangement Type

Model Contract	84
Emergency	1
Older Contracts	2
Total	<u>87</u>

Note: Services are provided to the Detroit Water & Sewerage Department (DWSD) via a Water and Sewer Services Agreement (WSSA). See the “Retail Revenues, Receivables, and Collections Report” section of this monthly report.

Wholesale Water Billing Basis: Beginning with FY 2016, wholesale water charges were restructured to create a more stable revenue stream by using a historical rolling average to project customer volumes which accounts for 40% of the monthly charges and 60% of the annual customer revenue requirement as a monthly fixed charge.

Table 1 - Wholesale Water Billings shows the FY 2023 water billed usage and revenues. As of April 30, 2023, the billed usage was at 101.06% of the original plan and billed revenue at 100.65% of the original plan. Billings and usage from the City of Flint are included as they were assumed in the FY 2023 Budget.

Wholesale Water Collections: The collections represent payments made by wholesale customers. These receipts are deposited directly into a lockbox with a trustee for administration of the flow of funds defined by GLWA’s Master Bond Ordinance.

Table 2 - Wholesale Water Collections shows collections by month for the past 12 months compared to collections for the prior year as well as the calculated difference between the periods. Current year collections are trending above the prior year for the twelve-month period ending April 30, 2023.

Table 1 – FY 2023 Wholesale Water Billings Report

WHOLESALE WATER CHARGES								
Month (1)	FY 2023 Charges (3)		FY 2023 - Actual		FY 2023 - Variance		FY 2022 - Actuals	
	Volume	Revenue	Volume	Revenue (2)	Volume	Revenue	Volume	Revenue
	Mcf	\$	Mcf	\$	Mcf	\$	Mcf	\$
July	1,565,900	33,114,500	1,664,936	34,349,872	99,036	1,235,372	1,342,686	29,642,785
August	1,513,500	32,632,400	1,418,347	31,555,444	(95,153)	(1,076,956)	1,417,142	30,604,230
September	1,271,200	29,674,600	1,308,481	30,306,713	37,281	632,113	1,298,750	29,065,588
October	1,033,200	27,094,600	1,055,245	27,391,089	22,045	296,489	1,006,217	26,123,483
November	901,100	25,815,700	906,669	25,911,801	5,569	96,101	905,525	25,117,181
December	966,900	26,357,900	990,177	26,652,607	23,277	294,707	958,879	25,542,432
January	954,300	26,296,700	979,573	26,536,118	25,273	239,418	979,803	25,791,405
February	877,900	25,580,400	869,843	25,535,320	(8,057)	(45,080)	875,553	24,800,493
March	965,300	26,359,200	961,541	26,356,490	(3,759)	(2,710)	963,825	25,592,186
April	907,300	25,855,100	917,599	25,997,955	10,299	142,855	912,124	25,139,078
May	1,086,000	27,886,200					1,094,002	27,116,529
June	1,470,200	32,090,900					1,385,287	30,301,351
Total	13,512,800	338,758,200	11,072,411	280,593,408	115,811	1,812,308	13,139,793	324,836,740
Subtotals ytd	10,956,600	278,781,100	11,072,411	280,593,408	115,811	1,812,308		
Achievement of Original Plan			101.06%	100.65%				
Billing Adjustments (4)			14,677	(125,530)				
			11,087,088	280,467,878				
			101.19%	100.61%				

(1) Figures are stated as "Service Months"; that is, July figures represent bills issued in August, etc.

(2) Water Revenues differ from Table 1A because amounts are reduced by the monthly payment to the City of Flint for a license to raw water rights under the Flint Raw Water Contract in Table 1A

(3) Charges are based on the approved FY 2023 water supply system charge schedule.

(4) Reflects prior period adjustments made in the current year for DTE Greenwood and Madison Heights.

Table 2 - Wholesale Water Collections

Water				
Month	Current Year	Prior Year	Variance	Ratio
May	27,717,969	24,878,479	(24,878,479)	-100.00%
June	26,379,503	25,403,968	975,535	3.84%
July	14,435,092	23,709,847	(9,274,755)	-39.12%
August	41,154,992	31,668,492	9,486,500	29.96%
September	21,887,632	23,849,618	(1,961,986)	-8.23%
October	38,029,648	29,212,277	8,817,371	30.18%
November	30,903,329	25,265,770	5,637,559	22.31%
December	34,298,469	25,302,369	8,996,100	35.55%
January	19,182,054	31,280,599	(12,098,545)	-38.68%
February	26,553,529	24,919,847	1,633,682	6.56%
March	26,074,213	22,123,572	3,950,641	17.86%
April	20,940,451	21,726,941	(786,490)	-3.62%
Rolling 12-Month Total	327,556,881	309,341,779		
Rolling, 12-Month Average	27,296,407	25,778,482		

All amounts are unaudited unless otherwise noted.

GLWA Audit Committee July 28, 2023

Wholesale Sewer Billings and Collections

Wholesale Sewer Contracts: GLWA provides wholesale sewer service to 18 member-partners via multiple service arrangements.

Service Arrangement Type

Model Contract	11
Emergency	0
Older Contracts	7
Total	<u>18</u>

Note: Services are provided to the Detroit Water & Sewerage Department via a Water and Sewer Services Agreement (WSSA). See the “Retail Revenues, Receivables, and Collections Report” section of the monthly report.

Wholesale Sewer Billing Basis: Beginning in FY 2015, the “sewer rate simplification” initiative was applied which provides for a stable revenue stream and predictability for our member partners. Wholesale sewer customers are billed a fixed monthly fee based upon the annual revenue requirement.

Table 3 - Wholesale Sewer Billings shows the FY 2023 sewer billed revenue. As of April 30, 2023 the billed revenue is at 100.00% of the original plan.

Wholesale Sewer Collections: The collections represent payments made by wholesale customers. These receipts are deposited directly into a lockbox with a trustee for administration of the flow of funds defined by GLWA’s Master Bond Ordinance.

Table 4 - Wholesale Sewer Collections shows collections by month for the past 12 months compared to collections for the prior year as well as the calculated difference between the periods.

The shift in wholesale sewer collection patterns is largely attributable to the timing of payments received. There are several large accounts whose payments swing between the end of the current month and the beginning of the next month. Current year collections are trending slightly below the twelve-month period ending April 30, 2023.

Table 3 – FY 2023 Wholesale Sewer Billings Report

WHOLESALE SEWER CHARGES								
Month (1)	FY 2023 Charges		FY 2023 - Actual		FY 2023 - Variance		FY 2022 - Actuals	
	Volume (2)	Revenue	Volume (2)	Revenue	Volume (2)	Revenue	Volume	Revenue
	Mcf	\$	Mcf	\$	Mcf	\$	Mcf	\$
July	N/A	22,888,100	N/A	22,888,100	N/A	-	N/A	22,615,000
August	N/A	22,888,100	N/A	22,888,100	N/A	-	N/A	22,615,000
September	N/A	22,888,100	N/A	22,888,100	N/A	-	N/A	22,615,000
October	N/A	22,888,100	N/A	22,888,100	N/A	-	N/A	22,615,000
November	N/A	22,888,100	N/A	22,888,100	N/A	-	N/A	22,615,000
December	N/A	22,888,100	N/A	22,888,100	N/A	-	N/A	22,615,000
January	N/A	22,888,100	N/A	22,888,100	N/A	-	N/A	22,615,000
February	N/A	22,888,100	N/A	22,888,100	N/A	-	N/A	22,615,000
March	N/A	22,888,100	N/A	22,888,100	N/A	-	N/A	22,615,000
April	N/A	22,888,100	N/A	22,888,100	N/A	-	N/A	22,615,000
May	N/A	22,888,100	N/A		N/A		N/A	22,615,000
June	N/A	22,888,100	N/A		N/A		N/A	22,615,000
Total		274,657,200		228,881,000		-		271,380,000
Subtotals ytd		228,881,000		228,881,000		-		
Achievement of Budget				100.00%				

(1) Figures are stated as "Service Months"; that is, July figures represent bills issued in August, etc.

(2) Not tracked as part of the wholesale sewer charges.

Table 4 - Wholesale Sewer Collections

Sewer				
Month	Current Year	Prior Year	Variance	Ratio
May	10,226,700	28,128,933	(17,902,233)	-63.64%
June	29,659,245	15,972,800	13,686,445	85.69%
July	28,223,515	28,523,650	(300,135)	-1.05%
August	21,036,661	21,842,125	(805,464)	-3.69%
September	22,244,437	22,191,725	52,712	0.24%
October	24,707,249	26,706,558	(1,999,309)	-7.49%
November	19,882,939	16,534,758	3,348,181	20.25%
December	18,314,222	21,765,958	(3,451,736)	-15.86%
January	17,636,972	26,436,258	(8,799,286)	-33.28%
February	33,102,769	23,937,258	9,165,511	38.29%
March	23,746,469	24,713,158	(966,689)	-3.91%
April	17,769,710	19,937,558	(2,167,848)	-10.87%
Rolling 12-Month Total	266,550,888	276,690,739		
Rolling, 12-Month Average	22,212,574	23,057,562		

All amounts are unaudited unless otherwise noted.

GLWA Audit Committee July 28, 2023

City of Highland Park Billings and Collections

The City of Highland Park is provided water service pursuant to an emergency service basis. Sewer service is provided pursuant to a 1982 amended contract which indicates that the parties are guided in their legal relationship by a Michigan Supreme Court decision from 1949.

As of April 30, 2023, Highland Park had a delinquent balance of \$54.9 million, including \$41.0 million for wastewater treatment services, \$1.9 million for industrial waste control services, and \$12.0 million for water supply services.

Table 5 - City of Highland Park Billings and Collections provides a life-to-date balance summary of the billing and collection history for Highland Park with detail provided for fiscal year 2023 through April 30, 2023. Please note the numbers below reflect the month the billing was sent and not the month the service was provided. A life-to-date summary is provided as an appendix to this monthly financial report.

Table 5 - City of Highland Park Billings and Collections

Service Month		Water	Sewer	IWC	Total
May 31, 2022 Balance		10,840,630	41,973,475	1,814,083	54,628,188
June 2022 Billing	May 2022	100,820	446,400	4,002	551,222
June 2022 Payments			(1,788,828)		(1,788,828)
June 30, 2022 Balance		10,941,450	40,631,047	1,818,085	53,390,582
July 2022 Billing	June 2022	104,262	446,400	4,002	554,664
July 2022 Payments		-	(126,056)	-	(126,056)
July 31, 2022 Balance		11,045,712	40,951,391	1,822,087	53,819,190
August 2022 Billing	July 2022	112,017	451,700	4,082	567,799
August 2022 Payments		-	(117,079)	-	(117,079)
August 31, 2022 Balance		11,157,729	41,286,012	1,826,169	54,269,910
September 2022 Billing	August 2022	113,427	451,700	4,025	569,152
September 2022 Payments		-	(144,837)	-	(144,837)
September 30, 2022 Balance		11,271,156	41,592,875	1,830,194	54,694,225
October 2022 Billing	September 2022	106,220	451,700	4,026	561,946
October 2022 Payments		-	(133,899)	-	(133,899)
October 31, 2022 Balance		11,377,376	41,910,676	1,834,220	55,122,272
November 2022 Billing	October 2022	106,221	451,700	4,026	561,947
November 2022 Payments		-	(492,789)	-	(492,789)
November 30, 2022 Balance		11,483,597	41,869,587	1,838,246	55,191,430
December 2022 Billing	November 2022	103,645	451,700	4,025	559,370
December 2022 Payments		-	(641,773)	-	(641,773)
December 31, 2022 Balance		11,587,242	41,679,514	1,842,271	55,109,027
January 2023 Billing	December 2022	99,260	451,700	3,997	554,957
January 2023 Payments		-	(1,341,522)	-	(1,341,522)
January 31, 2023 Balance		11,686,502	40,789,692	1,846,268	54,322,462
February 2023 Billing	January 2023	106,448	451,700	3,998	562,146
February 2023 Payments		-	(434,682)	-	(434,682)
February 28, 2023 Balance		11,792,950	40,806,710	1,850,266	54,449,926
March 2023 Billing	February 2023	99,164	451,700	3,889	554,753
March 2023 Payments		-	(347,442)	-	(347,442)
March 31, 2023 Balance		11,892,114	40,910,969	1,854,155	54,657,238
April 2023 Billing	March 2023	101,068	451,700	3,897	556,665
April 2023 Payments		-	(358,010)	-	(358,010)
April 30, 2023 Balance		11,993,182	41,004,659	1,858,052	54,855,893

All amounts are unaudited unless otherwise noted.

GLWA Audit Committee July 28, 2023

Wholesale Water & Sewer Accounts Receivable Aging Report

The detailed accounts receivable aging is in the Appendix to this monthly report. This report reflects the wholesale receivables only and does not include DWSD.

Table 6 - Wholesale Accounts Receivable Aging Report Summary is a summary of the total, current and non-current receivables by category as of April 30, 2023.

Table 7 - Wholesale Accounts Receivable Aging Report, Net of Highland Park is the same summary *without* the past due balances for the City of Highland Park.

Table 8 - Wholesale Accounts Receivable Aging Report, Net of Highland Park and Dearborn is the same summary *without* the past due balances for the City of Highland Park and Dearborn. Five water accounts comprise the past due balances over 46 days. One account past due of \$278 thousand was paid in full in early May. The remaining four relate to ongoing disputes regarding the Highland Park portion of charges.

The two past due Sewer accounts totaling \$4.7 million dollars were both paid in full in June. Three past due pollutant surcharge account totaling \$51 thousand in May were paid in full, the remaining past due balance consists of smaller account holders that GLWA staff continue to communicate with.

Table 6 - Wholesale Accounts Receivable Aging Report Summary

	Total	Current	46-74 Days	75-104 Days	>105 Days
Water	\$ 60,275,425.73	\$ 42,517,570.32	\$ 1,335,243.13	\$ 1,068,919.77	\$ 15,353,692.51
Sewer	\$ 63,978,829.77	\$ 18,760,570.79	\$ 5,117,000.00	\$ 451,700.00	\$ 39,649,558.98
IWC	\$ 2,292,733.00	\$ 442,466.96	\$ 3,997.56	\$ 3,997.07	\$ 1,842,271.41
Pollutant Surcharge	\$ 593,258.30	\$ 540,900.62	\$ 42,453.61	\$ 8,788.65	\$ 1,115.42
Total	\$ 127,140,246.80	\$ 62,261,508.69	\$ 6,498,694.30	\$ 1,533,405.49	\$ 56,846,638.32
	100.00%	48.97%	5.11%	1.21%	44.71%

Table 7 - Wholesale Accounts Receivable Aging Report, Net of Highland Park

	Total	Current	46-74 Days	75-104 Days	>105 Days
Water	\$ 48,282,243.47	\$ 42,317,338.49	\$ 1,122,573.80	\$ 969,660.65	\$ 3,872,670.53
Sewer	\$ 22,974,170.79	\$ 18,308,870.79	\$ 4,665,300.00	\$ -	\$ -
IWC	\$ 434,680.95	\$ 434,680.46	\$ 0.49	\$ -	\$ -
Pollutant Surcharge	\$ 593,258.30	\$ 540,900.62	\$ 42,453.61	\$ 8,788.65	\$ 1,115.42
Total	\$ 72,284,353.51	\$ 61,601,790.36	\$ 5,830,327.90	\$ 978,449.30	\$ 3,873,785.95
	100.00%	85.22%	8.07%	1.35%	5.36%

Table 8 - Wholesale Accounts Receivable Aging Report, Net of Highland Park and Dearborn

	Total	Current	46-74 Days	75-104 Days	>105 Days
Water	\$ 40,878,193.34	\$ 40,633,525.92	\$ 244,667.42	\$ -	\$ -
Sewer	\$ 22,974,170.79	\$ 18,308,870.79	\$ 4,665,300.00	\$ -	\$ -
IWC	\$ 434,680.95	\$ 434,680.46	\$ 0.49	\$ -	\$ -
Pollutant Surcharge	\$ 593,258.30	\$ 540,900.62	\$ 42,453.61	\$ 8,788.65	\$ 1,115.42
Total	\$ 64,880,303.38	\$ 59,917,977.79	\$ 4,952,421.52	\$ 8,788.65	\$ 1,115.42
	100.00%	92.35%	7.63%	0.01%	0.00%

Note: percentages vary from 100% due to rounding.



The Monthly Trust Receipts & Disbursements Report includes the following.

1. GLWA Trust Receipts & Disbursements – Net Cash Flows and Receipts
2. DWSD Trust Receipts & Disbursements – Net Cash Flows, Receipts & Loan Receivable
3. Combined System Trust Receipts & Disbursements – Net Cash Flows

GLWA Trust Receipts & Disbursements

Net Cash Flows and Receipts Basis: The trusts established pursuant to the Master Bond Ordinance (MBO) outline a flow of funds that governs the priority of the application of cash receipts from both the regional wholesale (i.e., Great Lakes Water Authority or GLWA) and local retail (i.e., Detroit Water & Sewerage Department or DWSD) activities which are further separated by the water system and the sewage disposal system.

This report provides an ongoing status of the net cash flow of both organizations (GLWA and DWSD) to fund their allocated share of Master Bond Ordinance requirements in accordance with the leases for the regional systems.

Table 1 – GLWA Net Cash Flows from Trust Receipts & Disbursements provides a summary of cash receipt collections and required MBO transfers by fiscal year. Fiscal year 2023 reflects ten months of activity to date.

Water fund receipts exceeded required disbursements by 6% through April 30, 2023 compared to the four-year historical average ratio of required receipts exceeding disbursements by 11% since July 1, 2018.

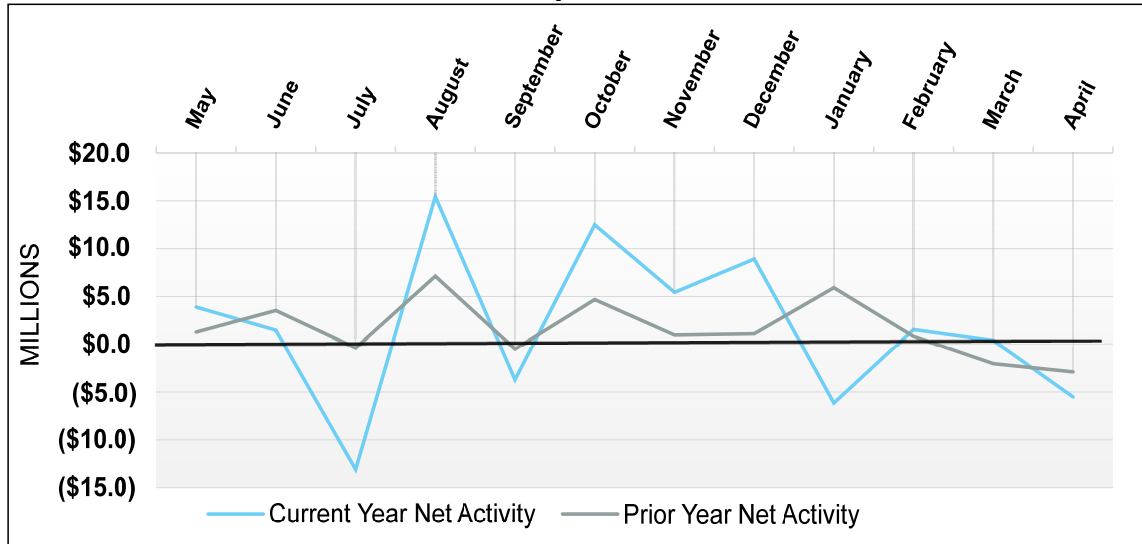
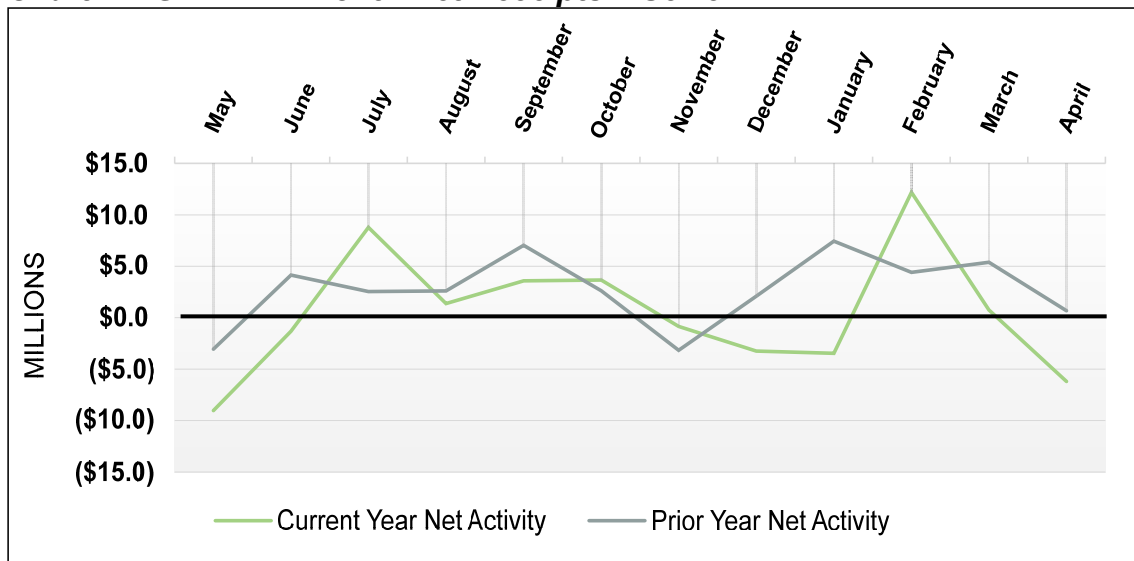
Sewer fund receipts exceeded required disbursements by 5% through April 30, 2023 in line with the four-year historical average ratio of required receipts exceeding disbursements by 7% since July 1, 2018.

Chart 1 – GLWA 12-Month Net Receipts – Water outlines monthly cash receipt trends across two points of reference for the regional water system—current year and prior year. The black line at the zero highlights the minimum goal for net receipts.

Chart 2 – GLWA 12-Month Net Receipts – Sewer outlines monthly cash receipt trends across two points of reference for the regional sewer system—current year and prior year. The black line at the zero highlights the minimum goal for net receipts.

Table 1 – GLWA Net Cash Flows from Trust Receipts & Disbursements

	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023 Thru Apr 30
Water					
1 Receipts	\$ 336,594,234	\$ 332,606,196	\$ 336,642,021	\$ 338,117,694	\$ 298,275,062
2 MOU Adjustments	-	-	-	-	-
3 Adjusted Receipts	336,594,234	332,606,196	336,642,021	338,117,694	298,275,062
4 Disbursements	(289,230,481)	(296,190,425)	(308,713,407)	(316,495,360)	(282,506,535)
5 Receipts Net of Required Transfers	47,363,753	36,415,771	27,928,614	21,622,334	15,768,527
6 I&E Transfer	(47,695,000)	(25,719,751)	(31,991,687)	(26,622,862)	(8,702,217)
7 Net Receipts	\$ (331,247)	\$ 10,696,020	\$ (4,063,073)	\$ (5,000,528)	\$ 7,066,310
8 <i>Ratio of Receipts to Required Disbursements (Line 3/Line 4)</i>	116%	112%	109%	107%	106%
Sewer					
9 Receipts	\$ 467,743,744	\$ 490,461,356	\$ 472,871,853	\$ 471,979,297	\$ 405,872,084
10 MOU Adjustments	-	-	-	-	-
11 Adjusted Receipts	467,743,744	490,461,356	472,871,853	471,979,297	405,872,084
12 Disbursements	(453,406,636)	(445,604,952)	(436,600,883)	(450,701,751)	(387,407,096)
13 Receipts Net of Required Transfers	14,337,108	44,856,404	36,270,970	21,277,546	18,464,988
14 I&E Transfer	(22,547,700)	(19,096,200)	(40,504,727)	(37,651,788)	(13,517,601)
15 DWSD Shortfall Advance	-	-	-	-	-
16 Shortfall Repayment (principal)	9,367,355	17,542,669	18,206,431	8,296,578	-
17 Net Receipts	\$ 1,156,763	\$ 43,302,873	\$ 13,972,674	\$ (8,077,664)	\$ 4,947,387
18 <i>Ratio of Receipts to Required Disbursements (Line 11/Line 12)</i>	103%	110%	108%	105%	105%
Combined					
19 Receipts	\$ 804,337,978	\$ 823,067,552	\$ 809,513,874	\$ 810,096,991	\$ 704,147,146
20 MOU Adjustments	-	-	-	-	-
21 Adjusted Receipts	804,337,978	823,067,552	809,513,874	810,096,991	704,147,146
22 Disbursements	(742,637,117)	(741,795,377)	(745,314,290)	(767,197,111)	(669,913,631)
23 Receipts Net of Required Transfers	61,700,861	81,272,175	64,199,584	42,899,880	34,233,515
24 I&E Transfer	(70,242,700)	(44,815,951)	(72,496,414)	(64,274,650)	(22,219,818)
25 Shortfall Advance	-	-	-	-	-
26 Shortfall Repayment	9,367,355	17,542,669	18,206,431	8,296,578	-
27 Net Receipts	\$ 825,516	\$ 53,998,893	\$ 9,909,601	\$ (13,078,192)	\$ 12,013,697
28 <i>Ratio of Receipts to Required Disbursements (Line 21/Line 22)</i>	108%	111%	109%	106%	105%

Chart 1 – GLWA 12-Month Net Receipts – Water

Chart 2 – GLWA 12-Month Net Receipts – Sewer


DWSD Trust Receipts & Disbursements

Net Cash Flows and Receipts Basis: The trusts established pursuant to the Master Bond Ordinance (MBO) outline a flow of funds that governs the priority of the application of cash receipts from both the regional wholesale (i.e. Great Lakes Water Authority or GLWA) and local retail (i.e. Detroit Water & Sewerage Department or DWSD) activities which are further separated by the water system and the sewage disposal system.

This report provides an ongoing status of the net cash flow of both organizations (GLWA and DWSD) to fund their allocated share of Master Bond Ordinance requirements in accordance with the leases for the regional systems.

Table 2 – DWSD Net Cash Flows from Trust Receipts & Disbursements provides a summary of cash receipt collections and required MBO transfers by fiscal year. Fiscal year 2023 reflects ten months of activity to date.

Water fund receipts exceeded required disbursements by 1% through April 30, 2023 compared to the four-year historical average ratio of required receipts exceeding disbursements by 3% since July 1, 2018.

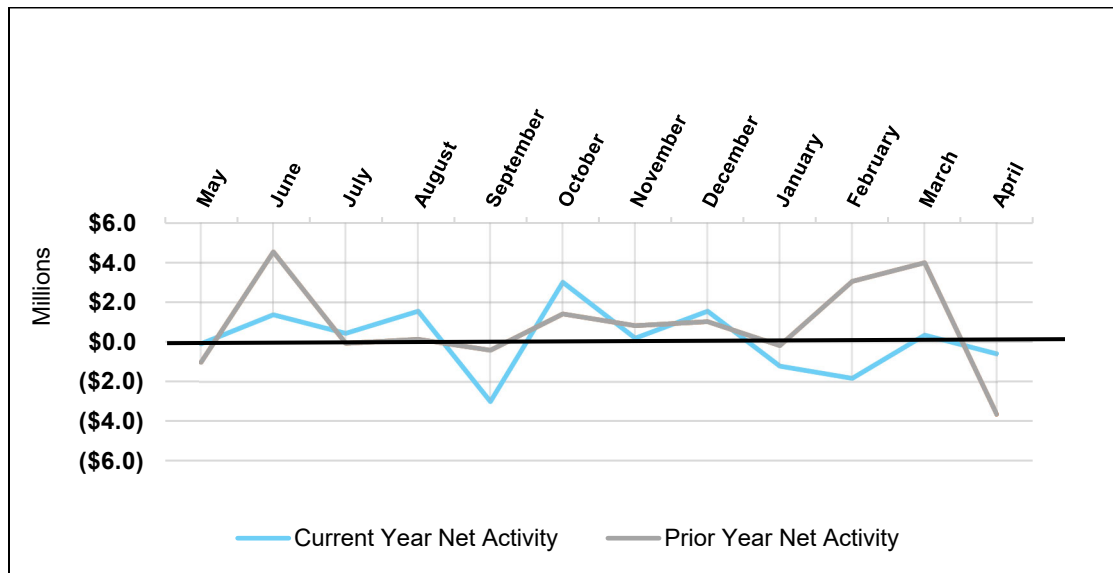
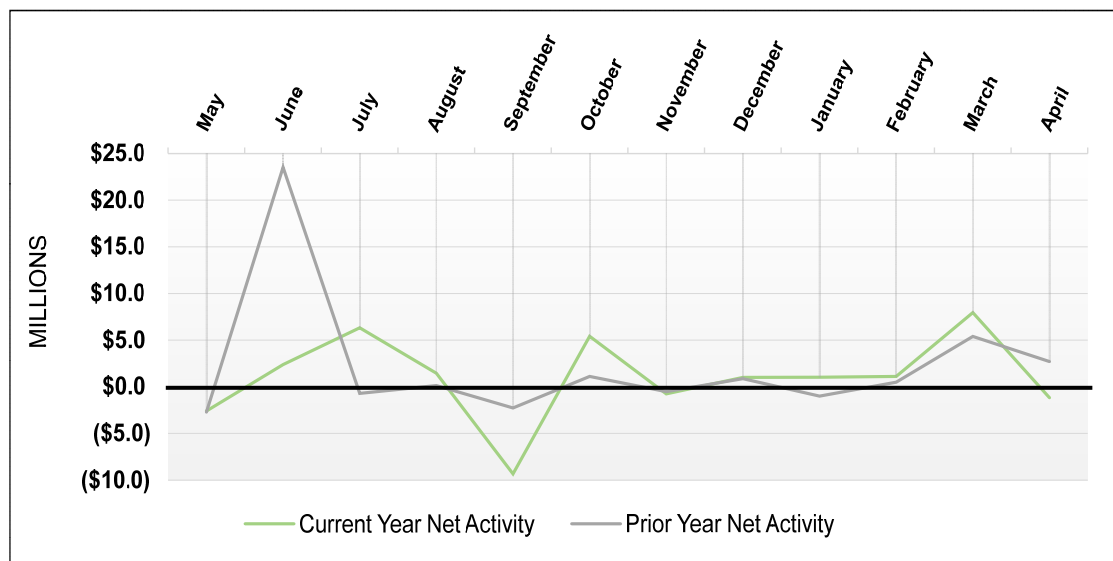
Sewer fund receipts exceeded required disbursements by 6% through April 30, 2023 compared to the four-year historical average of required receipts exceeding disbursements by 1% since July 1, 2018.

Table 2 – DWSD Net Cash Flows from Trust Receipts & Disbursements

	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023 Thru Apr 30
Water					
1 Receipts	\$ 99,868,219	\$ 96,885,723	\$ 102,067,423	\$ 101,964,963	\$ 97,951,790
2 MOU Adjustments	-	-	-	-	-
3 Adjusted Receipts	99,868,219	96,885,723	102,067,423	101,964,963	97,951,790
4 Disbursements	(97,694,600)	(97,823,097)	(100,707,200)	(94,495,601)	(97,458,803)
5 Receipts Net of Required Transfers	2,173,619	(937,374)	1,360,223	7,469,362	492,987
6 I&E Transfer	(8,407,080)	-	-	-	-
7 Net Receipts	\$ (6,233,461)	\$ (937,374)	\$ 1,360,223	\$ 7,469,362	\$ 492,987
8 <i>Ratio of Receipts to Required Disbursements (Line 3/Line 4)</i>	102%	99%	101%	108%	101%
Sewer					
9 Receipts	\$ 265,339,797	\$ 264,689,559	\$ 308,210,767	\$ 291,280,896	\$ 249,682,374
10 MOU Adjustments	6,527,200	-	-	-	-
11 Adjusted Receipts	271,866,997	264,689,559	308,210,767	291,280,896	249,682,374
12 Disbursements	(271,018,306)	(275,507,374)	(295,100,771)	(285,256,000)	(236,637,593)
13 Receipts Net of Required Transfers	848,691	(10,817,815)	13,109,996	6,024,896	13,044,781
14 I&E Transfer	-	-	-	-	-
15 Shortfall Advance from GLWA	-	-	-	-	-
16 Net Receipts	\$ 848,691	\$ (10,817,815)	\$ 13,109,996	\$ 6,024,896	\$ 13,044,781
17 <i>Ratio of Receipts to Required Disbursements (Line 11/Line 12)</i>	100%	96%	104%	102%	106%
Combined					
18 Receipts	\$ 365,208,016	\$ 361,575,282	\$ 410,278,190	\$ 393,245,859	\$ 347,634,164
19 MOU Adjustments	6,527,200	-	-	-	-
20 Adjusted Receipts	371,735,216	361,575,282	410,278,190	393,245,859	347,634,164
21 Disbursements	(368,712,906)	(373,330,471)	(395,807,971)	(379,751,601)	(334,096,396)
22 Receipts Net of Required Transfers	3,022,310	(11,755,189)	14,470,219	13,494,258	13,537,768
23 I&E Transfer	(8,407,080)	-	-	-	-
24 Shortfall Advance from GLWA	-	-	-	-	-
25 Net Receipts	\$ (5,384,770)	\$ (11,755,189)	\$ 14,470,219	\$ 13,494,258	\$ 13,537,768
26 <i>Ratio of Receipts to Required Disbursements (Line 20/Line 21)</i>	101%	97%	104%	104%	104%

Chart 3 – DWSD 12-Month Net Receipts – Water outlines monthly activity trends across two points of reference for the local water system—current year and prior year. The black line at the zero highlights the breakeven goal for net receipts.

Chart 4 – DWSD 12-Month Net Receipts – Sewer outlines monthly activity trends across two points of reference for the local sewer system—current year and prior year. The black line at the zero highlights the breakeven goal for net receipts.

Chart 3 – DWSD 12-Month Net Receipts – Water**Chart 4 – DWSD 12-Month Net Receipts – Sewer**

Combined System Trust Receipts & Disbursements

Net Cash Flows and Receipts Basis: The trusts established pursuant to the Master Bond Ordinance (MBO) outline a flow of funds that governs the priority of the application of cash receipts from both the regional wholesale (i.e., Great Lakes Water Authority or GLWA) and local retail (i.e. Detroit Water & Sewerage Department or DWSD) activities which are further separated by the water system and the sewage disposal system.

Table 3 – Combined Net Cash Flows from Trust Receipts & Disbursements provides a summary of cash receipt collections and required MBO transfers by fiscal year. Fiscal year 2023 reflects ten months of activity to date.

Water fund net receipts exceeded required disbursements by 4% through April 30, 2023 compared to the four-year historical average ratio of required receipts exceeding disbursements by 9% since July 1, 2018.

Sewer fund receipts exceeded required disbursements by 5% through April 30, 2023 compared to the four-year historical average ratio of required receipts exceeding disbursements by 4% since July 1, 2018.

Table 3 – Combined Net Cash Flows from Trust Receipts & Disbursements

	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023 Thru Apr 30
Water					
1 Receipts	\$ 436,462,453	\$ 429,491,919	\$ 438,709,444	\$ 440,082,657	\$ 396,226,852
2 MOU Adjustments	-	-	-	-	-
3 Adjusted Receipts	436,462,453	429,491,919	438,709,444	440,082,657	396,226,852
4 Disbursements	(386,925,081)	(394,013,522)	(409,420,607)	(410,990,961)	(379,965,338)
5 Receipts Net of Required Transfers	49,537,372	35,478,397	29,288,837	29,091,696	16,261,514
6 I&E Transfer	(56,102,080)	(25,719,751)	(31,991,687)	(26,622,862)	(8,702,217)
7 Net Receipts	\$ (6,564,708)	\$ 9,758,646	\$ (2,702,850)	\$ 2,468,834	\$ 7,559,297
8 <i>Ratio of Receipts to Required Disbursements (Line 3/Line 4)</i>	113%	109%	107%	107%	104%
Sewer					
9 Receipts	\$ 733,083,541	\$ 755,150,915	\$ 781,082,620	\$ 763,260,193	\$ 655,554,458
10 MOU Adjustments	6,527,200	-	-	-	-
11 Adjusted Receipts	739,610,741	755,150,915	781,082,620	763,260,193	655,554,458
12 Disbursements	(724,424,942)	(721,112,326)	(731,701,654)	(735,957,751)	(624,044,689)
13 Receipts Net of Required Transfers	15,185,799	34,038,589	49,380,966	27,302,442	31,509,769
14 I&E Transfer	(22,547,700)	(19,096,200)	(40,504,727)	(37,651,788)	(13,517,601)
15 Shortfall Advance	-	-	-	-	-
16 Shortfall Repayment (principal)	9,367,355	17,542,669	18,206,431	8,296,578	-
17 Net Receipts	\$ (7,361,901)	\$ 32,485,058	\$ 27,082,670	\$ (2,052,768)	\$ 17,992,168
18 <i>Ratio of Receipts to Required Disbursements (Line 11/Line 12)</i>	102%	105%	107%	104%	105%
Combined					
19 Receipts	\$ 1,169,545,994	\$ 1,184,642,834	\$ 1,219,792,064	\$ 1,203,342,850	\$ 1,051,781,310
20 MOU Adjustments	6,527,200	-	-	-	-
21 Adjusted Receipts	1,176,073,194	1,184,642,834	1,219,792,064	1,203,342,850	1,051,781,310
22 Disbursements	(1,111,350,023)	(1,115,125,848)	(1,141,122,261)	(1,146,948,712)	(1,004,010,027)
23 Receipts Net of Required Transfers	64,723,171	69,516,986	78,669,803	56,394,138	47,771,283
24 I&E Transfer	(78,649,780)	(44,815,951)	(72,496,414)	(64,274,650)	(22,219,818)
25 Shortfall Advance	-	-	-	-	-
26 Shortfall Repayment	9,367,355	17,542,669	18,206,431	8,296,578	-
27 Net Receipts	\$ (4,559,254)	\$ 42,243,704	\$ 24,379,820	\$ 416,066	\$ 25,551,465
28 <i>Ratio of Receipts to Required Disbursements (Line 21/Line 22)</i>	106%	106%	107%	105%	105%

APPENDIX

GLWA Aged Accounts Receivable- WATER ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
ALLEN PARK	\$397,709.92	\$397,709.92	\$0.00	\$0.00	\$0.00
ALMONT VILLAGE	\$20,304.10	\$20,304.10	\$0.00	\$0.00	\$0.00
ASH TOWNSHIP	\$69,576.62	\$69,576.62	\$0.00	\$0.00	\$0.00
BELLEVILLE	\$27,463.37	\$27,463.37	\$0.00	\$0.00	\$0.00
BERLIN TOWNSHIP	\$122,803.12	\$122,803.12	\$0.00	\$0.00	\$0.00
BROWNSTOWN TOWNSHIP	\$606,383.01	\$606,383.01	\$0.00	\$0.00	\$0.00
BRUCE TOWNSHIP	\$19,856.98	\$19,856.98	\$0.00	\$0.00	\$0.00
BURTCHVILLE TOWNSHIP	\$27,706.99	\$27,706.99	\$0.00	\$0.00	\$0.00
CANTON TOWNSHIP	\$931,264.67	\$931,264.67	\$0.00	\$0.00	\$0.00
CENTER LINE	\$82,363.29	\$82,363.29	\$0.00	\$0.00	\$0.00
CHESTERFIELD TOWNSHIP	\$367,796.63	\$367,796.63	\$0.00	\$0.00	\$0.00
CLINTON TOWNSHIP	\$635,982.15	\$635,982.15	\$0.00	\$0.00	\$0.00
COMMERCE TOWNSHIP	\$568,936.40	\$568,936.40	\$0.00	\$0.00	\$0.00
DEARBORN	\$7,404,050.13	\$1,683,812.57	\$877,906.38	\$969,660.65	\$3,872,670.53
DEARBORN HEIGHTS	\$633,725.32	\$633,725.32	\$0.00	\$0.00	\$0.00
EASTPOINTE	\$278,329.66	\$278,329.66	\$0.00	\$0.00	\$0.00
ECORSE	\$112,682.72	\$112,682.72	\$0.00	\$0.00	\$0.00
FARMINGTON	\$85,365.90	\$85,365.90	\$0.00	\$0.00	\$0.00
FARMINGTON HILLS	\$1,446,038.10	\$1,446,038.10	\$0.00	\$0.00	\$0.00
FERNDAL	\$168,489.10	\$168,489.10	\$0.00	\$0.00	\$0.00
FLAT ROCK	\$226,199.23	\$226,199.23	\$0.00	\$0.00	\$0.00
FLINT	\$383,682.84	\$383,682.84	\$0.00	\$0.00	\$0.00
FRASER	\$105,636.52	\$105,636.52	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- WATER ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
GARDEN CITY	\$139,714.67	\$139,714.67	\$0.00	\$0.00	\$0.00
GENESEE COUNTY DRAIN COMM	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GIBRALTAR	\$57,350.23	\$57,350.23	\$0.00	\$0.00	\$0.00
GREATER LAPEER CUA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GREENWOOD TWP. (DTE)	\$85,572.05	\$85,572.05	\$0.00	\$0.00	\$0.00
GROSSE ILE TOWNSHIP	\$209,053.23	\$209,053.23	\$0.00	\$0.00	\$0.00
GROSSE POINTE FARMS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GROSSE POINTE PARK	\$105,278.26	\$105,278.26	\$0.00	\$0.00	\$0.00
GROSSE POINTE SHORES	\$47,369.16	\$47,369.16	\$0.00	\$0.00	\$0.00
GROSSE POINTE WOODS	\$102,755.21	\$102,755.21	\$0.00	\$0.00	\$0.00
HAMTRAMCK	\$ (72,199.04)	\$0.00	\$ (72,199.04)	\$0.00	\$0.00
HARPER WOODS	\$144,428.99	\$144,428.99	\$0.00	\$0.00	\$0.00
HARRISON TWP	\$139,717.11	\$139,717.11	\$0.00	\$0.00	\$0.00
HAZEL PARK	\$64,508.36	\$64,508.36	\$0.00	\$0.00	\$0.00
HIGHLAND PARK	\$11,993,182.26	\$200,231.83	\$212,669.33	\$99,259.12	\$11,481,021.98
HURON TOWNSHIP	\$336,221.51	\$331,118.23	\$5,103.28	\$0.00	\$0.00
IMLAY CITY	\$121,644.18	\$121,644.18	\$0.00	\$0.00	\$0.00
IMLAY TOWNSHIP (CHAMPION BUS	\$800.00	\$800.00	\$0.00	\$0.00	\$0.00
INKSTER	\$232,389.47	\$232,389.47	\$0.00	\$0.00	\$0.00
KEEGO HARBOR	\$49,865.58	\$49,865.58	\$0.00	\$0.00	\$0.00
LAPEER	\$137,449.23	\$137,449.23	\$0.00	\$0.00	\$0.00
LENOX TOWNSHIP	\$52,922.09	\$52,922.09	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- WATER ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
LINCOLN PARK	\$422,342.79	\$418,967.79	\$3,375.00	\$0.00	\$0.00
LIVONIA	\$934,035.41	\$934,035.41	\$0.00	\$0.00	\$0.00
MACOMB TWP	\$2,050,791.39	\$2,050,791.39	\$0.00	\$0.00	\$0.00
MADISON HEIGHTS	\$182,895.77	\$182,895.77	\$0.00	\$0.00	\$0.00
MAYFIELD TOWNSHIP (KAMAX)	\$7,173.07	\$7,173.07	\$0.00	\$0.00	\$0.00
MELVINDALE	\$62,975.08	\$62,975.08	\$0.00	\$0.00	\$0.00
NEW HAVEN	\$33,482.52	\$33,482.52	\$0.00	\$0.00	\$0.00
NOCWA	\$3,594,517.21	\$3,594,517.21	\$0.00	\$0.00	\$0.00
NORTHVILLE	\$63,608.73	\$63,608.73	\$0.00	\$0.00	\$0.00
NORTHVILLE TOWNSHIP	\$881,588.19	\$881,588.19	\$0.00	\$0.00	\$0.00
NOVI	\$710,350.43	\$710,350.43	\$0.00	\$0.00	\$0.00
OAK PARK	\$120,860.93	\$120,860.93	\$0.00	\$0.00	\$0.00
OAKLAND CO DR COM	\$14,396.92	\$14,396.92	\$0.00	\$0.00	\$0.00
PLYMOUTH	\$88,913.45	\$88,913.45	\$0.00	\$0.00	\$0.00
PLYMOUTH TOWNSHIP	\$717,766.03	\$702,266.03	\$15,500.00	\$0.00	\$0.00
REDFORD TOWNSHIP	\$821,748.23	\$543,797.05	\$277,951.18	\$0.00	\$0.00
RIVER ROUGE	\$121,628.87	\$121,628.87	\$0.00	\$0.00	\$0.00
RIVERVIEW	\$149,081.98	\$149,081.98	\$0.00	\$0.00	\$0.00
ROCKWOOD	\$23,753.94	\$23,753.94	\$0.00	\$0.00	\$0.00
ROMEO	\$18,002.71	\$18,002.71	\$0.00	\$0.00	\$0.00
ROMULUS	\$709,713.25	\$709,713.25	\$0.00	\$0.00	\$0.00
ROSEVILLE	\$459,694.05	\$459,694.05	\$0.00	\$0.00	\$0.00
ROYAL OAK TOWNSHIP	\$35,294.57	\$35,294.57	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- WATER ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
SHELBY TOWNSHIP	\$2,257,400.37	\$2,257,400.37	\$0.00	\$0.00	\$0.00
SOCWA	\$3,804,943.24	\$3,804,943.24	\$0.00	\$0.00	\$0.00
SOUTH ROCKWOOD	\$19,883.84	\$19,883.84	\$0.00	\$0.00	\$0.00
SOUTHGATE	\$192,550.29	\$192,550.29	\$0.00	\$0.00	\$0.00
ST. CLAIR SHORES	\$285,548.52	\$285,548.52	\$0.00	\$0.00	\$0.00
STERLING HEIGHTS	\$2,518,763.60	\$2,518,763.60	\$0.00	\$0.00	\$0.00
SUMPTER TOWNSHIP	\$118,989.37	\$118,989.37	\$0.00	\$0.00	\$0.00
SYLVAN LAKE	\$19,454.44	\$19,454.44	\$0.00	\$0.00	\$0.00
TAYLOR	\$825,873.68	\$810,936.68	\$14,937.00	\$0.00	\$0.00
TRENTON	\$160,165.03	\$160,165.03	\$0.00	\$0.00	\$0.00
TROY (SEOC)	\$1,084,019.78	\$1,084,019.78	\$0.00	\$0.00	\$0.00
UTICA	\$48,840.44	\$48,840.44	\$0.00	\$0.00	\$0.00
VAN BUREN TOWNSHIP	\$572,112.97	\$572,112.97	\$0.00	\$0.00	\$0.00
WALLED LAKE	\$132,426.27	\$132,426.27	\$0.00	\$0.00	\$0.00
WARREN	\$1,770,186.42	\$1,770,186.42	\$0.00	\$0.00	\$0.00
WASHINGTON TOWNSHIP	\$368,321.80	\$368,321.80	\$0.00	\$0.00	\$0.00
WAYNE	\$293,364.97	\$293,364.97	\$0.00	\$0.00	\$0.00
WEST BLOOMFIELD TWP (C-O)	\$1,772,233.71	\$1,772,233.71	\$0.00	\$0.00	\$0.00
WESTLAND	\$1,042,369.30	\$1,042,369.30	\$0.00	\$0.00	\$0.00
WIXOM	\$192,229.53	\$192,229.53	\$0.00	\$0.00	\$0.00
WOODHAVEN	\$136,843.94	\$136,843.94	\$0.00	\$0.00	\$0.00
YCUA	\$1,763,919.38	\$1,763,919.38	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- WATER ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
TOTAL WATER ACCOUNTS	\$60,275,425.73	\$42,517,570.32	\$1,335,243.13	\$1,068,919.77	\$15,353,692.51

GLWA Aged Accounts Receivable- SEWER ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
ALLEN PARK	\$70,700.00	\$70,700.00	\$0.00	\$0.00	\$0.00
CENTER LINE	\$86,899.50	\$86,899.50	\$0.00	\$0.00	\$0.00
DEARBORN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
EVERGREEN-FARMINGTON	\$3,016,300.00	\$3,016,300.00	\$0.00	\$0.00	\$0.00
FARMINGTON	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GROSSE POINTE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GROSSE POINTE FARMS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GROSSE POINTE PARK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HAMTRAMCK	\$336,800.00	\$336,800.00	\$0.00	\$0.00	\$0.00
HARPER WOODS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HIGHLAND PARK	\$41,004,658.98	\$451,700.00	\$451,700.00	\$451,700.00	\$39,649,558.98
MELVINDALE	\$131,200.00	\$131,200.00	\$0.00	\$0.00	\$0.00
OAKLAND COUNTY GWK DD	\$3,864,800.00	\$3,864,800.00	\$0.00	\$0.00	\$0.00
OMID	\$6,114,271.29	\$6,114,271.29	\$0.00	\$0.00	\$0.00
REDFORD TOWNSHIP	\$22,600.00	\$22,600.00	\$0.00	\$0.00	\$0.00
ROUGE VALLEY	\$9,321,800.00	\$4,660,900.00	\$4,660,900.00	\$0.00	\$0.00
SOUTH MACOMB SANITATION DIST	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
WAYNE COUNTY-AREA #3	\$8,800.00	\$4,400.00	\$4,400.00	\$0.00	\$0.00
TOTAL SEWER ACCOUNTS	\$63,978,829.77	\$18,760,570.79	\$5,117,000.00	\$451,700.00	\$39,649,558.98

GLWA Aged Accounts Receivable- IWC ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
ALLEN PARK	\$1,623.53	\$1,623.53	\$0.00	\$0.00	\$0.00
AUBURN HILLS (C-O)	\$11,566.98	\$11,566.98	\$0.00	\$0.00	\$0.00
AUBURN HILLS (C-O) ADMIN	\$1,959.24	\$1,959.24	\$0.00	\$0.00	\$0.00
AUBURN HILLS (E-F)	\$397.38	\$397.38	\$0.00	\$0.00	\$0.00
BERKLEY	\$3,182.62	\$3,182.62	\$0.00	\$0.00	\$0.00
BEVERLY HILLS	\$1,005.98	\$1,005.98	\$0.00	\$0.00	\$0.00
BINGHAM FARMS	\$1,088.32	\$1,088.32	\$0.00	\$0.00	\$0.00
BIRMINGHAM (E-F)	\$2,446.93	\$2,446.93	\$0.00	\$0.00	\$0.00
BIRMINGHAM (SEOC)	\$5,733.37	\$5,733.37	\$0.00	\$0.00	\$0.00
BLOOMFIELD HILLS	\$1,757.78	\$1,757.78	\$0.00	\$0.00	\$0.00
BLOOMFIELD TOWNSHIP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CANTON TOWNSHIP	\$85.92	\$85.92	\$0.00	\$0.00	\$0.00
CENTER LINE	\$5,223.71	\$5,223.22	\$0.49	\$0.00	\$0.00
CHARTER TOWNSHIP OF INDEPENI	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CHESTERFIELD TOWNSHIP	\$13,047.31	\$13,047.31	\$0.00	\$0.00	\$0.00
CITY OF FARMINGTON (E-F)	\$202.27	\$202.27	\$0.00	\$0.00	\$0.00
CITY OF FERNDAL	\$17,935.80	\$17,935.80	\$0.00	\$0.00	\$0.00
CITY OF ROCHESTER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CLARKSTON	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CLARKSTON (C-O) ADMIN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CLAWSON	\$6,297.22	\$6,297.22	\$0.00	\$0.00	\$0.00
CLINTON TOWNSHIP	\$27,458.60	\$27,458.60	\$0.00	\$0.00	\$0.00
DEARBORN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- IWC ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
DEARBORN HEIGHTS	\$9,846.79	\$9,846.79	\$0.00	\$0.00	\$0.00
DETROIT METRO WC AIRPORT	\$107.40	\$107.40	\$0.00	\$0.00	\$0.00
EASTPOINTE	\$6,499.49	\$6,499.49	\$0.00	\$0.00	\$0.00
FARMINGTON	\$4,065.09	\$4,065.09	\$0.00	\$0.00	\$0.00
FARMINGTON HILLS	\$25,074.32	\$25,074.32	\$0.00	\$0.00	\$0.00
FRASER	\$4,994.10	\$4,994.10	\$0.00	\$0.00	\$0.00
GARDEN CITY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GROSSE POINTE	\$1,591.31	\$1,591.31	\$0.00	\$0.00	\$0.00
GROSSE POINTE FARMS	\$2,103.25	\$2,103.25	\$0.00	\$0.00	\$0.00
GROSSE POINTE PARK	\$1,190.35	\$1,190.35	\$0.00	\$0.00	\$0.00
GROSSE POINTE SHORES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GROSSE POINTE WOODS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HAMTRAMCK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HARPER WOODS	\$1,811.48	\$1,811.48	\$0.00	\$0.00	\$0.00
HARRISON TWP	\$3,254.22	\$3,254.22	\$0.00	\$0.00	\$0.00
HAZEL PARK	\$3,370.57	\$3,370.57	\$0.00	\$0.00	\$0.00
HIGHLAND PARK	\$1,858,052.05	\$7,786.50	\$3,997.07	\$3,997.07	\$1,842,271.41
HUNTINGTON WOODS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
INDEPENDENCE (C-O) ADMIN	\$1,286.37	\$1,286.37	\$0.00	\$0.00	\$0.00
INKSTER	\$5,599.12	\$5,599.12	\$0.00	\$0.00	\$0.00
KEEGO HARBOR	\$710.63	\$710.63	\$0.00	\$0.00	\$0.00
LATHRUP	\$1,415.89	\$1,415.89	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- IWC ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
LENOX TOWNSHIP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
LIVONIA	\$41,393.75	\$41,393.75	\$0.00	\$0.00	\$0.00
MACOMB TWP	\$207.64	\$207.64	\$0.00	\$0.00	\$0.00
MADISON HEIGHTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MELVINDALE	\$3,540.62	\$3,540.62	\$0.00	\$0.00	\$0.00
NEW HAVEN	\$619.34	\$619.34	\$0.00	\$0.00	\$0.00
NORTHVILLE	\$2,357.43	\$2,357.43	\$0.00	\$0.00	\$0.00
NORTHVILLE TOWNSHIP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NOVI	\$18,095.11	\$18,095.11	\$0.00	\$0.00	\$0.00
OAK PARK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
OAKLAND TOWNSHIP	\$458.24	\$458.24	\$0.00	\$0.00	\$0.00
ORCHARD LAKE VILLAGE	\$400.96	\$400.96	\$0.00	\$0.00	\$0.00
ORION TOWNSHIP (C-O)	\$4,356.86	\$4,356.86	\$0.00	\$0.00	\$0.00
ORION TOWNSHIP (C-O) ADMIN	\$499.80	\$499.80	\$0.00	\$0.00	\$0.00
OXFORD TOWNSHIP	\$1,050.73	\$1,050.73	\$0.00	\$0.00	\$0.00
OXFORD VILLAGE	\$1,267.32	\$1,267.32	\$0.00	\$0.00	\$0.00
PLEASANT RIDGE	\$551.32	\$551.32	\$0.00	\$0.00	\$0.00
PLYMOUTH	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PLYMOUTH TOWNSHIP	\$137.83	\$137.83	\$0.00	\$0.00	\$0.00
REDFORD TOWNSHIP	\$12,581.91	\$12,581.91	\$0.00	\$0.00	\$0.00
ROCHESTER HILLS	\$18,984.74	\$18,984.74	\$0.00	\$0.00	\$0.00
ROMULUS	\$787.60	\$787.60	\$0.00	\$0.00	\$0.00
ROSEVILLE	\$14,864.16	\$14,864.16	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- IWC ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
ROYAL OAK	\$13,847.44	\$13,847.44	\$0.00	\$0.00	\$0.00
ROYAL OAK TOWNSHIP	\$939.75	\$939.75	\$0.00	\$0.00	\$0.00
SHELBY TOWNSHIP	\$15,424.43	\$15,424.43	\$0.00	\$0.00	\$0.00
SOUTHFIELD (E-F)	\$28,926.40	\$28,926.40	\$0.00	\$0.00	\$0.00
SOUTHFIELD (SEOC)	\$3,361.62	\$3,361.62	\$0.00	\$0.00	\$0.00
ST. CLAIR SHORES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
STERLING HEIGHTS	\$32,293.39	\$32,293.39	\$0.00	\$0.00	\$0.00
TROY (E-F)	\$386.64	\$386.64	\$0.00	\$0.00	\$0.00
TROY (SEOC)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
UTICA	\$3,075.22	\$3,075.22	\$0.00	\$0.00	\$0.00
VAN BUREN TOWNSHIP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
VILLAGE OF FRANKLIN	\$66.23	\$66.23	\$0.00	\$0.00	\$0.00
VILLAGE OF LAKE ORION	\$809.08	\$809.08	\$0.00	\$0.00	\$0.00
WASHINGTON TOWNSHIP	\$1,707.66	\$1,707.66	\$0.00	\$0.00	\$0.00
WATERFORD TOWNSHIP DPW	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
WATERFORD TOWNSHIP DPW (ADMI	\$3,199.35	\$3,199.35	\$0.00	\$0.00	\$0.00
WAYNE	\$5,053.17	\$5,053.17	\$0.00	\$0.00	\$0.00
WEST BLOOMFIELD TWP (C-O)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
WEST BLOOMFIELD TWP (E-F)	\$6,226.08	\$6,226.08	\$0.00	\$0.00	\$0.00
WEST BLOOMFIELD TWP. (C-O) A	\$234.91	\$234.91	\$0.00	\$0.00	\$0.00
WESTLAND	\$23,040.88	\$23,040.88	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- IWC ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
TOTAL IWC ACCOUNTS	\$2,292,733.00	\$442,466.96	\$3,997.56	\$3,997.07	\$1,842,271.41

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
3M COMPANY (MINNESOTA MINING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
A & R PACKING CO., LLC	\$897.65	\$897.65	\$0.00	\$0.00	\$0.00
AACTRON	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ACADEMY PACKING CO.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ACME RUSTPROOF	\$21.38	\$21.38	\$0.00	\$0.00	\$0.00
ADORING PET FUNERAL HOME	\$178.43	\$178.43	\$0.00	\$0.00	\$0.00
ADVANCE ENGINEERING COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AEVITAS SPECIALITY SERVICES	\$654.54	\$654.54	\$0.00	\$0.00	\$0.00
ALEXANDER & HORNUNG	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ALEXANDER & HORNUNG	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ALL CHEM CORP, LLC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ALPHA STAMPING COMPANY	\$58.15	\$58.15	\$0.00	\$0.00	\$0.00
AMERICAN WASTE TECH INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AMERITI MFG. CO.	\$3,716.56	\$3,716.56	\$0.00	\$0.00	\$0.00
APPLIED TECHNOLOGY INDUSTRIE	\$1,256.56	\$1,256.56	\$0.00	\$0.00	\$0.00
ATWATER IN THE PARK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AUTOMOTIVE FINISH	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AXLE BREWING COMPANY, LLC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
B. NEKTAR MEADERY	\$2.97	\$2.97	\$0.00	\$0.00	\$0.00
BAFFIN BREWING COMPANY	\$137.26	\$137.26	\$0.00	\$0.00	\$0.00
BARON INDUSTRIES	\$1,458.28	\$1,458.28	\$0.00	\$0.00	\$0.00
BARTZ BAKERY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BASTONE BREWERY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
BATCH BREWING COMPANY	\$55.00	\$55.00	\$0.00	\$0.00	\$0.00
BAYS MICHIGAN CORPORATION	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BEIRUT BAKERY, INC.	\$37.00	\$0.00	\$0.00	\$0.00	\$37.00
BETTER MADE SNACK FOOD	\$29,715.54	\$29,715.54	\$0.00	\$0.00	\$0.00
BLACK LOTUS BREWING CO.	\$61.25	\$0.00	\$0.00	\$0.00	\$61.25
BOZEK'S MARKET	\$ (1,345.82)	\$0.00	\$0.00	\$ (1,345.82)	\$0.00
BREW DETROIT	\$7,216.57	\$7,216.57	\$0.00	\$0.00	\$0.00
BROADWAY MKT CORNED BEEF	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BROOKS BREWING, LLC.	\$59.94	\$59.94	\$0.00	\$0.00	\$0.00
BROWN IRON BREWHOUSE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CADILLAC STRAITS BREWING CO.	\$31.22	\$31.22	\$0.00	\$0.00	\$0.00
CANTON BREW WORKS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CAPITAL REPRODUCTIONS	\$3.74	\$3.74	\$0.00	\$0.00	\$0.00
CF BURGER CREAMERY	\$44,503.28	\$44,503.28	\$0.00	\$0.00	\$0.00
CHIEFTAN COATING, LLC.	\$3,227.53	\$3,227.53	\$0.00	\$0.00	\$0.00
CHILANGO'S BAKERY	\$133.28	\$27.60	\$13.80	\$12.65	\$79.23
CINTAS CORP. - MACOMB TWP.	\$33,864.50	\$33,864.50	\$0.00	\$0.00	\$0.00
CINTAS CORPORATION	\$9,946.91	\$9,946.91	\$0.00	\$0.00	\$0.00
CINTAS CORPORATION	\$4,986.63	\$4,986.63	\$0.00	\$0.00	\$0.00
CITY LAUNDRY, INC.	\$7.26	\$7.26	\$0.00	\$0.00	\$0.00
CLASSIC CONTAINER CORP.	\$110.33	\$110.33	\$0.00	\$0.00	\$0.00
CLEAN EARTH OF MICHIGAN, LLC	\$69.70	\$69.70	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
COCA-COLA REFRESHMENTS USA,	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
COSTCO WHOLESALE STORE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
COSTCO WHOLESALE STORE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
COSTCO WHOLESALE STORE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
COSTCO WHOLESALE STORE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
COUNTRY FRESH DAIRY CO.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CROSS CHEMICAL COMPANY, INC.	\$ (234.45)	\$0.00	\$0.00	\$0.00	\$ (234.45)
DANA CONTAINER, INC.	\$1,420.48	\$1,420.48	\$0.00	\$0.00	\$0.00
DARLING INGREDIENTS, INC.	\$4,797.37	\$4,797.37	\$0.00	\$0.00	\$0.00
DAVE'S SAUSAGE FACTORY 2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DEARBORN BREWING	\$17.32	\$17.32	\$0.00	\$0.00	\$0.00
DEARBORN SAUSAGE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DEARBORN SAUSAGE CO., INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DETROIT BEER CO.	\$127.51	\$55.86	\$0.00	\$71.65	\$0.00
DETROIT LINEN SERVICE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DETROIT METRO WC AIRPORT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DETROIT RIVERTOWN BREWERY CC	\$733.80	\$733.80	\$0.00	\$0.00	\$0.00
DETROIT SAUSAGES CO INC	\$22.37	\$15.66	\$6.71	\$0.00	\$0.00
DETRONIC INDUSTRIES, INC.	\$ (213.83)	\$0.00	\$ (213.83)	\$0.00	\$0.00
DIFCO LABORATORIES, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DIVERSIFIED CHEM TECH. INC.	\$96.26	\$96.26	\$0.00	\$0.00	\$0.00
DOMESTIC UNIFORM RENTAL	\$6,948.88	\$6,948.88	\$0.00	\$0.00	\$0.00
DOMESTIC UNIFORM RENTAL	\$2,872.13	\$2,872.13	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
DOWNEY BREWING COMPANY	\$35.41	\$35.41	\$0.00	\$0.00	\$0.00
DUBOIS CHEMICALS, INC.	\$1,150.70	\$1,150.70	\$0.00	\$0.00	\$0.00
E & E MANUFACTURING CO, PLAN	\$136.11	\$91.92	\$44.19	\$0.00	\$0.00
E & E MANUFACTURING CO, PLAN	\$243.21	\$243.21	\$0.00	\$0.00	\$0.00
E.W. GROBBEL'S SONS, INC.	\$3,512.89	\$3,512.89	\$0.00	\$0.00	\$0.00
EASTERN MARKET BREWING COMP	\$9.99	\$9.99	\$0.00	\$0.00	\$0.00
ENVIROSOLIDS, L.L.C.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
EQ DETROIT, INC.	\$694.95	\$498.69	\$196.26	\$0.00	\$0.00
EQ DETROIT, INC.	\$3,114.84	\$2,204.07	\$910.77	\$0.00	\$0.00
EQ DETROIT, INC.	\$ (0.59)	\$0.00	\$0.00	\$0.00	\$ (0.59)
EQ DETROIT, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ETON ST BREWERY- GRIFFIN CL	\$1,392.01	\$1,392.01	\$0.00	\$0.00	\$0.00
EXTRUDE HONE CORPORATION	\$71.84	\$71.84	\$0.00	\$0.00	\$0.00
EXTRUDEHODE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
FARMINGTON BREWING COMPANY	\$16.28	\$16.28	\$0.00	\$0.00	\$0.00
FAYGO BEVERAGES, INC.	\$6,067.06	\$6,067.06	\$0.00	\$0.00	\$0.00
FITZGERALD FINISHING LLC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
FIVES CINETIC CORP.	\$5,134.02	\$5,134.02	\$0.00	\$0.00	\$0.00
FORD MOTOR CO- STERLING PLAN	\$2,453.28	\$2,453.28	\$0.00	\$0.00	\$0.00
FORD NEW MODEL PROGRAM	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
FOUNDERS BREWING COMPANY	\$12.31	\$12.31	\$0.00	\$0.00	\$0.00
FRESH-PAK	\$593.82	\$593.82	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
FRESH-PAK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GENERAL LINEN SUPPLY CO.	\$4,075.87	\$4,075.87	\$0.00	\$0.00	\$0.00
GENERAL MOTORS, LLC ROMULUS	\$2,124.27	\$2,124.27	\$0.00	\$0.00	\$0.00
GLOBAL TITANIUM, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GRANITE CITY FOOD & BREWERY	\$40.26	\$40.26	\$0.00	\$0.00	\$0.00
GRANITE CITY FOOD & BREWERY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GRANITE CITY FOOD & BREWERY	\$29.54	\$29.54	\$0.00	\$0.00	\$0.00
GREAT BARABOO BREWING CO.	\$88.58	\$88.58	\$0.00	\$0.00	\$0.00
HACIENDA MEXICAN FOODS	\$971.04	\$970.65	\$0.39	\$0.00	\$0.00
HENKEL CORPORATION	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HENRY FORD MACOMB HOSPITAL	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HOME STYLE FOOD INC.	\$ (463.26)	\$0.00	\$ (463.26)	\$0.00	\$0.00
HOMEGROWN BREWING COMPANY	\$38.41	\$38.41	\$0.00	\$0.00	\$0.00
HOODS CLEANERS	\$211.33	\$0.00	\$0.00	\$0.00	\$211.33
HUNTINGTON CLEANERS	\$270.10	\$270.10	\$0.00	\$0.00	\$0.00
IDP, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
INDUSTRIAL METAL COATING	\$79.59	\$79.59	\$0.00	\$0.00	\$0.00
INTRASTATE DISTRIBUTORS	\$839.25	\$839.25	\$0.00	\$0.00	\$0.00
ISLAMIC SLAUGHTER HOUSE	\$405.56	\$405.56	\$0.00	\$0.00	\$0.00
ITALIAN BUTTER BREAD STICKS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
JAMEX BREWING CO.	\$21.31	\$21.31	\$0.00	\$0.00	\$0.00
JELD-WEN, INC.	\$341.07	\$341.07	\$0.00	\$0.00	\$0.00
KAR NUT PRODUCTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
KOWALSKI SAUSAGES, CO.	\$ (578.52)	\$ (578.52)	\$0.00	\$0.00	\$0.00
KUHNHENN BREWING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
LA MICHOACANA FLOUR TORTILLA	\$761.16	\$761.16	\$0.00	\$0.00	\$0.00
LA MICHOACANA FLOUR TORTILLA	\$82.95	\$82.95	\$0.00	\$0.00	\$0.00
LEAR CORPORATION DBA EAGLE C	\$55.76	\$55.76	\$0.00	\$0.00	\$0.00
LIBERTY STREET PROD. BREWERY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
LILY'S SEAFOOD GRILL & BREWE	\$39.96	\$39.96	\$0.00	\$0.00	\$0.00
LIQUID ENVIRONMENTAL OF ILLI	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
LIQUID ENVIRONMENTAL SOLUTIC	\$644.48	\$644.48	\$0.00	\$0.00	\$0.00
MACDERMID, INC.	\$663.39	\$663.39	\$0.00	\$0.00	\$0.00
MCCLURE'S PICKLES	\$526.08	\$526.08	\$0.00	\$0.00	\$0.00
MCGEAN CHEMICALS	\$294.65	\$294.65	\$0.00	\$0.00	\$0.00
MCNICHOLS POLISHING & ANODIZ	\$ (31.54)	\$0.00	\$ (31.54)	\$0.00	\$0.00
MELLO MEATS INC, - KUBISCH S	\$134.26	\$134.26	\$0.00	\$0.00	\$0.00
METROPOLITAN BAKERY	\$ (480.40)	\$0.00	\$0.00	\$0.00	\$ (480.40)
MIBA HYDRAMECHANICA CORP.	\$611.82	\$611.82	\$0.00	\$0.00	\$0.00
MICHIGAN DAIRY	\$76,291.87	\$76,291.87	\$0.00	\$0.00	\$0.00
MICHIGAN PROD. MACHINING	\$1,504.09	\$1,504.09	\$0.00	\$0.00	\$0.00
MICHIGAN SOY PRODUCTS CO.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MIDWEST WIRE PRODUCTS, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MILANO BAKERY	\$453.97	\$453.97	\$0.00	\$0.00	\$0.00
MILTON CHILI CO.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
MINNIE MARIE BAKERS, INC	\$1,006.16	\$1,006.16	\$0.00	\$0.00	\$0.00
MISTER UNIFORM & MAT RENTALS	\$ (11.64)	\$0.00	\$0.00	\$0.00	\$ (11.64)
MOTOR CITY BREWING WORKS	\$60.57	\$59.94	\$0.00	\$0.63	\$0.00
NATIONAL CHILI COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NATIONAL CHILI COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NATIONAL CHILI COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NEAPCO DRIVELINES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NORTH CENTER BREWING COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NORTHERN LAKES SEAFOOD & MEAT	\$15.89	\$15.89	\$0.00	\$0.00	\$0.00
OAKWOOD BAKERY	\$60.52	\$60.52	\$0.00	\$0.00	\$0.00
OLIVER HATCH CONSTRUCTION	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PARKEDALE PHARMACEUTICALS/PE	\$114.86	\$114.86	\$0.00	\$0.00	\$0.00
PARKER'S HILLTOP BREWER & SE	\$67.00	\$67.00	\$0.00	\$0.00	\$0.00
PELLERITO FOODS INC.	\$26.50	\$26.50	\$0.00	\$0.00	\$0.00
PEPSI COLA, INC.	\$16,282.24	\$16,282.24	\$0.00	\$0.00	\$0.00
PERDUE PREMIUM MEAT COMPANY	\$16,560.67	\$16,560.67	\$0.00	\$0.00	\$0.00
PERDUE PREMIUM MEAT COMPANY	\$9,012.36	\$9,012.36	\$0.00	\$0.00	\$0.00
PERDUE PREMIUM MEAT COMPANY	\$1,232.71	\$1,232.71	\$0.00	\$0.00	\$0.00
PERSONAL UNIFORM SERVICE, IN	\$ (18.19)	\$0.00	\$0.00	\$0.00	\$ (18.19)
PETRO ENVIRON TECH, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PINE TREE ACRES, INC.	\$114,832.18	\$106,054.59	\$0.00	\$8,777.59	\$0.00
PLATING SPEC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
POWER VAC OF MICHIGAN, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
PREMIER PLATING, LLC	\$680.78	\$680.78	\$0.00	\$0.00	\$0.00
PREMIER PLATING- STERLING HE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PRODUCTION SPRING, LLC.	\$196.70	\$196.70	\$0.00	\$0.00	\$0.00
QUAKER HOUGHTON - PLANT #2	\$ (107.71)	\$0.00	\$ (107.71)	\$0.00	\$0.00
QUAKER HOUGHTON - PLANT #2	\$ (734.32)	\$0.00	\$ (734.32)	\$0.00	\$0.00
QUAKER HOUGHTON - PLANT #2	\$1,410.62	\$1,410.62	\$0.00	\$0.00	\$0.00
QUALA SERVICES, LLC	\$47.34	\$47.34	\$0.00	\$0.00	\$0.00
RAY'S ICE CREAM CO.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
RED SPOT PAINT #409139	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
RIVER ROUGE BREWING COMPANY	\$440.60	\$0.00	\$0.00	\$0.00	\$440.60
ROAK BREWING CO. LLC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ROCHESTER MILLS BEER COMPANY	\$134.28	\$134.28	\$0.00	\$0.00	\$0.00
ROCHESTER MILLS PROD BREWERY	\$3,229.67	\$1,181.66	\$0.00	\$1,181.66	\$866.35
ROYAL OAK BREWERY	\$67.87	\$67.87	\$0.00	\$0.00	\$0.00
RTT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SEAFARE FOODS, INC.	\$64.30	\$64.30	\$0.00	\$0.00	\$0.00
SECOND NATURE (SANDERS)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SHERWOOD BREWING COMPANY	\$42.79	\$42.79	\$0.00	\$0.00	\$0.00
SMITH-WATKINS, LLC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SPRAYTEK INC.- MADISON HEIGH	\$615.03	\$615.03	\$0.00	\$0.00	\$0.00
SPRAYTEK, INC.	\$14.52	\$0.00	\$0.00	\$0.00	\$14.52
SUPERNATURAL SPIRITS & BREWI	\$42.62	\$42.62	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
SWEETHEART BAKERY, INC.	\$242.93	\$122.50	\$59.18	\$61.25	\$0.00
THE CROWN GROUP-LIVONIA PLAN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
THE DEBURRING COMPANY	\$66.67	\$66.67	\$0.00	\$0.00	\$0.00
THERMO FISHER SCIENTIFIC	\$51,127.06	\$51,127.06	\$0.00	\$0.00	\$0.00
TOM LAUNDRY CLEANERS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TRAFFIC JAM & SNUG	\$ (31.16)	\$0.00	\$0.00	\$0.00	\$ (31.16)
TURRI'S ITALIAN FOODS	\$0.50	\$0.50	\$0.00	\$0.00	\$0.00
TURRI'S ITALIAN FOODS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
U-METCO, INC.	\$424.71	\$424.71	\$0.00	\$0.00	\$0.00
UNCLE RAYS SNACKS, LLC	\$80,655.42	\$40,848.66	\$39,806.76	\$0.00	\$0.00
UNCLE RAYS SNACKS, LLC	\$4,432.77	\$2,234.68	\$2,198.09	\$0.00	\$0.00
UNIQUE LINEN SERVICES, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
UNITED FISH DISTRIBUTORS	\$1.04	\$1.04	\$0.00	\$0.00	\$0.00
UNITED LINEN SERVICE, LLC.	\$392.65	\$197.09	\$195.56	\$0.00	\$0.00
UNITED MEAT & DELI	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
URBANREST BREWING COMPANY	\$69.34	\$69.34	\$0.00	\$0.00	\$0.00
US ECOLOGY MICHIGAN	\$576.74	\$576.74	\$0.00	\$0.00	\$0.00
US ECOLOGY ROMULUS, INC.	\$1,489.96	\$950.59	\$539.37	\$0.00	\$0.00
USHER OIL SERVICES	\$2,569.85	\$2,569.85	\$0.00	\$0.00	\$0.00
VALICOR ENVIROMENTAL SERVICE	\$559.27	\$559.27	\$0.00	\$0.00	\$0.00
VALICOR ENVIRONMENTAL SERVIC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
VAUGHAN INDUSTRIES, INC.	\$34.87	\$34.87	\$0.00	\$0.00	\$0.00
VERNDALE PRODUCTS	\$6,387.80	\$6,387.80	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 04/30/23

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
VERNDALE PRODUCTS, INC.	\$838.14	\$838.14	\$0.00	\$0.00	\$0.00
VERNOR FOOD PRODUCTS	\$165.93	\$66.37	\$33.19	\$29.04	\$37.33
WIGLEY'S MEAT PROCESS	\$552.66	\$552.66	\$0.00	\$0.00	\$0.00
WINTER SAUSAGE MFG. CO.	\$397.32	\$397.32	\$0.00	\$0.00	\$0.00
WINTER SAUSAGE MFG. CO.	\$69.49	\$69.49	\$0.00	\$0.00	\$0.00
WOLVERINE PACKING CO	\$1,886.89	\$1,886.89	\$0.00	\$0.00	\$0.00
WOLVERINE PACKING CO.	\$2,438.88	\$2,438.88	\$0.00	\$0.00	\$0.00
WOODWARD AVENUE BREWERS	\$144.24	\$0.00	\$0.00	\$0.00	\$144.24
X-R-I TESTING	\$38.90	\$38.90	\$0.00	\$0.00	\$0.00
TOTAL POLLUTANT SURCHARGE ACCOUNTS	\$593,258.30	\$540,900.62	\$42,453.61	\$8,788.65	\$1,115.42

City of Highland Park Billings and Collections

	Water	Sewer	IWC	Cumulative Total
June 30, 2012 Balance	\$ -	\$ 10,207,956	\$ 852,987	\$ 11,060,943
FY 2013 Billings	485,887	4,987,635	154,444	5,627,966
FY 2013 Payments	(65,652)	(2,206,211)	-	(2,271,863)
				-
June 30, 2013 Balance	\$ 420,235	\$ 12,989,380	\$ 1,007,431	\$ 14,417,046
FY 2014 Billings	1,004,357	6,980,442	161,951	8,146,750
FY 2014 Payments	-	(1,612,633)	-	(1,612,633)
				-
June 30, 2014 Balance	\$ 1,424,592	\$ 18,357,189	\$ 1,169,382	\$ 20,951,163
FY 2015 Billings	1,008,032	5,553,123	165,739	6,726,894
FY 2015 Payments	-	(1,444,623)	-	(1,444,623)
				-
June 30, 2015 Balance	\$ 2,432,625	\$ 22,465,689	\$ 1,335,121	\$ 26,233,435
FY 2016 Billings	1,157,178	5,612,167	106,431	6,875,776
FY 2016 Payments	-	(2,022,335)	-	(2,022,335)
				-
June 30, 2016 Balance	\$ 3,589,803	\$ 26,055,521	\$ 1,441,551	\$ 31,086,875
FY 2017 Billings	1,245,267	5,802,000	101,999	7,149,265
FY 2017 Payments	-	(2,309,186)	-	(2,309,186)
				-
June 30, 2017 Balance	\$ 4,835,070	\$ 29,548,335	\$ 1,543,550	\$ 35,926,954
FY 2018 Billings	1,277,179	5,657,101	80,472	7,014,752
FY 2018 Payments	-	(4,108,108)	-	(4,108,108)
				-
June 30, 2018 Balance	\$ 6,112,248	\$ 31,097,327	\$ 1,624,022	\$ 38,833,597
FY 2019 Billings	1,238,797	5,617,100	51,220	6,907,117
FY 2019 Payments	-	(5,241,583)	-	(5,241,583)
				-
June 30, 2019 Balance	\$ 7,351,045	\$ 31,472,844	\$ 1,675,243	\$ 40,499,132
FY 2020 Billings	1,182,639	5,665,400	47,097	6,895,136
FY 2020 Payments	-	(3,026,117)	-	(3,026,117)
				-
June 30, 2020 Balance	\$ 8,533,684	\$ 34,112,127	\$ 1,722,340	\$ 44,368,151
FY 2021 Billings	1,185,506	5,702,000	47,423	6,934,929
FY 2021 Payments	-	(2,783,552)	-	(2,783,552)
				-
June 30, 2021 Balance	9,719,190	37,030,575	1,769,763	48,519,528
FY 2022 Billings	1,222,260	5,389,300	48,322	6,659,882
FY 2022 Payments	-	(1,788,828)	-	(1,788,828)
				-
June 30, 2022 Balance	\$ 10,941,450	\$ 40,631,047	\$ 1,818,085	\$ 53,390,582
FY 2023 Billings (10 Months)	1,051,732	4,511,700	39,967	5,603,399
FY 2023 Payments (10 Months)	-	(4,138,088)	-	(4,138,088)
				-
Balance as of April 30, 2023	\$ 11,993,182	\$ 41,004,660	\$ 1,858,052	\$ 54,855,892



Financial Services Audit Committee Communication

Date: July 28, 2023

To: Great Lakes Water Authority Audit Committee

From: Matthew S. Lane, MPA, Charges Outreach and Modeling Manager

Re: Charges Outreach & Modeling Update

Background: The Charges Outreach & Modeling (CO&M) Team was established in Fiscal Year 2023 as part of the Financial Management & Planning Group to facilitate internal communication and external outreach with GLWA Member Partners as it relates to the charge methodology and charge-related financial matters. This team also serves as liaison between GLWA and third-party consultants in the development, maintenance and review of the annual water and sewer charges.

Analysis: This month we present an update on activities related to charges work group activities.

1. Water Charges Work Group

- This group is made up of Member Partners and staff from GLWA and convenes for the purpose of reviewing the water charge methodology and recommending potential changes.
- The Water Charges Methodology Review Subgroup is made up of interested volunteer Member Partners and convenes to work closely with GLWA on the technical analysis and provide input on charges scenarios. The subgroup meets twice per month and reports its findings and updates to the larger Charges Work Group as needed. We received valuable feedback from Member Partners at-large during the Charges Rollout process that will help guide future discussions for this subgroup.
- A smaller team within the Water Charges Methodology Review Subgroup has been meeting less formally to establish a new set of proposals which were presented at the most recent in-person meeting of the Water Charges Methodology Review Subgroup held on June 2, 2023. The smaller team provided further information on June 29, 2023.
- The Water Charges Methodology Review Subgroup meetings for July 7, 2023^h and July 21, 2023 were cancelled.

2. Combined Water and Wastewater Charges Workgroup

- The overall Charges Work Group met virtually via Zoom on Tuesday, July 11, 2023. An August workgroup meeting is tentatively being scheduled for late August.

3. One Water Partnership (OWP) Meetings

- The next OWP meeting date is currently to-be-determined.

Proposed Action: Receive and file this report.



Financial Services Audit Committee Communication

Date: July 28, 2023

To: Great Lakes Water Authority Audit Committee

From: Madison Merzlyakov, Affordability & Assistance Manager

Re: Affordability & Assistance Update

Background: In 2021, an Affordability & Assistance Team was created within GLWA's Financial Services Area. The team serves as the internal and external resource for strategic policies and programs related to water affordability and assistance.

Analysis: This month we present an update on the initiatives the Affordability & Assistance Team have been focused on, including efforts related to the Water Residential Assistance Program (WRAP) and sustainable water assistance funding.

WRAP Updates

The Affordability & Assistance Team provided a brief WRAP update at the July 13, 2023 Communication & Education Work Group hosted by GLWA's Member Outreach team. The group discussed the development of a toolkit that can be used to seamlessly promote WRAP across the region, such as infographics and video content, as well as other ways Member Partners can work with WRAP Service Delivery Partners to ensure their residents are aware of the program.

BS&A has completed building an optional feature within Member Partner's BS&A billing systems that automates the process of apply WRAP payments to the corresponding account. GLWA launched this project as part of our commitment to streamlining administrative processes to reduce the burden on Member Partners and therefore increasing Member Partner engagement. The Affordability & Assistance Team is working with BS&A and WRAP Service Delivery Partners to rollout the feature to Member Partners next month.

Sustainable Water Assistance Funding

Discussions regarding a framework for a statewide sustainable water assistance program continue. GLWA is actively engaged in the work group led by Michigan State Senator Stephanie Chang that is reviewing and providing feedback. The group continues to meet weekly in anticipation of introducing legislation this fall. The Affordability & Assistance team will continue to update the Audit Committee as this important work progresses.

In May, representatives of a collaborative research team from the University of Michigan's Poverty Solutions, UC-Santa Barbara, and the People's Water Board Coalition reached out to GLWA to share their brief titled, ["Suburban Detroit Water Unaffordability: Causes, Consequences, and the Need for Comprehensive Policy Interventions"](#). The report provides first-hand accounts of affordability challenges for residents across suburban Detroit and provides excellent insight as we further expand outreach efforts and work toward developing best practices in working with residents. The brief also highlights the need for funding at the state and federal level.

The policy recommendations in the brief align with the efforts of a work group hosted by Senator Chang. Also highlighted in the brief are references to the recent improvements to GLWA's Water Residential Assistance Program with the launch of WRAP Income Based Plan (IBP). In June, Chief Financial Officer/Treasurer Nickie Bateson and Affordability & Assistance Manager Madison Merzlyakov met with members of the team that authored the brief to discuss how we can collectively continue to support water affordability efforts at the state level.

Affordability & Assistance Manager Madison Merzlyakov also participated in a roundtable discussion hosted by the University of Michigan regarding the Low-Income Household Water Assistance Program (LIHWAP). LIHWAP is a federally funded, temporary program administered by the Michigan Department of Health and Human Services (MDHHS) in partnership with community action agencies. The roundtable was well attended, with representatives from community action agencies, MDHHS, water advocacy groups, utilities, Michigan Section of the American Water Works Association, and U.S. Representative Debbie Dingell. The discussion focused on what is working well with LIHWAP and what improvements would need to be made should the program be extended or made permanent. GLWA continues to engage with the group as recommendations are developed.

Michigan Environmental Justice Conference

Affordability and Assistance team members attended the Michigan Environmental Justice Conference hosted by the Michigan Department of Environment, Great Lakes, and Energy (EGLE) on June 21st and 22nd. The conference provided the team an opportunity to connect with water advocates and community leaders. Topics varied from existing environmental justice screening tools, to building resiliency throughout the state, and listening to personal stories of impacted communities.

Proposed Action: Receive and file this report.



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

Procurement Tip of the Month: Attending Pre-Bid/Proposal Meetings for GLWA Solicitations and Submitting Questions in Bonfire

When deciding to submit a response to a GLWA solicitation, Procurement encourages all interested vendors to attend the Pre-Bid or Pre-Proposal meeting for that solicitation for several reasons.

- ✓ Vendors can learn more about the project from the GLWA Project Manager as well as better gauge if it is a fit for their business.
- ✓ Vendors can learn about other vendors who are interested in submitting a response. Prime vendors who are seeking qualified subcontractors, or smaller businesses who seek to partner with a larger firm, may discover “matchmaking” opportunities. An attendance list for all Pre-Bid/Proposal meetings is always published as an addendum in Bonfire.
- ✓ For any solicitation that qualifies for GLWA’s Business Inclusion and Diversity (B.I.D.) Program, a Procurement representative will review the B.I.D. Program requirements and answer any questions vendors may have.

In addition to Pre-Bid/Proposal meetings, each GLWA solicitation also has a “Question and Answer Period.” During this period, vendors may submit questions they have related to the project by the deadline noted in the Bonfire project page. These questions are then answered in an addendum which ensures that all vendors receive the same information, and that the solicitation process remains fair and transparent for all participating.

To learn more about any upcoming Pre-Bid/Proposal meetings, or to submit a question regarding a GLWA solicitation, please visit GLWA’s [Bonfire Procurement Portal](#). Any further questions on these topics may be directed to the GLWA Buyer of Record associated with the solicitation.

Bonfire (“Euna Solutions”) Name Change

Vendors may have received notice recently from Bonfire announcing a rebranding and name change to “Euna Solutions.” While communications from Bonfire will now be sent from the email domain @eunasolutions.com, GLWA wanted to assure the Vendor Community that no additional changes are expected and that the Bonfire Procurement Portal will continue to operate as usual.

GLWA’s Vendor Outreach Event

GLWA is excited to announce that we will be hosting a Vendor Outreach Event on September 25, 2023. This event will be held in-person at Laurel Manor in Livonia, Michigan. Stay tuned for additional information and registration details in future editions of the *Pipeline* newsletter.

Virtual Vendor Introduction Meetings

If you are interested in learning more about doing business with GLWA, contact us at GLWAVendorOutreach@glwater.org to schedule a virtual vendor introduction meeting. Topics include information on submitting a competitive bid or proposal to any GLWA solicitation.

Keeping up with GLWA

Our Chief Executive Officer (CEO) Monthly Report provides a wealth of information and news about important initiatives within GLWA’s service territory that impact GLWA, its member partners, and the public. To read the June 2023 Monthly Report, please [click here](#).

What’s Coming Down the Pipe?

Current Solicitations: Register in GLWA’s [Bonfire Procurement Portal](#) for new solicitations and contract award information.

Upcoming Procurements: Next Three to Nine Months—See newsletter page 2.

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 July 2023

Category	CIP #	Description/Project Title	Budget Estimate
Water System (next four to nine months)			
Construction	122004	96-Inch Water Transmission Main Relocation- Phase III	\$90,000,000.00
Construction- Pre-Purchase	122004	96-Inch Water Transmission Main Relocation- Phase III- Pre-Purchase Pipe	\$2,300,000.00
Construction- Pre-Purchase	122004	96-Inch Water Transmission Main Relocation- Phase III- Pre-Purchase Valves	\$3,000,000.00
Construction	122016	Downriver Transmission Main Loop- Phase I	\$20,700,000.00
Wastewater Systems (next four to nine months)			
Construction	260510	CSO Outfall Rehabilitation Phase VI	\$15,000,000
Construction	211005.2	WRRF Pump Station 2 VFD Replacements	\$12,000,000
Construction	211007	Pump Station No. 2 Bar Racks Replacement and Grit Collection System Improvements	\$96,000,000
Water System (next three months)			
N/A			
Wastewater (next three months)			
Construction	260211	Emergency and Urgent Sewer Repair II	\$6,000,000
Construction	232002	Freud & Connor Creek Pump Station Improvements	\$125,000,000
Design-Bid-Build	261001	WRRF Rehabilitation of Secondary Clarifiers	\$6,000,000
Information Technology (next three months)			
Professional Services	N/A	800MHz Radio Assessment and Solution Implementation	\$3,500,000
Projects moved to Procurement Team (Preparing for solicitation on Bonfire)			
Professional Services	O&M	CSO Facility Accusonic Meter Maintenance	\$3,000,000
Professional Services	O&M	Overhead Door Preventative Maintenance and Repairs	\$892,000
Professional Services	O&M	Snow Removal and De-icing Services	\$2,158106
Professional Services	O&M	Water and Wastewater Services Charges Consultant	\$300,000

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

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